

INDUSTRY'S BIBLE—YOUR BEST GUIDE TO HI-FI GEAR

# AUDIO

THE EQUIPMENT AUTHORITY

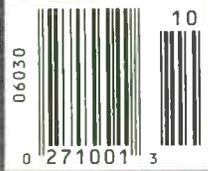
OCTOBER 1994

ANNUAL

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# WE'RE NOT S THEY ALL COME WI



**P/LD-1100 and T/DQ-1600** The P/LD-1100 is a remote controlled line drive preamp designed by John Curl. The T/DQ-1600 is a remote controlled broadcast reference tuner. Did we mention they can be controlled with the same handset?



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This approach to music has attracted its share of fanatics. People like our principal audio designer, John Curl. (Talk about passion — he was so possessed with making music come alive that he practically invented high-end audio in the '70s.)

It's also attracted high-end audio reviewers — who not only praise our products, but often purchase them for their own listening pleasure.

This dedication to music also goes a long way toward explaining all the products we've been developing, including five high end/home theater amplifiers, our third D/A converter, CD player/transport, a remote-controlled tuner and line-drive preamp. Each design is guided by a philosophy which dictates that you get the best possible products



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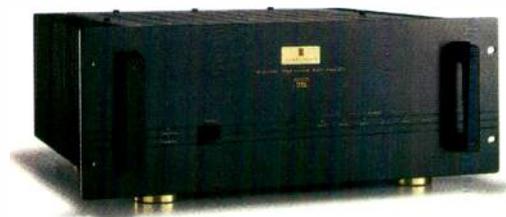
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**HCA-606** Our HCA-606 is the slightly smaller kid brother of the HCA-1206. Both make wonderful multi-zone stereo amps for custom installations. And both can be bridged to four or five channels.

# AUDIO

THE EQUIPMENT AUTHORITY



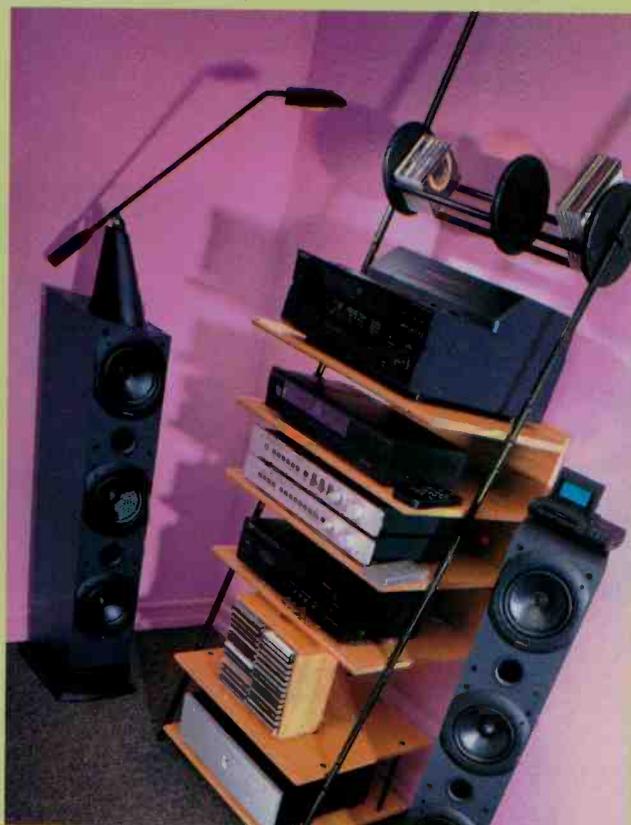
## ANNUAL EQUIPMENT DIRECTORY

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The Cover Photographer: Bill Ashe Studio  
 The Cover Equipment: KEF Q-70 speakers flank the Magro 24 component stand, CD rack, and console, which holds, from top, a Sony CDP-CX151 CD player, a Fosgate-Audionics Model Four surround processor, Counterpoint's HC-818A multi-zone preamp and HC-808A surround processor, Yamaha's KX-580S cassette deck, and Ayre's V-3 amplifier. Atop the right-hand speaker is a JVC XM-D1 MiniDisc recorder.

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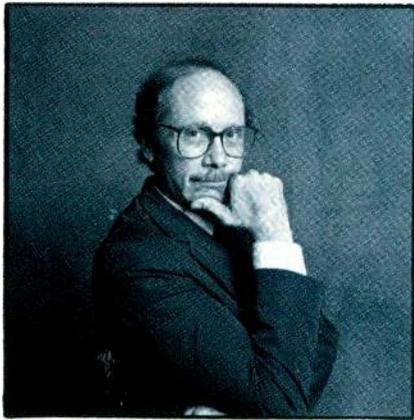
Grand in both style and technology, the *epic series* begins a momentous era of Klipsch Audio and Home Theater Systems. Our engineers combined the most innovative technology resulting in a sensational 3-dimensional soundstage: D'Appolito design, neodymium magnets, Kapton surrounds, exotic cone materials and CONTROLLED FOCUS TECHNOLOGY™. Our design team created a cabinet with subtle aesthetic detail, elegant from the line of the baffle to the weave of the custom grille cloth fabric. Gorgeous lacquer finishes were painstakingly researched, and developed specifically to blend with the home theater designs of the nineties.

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Let me introduce Ken Kessler, a new writer here at *Audio*. He will write a column called "Mondo Audio" that will cover the high-end scene at the audio industry's trade and consumer shows. In addition, he will be interviewing the colorful characters who abound in this field. Ken's column begins this month and covers the Summer Consumer Electronics Show held this past June in Chicago. While I gave you a few quick impressions of the Show in last month's editorial, Ken will give you some additional insights into what may well be the last of the Chicago shows.

I have known Ken for some years now, both through his presence at press events and through his writing. I have always been impressed with his wit, as well as his insight and common sense. While he has the self-assurance to spare no one who acts the pompous dunce (including potential employers such as me), he also has good ears for quality gear and a sentimental streak for old-line firms. I had always thought of him as a British writer, since I first came across his work in England's *Hi-Fi News and Record Review*. However, he turns out to be a transplanted Yankee, but I'll let him tell his own story. . . .

"Having spent my junior year in England—I majored in English at the University of Maine, which had a program with the University of Kent in England—I returned to the U.K. as a permanent resident in 1974. I have been

an audio casualty since the age of 16 (1968) when I bought my first hi-fi system: Dual 1019 turntable, Pickering cartridge, Scott 344C receiver, and some small Scott speakers. I worked for a hi-fi shop in Orono, Maine, during my senior year, before returning to the U.K.

"My main interest was, is, and always will be journalism, so I come from a writing background. I 'happened' into hi-fi journalism after a few years contributing to various music and automotive magazines. I went full-time into audio journalism in 1983, working for the short-lived *Stereo—The Magazine*, then as Assistant Editor for *Hi-Fi News*. I went free-lance in 1987, remaining with *Hi-Fi News* as Contributing Editor, and wrote for *The Absolute Sound* and *Stereophile*. Currently, I contribute to audio magazines in England, Italy, France, Germany, Norway, Mexico, and Hong Kong, as well as to America's *Glass Audio*. Outside the audio field, I write for *TOP*, the British edition of *Tower Records Pulse*, and *What Personal Computer* in the U.K. I am about to start working for *The Robb Report* in the U.S.

"I number The Beatles, Buddy Holly, The Kinks, Squeeze, Buffalo Springfield, the Spin Doctors, and Jackie Wilson among the very greatest performers of the 20th century. I prefer tubes to transistors if the impedance allows it, and want to retire to Northern Italy—if and when."

I am very pleased to add Ken to our masthead.

One last announcement, and one I am also very pleased to make: Tony Cordesman will now be contributing solely to *Audio* where his equipment write-ups appear in our "Auricle" column.

# AUDIO

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One look, one listen, will confirm Carver's passion for aural perfection. Gold plated input jacks, 5-way binding posts, dual analog meters. Expansive headroom that faithfully –

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Yet, this is but a preview. For a feature length brochure, contact Carver today.

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# WHAT'S NEW



## Atlantic Technology In-Wall Surround Speaker

Since not all homes have bookshelves properly placed to hold surround speakers, the Atlantic Technology 254 SR can also be mounted in or on the wall. Its 3½-inch surround drivers are angled and in

opposing phase, to randomize surround localization, while its 4-inch woofer improves power handling and extends bass down to 50 Hz. Black or white grilles are available. Prices: \$299/pair, black; \$319/pair, white.

For literature, circle No. 202

## Spectrum Audio Loudspeaker

Mounted coaxially with the woofer, the tweeter of the Spectrum Audio 108cd is suspended on neoprene rings that isolate it from cabinet vibration; it's also placed asymmetrically, for improved diffraction control. The system uses an 8-inch woofer and ¾-inch dome tweeter. Rated frequency response is 49 Hz to 21 kHz, ±3 dB, sensitivity is 91 dB, and power handling is 125 watts rms, 200 watts peak. Price: \$399/pair.

For literature, circle No. 200



## Bose Loudspeaker

Using Bose's well-known Direct/Reflecting technology, the Bose 701 incorporates two angled, 2¼-inch cone tweeters and a side-firing 6½-inch midrange, as well as an 8-inch woofer in a multi-chamber enclosure. The six-sided cabinet, in dark silver walnut, is 10.4 in. wide, 12½ in. deep, and 32½ in. high. Price: \$999 per pair. For literature, circle No. 204

## Hsu Research Subwoofer

The HRSW12V, Hsu Research's first powered subwoofer, uses a 12-inch, magnetically shielded woofer in a vented, cylindrical cabinet. The cabinet has a granite top, for use as an end table, and black knit cloth sides. The built-in amplifier, rated at 150 watts rms, includes a 24-dB/octave Linkwitz-Riley crossover (which can be defeated for use with THX system crossovers), a polarity inversion switch, soft clipping, and a level control. Frequency response is ±2 dB from 20 Hz up. Price: \$800 each. For literature, circle No. 201

## Canton Speakers

Compact as can be, the Canton Fonissimo system uses two 7-in. drivers in a bandpass subwoofer only 8.3 x 11.4 x 13 in., plus a pair of satellites (roughly, 5-inch cubes) whose 1-in. tweeters are mounted in front of their 4.3-in. midrange drivers. The tweeters have aluminum-manganese domes and neodymium magnets. Rated frequency response is 22 Hz to 30 kHz. Price: \$829 per set.

For literature, circle No. 203

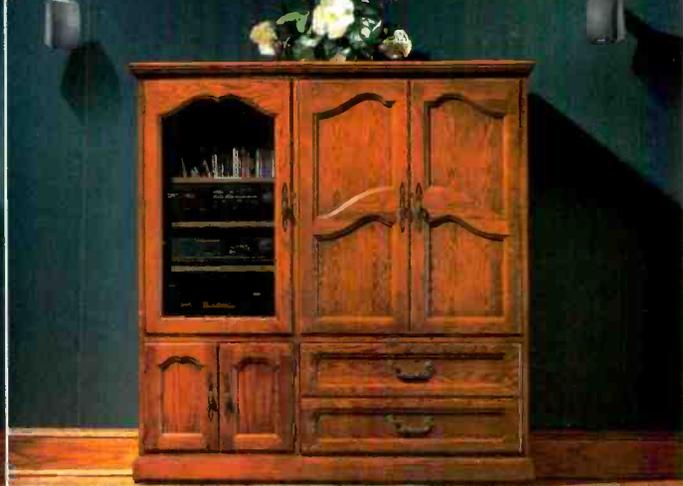


# Big Speaker Sound...

# without the Big Speaker.



The typical home theater system consists of a subwoofer, left and right stereo speakers and a center channel speaker. Not hard to spot are they?

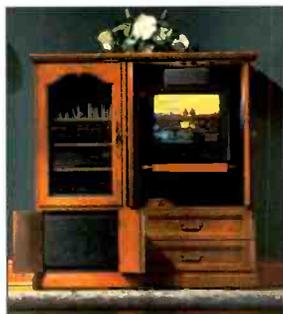


Here's the Polk RM7000 home theater system. The stereo speakers are mounted on the wall. The center channel speaker and the subwoofer are inside the cabinet!

## INTRODUCING POLK'S NEW RM7000 HIGH PERFORMANCE HOME THEATER SYSTEM

"As thrilling as home theater is, it's impossible to get excited about the pile of home theater speakers that engulf your TV. I didn't think you should have to sacrifice the look of your home to home theater. So I created a high performance system that gives you what you *really* want . . . big speaker sound without the big speaker." *Matthew Polk*

Wait till you hear the RM7000 system. You'll be astonished. Its true-to-life sound results from the same groundbreaking technology, Dynamic Balance<sup>®</sup>, used to create our acclaimed flagship speaker, the LS90. Yet the RM satellites are so small, they fit into your palm. Most importantly, so small they disappear into your room.



The powered subwoofer fits easily into your furniture and, thanks to its revolutionary technology, guarantees more bass in less space.

The powered subwoofer, with our newest technology, high velocity compression drive,<sup>™</sup> guarantees you powerful bass in a size that will fit into your furniture. In fact, with the RM7000 we've miniaturized everything but that big, room-filling Polk sound.

For more information on the RM7000 and other Polk home theater speakers, call 1-800-377-POLK or dial our toll-free dealer locator to find your nearest authorized Polk dealer. Stop in and tell them that you want the big speaker sound without the big speaker.

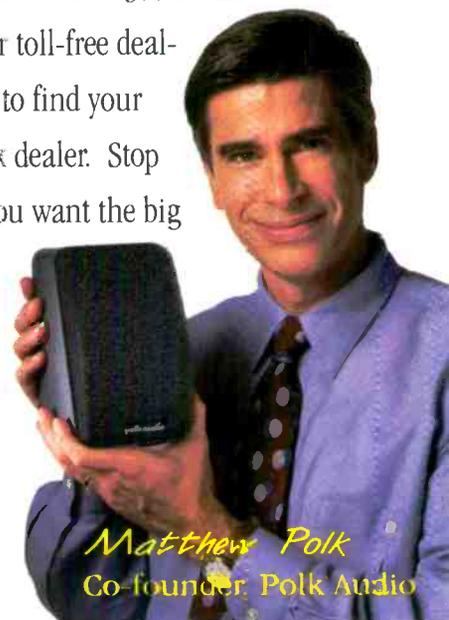
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*Matthew Polk*  
Co-founder, Polk Audio



# WHAT'S NEW



## Marantz A/V Tuner/Preamp

Marantz's first THX controller, the AV-600THX tuner/preamp, includes THX re-equalization for overall tonal balance, surround decorrelation for enhanced surround spaciousness, THX

timbre-matching EQ for smoother front/rear pans, and a crossover that follows Home THX specifications. Other features include on-screen display, 30-station AM/FM memory, and a calibrated volume control. Price: \$1,199. For literature, circle No. 205



## Meridian FM Tuner

The Meridian 504 has a dual MOS-FET r.f. amp for wide dynamic range, matched-pair ceramic filters, and a low-distortion, Walsh-function stereo decoder. An eight-character alphanumeric display can be

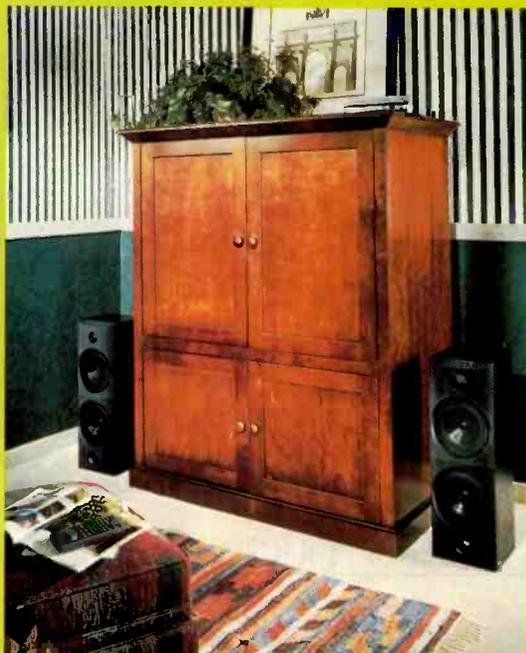
used to show station names or call letters; up to 30 station frequencies can be stored in memory. A communications link is provided for shared control and display functions with other Meridian 500-Series components. Price: \$995. For literature, circle No. 206



## McCormack Audio Preamp

The Micro Line Drive, from McCormack Audio, is a line-level preamp with three inputs, one buffered tape loop, and two

outputs. It can be used in passive or active mode; the active mode offers three internally selectable gain settings. A muting switch is also provided. Price: \$595. For literature, circle No. 207



## Custom Woodwork & Design Home Theater Cabinet

Just 46 inches wide by 57 inches high, the CWD Woodstock II can hold the electronics for a home theater system, including a 35-inch TV. Adjustable shelves divide the space below the TV into six compartments; fabric-grille

doors are optional, to pass remote-control beams or the sound of a center speaker. The narrow cabinet allows external speakers to be mounted close to the screen. Available finishes include cherry, mahogany, spice, hunter green, white birch, and satin blue with cherry accents. Price: \$1,200. For literature, circle No. 208

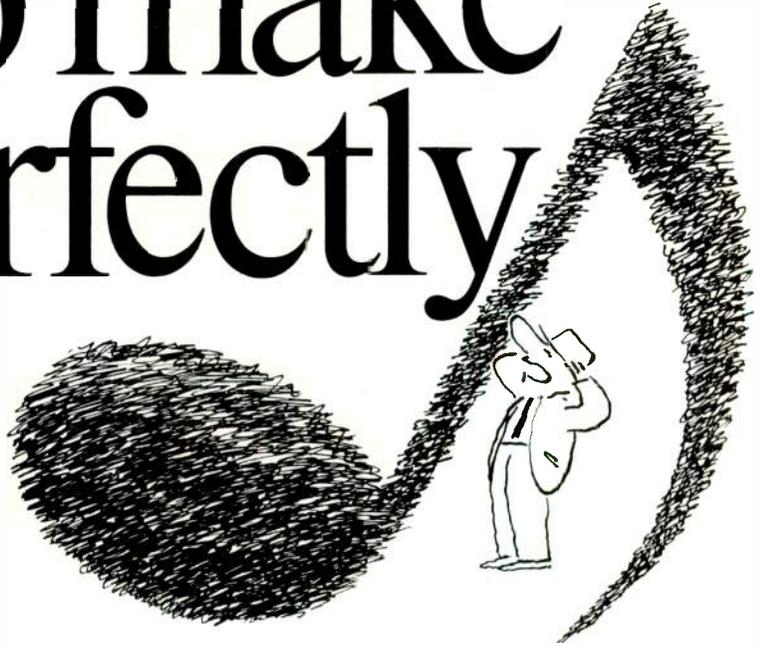
## MacTec CD Dividers

A navigational aid for large CD collections, MacTec DiscPickables are CD-sized cardboard separators with index tabs that can be bent for easier viewing and relabelled at will. Dividers are available with vertically lettered tabs, as shown, for shelved collections and with horizontally lettered tabs for CD stacks or drawers. Each pack contains 12 preprinted tabs (AB through



XYZ) and four blank tabs for custom labelling. Price: \$5.99 per pack. For literature, circle No. 209

# Adcom would like to make this perfectly clear.



## Again, The Critics Agree

*"Electronic equipment\* (especially digital audio gear) is vulnerable to both annoying and catastrophic power-line problems. Your stereo gear should have line spike and surge protection, with hash filters thrown in too. Line protection—you can pay a little for it now, or you can pay a lot for it later."*

—Ken Pohlman, *AUDIO*, November 1987.

For a modest investment, the ADCOM ACE-515 enhances both audio and video clarity while protecting your equipment from damaging line voltage disturbances. Once again, ADCOM lives up to its reputation of offering superior performance at a reasonable cost. For complete technical data, please visit your Adcom dealer. You'll discover the ACE-515 is more than an accessory. It's a necessity.



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details you can hear

Regardless of how sophisticated your stereo and video system is, it may never achieve its full performance if plugged directly into an AC outlet. Raw and unprocessed AC power can severely diminish the clarity of audio signals and reduce the resolution of your video picture.

ADCOM's ACE-515 AC Enhancer significantly improves the performance capabilities of your system by filtering and processing raw AC power, unveiling a pure, noise-free power source.

## Listen To The Critics

*"...the effective suppression of AC 'RF hash' by the ACE-515 improved clarity and lowered noise in all three CD players. . . .the significant improvements in instrumental and vocal harmonic retrieval and hall ambience are superb. . . . it simply appears to allow musical information to be passed through to the listener with less veil and electronic 'haze.' "*

—Lewis Lipnick, *Stereophile*, Vol. 11 No. 4, April 1988.

Recommended accessory in *Stereophile*, Vol. 12 No. 4, April 1989.

## Line Protection: It Pays For Itself

The ACE-515 also protects your valuable equipment from harmful high-voltage spikes and surges. And, its sequential turn-on/turn-off control circuit guards your speakers from disturbing, damaging thumps.

# WHAT'S NEW

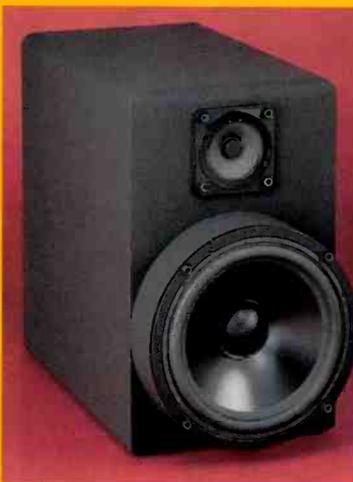


## Diablo Acoustics Loudspeaker

The Diablo Model 2 is a floor-standing, three-way, sealed-box speaker. Arrayed in a D'Appolito configuration, the five drivers include two 10-inch long-throw woofers, two titanium-dome midranges, and one titanium-dome tweeter. Rated anechoic frequency response is 35 Hz to 26 kHz,  $\pm 3$  dB; typical in-room bass response is 3 dB down at 26 Hz. Sensitivity is 87 dB; nominal impedance is 4 ohms, minimum 3 ohms. Price: \$9,000 per pair. For literature, circle No. 210

## Sequerra Loudspeaker

Designed by Dick Sequerra, the NFM-PRO is built of a phenolic laminate developed for jet-airplane jigs and fixtures. The 6½-inch woofer is extended from the front of the sealed enclosure, to provide phase alignment with the 2-inch cone tweeter; tweeter level is adjustable from -2 to +3 dB, in 1-dB steps. Frequency response is  $\pm 1$  dB from 70 Hz to 20 kHz on axis, with a -3 dB point of 60 Hz; response is within -3 dB to 10 kHz over an off-axis range of  $\pm 30^\circ$ . The speaker is



available with a black or gray Nextel finish. Price: \$2,000 per pair.

For literature, circle No. 211

## Cambridge SoundWorks Multimedia Speakers

SoundWorks by Henry Kloss is Cambridge SoundWorks' first speaker system for multimedia computer use. Two three-inch cubes contain shielded long-throw 2-inch drivers that cover frequencies above 150 Hz; bass is handled by a 4½-inch woofer that shares a small (5 x 8 x 9 in.) cabinet with a three-channel amp whose output is tailored to the speakers. The amp can operate

from an internal a.c. supply or external 12-V sources such as batteries. Supplied accessories include desktop stands for the satellites and hookup wire. An optional wired remote provides volume control plus an additional input that can be heard instead of the computer's output or blended with it. The system is available in gunmetal gray Nextel or standard gray-beige. Price: \$179 per system; remote, \$29.95.

For literature, circle No. 212



## Energy Surround Speakers

Like many surround speakers, the Energy RVSS uses dipolar radiation to create a diffuse, "sourceless" sound field. But at low frequencies, the output from a dipole's two sides cancels, sacrificing bass. The RVSS therefore uses bipolar radiation below 400 Hz, for bass with a rated -3 dB point of 65 Hz. Sensitivity is 86 dB; nominal impedance is 6 ohms, and minimum impedance is 4 ohms. Cabinets are available in black or white, with matching grille cloth. Price: \$550 per pair.

For literature, circle No. 213



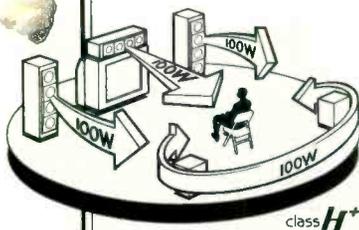
## Niles Audio Outdoor Speaker

Designed for use indoors or out, the Niles OS-10 features a cabinet of mineral-filled polypropylene, with powder-coated aluminum grilles and mounting brackets. The 5¼-inch woofer is of polypropylene with a butyl rubber surround; the 1-inch dome tweeter has a microscopic rubber coating that provides both waterproofing and extra high-frequency damping. The curved grille is designed to reduce diffraction, while the wedge-shaped cabinet allows a wide range of installations. Price: \$379.95 per pair.

For literature, circle No. 214

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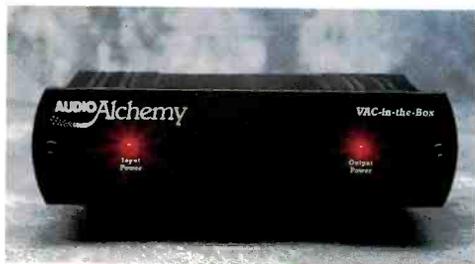
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# WHAT'S NEW



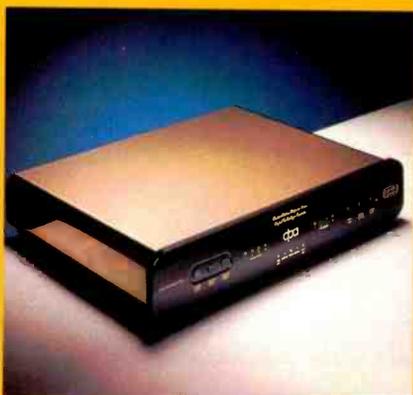
## Audio Alchemy Phono Preamp

Suitable for MM or MC cartridges, Audio Alchemy's VAC-in-the-Box (for "Vinyl/Analog Converter") has a differential FET input, passive filtration for the first pole of the RIAA equalization curve, low-impedance input-isolation

buffers, and separate left- and right-channel power supplies. Internal jumpers are used to select input-termination capacitance and resistance and gain of 40, 50, or 60 dB. RIAA accuracy is  $\pm 0.1$  dB, and S/N is better than 90 dB. Price: \$259. For literature, circle No. 215

## DPA Digital D/A Converter

DPA Digital's DX processor technology allows the PDM 1024 to have a radically simple analog stage (two resistors, two capacitors, and a balanced op-amp). Other features include user-adjustable dither levels, eight 32-bit floating-point digital filters, eight noise shapers, and 128-times oversampling. Connections include four coax, three



Toslink, and one AT&T-style digital inputs; the analog stage has balanced output. Price: \$9,995. For literature, circle No. 216



## California Audio Labs Compact Disc Player

California Audio Labs' own digital-servo laser transport forms the basis of the DX-1. The Delta Sigma one-bit D/A converter is mounted on the transport circuit board, to

shorten the digital signal path and increase isolation between the digital and analog stages. A multi-layer steel subchassis is used to counter the effects of external vibration. A 16-function remote control is supplied. Price: \$595. For literature, circle No. 218



## Proceed A/V Preamp

The Proceed PAV, from Madrigal Audio Laboratories, incorporates surround processing and input switching for a home theater system. Home THX and Dolby Pro Logic surround modes are provided for movies and videos, stereo surround for music, and a surround simulation mode for monophonic movies and

recordings. The stereo surround mode derives its cues from ambient information in the recording. Six audio-only inputs (two balanced) and four A/V inputs (with composite or S-video formats) are provided. All inputs can be routed to the main, record, or remote output, in any combination. A "learning" remote control is provided. Price: \$4,195. For literature, circle No. 217



## Yamaha Cassette Deck

Yamaha's first cassette deck with Dolby S noise reduction, the KX-580 also features Dolby B and C NR plus HX Pro headroom-extension circuitry. The S/N with Dolby S is 80 dB. Other features include synchro start when used with Yamaha CD players, manual bias adjustment (and an extra-high bias frequency of 16C kHz),

"Play Trim" to correct for differences in Dolby level settings between decks, bidirectional intro scan, and separate power supplies for signal circuits and mechanical operations. Frequency response is 20 Hz to 20 kHz,  $\pm 3$  dB, with metal tape; wow and flutter is 0.05%. Prices: \$399; optional remote control, \$30. For literature, circle No. 219

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# WHAT'S NEW



## NHT Powered Subwoofer

Externally rather than internally powered, the SW1p subwoofer from NHT comes with a 60-watt mono amp. The driver is an 8-inch, high-compliance woofer with two-layer voice-coil, in a vented enclosure. The 12 in. H x 16 in. W x 12 in. D cabinet is finished in high-gloss black laminate. The amplifier, in a similar finish, incorporates a variable crossover. Price: \$500.

For literature, circle No. 220

## KLH Powered Subwoofer



The Video Series V-210, from KLH, has a featureless exterior with driver, controls, and connections underneath. Its 10-inch driver is powered by a 120-watt amplifier that uses switch-mode (Class D) circuitry for high efficiency and minimal heat. The amp accepts line- and speaker-level inputs, and has switchable polarity. Frequency response is selectable, either 25 to 85 Hz for music listening or 25 to 120 Hz for home theater use. The vented cabinet, finished in simulated oak or black wood grain, is 14 1/8 in. H x 16 3/8 in. W x 15 3/8 in. D. Price: \$499.

For literature, circle No. 221



## Cerwin-Vega Home Theater Speakers

The Sensurround System 6, from Cerwin-Vega, is a six-piece home theater system. The four HT-S5 satellites used for front left and right and rear/side surround, are shielded two-way units with 5-inch woofers and rated frequency response of 125 Hz to 20 kHz and self-resetting tweeter-protection devices. The

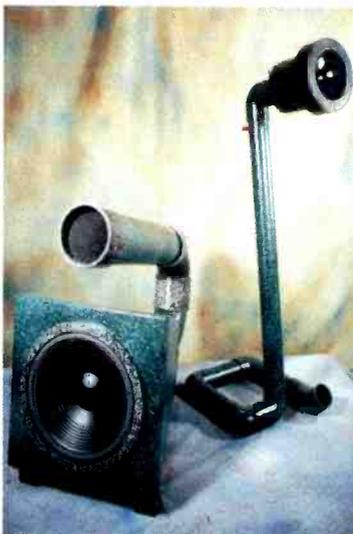
HT-SMC center-channel speaker is shielded and uses a 4-inch x 10-inch elliptical driver. And the HT-10D subwoofer has a 10-inch driver with dual voice-coil, in a bass reflex enclosure; it's rated to cover 40 to 125 Hz,  $\pm 2$  dB. All speakers are finished in black woodgrain vinyl. Prices: System, \$1,155; HT-S5 satellites, \$330/pair; HT-SMC, \$165; HT-10D, \$330.

For literature, circle No. 223

## Derek Speaker-Sculpture Loudspeakers

At first it looks like a microphone, but the Cobra, by Derek Speaker-Sculpture (on right) is a tubular transmission line, 35 inches high, housing a 5-inch driver; rated frequency response is 50 Hz to 16 kHz. The Scorpion 12-inch woofer (on the left) also has a tubular transmission line behind it, for a rated response of 21 to 120 Hz. Prices: Cobra, \$1,100 per pair; Scorpion, \$1,650 each.

For literature, circle No. 222



## JMLab Speaker

Standing 43 3/4 inches tall, the JMLab 913.1 Spectral is a three-way system using four drivers. Its two 8-inch woofers and its 5-inch midrange use cones of resin-suspended glass microspheres sandwiched between thin Kevlar sheets, for lightness and rigidity. The tweeter's 1.2-inch titanium dome is coated with a titanium dioxide damping layer; the 4-inch tweeter magnet weighs 3.3 lbs. Each woofer is housed in a separate, vented, sub-enclosure. The overall cabinet is of 3/4-inch MDF, braced at the sides by 3/4-inch layers of African anigre wood; the front baffle has rounded edges to minimize diffraction and a foam coating to minimize early reflections. Rated frequency response (+0, -3 dB) is 35 Hz to 25 kHz on axis and to 22 kHz, 30° off axis. Price: \$4,295 per pair.

For literature, circle No. 224

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**Steely Dan: Aja** (MCA) 00409

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**Fleetwood Mac: Greatest Hits** (Warner Bros.) 00796

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**Earl Klugh: Move** (Warner Bros.) 03370

**Louis Armstrong: All Time Greatest Hits** (MCA) 03399

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**Crash Test Dummies: God Shuffled His Feet** (Arista) 02593

**Fourplay: Between The Sheets** (Warner Bros.) 35074

**Grammy's Greatest Country Moments: Vol. 1** (Atlantic) 02995

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**Anthrax: Live-The Island Years** (Island) 03159

**With Honors/Sdtk.** (Sire/Maverick) 03163 ‡

**Randy Travis: This Is Me** (Warner Bros.) 03171

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**Kathy Mattea: Walking Away A Winner** (Mercury) 03253



**The Crow/Sdtk.** (Atlantic) 03173

**Reba McEntire: Read My Mind** (MCA) 03243

**All-4-One** (Atlantic) 03267

**SWV: The Remixes** (RCA) 03301

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**Maverick/Sdtk.** (Atlantic) 03378

**Bob Mintzer/Michael Brecker: Twin Tenors** (Novus) 04839

**Damion "Crazy Legs" Hall: Straight To The Point** (MCA) 03390

**The Flintstones: Music From Bedrock/Sdtk.** (MCA) 03397

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**Carpenters: The Singles 1969-1973** (A&M) 04393

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**The Best Of Woodstock** (Atlantic) 04908

**Helmet: Betty** (Interscope) 04910

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**BLACKstreet** (Interscope) 04922

**Biohazard: State Of The World Address** (Warner Bros.) 04933 ‡

**Bolingo** (Giant) 04934

**Billy Dean: Men'll Be Boys** (Liberty) 04937

## Classical Favorites

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**Mad About Mozart** (DG) 02492

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Donald Fagen: Kamakiriad (Reprise) 11330

Aaliyah: Age Ain't Nothing But A Number (Jive) 14701

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John Mellencamp: Dance Naked (Mercury) 04906

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Meat Loaf: Bat Out Of Hell II: Back Into Hell (MCA) 83394

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Eric Clapton: Timepieces-Greatest Hits (Polydor) 23385

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Elvis Presley: The Number One Hits (RCA) 72190

Duran Duran: Decade/Greatest Hits (Capitol) 73573

Pantera: Far Beyond Driven (East West America) 73909 ‡

The Police: Every Breath You Take-The Singles (A&M) 73924

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For literature, circle No. 225



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## Arcam D/A Converter

The Arcam Delta Black Box 500 has connections—seven digital inputs (including RCA and BNC coaxial, balanced, and Toslink optical), optical (BNC) and coaxial digital recording outputs, and dual analog outputs. The extra analog jacks are high-level

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## JVC MiniDiscRecorder

Unconventional in appearance, JVC's XM-D1 features a pop-up LCD display with adjustable angle and a jog dial for editing and play. Like many MiniDisc portables, it has 10-second memory backup for shock-resistant play; it also features four edit modes, a timer/clock, and synchronized

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## Sony DAT Recorder

Several professional features are included in the Sony DTC-2000ES. Super Bit Mapping technology uses noise-shaping techniques to "psychoacoustically integrate 20-bit data" into the 16-bit DAT format, for lower noise and greater perceived dynamic range. A four-head system

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For literature, circle No. 229

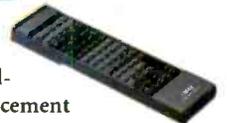


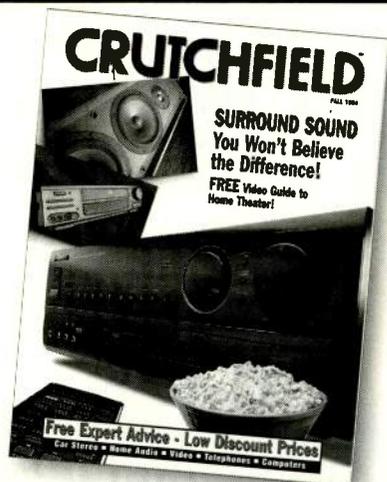
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## Parting is Such Sweet Sorrow

Dear Editor:

I am writing this in regard to my decision not to renew my *Audio* subscription. It seems when parting with an old and good friend that more is required than just a goodbye. I started out with *Audio* roughly 20 years ago, drawn to that first issue by a "how-to" article on mike placement for recording various instruments. My involvement with recording music at the time was demanding more knowledge, and *Audio* delivered some good basics in that area. My focus has shifted even further towards sound recording, specifically in the pro and home-studio environment, and I'm taking publications to cover this area. Thus I've had to sacrifice my *Audio* subscription as there just aren't enough funds to go around like there used to be.

The decision to subscribe to *Audio* was easy, and my relationship with you folks has been informative, entertaining, and always top notch. There have been very few issues that I have not read cover to cover. (Yes, I even *enjoy* the auto-sound issue!) I've enjoyed everything from equipment reviews to album reviews, interviews to "how to's," and your questions and answers on technical whys and hows.

I appreciate all those who have written and now write for *Audio*. I will miss Messrs. Burstein, Whyte, and Feldman very much, as much of what I know about audio I learned from them, along with all your other folks. Mr. Canby and Mr. Giovanelli are always must reads. With them, I have discovered old and new things and learned much. Jon and Sally Tiven and Michael Tearson have become trusted opinions when I consider music purchases. All the other authors, who are too numerous to mention (and who my mental facilities may not remember), have added to the rich experience of my *Audio* readership.

*Audio* will always be a part of my life and I thank you for being able to partake of such a fine magazine. You've been very special. If you would, could you give all your people a sincere thanks from me? Who

knows, I may join back up at a later date. I'm sure when I do, I'll find the same excellent magazine I have enjoyed these last 20 years or so. Thanks again!

Ron Carlson  
Boone, Iowa

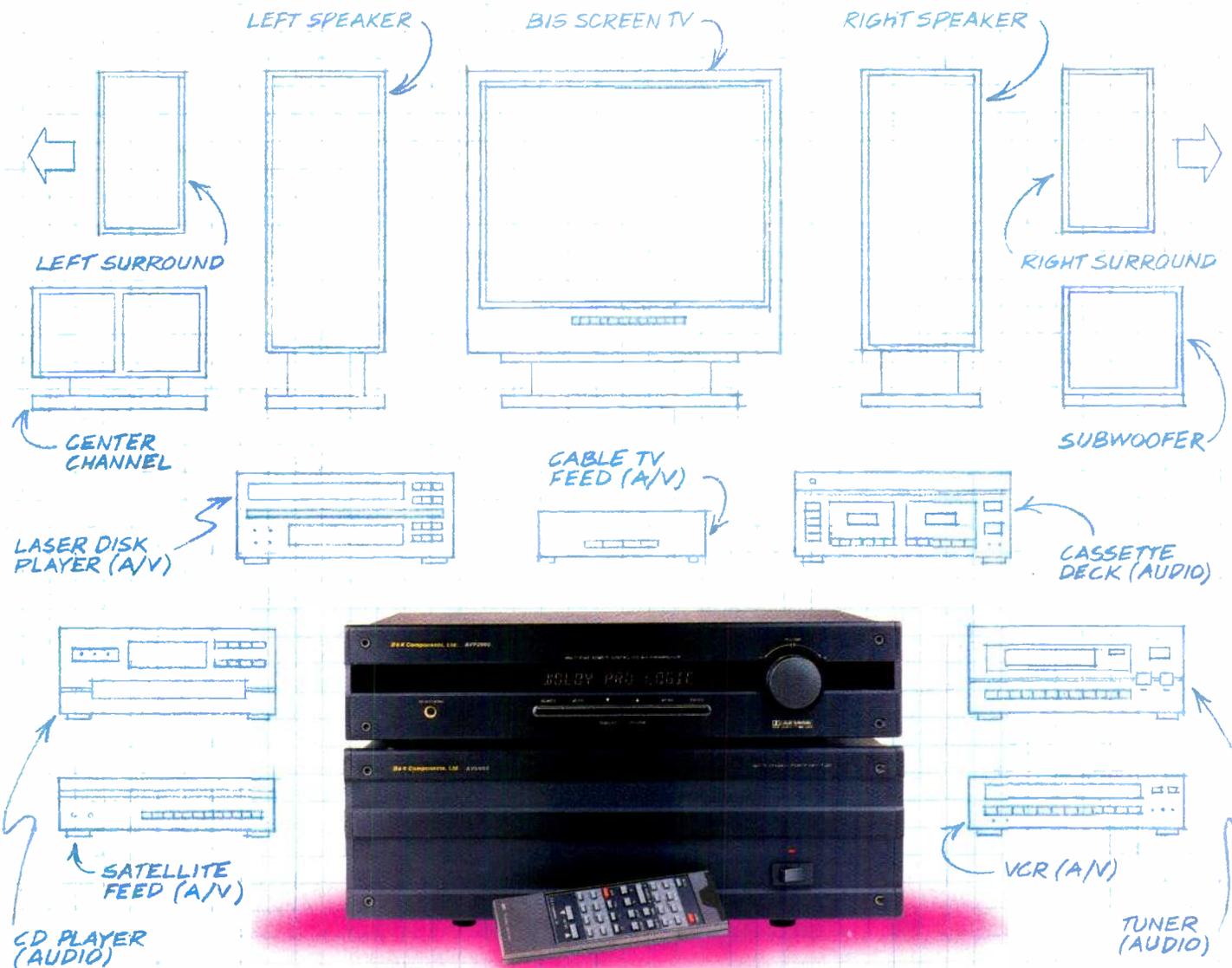
## Polarity Audible?

Dear Editor:

Dan Shanefield comments in June's "Signals & Noise" about my article, "A Quest for the Audibility of Polarity" (December 1993), that I was not clear on the issue of the audibility of acoustic polarity during normal stereo audition in normal listening rooms. He quotes me correctly, and I am sure that I said what he claims is on the tape of the conference. I have not heard it. I would like to clarify my comments as follows. I believe our large-scale tests indicate a slight positive result for the audibility of acoustic polarity inversion. These results are for a simplified listening situation. I can state that I have never heard, nor has anyone I would trust claimed to have heard, the effect of polarity inversion in normal stereo audition in normal listening rooms with normal program material.

As for the Clark Johnsen comments I respond as follows. Our paper does not claim to have all references ever written on this issue, and many are indeed omitted. I am quite familiar with the Richard Heyser comments from *Audio*, August 1979 as well as his references and many others as well. He makes an impassioned plea to the industry to keep track of absolute polarity. I discussed this with him many years ago, and I am in total agreement. However, in the ensuing 15 years very little has been done about keeping track of absolute polarity by the recording industry. I find nothing curious about the omission of a reference to his comments since the article contains only personal opinion and no technically supportive information or data.

Believe me, I do not underestimate the quality research done by others. I know many of the persons who have done this research, have high respect for their work,



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and have in many cases discussed their work with them personally. This is especially true of Richard Heyser and Professors Lipshitz and Vanderkooy.

Nor do I find the article "equivocal" in any way. Equivocal means open to two interpretations or intended to mislead or confuse. Quite to the contrary, our intention was to report what was discovered in some very careful experiments. And, to explain how we tried to track down the reasons for the elusiveness of the audibility of polarity inversion.

We found that the issue is not black or white, i.e., that polarity can or cannot be heard all of the time in all circumstances. Instead we found that the issue has many shades of gray. Audibility of polarity depends on the signal being auditioned, the listening conditions, and the acuity of the listener. That we were not able to pin down the exact conditions is related to the complexity of the problem. No one else has reached a final understanding either. I believe that efforts to resolve the conditions under which absolute polarity is audible

need to be consistently pursued toward the truth of the matter with the clarity and authority of those who do the hard work and analysis required to find this truth.

R.A. Greiner, Professor  
Fellow of the Audio Engineering Society  
Madison, Wisc.

## Poles Apart

Dear Editor:

Thanks for printing my letter and Clark Johnsen's in the June issue commenting on the polarity piece by Prof. R.A. Greiner and Douglas E. Melton in the December '93 issue. Stirring the pot makes the stew more interesting.

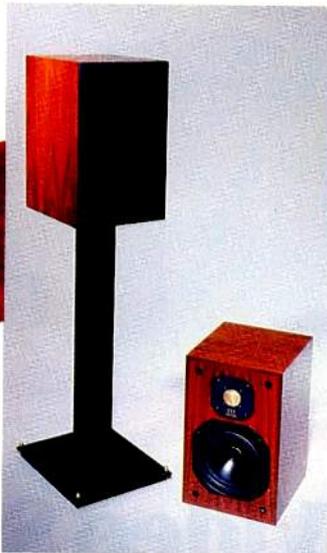
There's some truth in both our letters, and also in Fred Davis's piece on car speaker polarity in that issue. How can we reconcile all this disparate stuff and still keep our sanity?

Well, for one thing, Clark continually refers to *old* stuff by Prof. Stanley Lipshitz. Stan's *later* writings on this subject (in the *Journal of the Audio Engineering Society*) were much more circumspect. (When I wrote to Stan to emphasize the limitations of polarity, just as I wrote to *Audio* about Dick Greiner's piece, Stan agreed with me; see References [7] and [8] in Greiner's article.) Many of us have narrowed our views on polarity as we realized certain fine points.

As to Davis's article, car sound has short reverb time, so maybe the reverb doesn't interfere as much as at home. A car is more like the headphone situation, where we all agree that you can hear polarity more readily. Also, the relative phase between two or four speakers is different from the absolute phase, or polarity, effect.

I've found that it's easy to make polarity more audible. All you need is to put in series with your speaker(s) a little network consisting of a 10-ohm resistor in series with a rectifying diode, and then a 1-ohm resistor in parallel with that pair. This will add approximately 10% asymmetry to your playback system. (Asymmetry is the most common type of second-harmonic distortion.) Miraculously, reversing the polarity of your speaker(s) will now make the sound be slightly but definitely different when playing back asymmetric recordings, such as trombone, harmonica, drums, and some voice solos. I can hear the effect of

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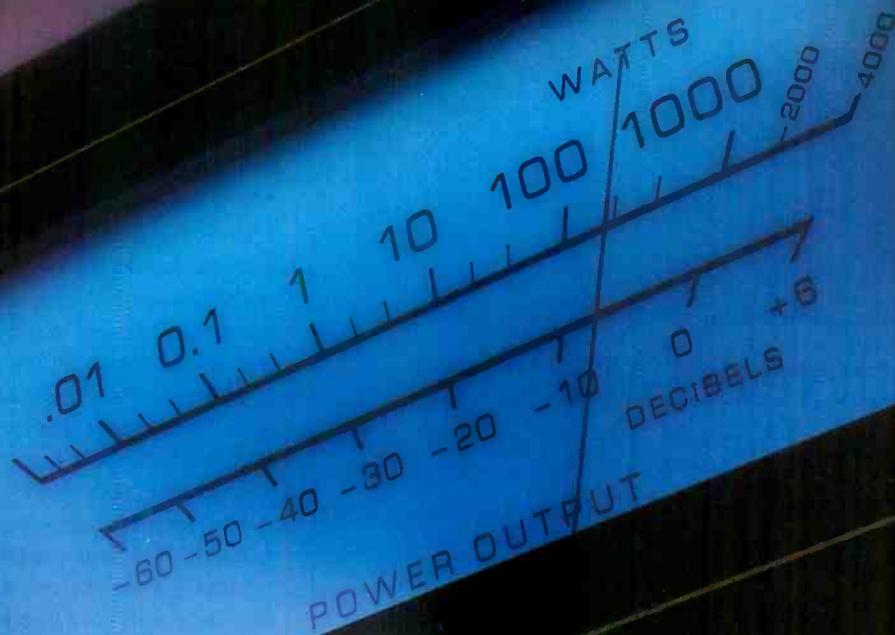
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20



# McIntosh

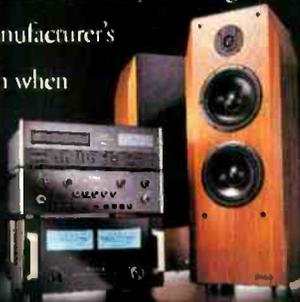
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my little "dirtbox" networks on several recordings played back in mono, and even on a very few in stereo. If I change the resistors so that only 1% distortion is added, I think I can hear inversion on mono playback of some Sheffield recordings and my own solo tapes, but I haven't done a double-blind test. You can claim to your friends, if you do a demo with this little dirtbox, that the less asymmetry it takes to make this audible with your system, the less distortion there was in your system to start with. If you could already hear polarity reversals, even before adding the network, then I think that there was already plenty of second harmonic distortion somewhere in your system—most likely in the speakers, but maybe even right in your own ears! (I've done a slightly longer piece on this for the Boston Audio Society *Speaker* and the newsletter of the South-eastern Michigan Woofer and Tweeter Marching Society.)

Please note that I'm not claiming that Johnsen and others can't possibly hear pure polarity itself—I'm only claiming that there's another possible explanation, which should always be considered. Dick Greiner said his speakers had "low" distortion; when I asked him how low, he said below 1% total, with minimum-phase and linear-phase behavior. That's right on the borderline, so it leaves me uncertain—not negative, just uncertain.

*Daniel J. Shanefield  
Rutgers University  
Piscataway, N.J.*

### P.S. On Polarity

Dear Editor:

R. A. Greiner and Douglas E. Melton's article, "A Quest for the Audibility of Polarity" (December 1993), is a wonderful piece on an interesting and important subject that's been ignored for too long.

It's an area that's ripe for experimentation. The average audiophile can participate too. You just need to simultaneously reverse the wires to *both* the left and right loudspeakers to invert the polarity of reproduced sound in your room. Then listen carefully to recordings while switching loudspeaker polarity. You may be surprised at the differences in what you hear.

*John Sehring  
Baker, Mont.*

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## Two Thumps Up

Dear Editor:

I would like to thank John F. Sehring for his excellent article, "One Thump or Two: The Advantages of Stereo Subwoofers" (February). I have wondered about the possible reduction of level when a monaural subwoofer is fed with out-of-phase low bass stereo audio signals.

Also, Mr. Sehring cleared up my confusion about whether sub-bass sound is localizable or not. My next subwoofer system will definitely be a stereo one.

Ted Nguyen  
New Orleans, La.

## The Lasting Legacy of Studio C

Dear Editor:

Just a footnote to the article "Classic Jazz Remasters" in the July issue. I agree with engineer Mark Wilder's opinion that "the old stuff sounds better than what we're doing now." He did not mention it, but I'm sure he would agree, that a principle reason those recordings sound so good is the sumptuous, natural acoustic sound of Columbia's huge Studio C, which provides such a distinctive auditory signature on most of the Columbia jazz LPs of the '50s and '60s: Classic albums by Davis, Mingus, Ellington, Mulligan, et al., as well as Brubeck. The reverberation was considered an essential part of the music, and distant miking captured it naturally at the time of performance. As in classical music, there is a sense of realism in the resulting sound that cannot be achieved by any other means.

Studio C was torn down years ago. Sadly, I believe there is not a studio in this country today that comes even close to matching it in sound quality.

Doug Pomeroy  
(Former Columbia Records Engineer)  
Pomeroy Audio  
Brooklyn, N.Y.

## Mixed Signals

Dear Editor:

In the July 1993 "Signals & Noise," John Pfeiffer referred to a CD of the NBC Symphony Orchestra broadcast of April 4, 1954. A reader had queried him on the source of the master tape. Pfeiffer suggested that because the CD lacked the broadcast interruption (when Toscanini failed),

the Compact Disc's master tape was not from the experimental tape Pfeiffer made and that it must be a reprocessing of a mono tape. I think Pfeiffer must have been a little mixed up. The broadcast was from a separate group of microphones and a separate, mono mix. The interruption was only of the broadcast, not the experimental stereo tape.

I have had a copy of that tape for several years. I heard rumors of such a recording for years, then suddenly, there it was. I dubbed it on loan from a small record

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company who apparently provided it to the company that made the referred-to CD. That tape had some problems with drop-out as it was in quarter-track mode. It was further blemished with noise, hum, thin bass, no upper-highs, etc. The CD sounded just like that quarter-track tape. Luckily I recognized these problems at the time and with the aid of sophisticated instruments, I was able to make significant improvements in all those areas while dubbing my own, much superior copy. That tape is definitely stereo. The instruments are definitely separated, not the frequency. You can even hear Toscanini walking and the radio announcer's voice bleeding from the broadcast booth.

I think that the original master tape that Pfeiffer made would sound even better and that RCA/BMG should consider releasing the undamaged Wagner selections along with the Rossini overture from the week before (apparently RCA lost the third movement of the Tchaikovsky "Pathétique"). It really is such a shame that we had to wait a lifetime to hear this and it's still not the original. In the meantime, RCA's tapes either rot in their vaults, get lost, or are destroyed.

Mike Stosich  
Senior Design Engineer  
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**Barbra Streisand—Back To Broadway** (Columbia) **461-988**

**Elvis Costello—Brutal Youth** (Warner Bros.) **476-168**

**"8 Seconds"—Orig. Sndtrk.** Featuring Reba McEntire, Vince Gill, etc. (MCA/Nashville) **475-483**

**Confederate Railroad—Notorious** (Atlantic) **475-194**

**Yanni—Live At The Acropolis** (Private Music) **475-178**

**Gerald Albright—Smooth** (Atlantic) **475-152**

**Richard Marx—Paid Vacation** (Capitol) **474-973**

**Joshua Kadison—Painted Desert Serenade** (SBK) **474-791**

**Neal McCoy—No Doubt About It** (Atlantic) **474-619**



**Soundgarden—Superunknown** (A&M) **475-186**

**Brooks & Dunn—Hard Workin' Man** (Arista) **454-025**

**Meat Puppets—Too High To Die** (London) **474-221**

**Yanni—In My Time** (Private Music) **459-018**

**Faith Hill—Take Me As I Am** (Warner Bros.) **473-728**

**Michael Bolton—The One Thing** (Columbia) **470-005**

**"Maverick"—Orig. Sndtrk.** Featuring Clint Black, Vince Gill, more. (Atlantic Nashville) **484-139**

**David Sanborn—Hearsay** (Elektra) **481-768**

**"The Flintstones"—Orig. Sndtrk.** Featuring B-52's, Crash Test Dummies, Us3, etc. (MCA) **480-178**

**Heavy D. & The Boys—Nuttin' But Love** (Uptown/MCA) **478-384**

**Jackson Browne—I'm Alive** (Elektra) **469-783**

**10,000 Maniacs—MTV Unplugged** (Elektra) **469-775**

**Pantera—Far Beyond Driven** (eastwest) **468-926**

**Clay Walker** (Giant) **467-449**

**Barry Manilow—Grt. Hits** (Arista) **288-670**

**Nirvana—In Utero** (DGC) **467-159**

**The Cranberries—Everybody Else Is Doing It, So Why Can't We?** (Island) **465-559**

**Common Thread: Songs Of The Eagles.** Featuring Clint Black, Vince Gill, Trisha Yearwood, etc. (Giant) **469-999**

**Tom Petty & The Heartbreakers—Grt. Hits** (MCA) **474-411**

**"Threesome"—Orig. Sndtrk.** (Epic/Soundtrax) **476-499**



**"The Crow"—Orig. Sndtrk.** Featuring Pantera, Stone Temple Pilots, etc. (Atlantic/Interscope) **478-230**

**The Black Crowes—Shake Your Money-maker** (American) **462-184**

**Alice In Chains—Dirt** (Columbia) **445-833**

**Neil Young—Unplugged** (Reprise) **460-972**

**Little Texas—Big Time** (Warner Bros.) **460-204**

**"Sleepless In Seattle"—Orig. Sndtrk.** (Epic Soundtrax) **458-430**

**ABBA—Gold—Greatest Hits** (Polydor) **458-406**

**Toby Keith—Mercury!** (Nashville) **458-315**

**4 Non Blondes—Bigger, Better, Faster, More!** (Interscope) **458-042**

**Big Head Todd And The Monsters—Sister Sweetly** (Giant/Reprise) **457-887**

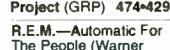
**Aaron Neville—The Grand Tour** (A&M) **457-200**

**Dwight Yoakam—This Time** (Reprise) **456-913**

**White Zombie—La Sexorcisto** (Geffen) **442-079**

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**R.E.M.—Automatic For The People** (Warner Bros.) **448-522**



**Chant—The Benedictine Monks Of Santo Domingo De Silos** (Angel) **477-067**

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**George Strait—Pure Country** (MCA) **448-753**

**Vince Gill—I Still Believe In You** (MCA) **448-571**

**"The Bodyguard"—Orig. Sndtrk.** (Arista) **448-159**

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**Blind Melon** (Capitol) **447-995**

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**Candlebox** (Maverick/Sire/Warner) **485-185**

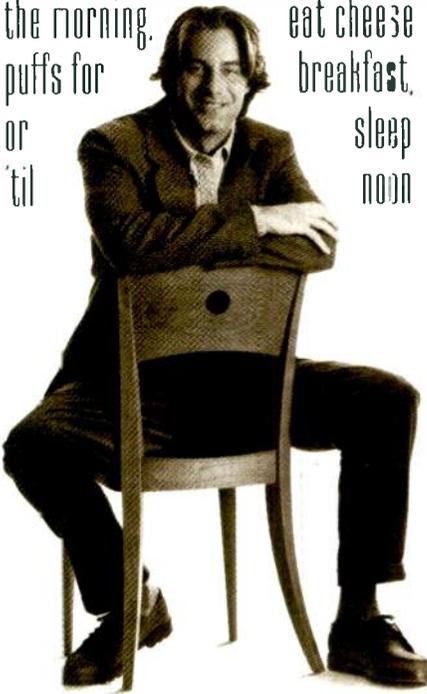
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**The Moody Blues—Grt. Hits** (Polydor) **423-756**

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**A Decade Of Steely Dan** (MCA) **341-073**

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**Bonnie Raitt—Luck Of The Draw** (Capitol) **423-186**

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- The Best Of The Village People** (Casablanca) **478-1131**
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- R. Kelly**—12-Play (Jive) **469-676**
- Freddie Jackson**—Grt. Hits (Capitol) **474-940**
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- All Men Are Brothers: A Tribute To Curtis Mayfield**—Various Artists (Warner Bros.) **474-155**
- Aretha Franklin**—Grt. Hits (Arista) **473-371**
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- Tevin Campbell**—I'm Ready (Qwest) **468-744**
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- Boyz II Men**—Cooley-highharmony (Motown) **424-754**
- Madonna**—The Immaculate Collection (Sire/Warner Bros.) **414-557**
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- "Grease"**—Orig. Sndtrk. (Polydor) **424-721**
- James Laid** (Mercury) **467-761**
- Guns N' Roses**—Use Your Illusion II (Geffen) **442-038**
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- k.d. lang**—Ingenu (Sire/Warner Bros.) **435-404**
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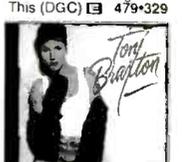


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- **10-Day Risk-Free Trial.** We'll send details of the Club's operation with your introductory package. If not satisfied, return everything within 10 days for a full refund and no further obligation.
- **Bonus Offer:** you may take one more CD now at the super-low price of \$6.95—and you are then entitled to take 2 more CDs as a bonus! To get your discounted CD and 2 bonus CDs, just enclose an additional \$6.95 (shipping and handling on all 3 will be billed)—and you'll receive them with your 9 introductory selections—that's a dozen CDs in all.
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## SKYSCRAPERS IN YOUR LIVING ROOM

Speaking of speakers—if you were around circa 1936 (most of our readers definitely were not) you could have acquired a mammoth high-end loud-speaker system already built into an impressive floor-type radio console, much as we buy “built-in” speakers today in their own enclosures. Indeed, there were numerous such models and different brands. Example: An 18-inch frame and a cone 16 inches wide, with what amounted to midrange and tweeter units built right into its center, a configuration widely known later (after World War II) as coaxial. Another system, the biggest and most expensive, featured a separate 18-inch woofer, two 12-inch midranges, and no fewer than three tweeters (as we now call them). Imagine the size of *that* radio console. It came from Crosley, and it sported 37 tubes. It would take the ever-proverbial Mack Truck to move it.

All of these big speaker systems were housed in massive radios that somehow managed to look remarkably like model skyscrapers—soaring vertical lines with a solid foundation at the bottom and an *art deco* rounded upper portion where the controls were located. (“Art deco” was not then the term for this, of course—streamlining was the appropriate word, for everything from skyscrapers to refrigerators, their surfaces curved and shaped just like high-speed streamlined trains.)

The given specs for these astonishing pre-hi-fi radios were equally impressive, and they may seem hard to believe for those who were born later. A claimed tonal range, for instance, from 20 Hz to

25 kHz? Definitely! Except that for practical broadcast reception (AM) this top was cut back to a mere 12 kHz or, in normal terminology of



that time, 20 to 12,000 cps. That model came from Crosley and had the 37 tubes. This, mind you, in a period when the newly popular radio or phonograph generally produced sound with a top no higher than 4 to 5 kHz, and often lower. High end indeed! We had it from the middle 1930s right on until the Big War.

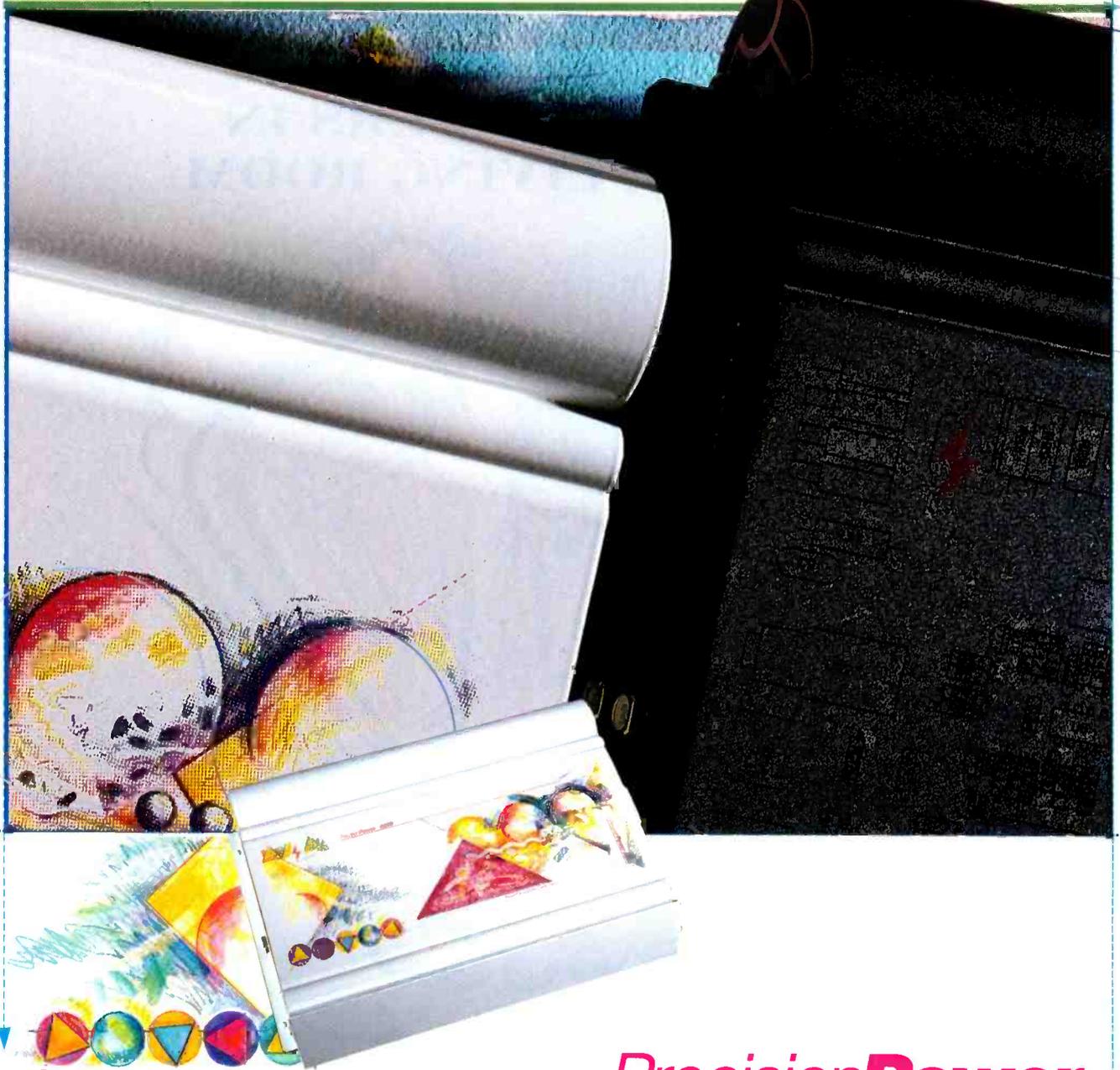
This and, as the ads say, much, much more, is not merely out of my

own ancient memory. I have confirmation, kindly sent to me by a reader, Stephen Ickes, to whom I extend profuse thanks even if I do not have his address. (On the envelope, probably, which I threw out automatically.) Mr. Ickes sent me copies of four pages from 1936 and 1937 radio magazine material, not only with pix and general specs but in one case a complete circuit diagram, guaranteed to make those who can read in vacuum tubes (rather than chips and boards and transistors) sit back and take a long, long breath. (I'm sending a copy to our Technical Editor Ivan Berger, so he too can take a breath.) Do I mean

**RADIOS OF MY YOUTH  
SOMEHOW MANAGED  
TO LOOK REMARKABLY  
LIKE SKYSCRAPERS.**

Illustration: Heidi Stevens

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*Precision***Power**

celebrating a decade of leadership in quality mobile audio electronics.

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CLARITY FOR THE  
REVOLUTION OF  
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Your *PrecisionPower* amplifiers and signal processors are created to bring you award-winning performance in real world applications. Each piece is hand-built with audiophile grade components and is 100% functionally tested to meet or surpass the toughest standards in the audio industry. Our commitment to auto sound is clearly demonstrated in every **PPI** installation on the road. Our engineering technology permits virtually flawless functioning in the challenging twelve volt environment. The sculptural form and surface-scapes of our art series amplifiers reflect the beauty and quality of the feast we have for your ears.

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If you have never explored the color filled world of *PrecisionPower*, and if you care about mobile audio, then look at our specifications. Talk with people who have invested in **PPI** equipment. Consider the quality of the select dealers and professional installers who stand behind us. Ask about service, satisfaction, performance and reliability. You don't really have to search for *PrecisionPower*, just call us at **1-800-62-POWER** and we'll tell you where to find the nearest *PrecisionPower* **Authorized Dealer**. Ask about *PrecisionPower*, **Art Series**, **ProMOS**, **Sedona**, and **PPI Signal Processors**. Then just listen. Your ears will thank you. Your eyes will enjoy the view. Your soul will savor the sensory feast.

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five or six tubes, or eight, as used in current tube-only models? Get ready: These high-end radios boasted from 18 to as many as Crosley's 37 tubes!

From Ickes' fascinating set of pages I could outline for you—given most of an *Audio* issue—no less than three competing console models from 1936. These three radio skyscrapers instantly brought back to me the feeling of awe that these beautifully designed machines—outside as well as inside—created for us in that distant time. Majesty is the word that comes to mind. To

my eyes, then as now, they were majestic examples of advanced technology, to grace, and even overwhelm, anybody's living room. (That is exactly what the ad pictures show.)

Best of all, for me, in this excursion into radio's high-end past there is a full-page ad for—you guessed it—the Midwest radio. You will recall that only a couple of years before I had fallen hard for the then-current Midwest model, sold only by mail order, and was immensely satisfied with its performance. That one had 16 tubes—the

model depicted here has 18. To my pleasure, everything else I remember is still right there. It has a "giant" speaker, no size given but obviously it was the then-standard electrodynamic with extra-large power supply and awesome volts and amps. Yes, it has the same short-wave capabilities that I described, which brought Nazi Germany and Hitler himself into my college room, night after night. Six wave bands, 4½ through 2,400 meters. "Amazingly selective, delicately sensitive, it brings in distant foreign stations with full loud speaker volume on channels adjacent to powerful locals." The advertising is not hype—it is

**T**AS IS FAMOUS for sneak previews and mini-reviews that never turn into full reviews, and I hate to break a great tradition. I do feel, however, that I should follow up on my initial comments on the Wireworld Eclipse interconnects [Issue 83/84] and speaker cables to the point of confirming my original praise.

I have now worked extensively with the Wireworld Eclipse phono interconnect, RCA interconnects, balanced interconnects, Starlight digital interconnects, and speaker cables.

The net result confirms my initial impressions. The Wireworld Eclipse cables have proved to be reference quality products that have integrated smoothly in connecting up both an entire reference system and in connecting all of the 30-odd components I have had in for review since I started using them. I have found them to be fully compatible with every component I have tried, and I have found them to be extremely revealing without exaggerating any aspect of sonic performance, or producing the kind of false insights into the music which later turn out to be coloration.

The Wireworld Eclipse interconnects and speaker cables not only reveal the music that is on the recording, they reveal the full capabilities of all types of equipment. They have proved to be of great value in making detailed equipment comparisons. They have not always been the *best* interconnects or speaker cables in connecting *specific* electronics or speakers, but they have been competitive, and they have usually been superior.

**"THE ONLY WAY I KNOW TO PASS ON INFORMATION IS PURE, UNFILTERED AND UNALTERED."**

DAVID SALZ

Anthony H. Cordesman  
For the entire review, see  
the absolute sound®  
issue 95

Reference Standard Audio • Digital Audio • Video, S-Video and RGB Video Cables  
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**I COULD OUTLINE THREE  
1936 CONSOLE MODELS  
FROM A READER'S  
RECENT DISPATCH.**

precisely what I remember in my own Midwest, as already described, even if the rest of this account waxed a bit hysterical: "You'll thrill over its marvelous super-performance . . . glorious crystal-clear 'concert realism' . . . magnificent world-wide foreign reception."

It had gadgetry, too, this later Midwest. Dial-A-Matic, 10 "perfectly tuned" stations, just like a telephone. Something called Elektrik-Saver which cuts radio wattage consumption 50%, uses no more current than a 7-tube set and—note this—"enables you to operate on as low as 80 volts." That's interesting. Twice in the last month my 1994 power has dwindled to one half the line voltage, region-wide, leaving us with faint, dim lights and heavy equipment at deadly risk, until the other half was cut out. My audio and typewriter were already pulled from the wall, but I had to rush around disconnecting the refrigerator, deep freeze, and so on before they could try to start on maybe 60 volts. How much of our a.c.-powered gear today will run safely on half voltage? Only those items with battery chargers and rechargeable batteries, I would think.

There is an amusing payoff to this Midwest story. The Midwest company, starting way back in 1920 at the dawn of radio in the home, was a pioneer mail-order outfit,

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# SONIC SUPERIORITY



Model

# 940

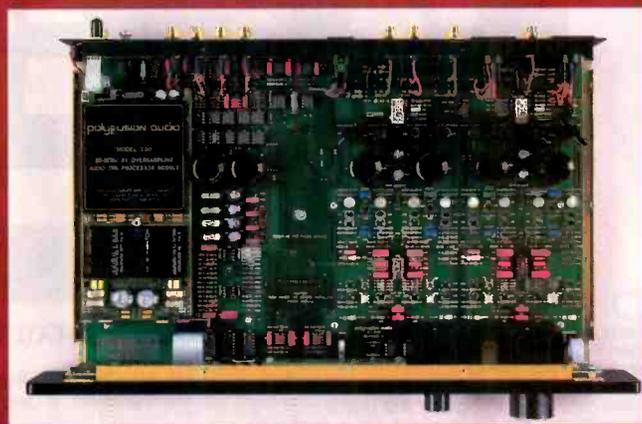
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- MOS-FET LINE DRIVERS
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By replacing the conventional Rotary Switch with Analog Transmission Gates for input selection, we have done far more than improve reliability. We have accomplished a significant sonic improvement, because Electronic Switching avoids bringing all inputs from both channels into close proximity, which reduces Crosstalk and vastly improves Channel Separation (greater than 100dB).

The result is a remarkably open and broad Soundstage with Superb Accuracy and Breathtaking Depth!



**DIGITAL INPUTS** Yes the 940 can be configured with Direct Digital inputs, with the optional 20-bit, 8 times oversampling DAC module, providing both coax and optic inputs. This is the same converter module which is the heart of our highly acclaimed models 300 and 900 off board DACs.



polyfusion audio

from factory direct to consumer. That made its products much cheaper (as present-day mail-order buying makes things more expensive!), a big factor in my own Midwest buying, back in my unopulent college years. How much, then, around 1936 or so, would you have put out to acquire the 18-tube Midwest model with the "giant" speaker? You will not believe it. The price, in large visible numbers, is \$59.50.

Some things, however, never change. Yes, you could have, and I quote, "terms as low as 10¢ a day," plus 30 days FREE trial.

And a year to pay up. Wow! We could use those terms now. But beware—there is small type, just under the price: \$59.50 (*less tubes*). As I say, some things never. . . . Now how much extra would it cost for the 18 tubes to go in all those empty sockets? You guess. Still, a bargain even with tubes added. Betcha I had to buy the 16 tubes extra for my own Midwest. Don't remember.

To be sure, these fancy machines of the 1930s were in effect custom jobs, hand-made, and unknown to the general public with its growing millions of cheapie radios

and radio phonographs. Until the Midwest came my way, it was a totally unknown area for me; my "speed" was as already described, from a dreadful a.c./d.c. portable (large and heavy) in my freshman year at college to the several RCA consoles noted a few months ago. As to prices, just multiply 10 to 15 times or more and you will understand that these 1936 high-end babies weren't so cheap in our then large-size (literally—much bigger than those today) dollar bills. The Midwest was undoubtedly the lowest in price. Others ran much higher, including Scotts, Fishers, and that Crosley, which probably took the financial cake.

To put the pre-war hi-fi into a bit of perspective, there were other developments that early which were part and parcel of state-of-the-art audio long before that name was widely used (not until after

**HIGH-END RADIOS  
OF THE MIDDLE '30s  
BOASTED FROM 18 TO  
AS MANY AS 37 TUBES!**

World War II, as in this magazine and the Audio Engineering Society). FM may seem today a fairly modern alternative to still-existing AM broadcasting, though not as static-free nor as noiseless as it might be thanks to compromises for stereo transmission. Major Armstrong launched his mono FM, uncompromised and super-fi, also during the '30s, with ultra-high broadcast power as a rival to the existing AM networks. It was radio war almost to the death and the Major lost his bid for a new national FM hi-fi network distributed via microwave, even though FM survived, barely. You may remember that when FM got started he was particularly careful to supervise, on the spot, the design and manufacture of the speakers that would go into FM sets. The quality he got from them and from uncompromised FM circuitry was astounding, easily matching our best today.

That FM sound was my own heady introduction to high-end audio, only a handful of years after those fancy radios of the middle 1930s. A time of remarkable pre-audio excellence!

## The Panamax

## Difference



**P**ace of mind can make all the difference when it comes to enjoying your home entertainment investment.

*"The main advantage of this unit is that it is very effective in filtering out noise that can get into your system from the A.C. power line."*

*The MAX@1000 will also protect your valuable audio and video components from damage that can be caused by line surges or even lightning."*

Edward E. Long, *Audio Magazine*,  
June 1993

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- 2 "Delayed Turn-On" AC outlets with 10 to 15 second delayed start-up/shut-down prevents amplifier "thump".
- AC master control power-sensing cable connects the MAX@1000 to the system.

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# "Bought expensive speakers? ...Better not listen to these."

## POLK AUDIO'S LS90 HIGH PERFORMANCE LOUDSPEAKER

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Other experts agree, like Anthony H. Cordesman, Audio Magazine's respected critic. He wrote, "... the LS90's midrange is exceptionally detailed and exceptionally smooth... has an exceptional ability to resolve complex dynamic passages and the softer passages of orchestral and choral music... precisely the kind of full-range speaker that today's buyers need. It offers the sound of high-quality at an affordable price."



*The LS90 is available in oak, black painted oak veneer and high glass rosewood laminate.*

For more information on the LS90, the LS Series and LS home theater, call 1-800-377-POLK. Or dial our toll-free dealer locator to find your nearest authorized Polk Audio dealer. Audition the LS90 loudspeakers... that is unless you just bought expensive speakers.

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*Matthew Polk*  
Co-founder, Polk Audio

# BRAZIL: 1, CES: 0

**A**rms waving to clear away the unsettled dust, I'm struck by the chaos following the Summer Consumer Electronics Show. Allegedly the last to be held in Chicago, it has inspired the usual half-full/half-empty responses, depending on the person to whom you're speaking. They'll be arguing about it until, oh, January at the soonest. That it wasn't a success is a consensus: It was a full-blown fiasco. But

rolls of film, schlepped a five-inch pile of brochures back to my hotel room, and wrote for six hours. So far, so typical.

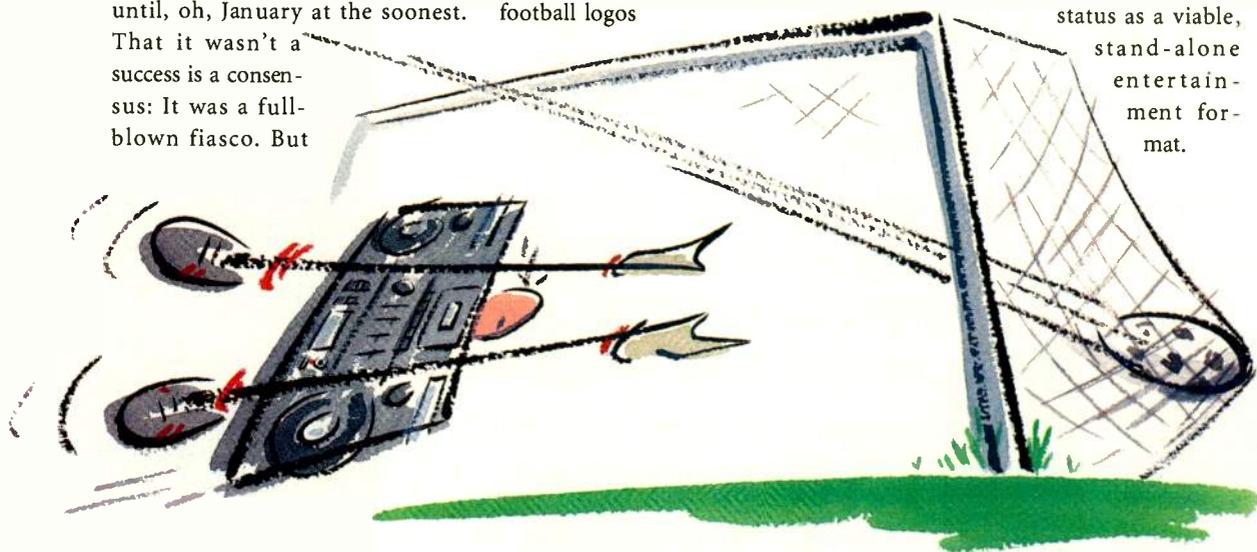
But it was such a *gloomy* show, and not just because we in the hi-fi community had to rub shoulders with that lowest of life forms, soccer fans. The World Cup took over Chicago, with those stupid little football logos

waste of time) had so little to distract them that they spent long, uninterrupted periods in every room. As a result, those vending their wares to retailers and distributors were able to make their pitches without interruption. The press, too, was handled without haste.

It was exactly what you'd expect of a "normal" CES if a normal CES lasted 10 days and everyone had the time to take more time.

But was the show reduced in size *only* because everyone knew it was the last Chicago event? Was there some industry buzz which made the regular attendees stay away, and which convinced manufacturers *not* to exhibit? Time for a little history lesson...without touching on the destruction that Nintendo and MTV

have wreaked on music's status as a viable, stand-alone entertainment format.



does it reveal any weaknesses on the part of the hi-fi community? Did the high-end disgrace itself? Is audio (small "a," please note . . .) dead?

I can't complain about the shortened-to-three days Chicago show because a CES has to meet only one criterion to justify its existence for my purposes: It has to cough up enough new material to fill a show report. Even in its truncated, 60-room form, the Hilton held enough new, pure hi-fi products to provide the requisite 5,000 words for my employer back in England, *Hi-Fi News & Record Review*. I shot my 10

everywhere you looked. CES itself was simply bleak, with whole floors in the Hilton bearing as few as two exhibitors. The hotel's bar was nearly as empty as its corridors. And yet those who did exhibit were uniformly happy because the retailers, distributors, and journalists who bothered to attend (despite pre-show cautioning that it would be a

Chicago has hosted the Consumer Electronics Show for over a quarter century. The city was/is in many

ways ideal for conventions because it is centrally located (relative to the rest of America), there are plenty of hotels of all types, some

truly great restaurants, many classy diversions and, of course, enough  
*continued on next editorial page*

**FOR A CES TO MEET MY PURPOSES, IT HAS TO COUGH UP ENOUGH NEW MATERIAL TO FILL A SHOW REPORT.**

Illustration: Nishan Akgulian



CRITICAL ACCLAIM

Paradigm®

Over the years critic's have praised the remarkable performance of Paradigm speakers and have hailed them among the very best available! Built on a strong tradition of design excellence Paradigm is now one of the most highly acclaimed speaker brands, with countless rave reviews and numerous Critic's Choice and Grand Prix Awards.



Paradigm continues to advance state-of-the-art design in an unflinching quest for ever more convincing musical and home theater performance. The results speak for themselves... just listen to what these respected reviewers have to say:

**"This is a true high end speaker at a quite astonishing price... there's literally nothing else in the market at anywhere near the price... which combine this level of sound quality, accuracy, and wide, smooth frequency response..."**

*Audio Ideas Guide on the Esprit/BP*

**"... stunning image... astounding front-to-back layering... performs as well as one would expect from speakers in twice the price range – simply marvelous ... have a listen to these gems."**

*The Inner Ear Report on the Esprit/BP*

**"... a degree of mid-to-upper midrange clarity that strips away several veils to reveal a level of inner detail that I must, again, compare to speakers costing more than ten times that of the 5seMk3."**

*The Sensible Sound on the 5seMk3*

Then there is the question of value. This is more than just subjective impression. Real value is based on sound performance and build quality, and Paradigm simply gives you the very best of both! In fact, Paradigm has once again been rated #1 for value in surveys conducted by the trade publication Inside Track\*.

So read the critical acclaim, the praise, the plaudits, and listen for yourself... then you will understand why the critic's agree!

# CRITICAL ACCLAIM



## Titan

"Calling this speaker 'Titan' is not as extravagant as one might think - it is truly a giant-sized value."

"... it does such a skillful job... that the listener does not notice that all of the music is coming from the pint-sized Titans."

*Stereo Review*

"... a match for some speakers that are twice the size (and price)... the frontrunner in this market niche."

"... the Titans... represent real value for money - an ideal first step on the hi-fi ladder."

*Australian Hi-Fi*



## Phantom

"... an amazing level of performance... effectively competes with speakers close to twice its price..."

"... any budding audiophile assembling a system with an under-\$1000 budget would be foolish not to audition the Phantom."

*Audio Ideas Guide*

"The smoothness of the Phantom's frequency response would do justice to speakers at ten times its price... unquestionably an outstanding value."

*Stereo Review*

"... this speaker is the best by far!' At this price level, that's remarkable indeed."

"... as good a value as you will find in today's market."

*Sound & Vision*



## 3seMkII

"The 3seMkII is a superbly balanced design that combines just about as much accuracy, dynamics and bass extension as you can get at this price."

"... this speaker showed very good neutrality... good depth on choral music, and a quite open sound."

"Percussion and rock music were very dynamic, and the 3seMkII will play quite loud without stress."

*Audio Ideas Guide*



## 7seMk3

"The 7seMk3 is obviously an excellent choice... offering performance comparable to many in the \$1000 range."

"... nicely quick and silky character from the tweeter... good clarity... excellent soundstaging and depth... natural tone..."

"I also liked what other writers have called 'the ability to boogie', a lively rhythmic presentation that gives rock and jazz music a real impetus."

*Audio Ideas Guide*



## Studio Monitor

"This is a true monitor loudspeaker."

"... a quite notable value among higher priced speakers."

*Audio Ideas Guide*

"The [Studios] exhibited an open, spacious, clean sound, with excellent soundstaging and powerful bass capacity."

"Does the Studio Monitor meet its goal of keeping up with the big-guy, high-end systems at only half the price? You bet! Check them out for yourself!"

*Audio Magazine*



## Home Theater

"I found the sound of both Titan and Atom based systems very clean and dynamic..."

"The excellent dispersion of all models makes listening well off axis, especially with a centre channel, little problem, with good stereo and surround imaging always apparent."

*Audio Ideas Guide*

"For the price - or even double - it's hard to beat..."

"... the various combinations of Paradigms sounded very good whichever way we set them up."

*Sound & Vision*



## Sound & Image

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**T**echnology can be a wonderful thing. I'm not talking about the down-and-dirty technodes, like injection-molding techniques and the glories of military-spec capacitors. I'm talking about how technology can make our lives better. Consider that only 5 or 10 years ago, you were in serious trouble if you had to buy a small pair of speakers. Only a few of the hundreds available delivered sound that could be honestly characterized as hi-fi, and they were often exorbitantly expensive. We suspected that that just wasn't the case today. So we designed a full-bore comparison, assembling a cast of 20 name-brand speakers with suggested retail prices of \$250 or less and pitting them against one another, *mano a mano*, in a fight to the finish. While we noted special applications along the way, our goal was likely your goal: to find which ones sounded the best. Our findings for each speaker follow: procedures, comments (including definitions for terms used in the reviews), and our bottom-line conclusions.

### The Paradigm Titan

The Titan, a Canadian entry, looks like your average mini bookshelf speaker. "Average" doesn't belong in any sentence describing its sound, though. Sonically, the Titans' balance was nearly perfect, and detail was excellent. Their bass was great, too, though they did get a little boomy and boxy at very loud listening levels and in some placement configurations. Power handling in the face of overload was superlative. Measurements revealed that the Titan's frequency response dropped down to the benchmark for this group (60 Hz), and its output at 100 Hz was on a par with the higher frequencies – unlike most of its competition, whose overall bass output was usually several decibels below the rest of the spectrum. On-axis, this flatness extended out to 10,000 Hz, after which response increased considerably. Off-axis response was outrageously flat – within  $\pm 2.5$  dB between 200 and 16,000 Hz! The Titan would be absolutely fantastic in any role: main, surround, and/or dual-channel center. Bravo.

### The Bottom Line

Speaker technology has advanced to the point where small, affordable models *should* deliver truly excellent sound. Getting big sound out of small speaker boxes is especially important during the home-theater boom. A home theater asks us to lodge at least four, and preferably six, speakers under our roofs. The standard lineup includes two "main" speakers (the left/right pair that plays music in a basic stereo setup), a center-channel speaker, and two rear "surround" speakers. Some high-end home theaters, particularly those built around a projection TV, employ two center speakers – an issue here since the vast majority of inexpensive speakers (excepting most dedicated center-channel speakers) are sold only in pairs. And most bona-fide home theaters also have one or two subwoofers, which produce low bass that's beyond the capabilities of the mains. In any case, if most of those speakers can be small, so much the better. And if they're inexpensive, the entire prospect of building a home theater is that much easier.

Note that a center speaker, which is generally placed on top of a TV set, should be "shielded" or it will interfere with the TV's electronics and distort its picture. This isn't a requirement with front-projection TVs, since their electronics aren't anywhere near the screen, and it might not matter with a rear-projection set either. When in doubt, simply rest an unshielded speaker on top of the set and see what happens. The main speakers need to be shielded only if you plan to place them right next to the set.

Whether you're looking for speakers to serve in a home theater or simply need a pair for listening to music, the requirements really are the same: The speakers must sound accurate and natural. A voice should sound like a voice, whether you're enjoying David Letterman's "new" show, a CD of Eric Clapton's *Unplugged*, or Michelle Pfeiffer in *Batman Returns*; a cannon should sound like a cannon, whether it's punctuating Tchaikovsky's "1812 Overture," John Wayne's *The Alamo*, or an episode of *F. Troop*.

To find out whether these speakers truly were capable of serving our home-entertainment needs, I spent many hours listening to each pair individually and conducted head-to-head comparisons. Finally, I selected six finalists that stood at least a

# TITAN



full head – if not head and shoulders – above the rest. Arranged alphabetically, the finalists were the B&W Model 2001, Celestion's Model 1, the KEF K-120, Paradigm's Titan, the Phase Technology Model 335ES, and PSB's Alpha. Then I asked two audiophile friends, whom I'll call Siskel and Ebert, to participate in a top-level shootout. The finalists were arranged in symmetrical pairs on two small tables, wired to a rotary selector, and concealed by a piece of acoustically transparent cloth. Siskel and Ebert listened at leisure, making notes regarding performance in the four subjective categories on independent scorecards, as I followed their commands to switch from one pair to the other.

When they were done, I unveiled the speakers ... and watched their jaws *drop*. Both were flabbergasted to learn that the priciest speaker in the group cost \$249 a pair. Siskel thought he'd been comparing models costing \$1,000 a pair; Ebert said he'd had no idea that so little cash could buy such terrific sound.

I couldn't agree more. Virtually all of these speakers offer so much value, it's *scary*. From now on, you shouldn't be surprised when a company comes up with a great-sounding speaker at a reasonable price – and there is no good reason to buy a bad-sounding speaker at *any* price.

For the record, Siskel ranked my six finalists in this order (from most favorite to least favorite): Paradigm, PSB, B&W, Celestion, KEF, and Phase Technology. Ebert saw it this way (ditto): Paradigm, PSB, KEF, B&W, Phase Technology, and Celestion.

While many of these speakers would make terrific mains in a home theater, you should definitely pair the set of your choice with a subwoofer if you want to take your system to the next level. While the best of this group had response reaching down to 60 Hz, they all really need help below about 100 Hz if you want to get all of the impact you'd expect out of a topnotch home theater. If your budget prevents you from getting a subwoofer right away, you can always rely on the mains for now and add the sub later. The best speakers in this group are so good, you won't mind the wait.

Tom Nouisane

## "BRAVO"

"The Titan would be absolutely fantastic in any role: main, surround, and/or dual-channel center."

"...these speakers offer so much value, it's scary."

"Sonically, the Titans' balance was nearly perfect, and detail was excellent."

"Their bass was great, too... Power handling in the face of overload was superlative."

"...two audiophile friends... ranked my six finalists in this order (from most favorite to least favorite): Paradigm..."

Paradigm



While these six parameters reveal a great deal, they don't allow for subjective assessments. Audio engineers commonly use adjectives like "bright," "thin," or "clear" to describe a speaker. For this reason, our test also included a 2-pole subjective scale based on the findings of acousticians Gabrielsson and Sjogren. Participants circled the number closest to their "feel" of each speaker:

|                       |             |
|-----------------------|-------------|
| ←-----→               |             |
| 5-4-3-2-1-0-1-2-3-4-5 |             |
| Soft                  | Hard        |
| Bright                | Dark        |
| Full                  | Thin        |
| Spacious              | Constricted |
| Clear                 | Veiled      |

Acousticians have found that loudspeakers appearing most true to nature are commonly described as "clear, soft (at least not too hard), full, and offering a feeling of space."

#### Paradigm Mini MkII

The Canadian government has funded a large ongoing research project to learn more about high performance loudspeakers. Paradigm is one beneficiary of this research. And judging from our test results, they have done their homework. Though placing just average in on-axis imaging, four of five panelists scored the Mini MkII as one of the two most overall accurate speakers tested. In HF quality, the Paradigm shared top honors with Audix [\$599] and Icon [\$995]. And in the rankings of personal preference, Paradigm placed second.

Comments included "Good balance, nice ambiance, needs deeper LF." Subjective ratings placed Paradigm solidly into categories of fullness, clearness, and spaciousness, with moderate softness. Paradigm and KRK [\$1095] were the only two speakers tested that received at least three excellent ratings in all six categories. After noting the price, participants agreed that the Paradigm is an outstanding value in a near-field production speaker.

*John La Grou*

### Home & Studio Recording

*Reprinted with permission*

**S**mall near-field loudspeakers often play a crucial role in the making of hit records. What makes a desirable "near-field" monitor? Is one monitor better than another for all applications? Do all recording engineers need starkly accurate monitors or do some prefer artistic coloration? Our extravaganza takes a close look at 14 modern near-field designs and evaluates them blindly, objectively, subjectively, and in comparisons.

Our aim in this ambitious endeavor was to make a real-world working assessment of typical meter bridge mounted speakers using commonly encountered program material. Save for an SPL meter, we will use no test equipment. Domain analysis and impulse graphs cannot substitute for a collection of experienced ears. And, yes, we are quite aware of the non-scientific nature of our test.

#### The Test

Again, we limited our test to passive two-way designs with 7" or smaller woofers retailing for under \$1000. Speakers were positioned behind a 15' wrap-around veil of black grille cloth. Unless otherwise directed by manufacturer's instructions, offset tweeters were placed "in" towards center, grille screens were removed, and cabinets were positioned vertically, on-axis to listener in a 4' equilateral triangle over a Trident 80B console surface.

Test audio was played to assure correct L-R and phase. Pink noise was then generated at -12dB (VU) and the Parasound amplifier adjusted for nominal 88dB SPL ('A' weighted at listening position) with precise image centering. Participants were shown the sweet spot via strips of white tape; each was allowed five minutes per speaker, listening to all musical samples at least once. Average musical levels were measured between 70 and 95dB, with a maximum peak at 102dB (typical near-field studio listening levels).

Our test panel consisted of five audio engineers, four of whom judged blindly. I was the fifth participant, facilitating the set-up of each speaker in a random order. While the majority of my work is divided between classical music production and pro-audio product design, the other participants are involved full-time in the production of mostly contemporary music (pop, urban, etc.). Hence, all conclusions in this roundup are based on our unique experiences, expectations, and sonic requirements. If the participants were, say, all classical music engineers, scoring would certainly have developed somewhat differently.

Panelists were asked to evaluate each speaker using two methods. The first looked at six sonic parameters, scoring between 1 and 10 for each parameter. Half scores were acceptable (e.g., 7 1/2).

- 1- Low frequency quality
- 2- High frequency quality
- 3- Overall accuracy and timbre balance
- 4- On-axis imaging
- 5- Off-axis imaging
- 6- Personal preference, irrespective of other tests

# Mini-MkII



## "OUTSTANDING"

"... participants agreed that the Paradigm is an outstanding value in a near-field production speaker."

"...four of five panelists scored the Mini MkII as one of the two most overall accurate speakers tested."

"In HF quality, the Paradigm shared top honors..."

"Comments included 'Good balance, nice ambiance...'"

"Subjective ratings placed Paradigm solidly into categories of fullness, clearness, and spaciousness..."

**Paradigm**

# 5seMk3



## "SPECTACULAR"

"...this is no ordinary loudspeaker."

"No other speaker I have heard, at or near the price, renders so much authenticity to the music."

I am hard-pressed in recent memory to think of another dynamic loudspeaker which is as convincing as this one."

"At times the music seems to glisten, as if more improvements were made to my audio system than just the speakers."

"Bass performance from the 5seMk3 is nothing short of spectacular."

**Paradigm**

### The Sensible Sound

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In the summer of 1993, a friend whose ears I find to be most trustworthy mentioned to me that the Paradigm 5se was the most transparent and natural dynamic speaker he had ever heard. Hearing this from one who, like me, usually doesn't get aroused by a speaker in a box, I listened to his comments about having experienced sound from an audio system approaching that of life itself, and at concert volume levels from merely ordinary amplifiers when two pairs were used in a stacked configuration. His recounting of this experience had that religious zeal of Coleridge's Ancient Mariner, whose task in life was to tell his tale to anyone who would hear him.

Five months later, AudioStream delivered a pair of the newly released Paradigm Model 5seMk3 speakers to me. The folks at Paradigm had produced an update to the original. Unlike its predecessor, the 5seMk3 is not a small bookshelf speaker, but is instead intended to be floor standing. Like many of the better-quality speakers available today, its construction is both visually and physically superb. The 5seMk3 stands just under 3' tall, and is somewhat slender relative to many of its competitors. It is a two-way design that uses an 8" woofer and a 1" tweeter.

From this modest description, most readers would not be prone to read on, but let me say from the outset, that this is no ordinary loudspeaker. Paradigm's efforts to create a loudspeaker that can be nearly all things to all listeners are largely successful in the Model 5seMk3. I find myself a bit lacking in the ability to bestow the sort of praise this speaker deserves. Those readers who have heard the special qualities of the original 5se will, no doubt, have much to rejoice over in this recent upgrade. Those who have not had that pleasure, or who have become jaded by years of listening to lesser boxes at greater prices, have something of a revelation in store for them. The 5seMk3 is something very special, and it performs its magic in a number of ways.

Perhaps the 5seMk3's most obvious asset is its ability to handle what seems like an infinite amount of power. The manufacturer's specification of 100 watts belies its ability to reproduce rock music well in excess of 105dB effortlessly. A small listening panel bore witness to this, noting that Stevie Ray Vaughn's "Little Wing" sounded as if we were hearing it live at the annual New Orleans Jazz Festival—an outdoor affair held every Spring that brings in hundreds of thousands of visitors, and a host of jazz, rock, and gospel musicians to the Crescent City. This loudspeaker has authority out the wazoo! As volume levels increase the speaker does not change its character: testimony, indeed, to the engineering thought that went into its design. This speaker almost yearns to be played loudly, cogently mesmerizing the listener into turning up that volume dial to the outer limits. One listener remarked that he had never heard another speaker at any reasonable price that was quite as dynamic as the 5seMk3, and I second that. Even at modest listening levels, this Paradigm conveys a musical authority uncommon in all but the most expensive speakers.

But let's get into specifics. Bass performance from the

5seMk3 is nothing short of spectacular. This is not the kind of low-frequency output that one would expect from an enclosure of such meager size. Compared to its predecessor, the Mk3 appears to reach down almost another octave. As a full-range transducer, then, the Mk3 is far more convincing than its predecessor. I should point out here that the Mk3's initial auditioning took place in my larger-than-average living room which can swallow whole and render impotent many a speaker thought to possess much testicular fortitude.

My first thoughts on this—that the speakers may be a bit bottom-heavy in average rooms—were dispelled when the Mk3s were set up in the home where the stacked original 5ses reside. In this more normal listening environment the speaker was no more or less well-composed. It retained its neutral character throughout most of the audio spectrum, further affirming for this reviewer the level of acumen and expertise dedicated to the 5seMk3's design.

Its bass performance points to an attribute that makes this speaker unique. The 5seMk3 absolutely attaches significant new meaning to the use of the word "accurate" in describing any piece of audio gear. So accurate is this speaker that differences between two preamplifiers, for example, that may seem subtle on many other speaker systems are blatant on the 5seMk3. This, for most Musicophiles, is truly a blessing, as it enables the listener to identify sound-quality differences between components readily, and tailor exactly the kind of sound he/she prefers. In my 24 years as an audiophile, there has never been another speaker in my experience that can show these kinds of differences quite so acutely. The quality of bass response down to the speaker's limits are, thus, dependent on associated components' capabilities as they should be, and not a reflection of the speaker's character at all.

I used three different amplifiers with the Paradigms: two Quicksilver MS-190 tube amplifiers (one operating triode, the other pentode), and an Eagle transistor amp in its last edition. I also tried a variety of preamps, CD players, and a turntable that helped me to come to my ultimate conclusions about the 5seMk3's accuracy. Make no mistake about what I am saying here. Down to its bottom limit, this Paradigm speaker offers performance few others can match at its price, while imposing less of its own character on the sound quality one ultimately hears. Those who are familiar with "Follow Me Home" from Dire Straits' *Communiqué*, or the synthesizer that opens "Telegraph Road" from their *Love Over Gold*, will be bowled over by the 5seMk3's ability to articulate so resolutely the delicate changes in both tone and dimension found here. When associated components are capable of producing the extremely transient bass of some recordings, as in many parts of Reference Recording's *Difos*, the 5seMk3 provides an accurate portrayal of the ambience surrounding the bass, as well as a lucid representation of the original sound. There is no detectable bloating or overshoot here, only a vividly produced replica of the original "thwack." In this regard, I consider Paradigm's efforts to be most commendable. In a perfect world, this speaker's bass would reach down to 10Hz with no change at all to the way it sounds overall; in the real world Paradigm is offering bass quality that this reviewer has heard heretofore only rarely.

The Mk3's departure from the original 5se is not quite as startling in the midrange, where the original's character was quite good. Although both retain much of the same sweet sonic nature, the Mk3 again shows its ability to impose less of itself on the overall sound than most other speakers I have heard, including the original 5se. I found the original 5se to have a bit more warmth than I like in the upper midrange compared to the Mk3. The Mk3 is electrostatic-like in the ways that I consider the finest electrostatics to set the standards for music reproduction. Here, transients sound especially lifelike, and although some very minor coloration

ear, appreciably raising the image height the speakers can produce. Another benefit of raising the speakers is that it decouples the speaker from the floor, and adds another level of clarity to the speakers' bass output. I built stands from materials I bought at my local Home Depot for less than \$30.00, which included two pieces of 12 x 9.5 inch particle board, eight 6-inch parsons table legs that were screwed into the bottom of the particle board, and some weather stripping that isolated the speaker from the stand. Adding a little black paint and some sandpaper would make these stands appear as if they came with the speakers. Whether or not the speaker will need these stands depends on individual preferences, of course. Paradigm has provided screw-in receptacles for those who wish to add tiptoes to the speakers.

On their own, a single pair of 5seMk3s can afford the kind of music reproduction that previously has been possible only from speaker systems costing many times their price, but there's more. Earlier in this review, I likened stacked pairs of 5seMk3s to the big Infinities, but this is not altogether true. As impressive as the Infinity IRS Betas can sound in a friend's listening room, I have never heard them provide the level of coherence that flows from the Paradigms with ease. Because stacked Paradigms don't demand the exacting spatial relationship between the woofer tower, and the midrange/tweeter panels to minimize sonic anomalies that often come from the far more expensive Infinities, the Paradigms seem more natural; and because the stacked 5seMk3s actually provide more of a point source their image is never bloated or staggered as I have often heard it sound from the Betas. True, the Betas' bandwidth is somewhat broader, but at a considerable cost. I like to think of stacked Paradigm 5seMk3s as a poor man's IRS Beta. Before the reader writes this off as folly, I invite him to try this exercise himself.

Readers whose audio interests span the last 20 years or more may recall the fad of stacking Advents that raged in the early 70's. I remember visiting a dealer in Florida who had furthered the stacking idea when he introduced a multi-speaker system called the HQD that used a pair of Hartley sub-woofers, two pairs of stacked Quad electrostatics, and a pair of Decca ribbon tweeters. While these attempts at producing better sound by doubling up on speakers have their place in the annals of audio oddities, they don't begin to match what one can hear with stacked Paradigms. If your tastes run toward music at live levels, then be prepared for a real treat when you hear the 5seMk3s in a stacked configuration. Stacking these speakers produces a tall slender column just over 6' high (including the stands), which just isn't very appealing to the eye, and on thick carpeting could cause a bit of a swaying problem. Overcoming these obstacles, though, is well worth it. The net effect of stacking two pairs of the 5seMk3 is an overall enhancement to all of the speaker's greatest strengths. There is one other benefit from stacking this Paradigm that is worth noting, and that is that tweeter performance seems to improve remarkably. While I would like to spend more time on this subject, I realize that few readers would be disposed toward stacking any speakers.

I'll conclude this rather lengthy review with a recommendation to consider strongly the Paradigm 5seMk3. No other speaker I have heard at or near its price renders so much authenticity to the music. Two stacked pairs sound even better. The speakers appear to work well with both tube and transistor amps, although the panel suggests the 5seMk3 is one of the few dynamic speakers that sounds better with tubes. This is an excellent loudspeaker that will provide much improvement to, most listeners' audio systems. At its price the 5seMk3 is a bargain.

SGB

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is apparent in the lower midrange, it is neither distracting nor quite as obvious as one might surmise from this report. This coloration masks rather than exaggerates the lower regions of the human voice, which would be a positive property on many recordings.

I am hard-pressed in recent memory to think of another dynamic loudspeaker which is as convincing as this one. The NEAR 10M I reviewed some months ago, as good as it is, does not approximate the neutrality the 5seMk3 can convey. There is a level of clarity in this speaker that I seldom hear. There is a crispness and a freshness here that adds to its ability to sound totally natural. At times the music seems to glisten, as if more improvements were made to my audio system than just the speakers.

Much like the tonal character that emanates from my Martin Logan CLSs, the Mk3 is smooth and neutral throughout most of the midrange. The Mk3 has a degree of mid-to-upper midrange clarity that strips away several veils to reveal a level of inner detail that I must, again, compare to speakers costing more than ten times that of the 5seMk3. If I can draw an analogy in the computer world, the experience I am trying to convey here would be similar to viewing an extremely complex illustration on a high resolution monitor that graphic artists often use, compared to the same work on a conventional .28 dot pitch monitor administrative types use for word processing. While most of the image one sees on the lesser monitor is quite acceptable, the higher resolution monitor reveals subtle shadings and detail that the lesser monitor cannot reproduce. Much in the same way that better computer monitors can, furthermore, produce a greater degree of focus as the image nears the edges of the screen, the 5seMk3 renders a near-perfect sound stage from left to right, top to bottom, and front to back, if the associated equipment has this capability. One Supertramp recording comes to mind that demonstrates well this unusual ability. At the beginning of the title track of their album, *Even In The Quietest Moments*, the listener hears a bird chirping first to the extreme upper left of the sound stage. The Paradigms offer a very convincing image as the bird appears to move from branch to branch from left to right before it disappears into the far right foreground of the stage. So convincing is the spatial presentation, that our cat, Bucky, follows the sound across the living room looking upwards for the physical evidence of what he hopes is his next meal.

As the midrange makes its transition into the treble region, the speaker starts to falter. While our small listening panel thought the 5seMk3's treble was very good, several had misgivings about its continuity and extension. By comparison to my Martin Logan CLSs, the 5seMk3 is a little unrefined. It lacks the air and spontaneity of the electrostatics, although it provides some improvement in image localization.

What ultimately piques my disappointment in the 5seMk3's highest frequencies, though, is its lack of high-frequency extension, and its modicum of irritating distortion as the tweeter approaches its upper frequency limits. I experimented with a myriad of speaker placements in the large listening room to find the point at which I could maximize treble performance yet maintain its bass and midrange fluency. I have determined that this minor problem, which shows itself as a papery dryness at frequencies above 14 kHz, is the one area Paradigm needs to work on in its subsequent editions of the Model 5. As it exists, the 5seMk3 will need to be mated with amplifiers that lean toward the liquid side in order to minimize this dryness for the reader to hear the kind of stunning performance this review describes.

A single pair of 5seMk3s performs optimally on the long wall of a decidedly rectangular room. The speakers need to be as far away from side and rear walls as the spouse will permit to negate speaker/room interaction. In my 23' by 19' living room, I found the 5seMk3 sounded best when it sat about 6' away from both the side and rear walls, allowing a distance of 12' between the speakers. The optimum listening position is just short of the imaginary third point of an equilateral triangle. I suggest that using a similar ratio in smaller rooms will afford the listener excellent results.

I also found that by elevating the speaker approximately 7" off the floor, the tweeter is closer to the same plane as the

## "CONVINCING"

"... this Paradigm conveys a musical authority uncommon in all but the most expensive speakers."

"... a degree of mid-to-upper midrange clarity that strips away several veils to reveal a level of inner detail that I must, again, compare to speakers costing more than ten times that of the 5seMk3."

"I find myself a bit lacking in the ability to bestow the sort of praise this speaker deserves."

"The 5seMk3 is something very special and it performs its magic in a number of ways."

**Paradigm**

## "EXCELLENT"

"... among the top few models that must be auditioned by anyone shopping in the under-\$1000 price range."

"... our listening panel liked the 7seMk3 quite a lot, repeatedly praising its mostly balanced nature: 'pretty well-balanced voices,' 'very clear Ladysmith [Black Mambazo],' and 'nice clarity on male chorus [Turtle Creek Chorale].'"

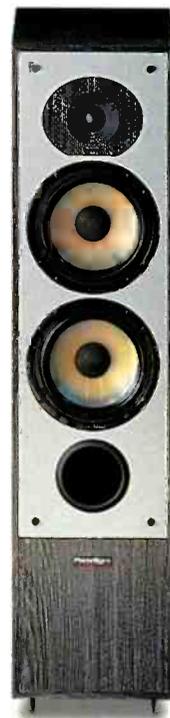
"... bass extension was surprising: using the Sound & Vision Audio Test CD, there was lots of bass at 32 Hz, with still audible output at 25 Hz!"

"The 7seMk3 is an excellent example of what [Paradigm] can do."

"Overall, the 7seMk3 is a handsome speaker, small enough to fit in fairly tight quarters, and inexpensive enough to fit tight budgets."

**Paradigm**

7seMk3



### Sound & Vision

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Over the years we've had many opportunities to evaluate speakers from Paradigm, and have always been impressed by the level of performance they achieve at low cost. The 7seMk3 is an excellent example of what the company can do. It falls near the middle of the line, at least in terms of price.

The speaker is a relatively modest floor-standing unit, about hip height, and quite narrow. It's finished in black wood-grain vinyl except for its front panel which, as usual with Paradigms, is silver. The Mk3 is a two-way system with a 1-inch fabric dome tweeter and two 6.5-inch clear polypropylene woofers beneath it. Below that is a large port. The rear panel sports dual heavy-duty gold binding posts for bi-wiring.

Overall, the 7seMk3 is a handsome speaker, small enough to fit in fairly tight quarters, and inexpensive enough to fit tight budgets.

### Measurements

Figure 1 is made up of a large number of frequency response measurements taken at various angles in an anechoic chamber and combined to create the three average curves shown. The top curve represents the sound going directly from the speaker to someone sitting in the stereo seat, as it's made up of measurements taken on axis and up to 15 degrees off-axis—the "listening window". Reflections from surfaces near the speaker often combine with this direct sound and affect the overall tonal balance; these are shown in the bottom curve, measured 60-75 degrees off axis. The middle curve—30-45 degrees off-axis—indicates the sound radiated into a listening room's reverberant field. In this case, the curves are very well-behaved, showing only a certain roughness in the midrange and a small sag from 1 kHz to 5 kHz. This was noted by our listening panel in several selections—"not entirely smooth," "some mid suck-out on Harry [Connick Jr.] and Patti [Austin]"—but was not deemed very serious. The somewhat elevated low end was also apparent with some music, eliciting the occasional comment on the speaker's fullness or fatness.

The total radiated power in Figure 2, which indicates how the speaker will sound in a real acoustic environment, confirms the earlier curves. The lower curve is the directivity index, and it shows the 7se to be fairly typical of today's point-source speakers, with few problems.

Total harmonic distortion across the spectrum for signals that produce outputs of 90 and 95dB SPL is shown in Figure 3. The solid, 90-dB curve indicates very low distortion; the 95dB measurement shows only a slight increase, which means this speaker should reproduce pop or classical dynamics convincingly. In fact, this is the one major improvement between this version of the speaker and its predecessor, which we reviewed in 1987. On the other hand, the Mk3 is relatively insensitive, measuring 87dB SPL in the anechoic chamber.

Impedance (Figure 4) drops to about 3 ohms in the upper bass, suggesting that these speakers should not be connected in parallel.

### Listening Tests

During blind listening tests, using a wide variety of music, our listening panel liked the 7seMk3 quite a lot, repeatedly praising its mostly balanced nature: "pretty well-balanced voices," "very clear Ladysmith [Black Mambazo]," and "nice clarity on male chorus [Turtle Creek Chorale]." The midrange irregularities were noted, as was the slightly prominent bass, but compliments outnumbered criticisms by a considerable margin. And bass extension was surprising: using the Sound & Vision Audio Test CD, there was lots of bass at 32 Hz, with still audible output at 25 Hz!

The Mk3's fidelity rating was 7.7, an excellent result that places the 7seMk3 among the top few models that must be auditioned by anyone shopping in the under-\$1000 price range.

It's always interesting to observe the evolution of a speaker, particularly one that we have been impressed with in the past. It was just over four years ago that we tested an earlier version of the Paradigm 11se, then in its Mark 2 version. At the time, we noted small problems in the upper bass and some midrange irregularities, but overall we judged it to be a well-balanced speaker with excellent bass.

The current version is obviously kin of that older model, both in physical appearance and in the measurements. The main difference is a much greater smoothness in the curves, notably through the bass and midrange, and a corresponding increase in favourable comments from our listening panel.

The 11seMk3 is a three-way system in a floor-standing ported enclosure. The box is black woodgrain vinyl, except behind the snap-off grille, where the front panel is Paradigm's trademark silver finish. The speaker is unusually heavy for its size, and rapping the sides produced a thud representative of damping. The rear panel sports dual gold-plated heavy-duty binding posts for biwiring or bi-amping.

Like its predecessor, the 11seMk3 uses a pair of 8-inch woofers with transparent polypropylene cones and rubber surrounds. Beneath them is a large, 4.5-inch port. Where the new model differs is in being a three-way, with a largish (6½ inch) cone midrange and a 1-inch fabric dome tweeter. The addition of the extra driver appears to have paid dividends in the smoothing out of the midrange.

#### Measurements

Figure 1 shows the frequency response measured in an anechoic chamber. The three curves are each an average of many measurements taken at different positions in the chamber. The top curve is made up of measurements made on axis and within a "listening window" of up to 15 degrees off axis. This generally represents the sound that a listener will hear directly in front of the speaker. The bottom curve consists of measurements made 60 to 75 degrees off axis, representing the sound reflected off room surfaces near the speaker; these often combine with the direct sound to create an overall balance. The middle curve was measured 30 to 45 degrees off axis, and indicates the sound sent into the re-verberant field of the listening room. All three measurements can contribute to the overall balance of sound a listener hears, and so should be as similar as possible.

The total radiated power (Figure 2) combines the measurements, at all angles, representing what will be heard in an average room. The bottom curve is the directivity index, indicating the 11seMk3's dispersion.

A very high level of performance is in all these curves—they're particularly smooth and free of sharp irregularities. The slightly elevated part of the curve at the low end might indicate some heaviness in the bass, but it also contributes to the excellent bass extension: in our listening tests we were able to hear substantial output at 25Hz, and even some at 20Hz. At the other end of the scale, the high-frequency rolloff is a bit steeper than we have sometimes seen (and a bit more than the Mark 2), but that didn't appear to be a problem for our listeners. The very slight sag in the midrange was noted occasionally, but it is within the limits of some of the best speakers we have tested.

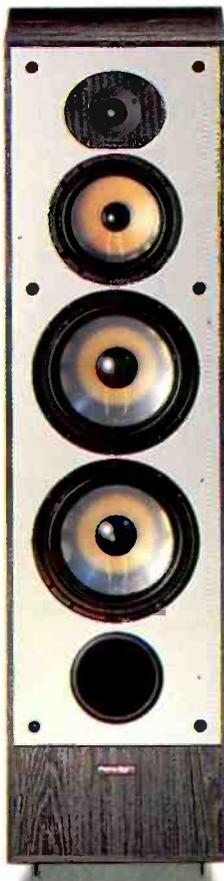
In other tests, the sensitivity was measured at a fairly low 85.4dB SPL, which suggests this speaker could do with a hefty amplifier. Nevertheless, the distortion figures when the output is increased from 90 to 95dB SPL hardly change (Figure 3), which indicates the Paradigm can handle lots of power and will be comfortable with wide dynamic peaks. Impedance (Figure 4) drops to 3 ohms at one point in the spectrum, so connecting an extra set in parallel would be inadvisable.

#### Listening Tests

Using a variety of jazz, rock, and classical recordings, the 11seMk3 was compared in scientifically controlled blind listening tests with other brands of speakers of differing size and price, in which the identity of the speakers being auditioned was concealed. Predictably, our listening panel liked this speaker a lot. What minor problems there were did receive comment—"boomy piano, but pleasant," "piano clear, good; perhaps a bit of coloration"—but overall, favourable comments dominated, "Lovely clarity and openness," "excellent cymbals and bass," "very real," and "fine detail on Ladysmith [Black Mambazo]" were typical reactions. The Paradigm's imaging was also excellent.

With the new 11seMk3, Paradigm has taken an already good speaker and made it better, even "great" wouldn't be out of place in describing the 11seMk3's performance. That's admirable in itself, but that the price in four years has only gone from \$1,000 to a very reasonable \$1,050 a pair will make this fine product available to a wide audience.

# 11seMk3



## "GREAT"

"A very high level of performance..."

"... excellent bass extension..."

"With the new 11seMk3, Paradigm has taken an already good speaker and made it better; even 'great' wouldn't be out of place in describing the 11seMk3's performance."

"... overall, favourable comments dominated, 'Lovely clarity and openness,' 'excellent cymbals and bass,' 'very real,' and 'fine detail ...' The Paradigm's imaging was also excellent."

"... the Paradigm can handle lots of power..."

"... our listening panel liked this speaker a lot."

**Paradigm**

## "ASTONISHING"

"These are true bipolar radiators."

"... the dynamic capabilities of this speaker are considerable, with powerful bass right down to the lowest pedal notes, and a clean, focused midrange that makes all voices and instruments sound very natural..."

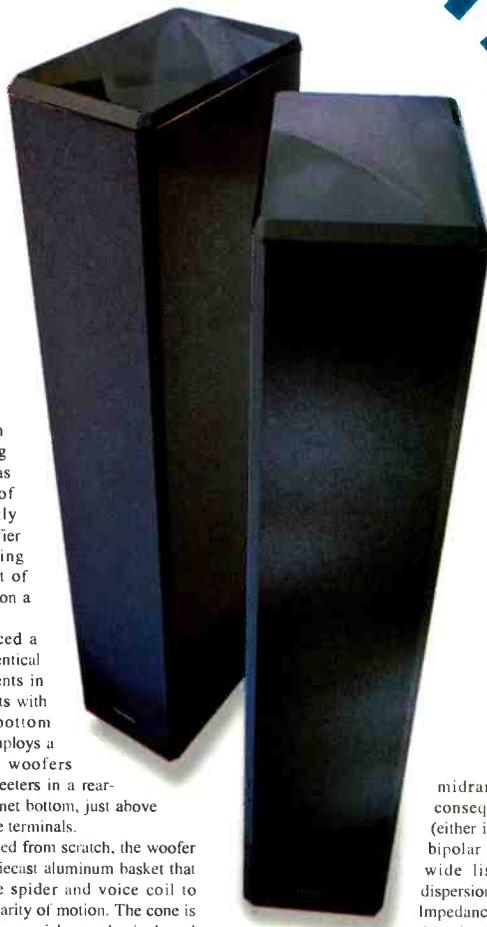
"The tweeter is fast and detailed..."

"... remarkably good... retaining all the virtues of a direct radiating type, while adding extra spaciousness and a very realistic sense of depth without compromising detail or lateral imaging."

"This is a true high end speaker at a quite astonishing price... there's literally nothing else in the market at anywhere near the price... which combine this level of sound quality, accuracy, and wide, smooth frequency response..."

**Paradigm**

# ESPRIT/BP



### Audio Ideas Guide

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This Canadian company has been pushing ahead with new technologies in speakers, and is now designing and making all drivers, as well as amplifiers for a new line of powered subwoofers. I recently visited the new automated amplifier assembly line, and saw stuffing equipment that is reminiscent of what I've seen in Japan, though on a much more modest scale.

Now Paradigm has introduced a line of bipolar speakers, with identical front and rear driver complements in tall narrow cloth covered cabinets with shiny piano-black top and bottom plates. The Esprit/BP Bipolar employs a pair of 6 $\frac{1}{2}$ " polypropylene woofers coupled with 1" metal dome tweeters in a rear-ported design, the port near cabinet bottom, just above the gold plated/plastic-nut bi-wire terminals.

Both drivers have been designed from scratch, the woofer having a new heat-sink vented diecast aluminum basket that contributes airflow around the spider and voice coil to improve power handling and linearity of motion. The cone is "mineral filled polypropylene...with synthetic butyl surround" with a "1 $\frac{1}{2}$ " high temperature voice coil on an Apical former". A "focused-field geometry magnetic assembly" contributes to this woofer's accuracy under extreme drive conditions, according to the Paradigm fact sheet.

The 1" tweeter is a "pure aluminum dome with textile suspension" in a "heatsink diecast chassis" with dual magnets and an aluminum voice coil former. It is ferrofluid cooled and damped, with power handling improved by the solid heat conducting front plate and basket. Crossover between the drivers is paralleled to each pair from a network described as being "2nd order electroacoustic at 1.7 kHz" that is phase and frequency corrected.

The enclosure, underneath all the black fabric, is "high-density composite hardboard" with "MDF front and rear baffles, featuring internal "critical radial and shelf bracing in a lattice locked configuration" to ensure rigidity and freedom from resonances. Unlike the quite wide M Series bipolar speakers from Mirage, the Esprit/BP has a quite narrow front and back baffle with beveled edges to minimize diffraction.

The Esprit/BP was measured at front for our normal quasi-anechoic curve, this very linear through the midrange and treble, with a tweeter resonance that is well controlled seen at about 15 kHz. Measured in a pair of identical front and back sets (the rear ones displaced down 10dB for clarity, but taken at the same level and microphone position with the speaker turned around), the room curves are very similar, and very smooth with a minor midrange dip around 4 kHz. Above and below response is  $\pm 2$  dB on both sides from 20 kHz down to about 400 Hz, where it starts to rise moderately. This mid-bass warmth yields to a very smooth deep-bass extension to below 30 Hz. Because these speakers are bipolar, their placement for optimum midrange spaciousness, well out from walls and corners, should smooth out the mid-bass area while retaining the solid deep bass.

A little roughness at 600 off axis can be seen, and is largely the result of front-rear driver interference in the lower

midrange especially, and is of no consequence at the listening position (either in front or behind). These are true bipolar radiators and clearly provide a wide listening axis with very good dispersion in front or behind.

Impedance was quite benign, rising to 20 ohms in the midrange, dropping to 4ohms near 200Hz, with a woofer peak of about 13 at 50Hz; the large rear port does not seem to cause any impedance rise. Electrical phase is also quite well controlled, varying over  $\pm 45$  in the midrange, and very accurate at upper frequencies. The Esprit/BP Bipolar should not pose any problems to an amplifier, and will like plenty of current for best bass performance. With its double-driver complement it is quite efficient.

Listening to this speaker in comparison to the 11seMk3 was an interesting experience: while the smoothness and bass solidity of the latter were very impressive when I switched to the Esprit/BP the whole soundstage opened up, and stretched beyond and behind the tall boxes. In my review of the 11seMk3 I noted that, "nothing jumps out at you, and there is more sense of the whole than the individual parts." I try not to write between the lines, as it were, but one's subconscious is always pushing the fingers; I think now, having heard this speaker paired with more than a dozen others since, that part of what I was saying is that the 11seMk3 does have in direct comparison, a slightly boxy or closed-in sound, simply by virtue of its large baffle area. A listening distance a few feet closer tends to minimize this.

By reducing baffle area, and creating a bipolar design, Paradigm has in the Esprit/BP eliminated this characteristic in a speaker whose measurements are surprisingly similar (of course, as speakers get better, their curves will start to look more alike; however, there is no denying the family resemblance here). But they sound quite different, if not in frequency balance, in their spatial perspectives, which is exactly what designer Scott Bagby intended.

I don't think that there is a necessarily right approach to speaker design in this respect, though my home listening room definitely prefers direct radiating types. Wide rooms with more space out from corners (like that in the testing studio) are better suited to bipolar and planar designs, and the Esprit/BP will thrive in such environments.

The fact that the sound picture is so similar from front and back helps imaging in a bipolar speaker, in that reflected sound will have much the same character as direct, and being

## Inner Ear Report

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This high-profile Canadian manufacturer is known to produce loudspeaker systems in the so-called affordable price ranges - and lots of them, at that. Their products cover the price ranges from \$200. to \$2,000. spread over 26 models. The Esprit/BP is the lower-priced of two new models in a new series. Those of you who had read our feature article Canadian Profile in TIER volume 6, #4 will recall that we mentioned that Paradigm was about to introduce a few new designs, including this series. subwoofers and home theatre components. The model under review here employs new driver designs, developed in-house at Paradigm's extensive research facilities.

### Appearance:

The Esprit/BP are slim, monoliths with a rather elegant appearance. Black wrap-around grills enhance and emphasize the enclosure's graceful proportions. They stand 115 cm tall with a footprint of 22 x 34 cm (45<sup>1</sup>/<sub>8</sub> x 8<sup>1</sup>/<sub>2</sub> x 13<sup>3</sup>/<sub>4</sub> inches). Solid 5-way binding posts at the bottom of the enclosure offer the bi-wiring option. Spikes at the bottom allow decoupling from and solid anchoring to the floor. While these loudspeakers cannot be hidden away somewhere out of the way, the tall slim enclosures manage to blend well with - even enhance - the decor of most listening rooms.

### Technology:

Innovative designs hold a certain fascination for us all and, while we may appreciate the beauty of a design, it's the technology which yields the end result - the musical data - that we appreciate the most.

This is a bi-polar design, which means that the loudspeakers (four drivers in all) radiate equally from the front and back, but in phase. Paradigm developed new drivers for this system. There is a new 165 mm (6<sup>1</sup>/<sub>2</sub>"") woofer which boasts a high-pressure die-cast aluminum chassis, designed to all but eliminate vibrations, resonances and the resulting structural changes of the basket. Additionally, the basket incorporates two sets of heatsinks which allow airflow around the assembly. Paradigm calls it AVS™ which stands for Airflow Ventilation System. The cones are made of mineral-filled polypropylene which yields a high rigidity-to-mass ratio with outstanding internal damping characteristics. This results in colouration-free wide frequency response and relative freedom from resonances. A magnetic assembly features a symmetrically focused field geometry to control driver excursion - linearity - under extreme drive conditions. The cone is suspended with a high stress-release and strain-dampening butyl material which helps to eliminate resonance-based distortion. A 38mm (1<sup>1</sup>/<sub>2</sub>"") high-temperature voice coil with a ventilated Apical former assures extended linear response regardless of cone excursion.

The tweeter is a low mass pure aluminum dome (PAL™) type with treated textile suspension. The convex dome is assembled to a high-pressure diecast aluminum faceplate. The high-temperature voice coil operates with a ventilated aluminum former in a ferrofluid cooling/damping environment which provides high power-handling and low distortion for the system. A dual symmetrically-focused magnetic field completes the tweeter's assembly.

The crossover network employs a quasi-Butterworth configuration with premium hand-selected parts. The crossover point is quoted at 1700Hz.

In a design such as this one, it is important to control enclosure resonances. Paradigm utilized 1-inch thick MDF for the front and back baffles. Three interlocking full-perimeter horizontal and vertical braces are positioned in a cascaded arrangement - that's each brace connected in a manner that each operates the next. This is a very sophisticated method and shows that the designers had put a lot of time and effort into this system. Finally, a high-velocity tuning port at the bottom of the enclosure had been designed to assure maximum bass efficiency with minimal turbulence distortion. And all this, to reproduce . . .

### The Sound:

We wanted to find out what these loudspeakers can do under different amplifier or system conditions. Our initial audition took us by surprise, when we had the BP connected to our main system in our upstairs studio/living room. We should tell you here that all of our listening tests take place in a house and living room much as you would have in your

delayed, will not cause response anomalies, but add to perceived spaciousness and depth.

Getting away from the question of imaging for a moment, the dynamic capabilities of this speaker are considerable, with powerful bass right down to the lowest pedal notes, and a clean, focused midrange that makes all voices and instruments sound very natural, with just an extra bit of warmth on male voices, bassoons and brass.

The tweeter is fast and detailed, with no splashiness at high levels. I heard more detail and articulation from this speaker than from the 115eMk3 suggesting that lateral spatial cues are not compromised by the bipolar design. This is also due, I think, to the new metal dome tweeter's quicker transient response and better power handling ability.

Of course, if you set them up angled in within a couple of feet of a corner, you're likely to find imaging and clarity compromised, with all kinds of phantom images coming out of the corners. A pair of Esprit/BPs will probably sound best aimed straight ahead at least a metre from any boundary in a good-sized room.

And, finally, let's return to the question of imaging in bipolar and dipolar speakers: a dipole radiates opposite-polarity energy to the rear, and is even more difficult to set up than a bipolar, usually requiring some toeing in to provide the optimum balance of cancellations and reinforcements for realistic midrange and adequate bass: an inch or two either way can drastically change the sound quality.

On the other hand, a bipolar speaker radiates its energy with the same polarity to front and rear, and is much less sensitive in terms of placement: the already noted concerns about boundary proximity exists, of course, but we're not dealing with drastic sonic changes with an inch of movement, but simply optimizing the balance of direct and reflected sound, which can also be achieved through room treatment behind the speakers.

All that said, the Paradigm Esprit/BP Bipolar is a remarkably good first attempt at this type of design, retaining all the virtues of a direct radiating type, while adding extra spaciousness and a very realistic sense of depth without compromising detail or lateral imaging.

This is a true high end speaker at a quite astonishing price. If you're a bipolar fan, note that there's literally nothing else in the market at anywhere near the price of the Esprit/BP, and few speakers, period, under \$2000 which combine this level of sound quality, accuracy, and wide, smooth frequency response, and, in effect, do it in duplicate.

## "MARVELOUS"

"... very revealing with a musical quality that will not allow a casual walk past the system without stopping for a listen."

"... our panelists thought that the Paradigms are much higher-priced loudspeakers."

"These loudspeakers perform as well as one would expect from speakers in twice the price-range — simply marvellous."

Paradigm

## "STUNNING"

"A stunning image with well defined acoustical boundaries, astounding front-to-back layering combined with excellent height and depth are but a few of the Paradigms' features."

"... lower midrange steadfastly maintain focus, detail and equilibrium with information above and below."

"In this light the Esprit/BPs rate extremely high in both the technical design work and the resulting musical accuracy."

"... have a listen to these gems."

**Paradigm**

listening environment. The main system at TIER are two OCM 500 amplifiers - balanced mode - an OCM 88 preamplifier, a Teac VRDS-20 CD player and interconnects by Vampire Cable. Our bi-wired configuration are Transparent Super and Vampire cables. As we mentioned above, we connected the Paradigms with this system to break them in since they came to us brand-spanking new. We left them hooked up for about three days and noticed a steady improvement, although they sounded surprisingly good after about one hour of operation. Three days later, we conducted some listening tests with familiar discs. Well burned in, the Paradigms had become very revealing with a musical quality that will not allow a casual walk past the system without stopping for a listen. Most of our panelists are spoiled out of their minds listening to \$7,000. Mirages without as much as a blink of the eye. When new speakers arrive, they are scrutinized and, although our editor discourages comparisons, they often refer to the known criteria. Call it human nature, call it subjective curiosity or call it nothing - fact is, the Paradigms operate with the same design principle as the Mirages, the bipolar system. And like the Mirages, the Paradigms offer similar spatial and focal information, when set up in the proper manner. A stunning image with well defined acoustical boundaries, astounding front-to-back layering combined with excellent height and depth are but a few of the Paradigms' features. The highs extend smoothly into the dog-whistle range without noticeable edginess. Occasionally, program material with large orchestration, becomes a bit crowded in the upper midrange areas, while the lower midrange steadfastly maintain focus, detail and equilibrium with information above and below. This "crowding" isn't apparent at all with small musical ensembles which is why some of our panelists thought that the Paradigms are much higher-priced loudspeakers. The bass information is powerfully robust without coming across as domineering. Resolution is excellent down to about 36 Hz. Below this point the speakers offer quite a bit of energy, alas without the ultimate resolving abilities so apparent in the frequencies above the 36Hz. Although it's highly unlikely that the Paradigms will be connected to such an elaborate system boasting about 1,000 watts per channel, this arrangement sounded altogether stunning. The above-mentioned sonic traits serve as reminders that the panelists actually compared the system with the Mirages - which is a bit unfair to either company, but...

We moved the Paradigms to our downstairs listening room to hear how they perform with a smaller system made up with the Bryston 3B amplifier and a Dolan preamplifier. This time, the acoustic environment had changed dramatically, the power had been reduced to about 100 watts per channel and our wiring changed to lower-priced cable such as Flatwire and the lower priced Vampire. The basic sound remained the same as we described above, proportional with the backup components. The Onkyo receiver (reviewed somewhere else in this issue) also complemented the sonic benefits of the Paradigms, making them candidates for a large selection of associated components. If we had to describe the Esprit/BP in one sentence, we would simply say: These loudspeakers perform

as well as one would expect from speakers in twice the price-range - simply marvellous.

### Synopsis & Commentary:

Before we come to our conclusions, let us tell you what we believe a good pair of loudspeaker should do for listeners. We believe that - regardless of design philosophies, component quality, etc., loudspeakers should do nothing but reproduce the information fed to them via the backup components. What the listener should hear is the music, of course, and perhaps the quality of the backup system. When listeners can settle down to take advantage of the very purpose of a loudspeaker, nothing matters - or should matter - but the music. The Esprit/BP offers modern technology in addition to musicality. In this light the Esprit/BPs rate extremely high in both the technical design work and the resulting musical accuracy. In order to extract the most from the loudspeakers, it's important to set these bipolar designs up correctly. If you have enough space, keep the loudspeakers 18 to 24 inches away from sidewalls. If you must place them closer to the walls, toe them toward the listening area by about 20 degrees. The wall behind the speakers should be uncluttered and at least two feet away, with the best results closer to four feet away from the rear wall. The best acoustical interaction with the listening room will be achieved when the loudspeakers are positioned approximately one third of the entire length into the listening area. This allows one to create a deep sound stage with maximum clean bass response. The distance between the loudspeakers isn't as important, but bear in mind that the best listening position is the so-called sweet spot, the same distance in front as the distance between the speakers. Wiring is important, and the Paradigms can be bi-wired for best results. If you follow the setup procedure we just described, you'll be pleasantly surprised at the Paradigms' performance and you will hear the reason why we rated them highly. Visit your dealer and have a listen to these gems.

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*continued from last editorial page*

blues clubs to satisfy those who are in the hi-fi business because they love music. But Chicago is a modern American metropolis tainted by that which turns some major cities into financial sinkholes best avoided by companies smaller than Sega, Microsoft, or Matsushita. A combination of fire-department regulations, excruciatingly high prices (even by American standards I hasten to add), and loony-tunes union behavior has conspired against the specialist hi-fi community, if not the consumer electronics industry as a whole. The big boys play at convention centers whatever the city, so they're immune to the wiles of hotels. And money is never an issue when your turnover is larger than the gross national product of, say, one of the new Soviet republics.

Although the Chicago Hilton has proven to be a near-perfect venue for the high end-cum-specialist sector that has supported the show since Year One, it's the show in McCormick convention center the general media (newspapers and TV) consider to be the "real" CES. Your basic newspaper hack has heard of Panasonic, Sony, *et al.*; any company with a turnover below nine figures just doesn't matter to the likes of a *CNN* or *USA Today*. And so the Hilton sits there like some mad uncle locked away in the spare bedroom in the attic. It is treated almost as an afterthought, or as a necessary evil. Despite the paucity of products launched in the convention center itself, the "Zoo"—as it will forever be known—still received the lion's share of coverage in the CES "dailies" and on TV. It's as if the Hilton wasn't there at all, despite the EIA's recent efforts to make the high-end community more a part of the CES as a whole.

Compare this with Las Vegas. Only 10 years ago, Chicago was *the* CES to attend and the Las Vegas event was the low-rent offering. But there's been a complete reversal during the past decade, with Chicago no longer having the appeal it once had, art museums, four-star restaurants, and a dearth of neon aside. Las Vegas—for all of its ersatz gloss, screaming commercialism, eye-aching glitter, arch vulgarity, and unequalled crassness—has cleaned up its act. The comfortable and inviting Mirage is a far cry from the sleaze pits of yore, while

the Sahara's days are numbered. And people that you'd swear would find Las Vegas completely *infra dig* now actually look forward to it . . . especially those West Coast manufacturers who might seem a bit precious and sniffy at times, but who simply cannot deny the convenience of a convention site only an hour's flight from L. A.

And yet there was plenty to see and hear at the final Chicago CES. None of my colleagues had to pad a show report with car

**CHICAGO HAS ENOUGH  
BLUES CLUBS TO SATISFY  
THOSE WHO ARE IN THE  
HI-FI BUSINESS BECAUSE  
THEY LOVE MUSIC.**

hi-fi, multiroom hardware, digital broadcasting, or any of the other peripherally related toys that veer from the classic source/amp/speaker set-ups that constitute "real hi-fi." Brentworth Sound Lab and DGX Audio used clever systems in their new loudspeakers featuring dynamic signal shaping. Tiny speakers made a comeback with a flood of models from Monitor, ELAC, Rogers, Harbeth, Totem, Celestion, and KEF (with their own branded LS3/5A no less, after years of making only the drivers and crossovers for this BBC classic). Speaking of classics, Acoustic Research turned up with a Model 3a revised for the 1990s.

CES being an American show, there was no shortage of floor-standing stuff either. ProAc, Thiel, Amrita, Vandersteen, Epos, Mission, Focus Audio, Dzurko Acoustics, and Merlin offered non-frightening, nearly traditional systems while Audio Physic, Concentric Speaker Technology, Mirsch, Meridian, Spheric Audio Laboratories, and A.R.T. chose to defy convention by displaying everything from upholstered speakers to multi-driver arrays to horn systems which won't even fit in the back of a Chevy El Camino.

Tubes refuse to go away, keeping me and other bottle freaks happy for at least another calendar year. Propping up either the Russians, Yugoslavians, or Chinese (or others still making tubes) were Audio Sculpture, Art Audio, Melos, AudioPrism,

Lamm, Joule Electra, and Valve Amplification Company. Over in the solid-state arena, there were surprises like Rogers' return to amp manufacture, the chunky separates from Higher Fidelity and new units from Creek, Oritron, Arcam, Sim Audio, Densen, Sonographe, Carver, and Bob Carver's new venture, The Zeus Project.

Digital technology continues to develop with Theta, Krell, Arcam, Creek, Resolution Audio, Audio Research, and Camelot showing new converters, transports, or players at all price points. Home cinema is no longer a stranger to the high-enders, with Krell, Meridian, Counterpoint, Snell, Enlightened Audio Designs, Alon, and every other manufacturer with a modicum of foresight launching either surround-sound decoders, multi-channel power amps, center-channel speakers, or subwoofers.

One-offs were there in abundance. Though hardly what you'd call either a hi-fi product or something suitable for home cinema, Marantz dazzled visitors with a truly watchable pocket-sized LCD TV. The Zapp Zero Corp., a new firm started by the founder of Primare in Denmark, showed only computer-generated impressions of a new CD transport and an integrated amp, but they were enough to get you salivating. Densen, the Scandinavian amplifier producer, issued DeMagic, a CD demagnetizing disc with a three-minute track that "cleans the entire signal path of magnetism which has been built up during playback due to a.c. leakage. . . ." Analog supporters weren't shortchanged, either, Creek having issued the nifty little plug-in phono module for its preamp as a stand-alone device in its own enclosure. Audio Alchemy, best known for purely digital hardware, showed the sweet little VAC-In-The-Box, a so-called "Vinyl/Analog Converter," or—to you and me—a cleverly named phono stage.

So did the 1994 Summer CES show the specialist sector to be a wheezing, ailing industry awaiting its funeral? I think not. It isn't the hi-fi community's fault that Chicago itself was prepared to undervalue a quarter century's worth of CES loyalty and support for the once-in-a-lifetime burst of revenue from World Cup Soccer. Then again, staring for too long at a Game-boy is bound to create myopia. **A**

JOHN EARGLE

## WALKIN' FROM CHICAGO



**T**his year's was the last Consumer Electronics Show at McCormick Place. It comes as no surprise to anyone remotely connected with the trade. The only difficult thing about the decision is that we shall all miss Chicago in June. Next year, Philadelphia will be the host city for a new show called CES Interactive. That title pretty much indicates one shift in emphasis that has been underway for several years. Trade shows follow markets, and where there are many product innovations, two shows per year can perhaps be justified. But consumer audio and traditional video long ago reached the point in their development where real innovation could be seen over a period of years, not months. Las Vegas remains the seat of the Winter CES and will no doubt continue as the premier show for those areas, perhaps with even more emphasis on audio.

Many companies were not displaying at the final Chicago show; it was limited to three days and was for the trade only (no open day for consumers). While attendance was much lower than in previous years,

the prevailing mood was good, and many exhibitors spoke well of the quality of traffic.

In its 12 years, the CD has become an exceptional medium for music, photographs, general information, and interactive games; now it is about to prove its ability to handle video. Manufacturing costs for the disc itself, regardless of content and programming standards, remain in the range of a dollar and change, and as far as I can tell, the CD is going to be around for many decades to come. I simply cannot think of a medium that accomplishes so much at so little cost. Even in its original application as a linear 16-bit digital carrier for music, the CD has made quite remarkable strides in terms of its increased dynamic range (through noise shaping) and may hold open some possibility for increased high-frequency bandwidth (through resourceful reassignment of less significant bits).

**A CES INTERACTIVE SHOW INDICATES ONE SHIFT IN EMPHASIS UNDERWAY FOR SEVERAL YEARS IN AUDIO AND VIDEO.**

No, this is not a violation of sampling theory or any other fundamental law, but simply good engineering, rooted in psychoacoustics, and can be done within an overall framework of backward compatibility with all previous CD players.

I have mentioned this in some detail, because I want to discuss the

greatest challenge so far for the Compact Disc, and that is the storage of high-quality video. First, a couple of comments on data reduction. In audio systems such as Mini-Disc and DCC, data-reduction rates of four or five to one are used. A higher rate could be used, but for now, these ratios suffice.

The LaserDisc of course has no data reduction; it is an analog video medium and has sufficient bandwidth to produce a beautiful picture. Its big problem is cost. VHS tapes of are of lesser quality but are still expensive to reproduce on the standard one-to-one tape duplication basis. In video, there is normally much greater signal redundancy than in audio, and this makes it possible to apply much higher ratios of data reduction to the program, *if that program has been digitized*. In the Philips exhibit, I saw several examples of digital video from a CD base. These were standard Philips

Illustration: Neil Shigley

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systems factory-direct, with no expensive middlemen, you can save hundreds of dollars. We believe the products on these pages represent the country's best values in high performance home theater components. Audio critics, and thousands of satisfied customers, agree. *Stereo Review* said "Cambridge SoundWorks manufactures loudspeakers that provide exceptional sound quality at affordable prices." *Audio* suggested that we "may have the best value in the world."



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*Our EXO-1 Electronic Crossover*



*Our Center Channel Speakers*

## Center Channel Speakers

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## Home Theater Speaker Systems

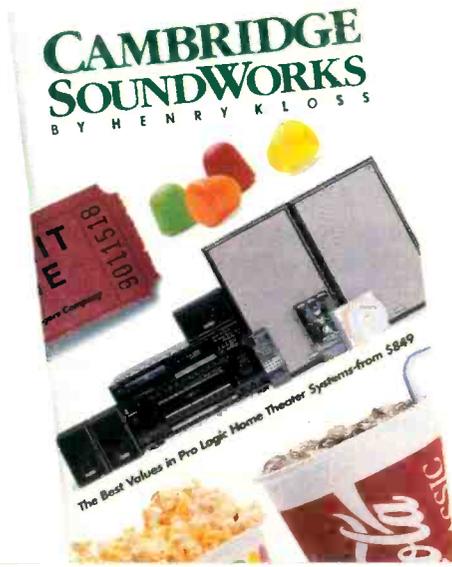
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CD-i players in which a special cartridge had been installed, making the machine capable of playing any of the CD digital video 5-inch discs. What I saw looked very good, but most experts feel that the highly data-reduced video signal is about on a par with VHS. These discs will run in the \$25 range, and the available titles include many of the blockbuster and action movies of recent years.

There is much current debate in the motion picture industry, especially on the creative side, regarding video data reduction and the effect this may have on overall quality standards and expectations in the field. In a sense, they are going through the same soul searching that the record industry went through in the early days of the CD (although the situation is not exactly analogous). I have a feeling that any current problems will be solved very quickly, and that we will be able to get standard video of high quality from a 5-inch disc in short order.

It is always gratifying to see a known technique for improving sound reproduction be applied with a minimum of complexity and a maximum of benefit to the user. Such is Charles McShane's simple passive circuit for interchannel crossfeeding of antiphase signals at low frequencies. This has the overall effect of spreading the stereo image out somewhat from the actual positions of the loudspeakers. To my knowledge, only Fried Products of Philadelphia has licensed the technique, but there will undoubtedly be others. The method is known by the acronym M.A.R.S., which stands for McShane Ambience Retrieval System. M.A.R.S. is not a stand-alone network but must be designed into the speaker system. The loudspeakers must use dual voice-coil woofers, and this may be a sticking point for some manufacturers. McShane has carefully worked out

all network details and achieved excellent overall tonal balance on the systems that I heard. In fact, the circuit is intended to be left engaged all the time, producing as it does an improvement on just about all program material. I have always said that some of the best sound—and music—at any CES was to be heard in Bud Fried's demo room. Now, it has gotten even better.

On the software front, there was very little activity with either MiniDisc or Digital Compact Cassette. A few new models, primarily for auto use, were shown, but the

bloom is off, at least for the present, though Philips will introduce home and portable DCC units this Fall. As if things are looking up for the venerable Compact Cassette, we note that there is more activity in Dolby S tape duplicating among some of the major labels. (Remember that this a format many people thought was too little and too late.) It actually provides better playback compatibility over Dolby B and C and non-Dolby



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systems than does a conventional Dolby B tape. When played over a well-executed Dolby S machine, the results can be extraordinarily good. Perhaps there will be life for Dolby S for some period before MD and DCC experience the price reductions that are so necessary if they are to have a chance in the market.

The LP reissue business is doing very well at this time. While the major labels are doing their best to create the finest “vintage CDs” they can, many of them are at the same time leasing their masters to entrepreneurial groups who are making the finest “vintage LPs” they can! Such companies as Analogue Productions, Chesky, Classic Records, Reference Recordings, and Wilson Audio, are actively turning out LP reissues from the '50s and '60s that, in most cases, are better in quality than the originals ever were during their heyday. A

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### Endless Loop, Endless Problems

**Q** Many musicians use endless-loop cassettes to study and emulate musical passages. I have no trouble operating endless-loop tapes on portable recorders of various qualities, regardless of the orientation of the units, but my dual cassette recorder/player cannot handle such tapes.

The tech rep for the maker of my deck could only say that such tapes do not work in machines that are vertical. People in music stores had no clues.

It would seem that that feature of my deck, possibly the tape-end sensor, would be responsible for this phenomenon. If I knew what it was, I could probably modify a deck to operate with endless-loop cassettes. Any information or suggestions you could provide would be deeply appreciated.—Dove Menkes, Fullerton, Cal.

**A** Endless-loop cassettes, which have been around for years, are mainly used where a message is to be repeated over and over again, such as for “announce” tapes in telephone answering machine. Remember the 8-track tape format? These cassettes operate along those lines but without the track-changing mechanism.

I once had a similar problem with a really fancy deck. It would start to play endless-loop tapes, then shut down after a second or so. I don't know if the tape-end sensing system is, as you suspect, the problem in your case—but it was in mine. In most decks, a sensor checks for rotation of the takeup spindle; when no movement is detected (whether because the tape came to an end or has jammed) the machine shuts down. My fancy deck had a similar arrangement, but it sensed the motion of the supply spindle. On the endless-loop

cassettes that I have used, the tape is wound by the take-up spindle while the supply spindle is motionless during operation. Such sensing schemes would interpret the lack of tension on the supply end of the cassette as indicating a broken tape.

I can't imagine why the vertical orientation of the cassette in any machine would affect the operation of endless-loop tapes. You need to examine how your deck works and how it interfaces with the endless-loop tapes. This way, you will know what mechanisms to defeat.

Once you have the tapes running smoothly, be sure to keep the tape path clean. Because these tapes run around and around, they will shed oxide more than you would suppose, especially when they are new.

### Loudness Balance and Perception

**Q** My primary music listening is to tapes that I record from my long-playing records. On a 60-minute tape I may have 20 or more songs, usually derived from many different record albums. I have a very difficult time trying to balance the volume, or

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loudness, levels from one song to another. The recording level meters do not accomplish this—perhaps because they do not measure loudness? Is there some piece of equipment that could be plugged into the deck and would measure loudness? Is there a cassette deck available with this feature built into it?—Harvey Werner, Leesville, La.

**A** I know of no easy way to solve your problem. I have not heard of any built-in or add-on devices that can measure apparent loudness.

One factor affecting perceived loudness is dynamic range. Recordings made with considerable volume compression or limiting will sound louder than those with more natural dynamics. Even if the maximum volume levels are the same in each case, the compressed recording will have higher average volume, because soft passages have been made louder. (Some radio stations compress, hoping listeners will stop at the loudest signals; radio and TV commercials are often compressed, as well.) Your tape deck's meter will barely wiggle when you record or play music with restricted dynamics. On music recorded without com-

pression or limiting, the meter will show considerably greater fluctuation.

Equalization also plays a part. Some recordings are made with a "presence peak" at about 2 to 3 kHz. Recordings made with such a peak will sound louder but won't register any differently on your meter. A recording that was compressed and has the presence peak is going to sound really loud!

There are no shortcuts to producing compilation tapes whose tracks all sound equally loud. Use your ears and set recording levels according to your perceptions of each song's loudness. Just be very careful not to overload the tape when boosting selections that seem relatively soft—in raising their average loudness, you're also raising their peak levels, which may have already been high.

### Wrinkled Old Tapes

*In his November 1993 column, it was kind of Ed Canby to call attention to the work that I, among others, am doing in the field of audio restoration and preservation. It was coincidental that Ivan Berger's inquiry to*

*Herman Burstein about tape from 1959 "distorting" appeared in the same issue.*

*Although open-reel tapes all look pretty much alike, they are quite dissimilar in chemical makeup. Since about 1960, polyester (sometimes called Mylar) backing has been used in tape formulations. Mr. Berger's tape is from the previous generation, whose backing is acetate-based.*

*The essential difference, as related to his distortion problem, is that the plasticizer in acetate tape is water. Over the years this tape loses its suppleness; when dried out, it will curl, warp and otherwise avoid consistent head contact. Further, because it is so dry, it often interacts with nonmoving parts in the tape path in such a way as to cause the tape to vibrate. The tape is supposed to slide smoothly in its path. The distortion Mr. Berger described is unrelated to signal level;*

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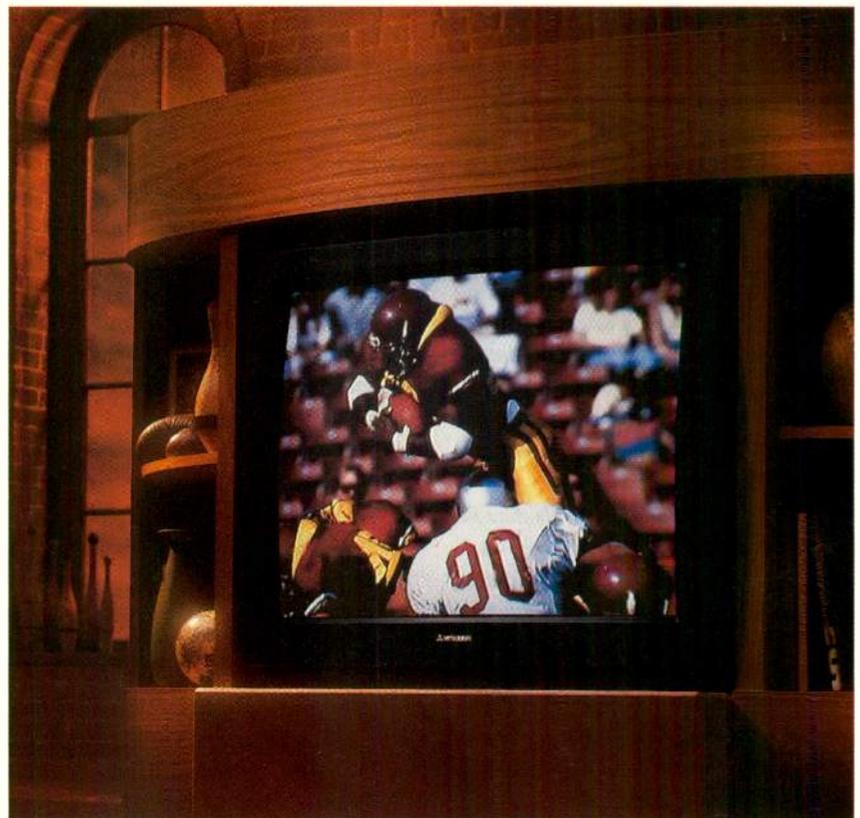
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it is neither electronics nor sound waves but rather alteration of the tape's properties, which creates the problem.

The solution, as with so much in restoration work, is simple but time-consuming. The tape should be placed in a very humid atmosphere. It will swell as water vapor is absorbed. Therefore, before starting the restoration, acetate tape should be slowly wound, under loose but even tension, so that

## AS WITH SO MUCH IN TAPE RESTORATION, THE SOLUTIONS ARE SIMPLE BUT TIME-CONSUMING.

the vapor can be fully absorbed. Otherwise "spoking lines" appear and the reel may warp.

What I have just described works for acetate-backed tape. The treatment for polyester-backed tape is completely different. Silicone lubricant can sometimes work when it is applied to shiny polyester backing. It is not recommended for treating matte-finish, back-coated polyester tapes.

As aging occurs, back-coated tape may "squeal," shed powder, clog heads with debris, have layers stick together, and/or begin to completely delaminate. The cause is chemical changes in the binder that holds the oxide to the backing. A low-temperature baking process has been successfully used to reure the binder temporarily. This baking process cannot be done in a home oven, with its food contaminants and its wide temperature swings. It is done in a dedicated, tabletop, side-convection oven that can maintain temperature to  $\pm 3\%$ . The baking is done at about 125° F for about eight hours. The best way to control oven temperature is by using an external thermocouple.

Tapes wound on aluminum reels may be processed as they are wound. However, plastic reels are likely to warp. If that happens, the plastic must be broken off and the tape wound onto a fresh reel after going through the baking treatment. Trying to reuse the original reel can result in the tapes' losing fragments and, often, self-destructing while being wound. A treated tape must be copied soon after treatment, because it reverts to its previous state fairly quickly.

What I have described here is really a simplification of the process because other problems, such as "scatter winding," are involved. There have been a number of articles written concerning this process, including mine, which appeared in the Journal of the Association of Recorded Sound Collectors (ARSC) late in 1989. As Casey Stengel used to say: "You can look it up."—Steven Smolian, Clarksburg, Md.

## Slow-Speed Piano

**Q** I'm learning to play piano, and I've reached the point where I would like to emulate some of the piano solos on my jazz and pop recordings. Unfortunately, the pianists on these recordings play much faster than I can. I'd like to slow things down a bit so I can pick up every note. Open-reel tape machines had at least two speeds. Do any current cassette decks or CD players have a "slow-down" feature? If not, is there any kind of equipment that can be attached to a cassette deck to achieve a slow-down?—R. P., Hollywood, Cal..

**A** Your options depend on just how much slowing down you need. Do you need to cut the playback speed in half? Or would a more gentle slow-down be more suitable for you?

With a two-speed tape recorder or CD player, you could slow your recordings down to half speed; in the case of the tape deck, at least, this would also drop the music's pitch an octave. (With digital trickery, a two-speed CD player could get around this.) Unfortunately, I know of no CD or cassette equipment currently available that can play back at half speed.

However, there are dual-well cassette decks that offer high-speed dubbing, at twice normal speed. If any such deck can record from an external source while in this high-speed mode, you could feed your CD player's signal to it, then get your half-speed effect by playing your double-speed recording at the normal rate.

A more realistic (and cheaper) alternative might be to buy an old, used, open-reel deck. (The open-reel decks still being made today are aimed at professionals and are priced accordingly.) If you have these recordings on LP as well as CD, you might look for an old turntable that has a 16 $\frac{2}{3}$ -rpm speed, originally meant for "talking books."

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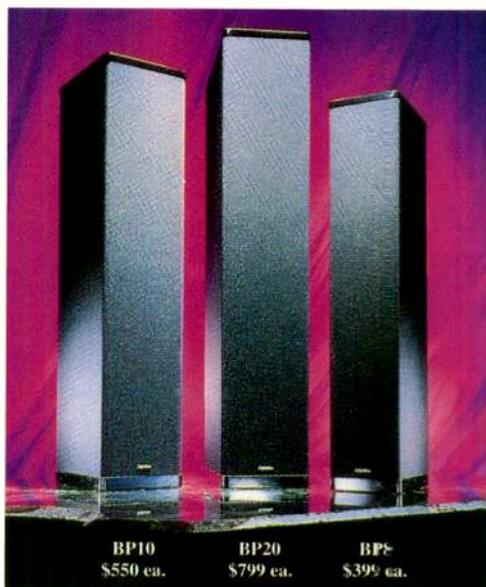
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If just a bit of speed reduction is enough, you might find equipment with "pitch controls" that can lower or raise the speed by rather less than 10%. I have seen some Technics professional CD players with this feature, such as the recently discontinued SPL-1300. Several of Marantz's professional recorders have it, too. You might check out the PMD-101 portable (\$260), which offers a  $\pm 20\%$  pitch and speed control, plus selectable normal or half-speed operation. In general, you're more likely to find pitch control in units sold through pro audio and music stores than in your local hi-fi shop. And while home players and recorders with pitch control exist (the Sony ES TC-WR901ES, for instance), their makers barely mention this.

This year's Annual Equipment Directory lists several turntables with continuously variable speed. Of these, the least expensive is the Esoteric Sound Isi (\$420, including arm but not cartridge).

Remember, though, that as the speed of a cassette or open-reel recorder is changed, the pitch of the music changes along with the tempo. So unless you cut the speed ex-

actly in half, you will be playing along in a different key than that of the original recording. Lowering the pitch also changes the sound's character in other ways. The attacks will lose their crispness, leading to problems in picking out the desired notes. And bass notes, depending on your speakers and your room, might become too low to hear.

**YOU CAN ALTER A TAPE'S SPEED TO PLAY ALONG WITH IT, BUT THE SOUND'S CHARACTER CHANGES IN MANY WAYS.**

At one time there was a move to produce cassette recorders that operated at  $3\frac{3}{4}$  ips. If you advertise for one of those, either in our Classified Section or in those of other magazines that deal with high-fidelity matters, you might locate one. [B.I.C. was one of the brands offering this feature—*I.B.*]

Musicians sometimes study recordings by playing a passage over and over again,

"scat singing" along with the music much as you might hear Mel Tormé or Ella Fitzgerald sing. This commits the passage to your memory so that you can hear the notes and play them according to your ability. Eventually you will be able to play them *a tempo*.

### About Tape Squeal

**Q** I understand that some distortion that occurs during playback of 1,800-foot tape reels at  $7\frac{1}{2}$  or  $3\frac{3}{4}$  ips can be cured by placing some kind of lubricant on the heads of the tape recorder. What is the name of this lubricant and how well does it work?—Morton J. Diskind, Orlando, Fla.

**A** I believe the "distortion" you have in mind is called "tape squeal." This condition arises as a result of aging tapes losing their built-in lubricants. As tapes are played or recorded, they must pass smoothly over the surfaces in the tape path. Because of its loss of lubricant, the tape tends to alternately stick and release at a rapid rate as it moves over the heads, causing squeal, which can be heard by placing your head near the deck. Of even

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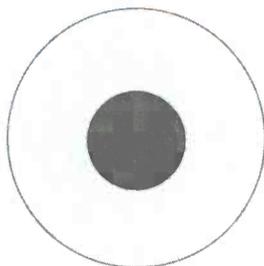
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greater importance, the uneven motion modulates the desired signal at a rate determined by the speed of the alternate sticking and release.

I do not believe there is a permanent cure for this. I have been able to eliminate the condition so that the tape can be played at least one time for copying to another tape. The lubricant I use is Wondermist, a silicone spray, from Amway. I assume that similar products would also work well, but I have not tried any others. Rather than spraying the lubricant directly on the heads, I spray it on the tape itself. I lightly spray it on the reel between spokes. In addition, I sometimes put just a dash of the material onto the heads.

If you are fortunate, you will be able to play the entire tape without the reappearance of the squeal. If you are not lucky, find a place to stop the copying, cue both the copy and the source to some editable point, relubricate the source tape, and restart.

Although you might want to keep the original tape for archival purposes, it will never, to my knowledge, be as good as new.

## Tape Head Demagnetization

**Q** The owner's manual for my tape deck advises demagnetizing the heads every 30 hours. Do I only have to demagnetize the play head? I understand that I don't have to demagnetize the erase head because the record head is right next to it. Is any magnetization of the heads caused by the magnetic fields on the tapes themselves?—Richard Wang, Irvine, Cal.

**A** As you have indicated, the play head is the one that has the greatest need of demagnetization. The record and erase heads usually do not require demagnetization because of the bias and erase currents fed to them. Because these are a.c. currents, their effect is to demagnetize the heads. It is not a matter of proximity between the erase and record heads.

The play head is not supplied by such currents so it should be demagnetized occasionally. I really do not see a need to do this as often as every 30 hours, but it must be considered as an occasional maintenance procedure. This is a good practice even if the recorder is not used for extended periods of time. The earth's magnetic field

can magnetize tape heads to some extent. For a tape to be playable, it is magnetized along its length in accordance with the signal that has been recorded on it. These magnetic fields on the tape are so small but they do magnetize the heads or other parts of the tape path, although this happens slowly. (Rapid magnetization of playback heads is more likely due to a defect in the tape deck's circuitry: I know, I've had it happen to me.)

## CD Players With Track Lock-Out

In the January issue, Chris Burns asked about CD players with "track lock-out," whereby unwanted tracks could be eliminated from the total program. Pioneer has such a feature on most of its six-disc CD changers. I have worked with three Pioneer CD changers (the PD-M435, the PD-M600, and the PD-M610) which have this "Delete" feature. I should mention that the PD-M600 will only play CDs in random mode after programming deletions. Just pressing "Play" will knock out the deletions. This is not true of either the 435 or the 610.—Robert Bass, Mesquite, Tex.

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IVAN BERGER

# SNAKE, RATTLE, AND ROLL

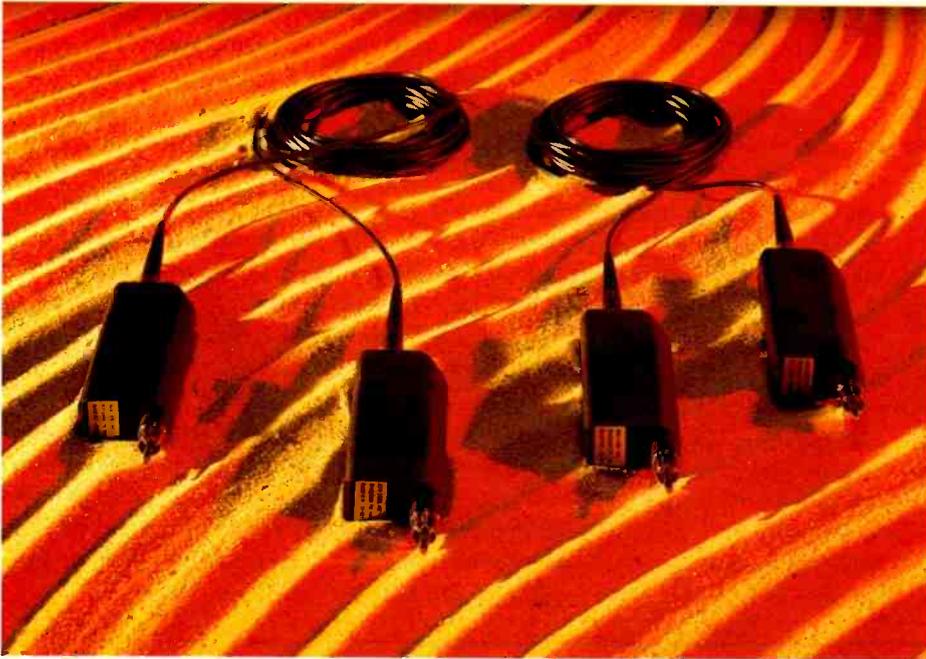


Photo: Michael Green

## Mongoose and Cobras: Fiber for analog's diet.

Even the fanciest audio cables can pick up some interference, impede the passing signal just a bit, or be a part of a ground loop. Those effects can become audible if the cable is long enough—though “long enough” is a length that varies with the cable and the circumstances. Fiber optics are immune to these problems. But so far, fiber is used almost exclusively for digital signals.

That's because fiber-optic systems have suffered from limited dynamic range. This is no problem for digital: Digital signals have a very small dynamic range themselves, though we use them to encode analog signals with very wide dynamics.

An optical fiber system that claims enough dynamic range to handle analog audio directly has now been shown by ASM Labs, of Marionville, Mo. It consists of an analog optical transmitter and receiver system called the Mongoose and an optical fiber cable called the

Cobra. Two sets are required for stereo. Response is rated 3 dB down at 300 kHz, with a 115-dB dynamic range; ASM says the system can car-

ry signals over distances of up to 2.4 miles without degradation.

Two kinds of Cobra are available. Cobra Standard cables, paired and matched within 0.3 dB, are \$125 per pair for the first meter, \$10/pr. for each meter additional; prices for the Cobra Ultra, paired and matched within 0.003 dB, are \$175/pr. for the first meter and \$15/pr. for each additional one. The Mongoose is \$649 per pair, including separate power supplies for each transmitter and receiver. A video version of the system is also available.

## Surround Skrimishing

Dolby's AC-3 digital audio coding system is making headway but running into headwinds. The system already forms the basis of Dolby's SR.Digital (SR.D) digital surround system for movie theaters (see “Digital Film Sound: Rated S for Sound,” June '94), has been selected for the soundtracks of the U.S. high-definition television (HDTV) system, and will probably be in use for digital cable TV transmissions by the year's end. Pioneer has demonstrated a LaserDisc with AC-3 and is pushing it as a future system.

## Putting the AR in Party

One of the first places I—and thousands of commuters—heard good audio was in the listening booth that Acoustic Research once had in New York City's Grand Central Station. In October, AR will return to Grand Central for an evening, to celebrate its 40th anniversary with a gala birthday bash. Figures from AR's early days, including Edgar Villchur, Roy Allison, and Henry Kloss are scheduled to attend. And so can you. . . maybe. A limited number of invitations for consumers is available through AR, which is now part of Interna-

tional Jensen's Specialty Audio Group. Requests should be sent to Acoustic Research, 535 Getty Court, Building A, Benicia, Cal. 95842. The invitations are not restricted to past or present AR owners—but if you come without ever having owned an AR, try not to look blank when the reminiscing starts.



Where it all began:  
The AR-1 of 1954.

## Satellite and Subwoofer Speakers: The "Overnight Success" of the '90s.

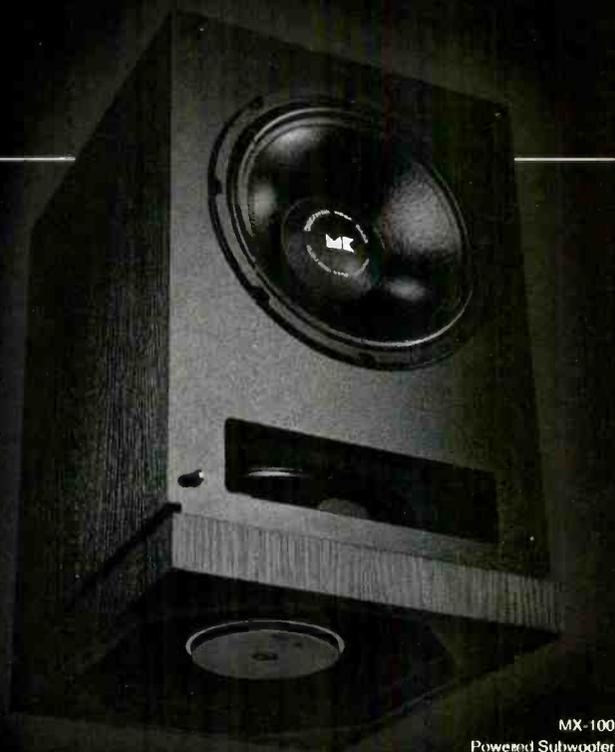
Overnight, it seems, virtually everyone has discovered the advantages of the satellite-subwoofer speaker concept—especially for use in the home theater.

1994 marks M&K Sound's twentieth year at the forefront of this technology. After two decades of developing and refining this concept, we are flattered to see satellite and subwoofer speaker systems become

the dominant choice for the multichannel home theater.

M&K speakers have been found in Hollywood screening rooms (the earliest home theaters) since the 1970s.

Long acknowledged as the deep-bass specialists, we've also been pioneers in direct-to-disc and digital audiophile recording with our RealTime Records label—the first U.S. label to release compact discs.



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ate a *high-performance*, flexible system that can be optimized for both two-channel music and multichannel film and music reproduction.

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Four MX models, with internal amplifiers between 75 and 200 watts RMS, provide an ideal match for your system.

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Seventeen years of M&K experience in Satellite-Subwoofer systems comes together *again* to create a new subwoofer performance standard. And with the 18" x 10" x 13.5" MX-70, M&K creates a new *compact* subwoofer standard.

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The unprecedented musical articulation and "ultra quick" sound of the MX subwoofers make them the perfect choice to complete any audio or audio/video system.



As virtually every speaker manufacturer rushes to deliver "home theater" speakers to the marketplace, M&K amasses nearly twenty years of experience in the field—dating back to Hollywood screening-room installations in the 1970s.

M&K engineers have spent well over a decade studying the varied aspects of surround



sound—including encoding and decoding; soundtrack recording; and the differences between reproducing sound in theaters and in homes.

M&K speakers excel in the reproduction of all source material. Accuracy, low coloration, pinpoint imaging, wide dynamic range, and deep-bass reproduction are all critical for music as well as film soundtracks. M&K Satellites and Subwoofers have been acclaimed for these attributes since the '70s.

And this is why M&K knows that any speaker that claims to be optimized for either music or film sound, one at the expense of the other, will never reproduce either one properly.

### M&K Home Theater Systems

Conventional speakers make the music and effects on film soundtracks compressed and dull. But M&K's exciting dynamics and "quick" transients give you precise 3-D imaging and a lifelike presence.

M&K Satellites are *timbre-matched*, using virtually identical speaker drivers, crossovers, and frequency response, for a seamless 360° surround-sound performance. With an all-M&K home theater system, voices and effects do not change char-

acter when their sound moves from left to right or front to back in your room.

Even if you are just adding an M&K subwoofer, front/center, or surround



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speaker to your present system, M&K's unique timbre controls allow you to "fine-tune" the sound of your new M&K speakers to achieve the closest possi-

ble timbre-match with your existing speakers—even if they are not M&Ks.

### M&K Center Channel Speakers

Beware of inexpensive "center channel" speakers. In Pro-Logic, the center channel speaker is driven the hardest, and often reproduces as much sound as the left and right speakers combined.



Each one of M&K's six individually-available Satellites has exceptional dynamic range and high output to meet and exceed the tremendous demands of the center channel.

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M&K's innovative Push-Pull Dual Driver subwoofers deliver a major improvement by virtually eliminating even-order harmonic distortion, and doubling efficiency (same as doubling amplifier power) with four times the output of single driver subwoofers.



Whether you choose our state-of-the-art Home THX® Audio speaker system, an add-on set of surround speakers, or anything in between, no other speakers will give you the exciting performance, sound quality, flexibility and compatibility of M&K's home theater component speakers.

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Throughout the audio world, M&K Sound is synonymous with high performance Satellite and Powered Subwoofer speaker systems. And while other manufacturers are discovering the substantial advantages of this concept, we are applying fifteen-plus years of loudspeaker design and audiophile recording experience to create a new, fifth generation of innovative products.

Think of these as *component* speakers — speakers with the flexibility to adapt to *any* listening environment, especially that of the multi-channel Surround Sound system. Although compact in size, M&K Satellites actually outperform large conventional speakers — and M&K Powered Subwoofers give you the universally recognized superiority of a separate subwoofer for the ultimate in bass performance.

With mid and high frequency drivers mounted in optimally shaped enclosures, M&K Satellites deliver sharp detail and clarity with pinpoint imaging — going far beyond the “boxy” and “canned” sound of conventional speakers. Our precise driver alignment and unique crossover design insure that sounds reproduced by both drivers reach you simultaneously — giving M&K Satellites the rare ability to produce the sharp transients and presence of live musical instruments. *Close your eyes and the speakers seem to disappear — the sound is live!*

M&K's component speaker concept perfectly meets the sonic and aesthetic needs of the '90s. And our newest innovations are advancing audio/video system performance with pedestal subwoofers, high-performance center channel and other speakers optimized for Dolby Surround Sound.

No other company has over fifteen years of experience in the design and manufacture of Satellites and Subwoofers. This experience, combined with the audio industry's only six Satellite, eight Subwoofer line makes M&K “the only choice.”

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### DCC Development

Philips is making several moves to accelerate DCC's sluggish initial sales. Prices of first-generation DCC products are being reduced, while new home—and professional—DCC units reach the market. Improvements in the new home products will include 18-bit D/A sections (for which 18-bit DCC recordings will be available), the ability to title home recordings, microphone inputs, and faster track access. At CES, Philips also showed a DCC deck that could record analog cassettes (other DCC machines can only play analog tapes), but only as part of a shelf system. A full-sized analog/digital deck is, however, part of the larger Philips DCC



line being sold in Europe, which now includes more than a dozen models.

On the professional side, Philips is bringing in a DCC "cart" recorder, for radio-station use in recording and fast-cued playback of commercials and other material. (Sony and Denon have already announced MiniDisc cart machines.) A DCC workstation for use with a personal computer has also been announced; it will permit editing with 8-mS accuracy, and its PASC encoding system will allow storage of about two hours of audio on a 350-megabyte hard drive.

However, those who've heard the early AC-3 demonstrations by Dolby and Pioneer are not all favorably impressed. *Stereophile* magazine recently called for a slowdown in the move to a new Standard, saying no data-reduction system should be adopted for LaserDiscs before it has been fully evaluated for audio quality. A Dolby

spokesman has admitted that the demos given so far were not representative of what the system would sound like by the time it's introduced officially, in 1995. And Digital Theater Systems (DTS) says Dolby's system is fine, but DTS's rival digital encoding scheme (also being pitched for LaserDisc as well as theater use) is better.

### Brief Notes Brief Notes Brief Notes Brief Notes Brief Notes Brief Notes Brief Notes

- Recoton is planning to market wireless headphones with noise cancellation. Just the thing for when your neighbor starts his mower while you're listening in your back yard.

- In Japan, JVC has announced "3D-Phonic," an encoding system said to produce 360° sound from ordinary stereo speakers. Music CDs using the system are already on the market, but the system may also be used for video games.

- The Summer Consumer Electronics Show, now renamed "CES Interactive" and moved from Chicago to Philadelphia, may face a snag. The Interactive Digital Software Association is endorsing a competing show, the Electronic Entertainment Expo, to run in Los Angeles on the same dates next May. Nevertheless, several major companies (including Thomson, Microsoft, Time Warner Interac-

five, Toshiba, and WordPerfect) have signed up for the Philadelphia show.

- While Americans complain about the price of CDs, people in other countries pay still more. As a result, people overseas buy fewer discs. In the U.K., for example, though about the same percentage of families have CD players, the average CD-buying family has about half as many CDs as its U.S. equivalent. Last year, this prompted Britain's House of Commons to condemn the music industry for overcharging. Now, however, Britain's Monopolies and Mergers Commission has found that much of the apparent difference is due to tax, and that other leisure goods show similar price differences between the U.S. and U.K. British paperback books, for example, often carry such pricing as "\$4.95 in the U.S.; £4.95 in Great Britain."

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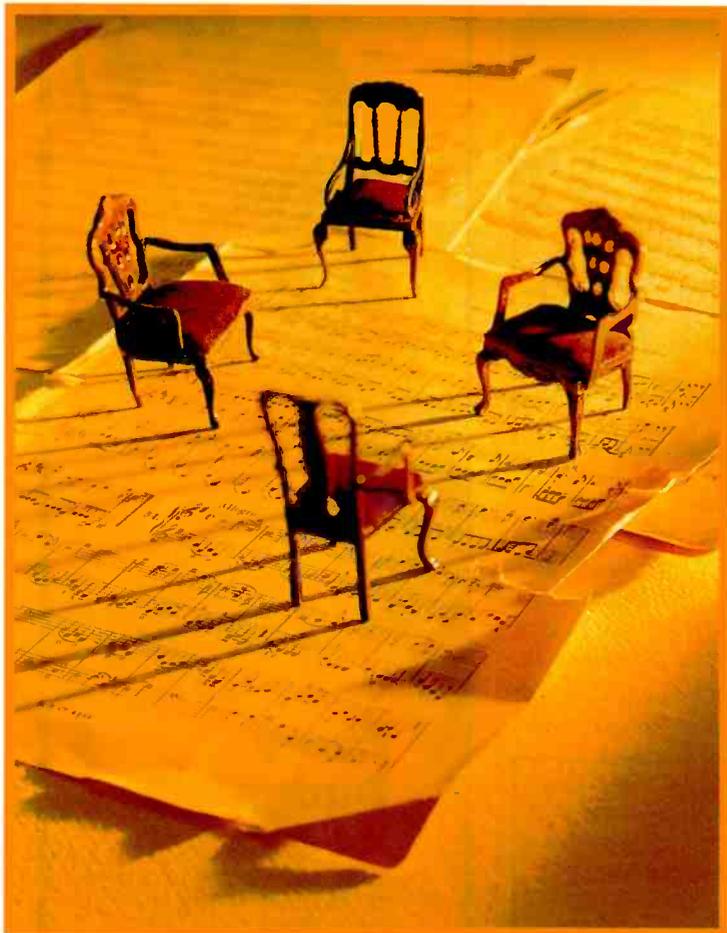
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# CLASSICAL RECORDINGS

## beethoven quartets

Photograph: Robert Lewis



Quartet hang out? Perhaps, like a quartet of quantum electrons, in some probability space, any old where from Hong Kong to L.A.!

Nevertheless, this is an excellent recording. The present volume contains the very first of his quartets, and the biggest of the famous Last Five, which, believe it or not, were so revolutionary that even unto my day, in the 1930s, a century after Beethoven, they were considered incomprehensible. Of course, when I heard them, as a student, they made

absolutely wonderful sense! So it is with each succeeding generation.

It is safe to say that the string quartet has been the very essence and preservative of Western musical tradition in these last couple of centuries. Here are four players who no doubt were babies when I first heard Beethoven on 78s as played by the oncedominant Budapest Quartet, the first group to bring us the great quartet literature in listenable audio. And yet, so much of the Budapest's strengths reappear here, after a lifetime has passed! The tradition among string players persists over time, almost unbelievably. Can't we realize that our present life is 99% tradition, passed on beyond present life?

These players really understand. They have their Beethoven superbly in hand, enthusiastically, intelligently, with immense drama in all the right places. The still quirky and humorous early Beethoven in the Opus 18 music (he could still hear) is nicely balanced against the already gruff and bearish growlings of the young composer. And the extraordinarily complex Opus 131, seven continuous movements full of what were astonishing innovations at the time—and remained so for a century—does not faze these players at all. A full bodied, understanding performance here too.

**Beethoven: The Complete Quartets.**  
**Vol. VI, Op. 18 No. 3; Op. 131**  
*Orford String Quartet*  
DELOS DE 3036, CD; 66:56.

Talk about international! This Volume VI of a complete set was recorded in Emmanuel Presbyterian Church. Where might that be? Doesn't say. But the music was taken down in Canada, so might we infer Toronto? The familiar engineering team of Marc Aubort and Joanna Nickrenz is from New York. The office of the record company is on North Vine Street, Hollywood. Where, then, does the Orford String



**Les Intermédiales de Jacqueline Du Pré Solo and Orchestral Works by Various Composers**  
*Jacqueline Du Pré, cello;*  
*Gerald Moore, Ernest Lush, Stephen Bishop,*  
*Daniel Barenboim, piano; various orchestras;*  
*Sir John Barbirolli, Sir Malcolm Sargent,*  
*Daniel Barenboim, conductors*  
EMI CLASSICS 5 68132 2, six CDs;  
ADD; seven hours, 30 minutes

This lavish six-CD boxed set brings together the important performances from the tragically short recording career of the radiant cellist Jacqueline Du Pré—1961 through 1970. She seemed born to the cello from the time she first touched the instrument at age five, and died at the age of 42—debilitated by multiple sclerosis.

The reissues illustrate the wide range of her repertory, though Du Pré generally eschewed contemporary music. The Elgar concerto is most identified with her, and the Beethoven and Handel sonatas are standouts. Her tone is not as rich and singing as Casals' or Starker's but expresses great depth of feeling; Du Pré played like a soul possessed, and this is the heritage she left us. *John Sunier*



The Orford Quartet plays in the essence of pure live-music tradition: They seem to know nothing of microphones and such but simply render Beethoven as they conceive it, live. That is an engineering problem for Marc A. and Joanna N., who have coped with it a hundred times before. Well done, and so you will notice only a tendency to lunge, to surge, suddenly loud and soft, which is hard for the mikes but well controlled.

Edward Tatnall Canby

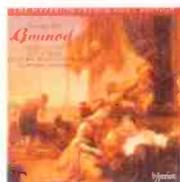
### Songs by Gounod

Felicity Lott, Ann Murray, and Anthony Rolfe Johnson vocalists;  
Graham Johnson, piano

HYPERION CDA66801/2, two CDs; 2:16:20

It's a pity Gounod wrote *Faust*, since it seems to have eclipsed everything else he

did, even his deliciously poised songs. This addition to Hyperion's French Song Edition, replete with Graham Johnson's scholarly but utterly readable notes, will thus be for many listeners a worthy introduction to a musical *terra incognita*. Fortunately, Johnson is as fine an accompanist as he is an annotator, and all three of his singers are both expert and convincing. Others (notably Gérard Souzay) may have sung individual songs more sumptuously, but the standard here is certainly high. The



songs on the first disc all were written in France and include all of his best (and best loved—even the Bach-based "Ave Maria"). The second mines his English period (1870 to 1873) and includes a song cycle in Italian

## IF THESE BE SINS

### Songs of Rossini

Arleen Auger, Jennifer Lamore, John Aler, and Steven Kimbrough vocalists; Dalton Baldwin, piano  
ARABESQUE Z6623, CD; 77:48

This would be an exceptionally satisfying recording even if it were not so well done and even if it were not a memento of the late and sorely missed Arleen Auger. She heads a mixed quartet that, with



Baldwin's stylish and sensitive accompaniment, performs everything from the quartetto "La Passegiata" to

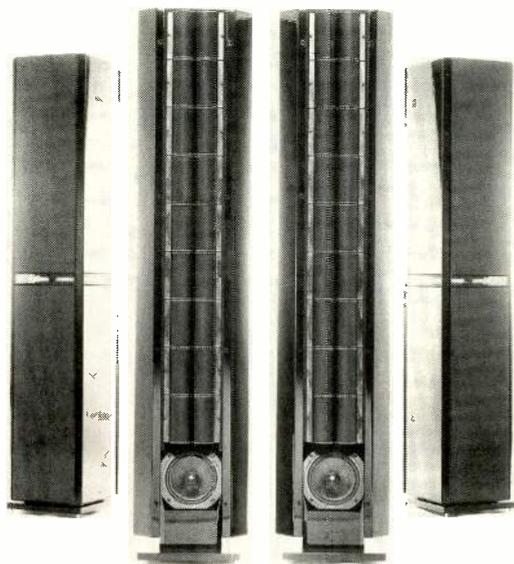
the piano-solo introduction to *Musique Anodine* (six settings of Metastasio's *Mi Lagnerò Tacendo*). All are late Rossini (well, all but one) and almost all are from the famous but all too infrequently performed collection known as "Sins of Old Age." Sins, indeed! If these be sins, virtues are for the gods alone.

Almost all the music was written for performance at Rossini's celebrated Saturday soirées—musically, the most brilliant in mid-19th-century Paris.

Even the young Wagner wangled an invitation to pay grudging court to the maestro. This recording catches precisely the feeling he might have encountered: Highly dramatic, witty music expertly performed with zest and panache in an intimate though suitably resonant aural ambience. Therein lies the unity of concept that makes the recording so satisfying. At the same time, the variety of voice and language and musical thrust keeps it from ever dropping into routine. Kimbrough's baritone may sound a mite wooly in this glorious company, but never mind: It's a thoroughly cherishable disc. Texts and translations are supplied.

Robert Long





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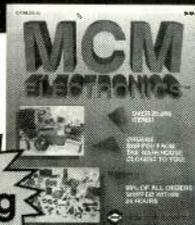
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as well as a clutch of relative rarities with their original English texts. All in all, a more-than-welcome addition to the vocal catalog.

Robert Long

### Ottorino Respighi: Piano Concerto in A Minor; Concerto in Mixolydian Mode

Geoffrey Tozer, piano; BBC Philharmonic,  
Edward Downes

CHANDOS CHAN 9285, CD; DDD; 64:53

Dating from the young Italian's three years as first violist in the Russian Imperial Orchestra, the single-movement concerto pays tribute not only to the two famous piano concertos in the same key—Grieg and Schumann—but also to just about every musical tradition of late 19th century Germany and Russia. It shows Respighi's fine ear for mood and color beyond virtuosity.

The other concerto comes from the height of Ottorino Respighi's popularity, when Toscanini premiered the latest of the "Roman" tone poems. Though Respighi



felt it would be the most famous of his works, this concerto, based on a medieval church mode, never caught on with audiences. Though

the music may be nostalgic, neither the performances nor Chandos' rich sonics sound dated.

John Sunier

### Paul Schoenfield: Four Parables; Vaudeville; Klezmer Rondos

Wolfgang Gasch, piccolo trumpet;  
Carol Wincenc, flute; Jeffrey Kahane, piano;  
The New World Symphony, John Nelson

ARGO 440 212-2, CD; DDD; 71:53

This brash young composer is part of a growing group inspired by the broadest musical spectrum imaginable—pop (both foreign and American), folk, jazz, and more traditional classical music of the past.

For example, "Vaudeville" (a concerto for piccolo trumpet and orchestra) is Schoenfield's homage to Robert Schumann's piano suite "Carnaval." He mixes the sounds and moods of vaudeville theater with Eastern European klezmer music, a clown routine and even the Brazilian folk song "Tico-Tico."

The Four Parables are based on life encounters the composer had. The finale,

AUDIO/OCTOBER 1994

56

Dog Heaven, is a sprightly fantasy about “a jazz club in a place where the streets are lined with bones and there is a hydrant on every corner.” Schoenfield’s music is so wild, raucous, and unexpected (though generally tonal) that one may berate oneself having so much fun hearing it! It’s also written for, and recorded with, often astonishing variations of frequency and dynamic range.



*John Sumier*

**Sierra: A Joyous Overture; Tropicalia; Idilio; SASIMA, and Preámbulo**

*Milwaukee Symphony Orchestra and Chorus, Zdenek Macal*  
 KOSS CLASSICS KC-1021, CD;  
 DDD; 55:23

Contemporary Puerto Rican composer Roberto Sierra was the Milwaukee Symphony’s composer-in-residence for three seasons, so these works are not just a read-through for the performers. He molds Caribbean and Latin American folk

music into traditional symphonic form, making an exciting and very accessible musical language.

The Joyous Overture refers to two recognizable phrases from Beethoven’s Ninth Symphony—thus the “joyous” connection. “Tropicalia” is in three movements exploring magical and sensual aspects of the Caribbean: Foliage (a weaving of tangled melodic and rhythmic patterns), Nocturne (tree frogs



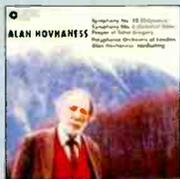
**ROBERTO SIERRA MOLDS CARIBBEAN AND LATIN AMERICAN FOLK MUSIC INTO TRADITIONAL SYMPHONIC FORM.**

and fireflies inspire this dream-like section), and Celebration (a colorful dance feeling). “Idilio” recreates a primal rain forest with a wordless chorus, and in the

**Hovhaness: Symphony No. 25, “Odysseus”; Symphony no. 6, “Celestial Gate”; Prayer of St. Gregory**

*Polyphonia Orchestra, Alan Hovhaness*  
 CRYSTAL CD 807, CD; 60:02

Crystal Records has taken on an interesting project in its growing Hovhaness series, some reissued from 1970s LP, others new. Hovhaness is decidedly at his best in orchestral music, such as is heard on this recording (also a number of others similar). The sound, emphatically, makes good audio; it’s ideal for recording, sumptuous in the reproduction. Thus he is one of our own most important “classical” composers, for our own special audio reasons.



In the monochrome piano form, as per my unenthusiastic review in the October 1993 issue, the stylistic mishmash of his material is accentuated, minus the arresting colors and moods of his unique orchestral sound. Hovhaness is not exactly modest—he has written in every medium you can

imagine, and often with the same mixed effect, even garishly so. But he remains a strong composer, and the strength comes out in his orchestral and similar works—works for brass, for instance.

Such a bundle of paradoxes! Always a mystical sound, composed to thought, stories, and legends from exotic sources including the composer’s own fervid imagination. And always the standard Western instruments out of his home territory, Massachusetts. Thus for the “Odysseus” Symphony, he says, “Since I was nine years old I have had a tremendous love for Homer’s Odyssey. This work opened great vistas to me...the sensation of traveling great distances out into the universe or through strange mountainous countries on what seemed like bridges of gossamer threads.” Out of this, a symphony, no less. And with “characters” too, the adventurous Odysseus and his stay-at-home spouse Penelope, easily heard as a flute solo and close-harmony strings! In Hovhaness, far-flying thoughts turn into highly performable sounds. *Edward Tatnall Canby*



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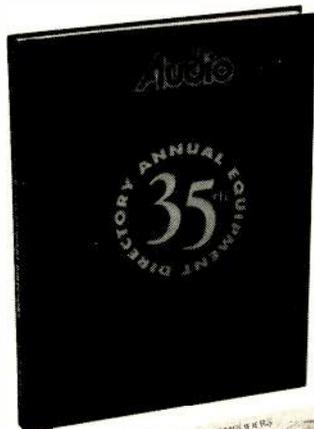


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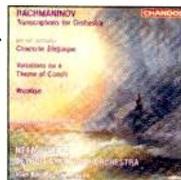
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**Sergei Rachmaninoff: Concerto  
Elégiaque for Piano and Orchestra in D  
Minor; Variations on a Theme of Corelli;  
Vocalise**

*Alan Kogosowski, piano, Detroit Symphony  
Orchestra, Neeme Järvi*  
CHANDOS 9261, CD; DDD; 68:44

Both major works here are very recent orchestrations of Rachmaninoff's originals and both are world premier recordings. The piano concerto comes from Rachmaninoff's Trio Elégiaque, which the composer revised more than once but failed to solve the fact that it burst the bounds of chamber music form. Alan Kogosowski has remedied that with this spectacular orchestration, in which he then performs the solo part. An early work, it shows many of Rachmaninoff's hallmarks: Orthodox chants, ringing bells, Russian folk melodies.



The Corelli Variations was originally a solo piano piece, not influenced specifically by that Baroque composer so much as by the main theme, the ancient melody "La Folia." This piece presaged Rachmaninoff's great Rhapsody on a Theme of Paganini. Corneliu Dumbraveanu, a Rumanian conductor, has fashioned a stimulating orchestral work from the piano original, and the combination of Järvi's expert forces and rich recorded sonics make for a synergistic success. The Vocalise encore is arranged for orchestra alone from the soprano with orchestra original. *John Sunier*

**Schubert Songs for Male Chorus**

*Robert Shaw Chamber Singers, Shaw*  
TELARC CD 80340, CD; 62:22

For those who associate Robert Shaw with legions of large-scale choral recordings on Telarc, this wonderfully modest and dedicated male group of his, singing Schubert, is a rare surprise, though Shaw has staged some of these works on and off

### Berlioz: *Lélio*: The Return to Life

Glenn Siebert, tenor; William Diana, baritone; Werner Klemperer, narrator; Milwaukee Symphony Orchestra and Chorus, Zdenek Macal, conductor  
KOSS CLASSICS KC-1017, CD; DDD;  
51:56

"*Lélio*" is the seldom-performed second half of Hector Berlioz' massive "An Episode in the Life of an Artist," of which the popular *Symphonie Fantastique* is the first half. No wonder it's not performed much; this work has some lovely Berlioz music in it but much of it is a mad prose tirade that to today's audiences—separated by more than a century and a half from the sensibilities of the Romantic period—seems almost laughable.

The Milwaukee forces put everything they've got into this odd duck, sonics are excellent, and it's a welcome addition to the catalog. But I'm glad I needn't sit all the way through it in a concert hall. A primary attraction of this recording is that in previous versions the narration was in French. The English presented here is a commendable improvement in communication, at least to me. The solo and choral selections are still in French—including the Goethe lyrics and Shakespearian material from *The Tempest*—but Koss has thoughtfully provided good translations.

John Sunier

during his long career. Those who have discovered the eternal magic of the composer—once trapped you're in for life—will find the recording an unexpected pleasure, perhaps into new and unexpected Schubertian territory. (In the playing I was knocked over by several songs I ran across that I had conducted or sung myself years back. They really grab you, these pieces, like so much else by the composer.)

There are unusual problems in "staging" this music. The tenor lines, both chorus and solo, are extraordinarily high, requiring, in effect, all countertenors. In addition, I might note, Schubert's standard

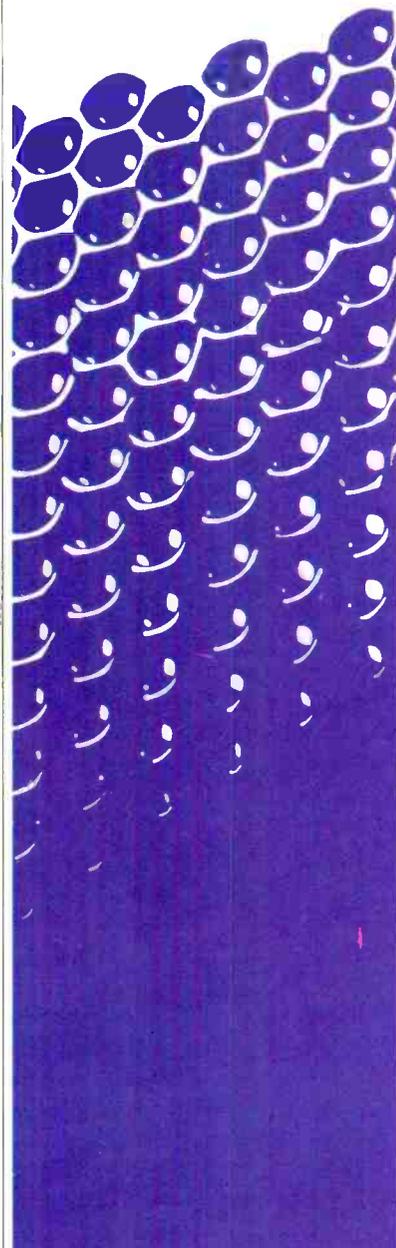
pitch was sensibly below ours of A 440, which jacks the music even higher. The composer had sung as a boy in what became the still existing Vienna Choir Boys (the Imperial Choir) and this could have had to do with the high tessitura, the musical altitude, available from the singers who performed with him. Today's countertenor sound, a type of singing that reappeared only a few decades ago, is mainly centered on much earlier music (with a style that may or may not be that of older times!) and so seems vaguely out of place in this more recent Romantic idiom, the early 19th century. At least as we hear it. The main soloist, Karl Dent, is a *countertenor*, not a standard 20th century tenor, and this may bother a few listeners. Other than that he is excellent, as are two other soloists, another (high) tenor and a mezzo-soprano (a "middle" soprano). Modest accompaniments, guitar or piano, go with some of the song; others are unaccompanied.

The works, all very Schubert, nevertheless range over a lot of Romantic territory from simple ditties to lengthy works with many verses, elaborate (and difficult) harmonies in the most profound Schubertian mode. If only there were more flexibility in rhythm and tempos! It's all too much alike.

The smaller the group, the less the conductor has to do. This highly expressive group could easily sing without one. Shaw's role here, aside from his enterprise in organizing and rehearsing the music, is somewhat negative. He prefers very slow tempos, all the same throughout; or fast in a sort of dog trot—the more sprightly pieces jog rather than dance as they should. Not flexible. It is the singers who keep things moving and responsive to the composer. Shaw could also have done more to untemper the odd Schubert harmonies, which typically sound slightly out of tune when unaccompanied. They can be retuned, each of them, if the singers understand the demands of tempered pitch and Schubert's piano-oriented mind. No signs of that here, though it makes only a micro-difference, to be sure.

As you listen, remember that the Schubert disease is slow to infect. Give him time! You won't regret it.

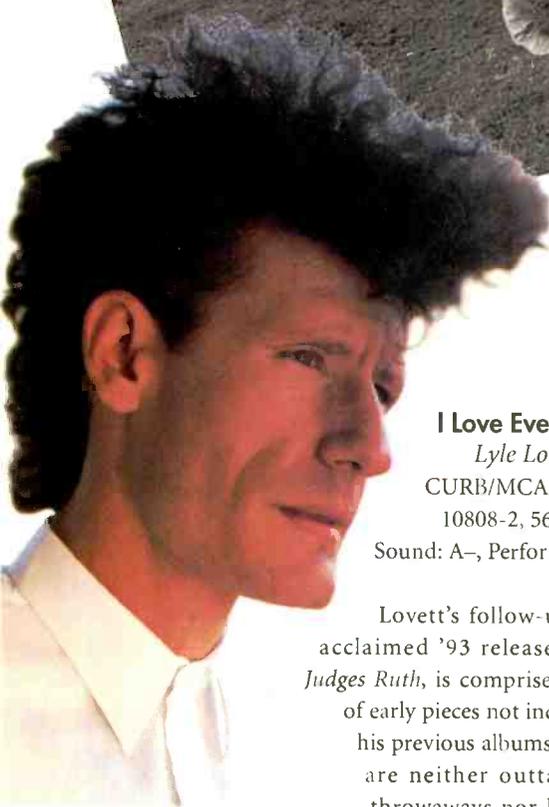
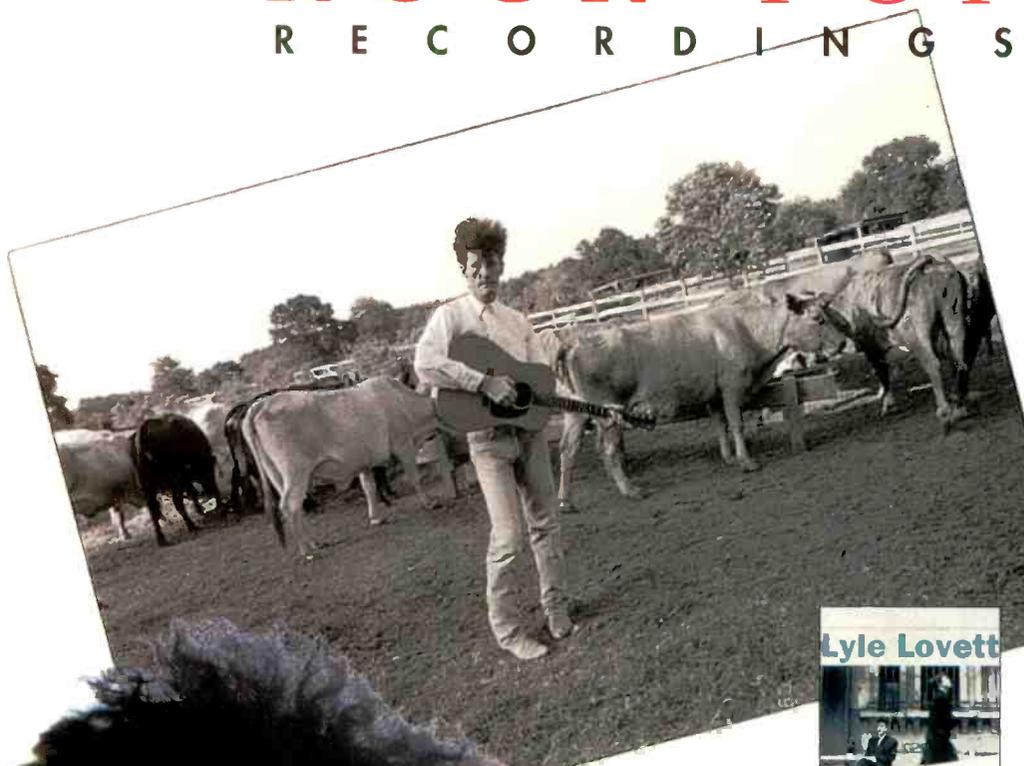
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# ROCK ~ POP RECORDINGS



Photographs: David Gahr

## I Love Everybody

Lyle Lovett

CURB/MCA MCAD

10808-2, 56:48

Sound: A-, Performance: A

Lovett's follow-up to his acclaimed '93 release, *Joshua Judges Ruth*, is comprised mostly of early pieces not included on his previous albums. Yet they are neither outtakes nor throwaways nor leftovers. All of *I Love Everybody* is newly recorded with sparse instrumentation. Lovett's Large Band is on hold while a live album—already in the can—awaits release.

*I Love Everybody* is laced with Lovett's dark, sardonic humor in songs mostly about goofy little geeks who have problems fitting in. One caveat: Do not attempt to read much

autobiography into very many of these. One of Lovett's greatest strengths has always been writing from a character's point of view, much as Randy Newman has always done. Thus he can shed some sympathetic light on some strange and initially repellent people. There's the guy in "Creeps Like Me," who keeps his Uncle Leon in the closet while he sports his late grandmother's ring. And the guy in "Hello Grandma" who dials a number from his little black book only to find the girl long gone and married to a successful fellow in Chicago. And the pathetic wretch who just knows he'd be a sex bomb if he had "Skinny Legs."

But Lovett has some sweetly tender songs too, like "LA To The Left," "Old Friend," "Just the Morning," and "Moon on My Shoulder"—all of them songs of great empathy, sincerity, and caring. With them, he demonstrates his surgeon's touch as a storyteller, cutting to the core of his characters.

The arrangements are mostly spare and lean, with occasional

string arrangements that expand upon the cello and violin parts of John Hagen and Mark O'Connor. Lovett plays all the guitars with a skill that could go unnoticed. Other key players are Russ Kunkel, who drums on all save for the funk-gooof "Penguins," which features Kenny Aronoff. Bassist John Leftwich often uses an upright to telling effect. Rickie Lee Jones is noticeably present among the backing voices for "Fat Babies" and the finale "I Love Everybody."

As always, *I Love Everybody* will confound those who need to pigeonhole Lyle Lovett. It's not country but it has country elements, as well as blues, art song, and, in "Penguins," funk. Though a hit single is difficult to imagine, end to end this album has a level of excellence that's very rewarding. Lovett fans will have to have it, and it may be a good jumping-in spot for others. *Michael Tearson*

## Hot Boxing

Magnapop

PRIORITY P2 53909, 41:35

**R**uthie Morris' full-throttle guitars and Linda Hopper's assured yet sexy vocals make Magnapop's second album a blast of sonic pop. This Athens, Ga. outfit successfully combines the underlying aggression of hardcore punk ("Free Mud," "Ride," "Get It Right,") with an acute knack for melody ("Slowly, Slowly," "Texas," and "Skin Burns").



*Hot Boxing's* truly strident moments, as in "Lay It Down" and "Ride," exude a sense of semi-controlled chaos with the guitars. Perhaps it's a nod to Bob Mould, who produced the album, and his keen sense of dynamics. While material gets a bit similar from track to track, this sophomore effort is solid and by no means a slump. *Tom Ferguson*

# VOODOO LOUNGE ROLLING STONES

VIRGIN 39782-2, 62:10



**T**he first Stones album under their new Virgin Records deal is a winner, easily their best and most compelling album since 1978's *Some Girls*. Considering the spotty nature of their output since then, this could be taken as faint praise.

But it's not meant to be. *Voodoo Lounge* has a lean, hungry sound and feel that must, at least partially, be attributed to co-producer Don Was, who always seems to bring out the best in whatever artists he works with.

Some songs have a familiarity built in. "Love is Strong" rephrases the melody of "Gimme Shelter." "You Got Me Rocking" sounds like the verse of "Brown Sugar" with the chorus of "When the Whip Comes Down." "New Faces" seems to wed the harpsichord of "Lady Jane" with (of all things) The Eagles' "New Kid In Town." "Sweethearts Together," featuring Flaco Jimenez on button accordion is like a Tex-Mex take on

"Dead Flowers." And despite these echoes of past glories, *Voodoo Lounge* still sounds fresh and vibrant.

Old war horses they may be, but *Voodoo Lounge* proves that life still remains in the Stones. It's evident in their experimentation with new sounds like Flaco's accordion, Frankie Gavin's Irish fiddle in "The Worst,"



and Mark Isham's trumpet on several cuts. These new songs, while delivered in a familiar vocabulary, are imbued with a fresh slant. Most importantly, everything (album, band, songs) sounds like vintage

Rolling Stones—often imitated yet never duplicated.

Michael Tearson

## Harbinger

Paula Cole

IMAGO 72787-21018-2, 58:20

Paula Cole writes detailed songs of life's exigencies; of mothers who got trapped in family life before they found their own lives, or of young girls who retreat to fantasy worlds to escape their pain and loneliness.



Cole follows the confessional/psychoanalytic path of Tori Amos, among others. She takes us back to schoolyard

jeers on "Bethlehem," contrasting her hometown of Rockport, Mass. against the birthplace of Christ. And she extolls the strength of her mother on "Happy Home" and "Watch the Woman's Hands," with a muscular music and moments of redemption and courage.

Musically, *Harbinger* is inventive, with mock beat-box rhythms and the morphing guitar backings of Gerry Leonard and Kevin Barry, along with production by Kevin Killen lending texture and depth. Her social commentary on "Hitler's Brothers" and "Our Revenge" is heartfelt but sounds like simple sloganeering next to her more personal

revelations like the date-rape of "She Can't Feel Anything Anymore," or the tale of cross-racial love on "Chiaroscuro."

Ultimately, it's Cole's singing—a powerful voice with some subtle twists and leaps—that drives her songs home.

John Diliberto

## King of California

Dave Alvin

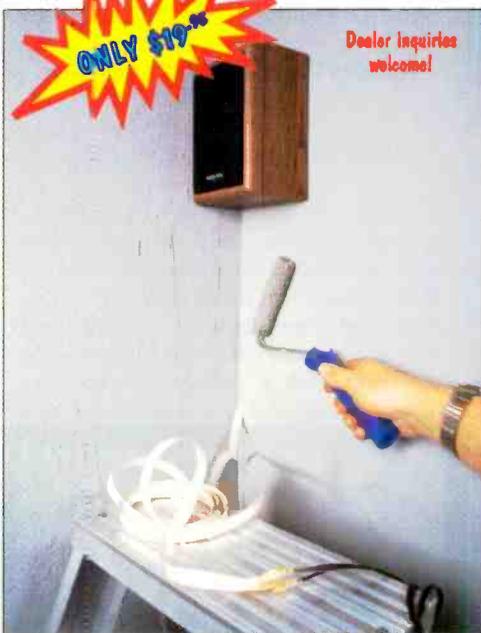
HIGHTONE HCD 8054, 54:57

The former Blasters guitarist and songwriter turns in a low-key acoustic affair for his fourth solo recording. This approach gives his gruff vocals room for comfort, allowing him to really caress the lyrics for the first time on record, thus making *King of California* his best solo work.

Included with a batch of new tunes—particularly the standout title track—are some old ones too, such as Blasters favorite "Border Radio" (the second time Alvin has done this one solo) and "Every Night About This Time," and some good covers as well, such as Memphis Slim's "Mother Earth," Tom Russell's "Blue Wing," Whistlin' Alex



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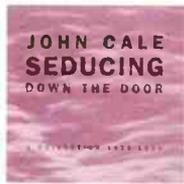
*John Cale*

RHINO R2 71685, TWO CDS, 2:34:00

Before co-founding the Velvet Underground, Cale tested the avant-garde waters with minimalists like John Cage and La Monte Young. And following his Velvet Underground tenure, he began a multifaceted solo career. Post-modern classicist, romantic poet, gritty rock 'n' roller, and violent con-

frontational thrasher, Cale is all of these and more—often several at once.

The 38 selections here date from 1970 to 1990, and they paint a rich picture of a restless artist who always was driving to the limit. Though his settings range from orchestral to soft art-pop to abrasive, full-throttle rock-out, Cale's vision is the unifying factor. Never as popular or as high profile as fellow Velvet Underground mate Lou Reed, John Cale remains at least as valuable and important. This retrospective of his



music gives an excellent and generous overview. Also recommended is Reprise's recent reissue of *Paris 1919*, Cale's masterwork. *Michael Tearson*

**Plugged In**

*Dave Edmunds*

PYRAMID/RHINO PRCS 71770, 42:35

With *Plugged In*, the major attraction here is that Edmunds is playing every instrument, which means that there's plenty of his first-class guitar work. And he delivers a song like "Standing at the Crossroads"—one of his best performances ever—in a way that'll have you thinking he's one of the all-time greatest rock artists on the planet. Yet much of this album may also convince you that he's just merely a hack. Some songs simply aren't up to snuff and the drum machine is on auto pilot. Although one half of this album redeems the other half, Edmunds needs to strike back with an entire album of great songs, not just a few, and he's definitely capable of this. C'mon Edmunds, you can do it! *Jon & Sally Tiven*



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*The Future Sound of London*  
ASTRALWERKS/CAROLINE ASW 6113 2,  
two CDs; 1:32:33

The Future Sound of London does something that many ambient electronic bands don't. They create structure and melodies, tension and release, and theme and variation. Unlike the often random collages of The Orb, who sound like they've inserted a shuffle-play mode into their samplers, F.S.O.L revels in controlled juxtapositions and sudden shifts of contrasts and spacing.

I'm not sure that anything on this album is actually played. It all seems comprised of lifts from discs by Klaus Schulze, Robert Fripp, King Crimson, Herbie Hancock, and other sources. But F.S.O.L creates a techno-organic whole out of these electronic scribbles, plucked acoustic guitars, and ethereal voices,





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marrying them to insistent but never oppressive rhythms. Their excursions pick you up here and drop you off somewhere else, where you wait for the next ship to pull out for destinations unknown. This is the station stop that Pink Floyd passed by while rocketing from *Meddle* to *Dark Side of the Moon*.

John Diliberto

### Bewitched

Luna

ELEKTRA 61617-2, 45:24

Luna's shimmering pastiche is largely based on simple but melodic riffs reminiscent of Velvet Underground and early Grateful Dead. It's a reference that served guitarist/vocalist/lyricist Dean Wareham well during his tenure with the Boston outfit, Galaxy 500.

On Luna's second record, chiming and dynamic guitars—occasionally offset with cheezoid distortion—dominate the edges of the mix. And Wareham's laconic vocals, which cross Pearls Before Swine with Jerry Garcia using Dead-like harmonies, while lacing Kerouac-ian songs of the road and cheap motels with a gift for off-beat narrative a la Lou Reed. Despite generous



allusions to the past, Luna still manages to sound fresh; the darker side of the '60s as an them for the X Generation. Former Velvet Underground guitarist Sterling Morrison guests on two tracks.

Michael Wright

### Arborescence

Ozric Tentacles

I.R.S. 7243 8 29486 29, 49:18

They've been called throwbacks to another psychedelic era. Really, though, Ozric Tentacles come from the post-psychedelic space-music continuum populated by groups such as Gong, Hawkwind, Among Duul II, and Can. After some 14 records released independently (and successfully) in their native Britian, Ozric Tentacles remains a merging of space music with high-energy fusion in which blistering, morphing guitar solos, tricky time signatures, modal themes, and gurgling, whooshing synthesizer scrawls result from a crazed virtuosity.

Part of the Ozric charm is that technologically, they never look past 1978 with their analog synthesizer arsenal. They've picked up where Gong and Steve Hillage left off around 1976, adding a bit of Reggae-dub sensibility



(itself a psychedelic aesthetic) and mock Persian dervishness. A heady brew in every sense of the word.

John Diliberto

### Anthology

P.F. Sloan

ONE WAY/MCA MCAD-22097, 53:15

The P.F. Sloan cult has only grown since the days when folk-rock ruled, and *Anthology* finally makes songs like "The Sins of a Family," "Let Me Be," and the classic "Eve of Destruction" available in their auteur versions. Although the arrangements were a bit light even in their day, Sloan's songs and vocal performances have only gained a wider appreciation in the nearly three decades intervening. With 18 songs and almost an hour of music, this is quite a bargain, and those who search the racks for the new Dylan might be well-advised to go no further. Philip Sloan ranks as one of the great songwriters of all time. The only criticisms are that three of Sloan's best songs—"I Get Out of Breath," "From a Distance," and "When the Wind Changes" are excluded, and the liner notes could be considerably more extensive considering this guy's history.



Jon & Sally Tiven

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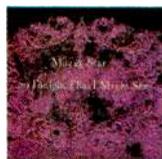
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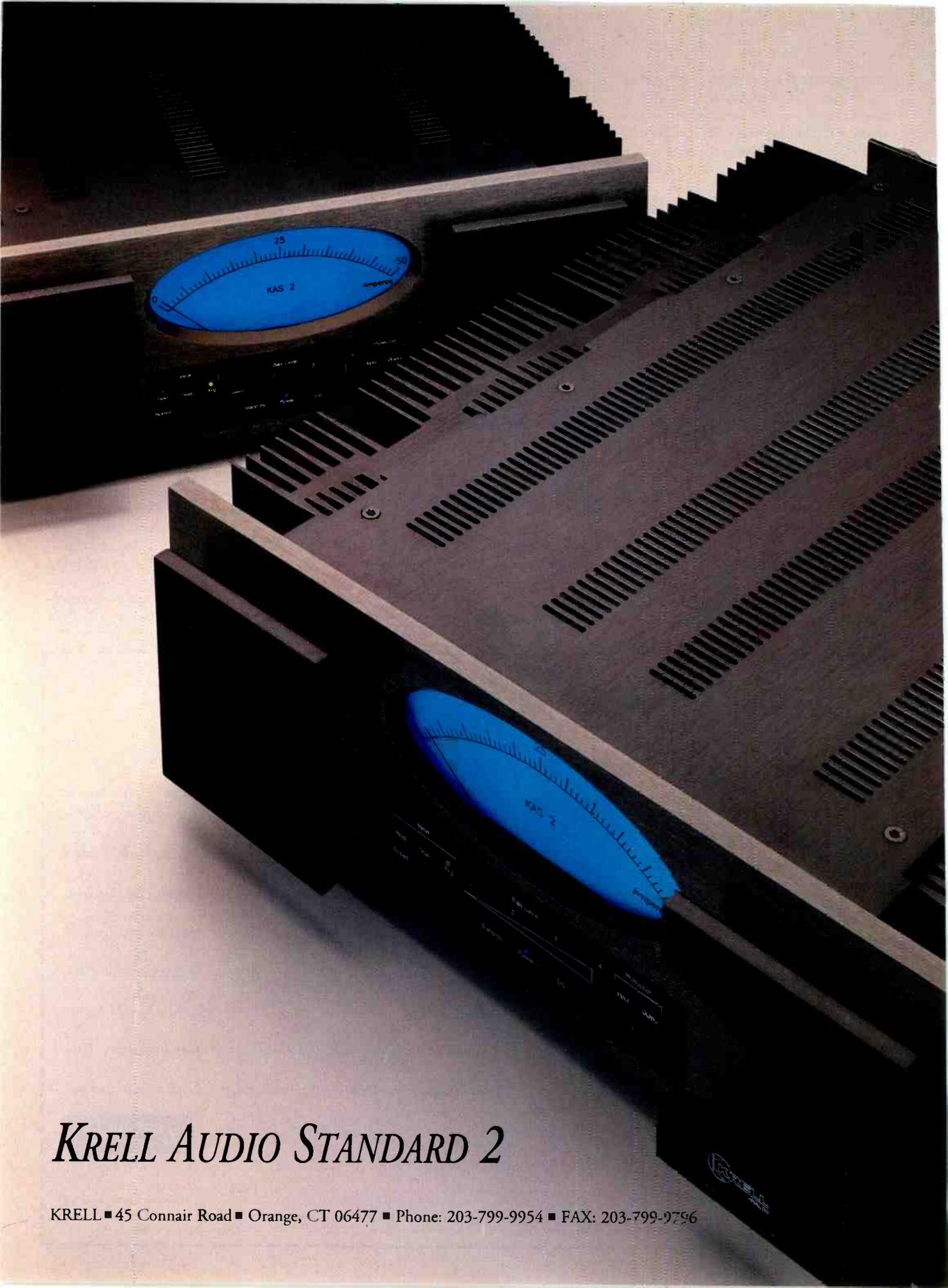
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# AUTOMATIC

Channel Light Vessel  
GYROSCOPE/CAROLINE GYR  
6607, 40:57

The members of Channel Light Vessel are Roger Eno (Brian's brother), Bill Nelson, Kate St. John, Laraaji, and cellist Mayumi Tachibana. The group arose from last year's wonderful Eno/St. John album, *The Familiar* (Gyroscope GYR 6601), which Nelson produced. Most of *Automatic* is instrumental, with everybody contributing a diverse sonic assortment that includes zithers and kalimbas, woodwinds, various key-

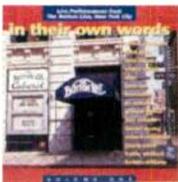
boards, guitars, and a variety of percussion. But three selections feature vocals by Nelson, occasionally with St. John. Most notable of these is the bubbly pop song "Testify" and "Thunderous Accordions," with Nelson growling like vintage Roger Waters. Still, the real grist of this project are instrumentals which are far more insistent than so-called New Age music. They have strong melodicism, intriguing sound designs, and unusual instrumental combinations that compel some very attentive listening. *Automatic* has some real substance, and you should give it a listen.

Michael Tearson



In Their Own Words, Volume 1  
Various Artists  
RAZOR & TIE RT 2813, 69:21

*In Their Own Words* shares its name and premise with a concert series at New York City's famous Bottom Line club. On a particular night, four singer/songwriters take turns singing their songs in an intimate acoustic setting before closing the evening with a round of covers. These are usually lively affairs where surprises can and do occur, and artists are encouraged to join in on the others' selections. This is the first release in Razor & Tie's series of recorded highlights. Some of the best offered here are Dion's "King of the New York Streets," Dave Alvin's Civil War epic "Andersonville," the late Arthur Alexander performing "Anna," a startling acoustic Ric Ocasek doing "Just What I Needed," and Lucinda Williams' tender version of Dylan's "Positively 4th Street." Recording quality is occasionally a bit weak, but the performances easily compensate. Each song is preceded by the artist's own commentary and introduction.



Symphonic Music of The Rolling Stones  
Various Artists  
RCA 09026-62526-2, 52:07

RCA has previously released orchestral adaptation albums of music by various rock

bands, including Jethro Tull (quite good), Genesis (fair at best), Yes and Pink Floyd (both horrendous), and now the Rolling Stones, which is the best of the whole lot. The arrangements are clever and The London Symphony Orchestra excellently supports vocal turns offered by Clanad's Maire Brennan ("As Tears Go By"), Marianne Faithful ("Ruby Tuesday"), some guy named Jagger ("Angie"), and others. About Abdul Al's violin playing on "Paint It Black" delivers a delightful gypsy turn. Several different choruses appear on a few songs with The New London Children's Choir & The London Voices adding great touches to "Sympathy for the Devil" and "Gimme Shelter," while The Ibstock Place School Singers do the same for "Dandelion." Dolby Surround adds yet another dimension to this great recording.



Michael Tearson

## FAST TRACKS

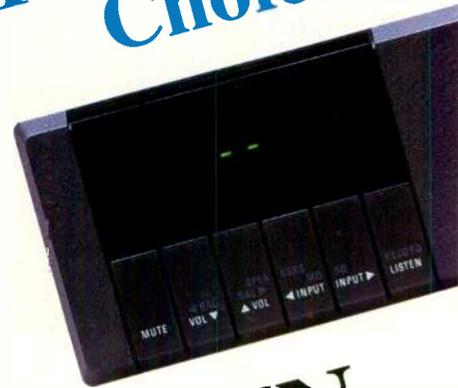
**MTV Unplugged:** Tony Bennett (Columbia CK 66214, 63:12). A fabulous show! Bennett gives an assured bravura performance with support from the very cool Ralph Sharon Trio he's employed for ages. Currently a hot commodity with the younger set, it makes sense that k.d. lang and Elvis Costello join for a pair of swell duets.

M.T.

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ANSWERS: 1-E, 2-D, 3-F

# JAZZ~BLUES RECORDINGS

## GINGER BAKER

### Going Back Home

Ginger Baker Trio

ATLANTIC JAZZ, 82652-2, CD; 45:10

Sound: A, Performance: A

For those who thought that the former Cream drummer was only about slamming backbeats (the kind that producer Bill Laswell relegated him to on 1990's *Horses and Trees* and 1991's *Middle Passage*), guess again. This cat can swing with the looseness, agility, and assuredness of someone like Elvin Jones. Not quite as sly and mercurial as Roy Haynes, perhaps, but swinging nonetheless.

This session harkens way back to Ginger's pre-Cream days in London—circa 1963—with the Graham Bond Organization, when he was swinging on standard jazz fare like Sonny Rollins' "Doxy" and Miles Davis' "So What" alongside his mates Jack Bruce, John McLaughlin, and saxophonist Bond.

The lineup here—Baker on drums, Charlie Haden on bass, and Bill Frisell on guitar—is no small coup for producer Chip Stern. The three exhibit an uncanny chemistry on a set of originals and interpretations of Ornette Coleman's "Ramblin'" and Thelonious Monk's "Straight No Chaser."

Haden, a veteran of vintage Ornette ensembles, holds things together with his deep-toned, less-is-more approach. He's

the eye of the hurricane, the focal point around which Ginger traverses the kit with polyrhythmic aplomb and Frisell swirls with sonic mayhem.

More than any other drummer, Baker is instantly recognizable by the tone and presence of his drums, particularly his huge-sounding bass drum. He lays down a thick shuffle groove on a remake of Frisell's vaguely Tex-Mexish "Rambler" then comes out swinging like a synopated demon on his own "I Lu Kron" and Ornette's "Ramblin'." A tune that Haden recorded with Coleman back in 1960.

Baker affects a relaxed quality on Haden's "Ginger Blues" and he pulls out the brushes on Haden's lovely Appalachian waltz, "Spiritual." His rolling J/2/8 tom-tom work lends a distinct African flavor to Frisell's "When We Go." But the peak of this fine, interactive trio session just might be the aptly-named "In The Moment," a frantic offering that combines Haden's trademark pedal tones and bowed overtones with Frisell's Henrixian tumult and Ginger's "load"-like bashing.

*Going Back Home* is a startling and welcome departure from his recent rock efforts; like the recent hard-hitting Cream-esque project called *BBM* (Virgin), with bassist Jack Bruce and guitarist Gary Moore. *Bill Milkowski*



Photograph: Michael Miller '94

### When The Moon Jumps

Ken Schaphorst Ensemble

ACCURATE AC-4203, 60:10

Schaphorst, a trumpeter and educator (director of Jazz Studies at Lawrence University in Wisconsin), has a measurable if not long involvement with big bands. Cutting his chops in the Boston area, he became a primary force in that city's Jazz Composer's Alliance, a musician co-op of

sorts that united some of Beantown's most progressive musicians. Among his Boston colleagues are veterans of the Either/Orchestra and its leader, Russ Gershon, who created Accurate Records.

Schaphorst's third for the label, *When The Moon Jumps* is a pastoral, in-depth work of substance. In lieu of a full-blown big band, which constituted his first two recordings, he's pared down to a 10-piece ensemble that offers a series of seven quite chal-



lenging pieces. Included are reworkings of "All The Things You Are" and Dizzy's great "Con Alma," the latter featuring reggae underpinnings. There's also the "Concerto for John Medeski," a

National Endowment for the Arts-commissioned effort titled for and featuring the ensemble's pianist.

Included in Schaphorst's rhythm section (in addition to Medeski, bassist Chris Wood, and a pair of percussionists) is guitarist John Dirac.

Trombonist Curtis Hasselbring, altoist/clarinetist Douglas Yates, and trumpeter John Carlson—all of whom have Either/Orchestra experience—contribute to the front line.

Similar to records from that esteemed outfit, *When The Moon Jumps* is unmistakably a jazz record, although one that very successfully blurs many definitive musical lines.

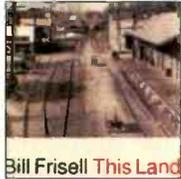
Jon W. Poses

### This Land

Bill Frisell

ELEKTRA/NONESUCH 9-79316-2, 65:58

Among the inspirations that echo through guitarist Bill Frisell's latest musical landscape is that of Aaron Copland. But where Copland's portraits of America conjure up images of majestic plains, Frisell's looks more like the Mississippi railroad station depicted in Walker Evans' 1936 photo used on the CD cover—stately with mundane detail, yet somehow unreal. There's always been a sense of unreality or, at least, deep irony in Frisell's music, accomplished not by waves of distortion but through subtle fuzztone and twangy interpolations; his axe has always been a multi-purpose tool. For his new band, Frisell augments his trio (made



Bill Frisell *This Land*

up of drummer Joey Baron and bassist Kermit Driscoll) with alto saxophonist Billy Drewes, trombonist Curtis Fowlkes, and clarinetist Don Byron. Together, these musicians bring sharp focus, rich detail, and a powerful sense of perspective to Frisell's vision.

Larry Blumenfeld

### Keb' Mo'

OKEH/EPIC EK 57863, 44:00

The newly revived Okeh imprint has debuted with several quirky acts, none more fun or impressive than Keb' Mo', who with bluesy songs, a National acoustic guitar, and husky vocals is very reminiscent of early Taj Mahal. Like Taj, Keb' is well-versed in blues tradition and is clever enough to put a twist on it. This is best illustrated in the jumping arrangement of "Come On In My Kitchen," one of two Robert Johnson songs here. And Keb's well-crafted originals quickly stamp him as his own man. A sparse band featuring the great James "Hutch" Hutchinson on bass adds sprightly supple support. John Porter's production is appropriately light-handed, lending the album buoyancy and zest without adding any superfluous baggage along the way.



Michael Tearson

### Shuggie's Boogie

Shuggie Otis

LEGACY/EPIC EK 57903, 52:02

In the latter part of 1969, a phenomenal 15-year-old blues guitarist cut tracks that were released on Epic as *Al Kooper Introduces Shuggie Otis* and *Here Comes Shuggie Otis*. The kid cooked with the seasoning of a chillin'-circuit veteran, showing the influence of his heroes T-Bone Walker, B.B. King, and Lowell Fulson, while no doubt also flaunting some lessons learned from his father, jump-blues bandleader Johnny Otis. Impossible though it seemed, this young sprout was the real deal, playing with the kind of guts and fully developed soulfulness that belied his age.

Shuggie's introduction was somewhat overshadowed by Johnny Winter, who was Columbia's big blues signing that same year. But his records caught the attention of perceptive critics and have remained in the hearts of serious blues collectors for the past 25 years. A few of those golden oldie tracks have surfaced again as part of Sony's Lega-

cy series. Along with the super-slow "Gospel Groove," the funky "Bootie Cooler," the Delta-flavored "I Can Stand to See You Die," and the autobiographical "Shuggie's Boogie," in which he talks about and mimics his guitar influences. *Shuggie's Boogie* also includes select tracks from his 1971 album *Freedom Flight*, as well as the previously unissued B.B. King-inspired original, "Cold Shot."



A 17-year-old Shuggie testifies passionately on the slow blues "Purple," striking a perfect balance between patience and power. On "Sweet Thang" he conjures a hoodoo vibe with some haunting slide guitar work. Arc with some sonic processing on "Shuggie's Old Time Slide Boogie," he summons up the crackly sound of a late 1920's guitar-piano duet.

This perfectly-timed reissue could jump-start a long overdue comeback.

Bill Milkowski

## PART TWO – TRUE OR FALSE

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**Real Book**  
Steve Swallow

XTRAWATT/7 78118-23207-2, 49:41

*Real Book?* Real Deal would've been more correct. For *Real Book*, Steve Swallow, the bassist most associated with Carla Bley's projects, has assembled an incredibly forceful quintet. Joe Lovano and Tom Harrell share the front line and both are in full stride, noticeably on the freewheeling "Bite Your Grandmother," the more controlled



medium tempo "Thinking Out Loud" (which features Harrell on flugelhorn), or the Latin-influenced "Let's Eat," which allows Lovano to strut his stuff.

Meanwhile, pianist Mulgrew Miller has never been pushed harder and in so many different directions. The depth and musical scope of *Real Book* could almost suffice as his resume, proof why many consider him to be the best keyboardist of his generation. None of the 10 Swallow compositions—and a diverse lot they are—seems to phase him. He devours everything thrown at him, which includes ballads, bossas, tangos, straight-ahead, you name it.

The final part of this equation is the planet's ultimate crash-and-burn drummer, Jack DeJohnette. He and Swallow are locked in from the start. And the piano-bass-drums trio interludes, which take place periodically throughout the album, are a bonus that compliment the real backbone of this date—the consummate ensemble work. In the end, nobody gets cheated here. *Real Book* stands as one of the year's best.

Jon W. Poses

**Is What It Is**  
Mike Stern

ATLANTIC JAZZ 82571-2, 56:37

After an inspired flirtation with standards on his last recording, Mike Stern returns to the comfort zone on *Is What It Is*, aiming his Telecaster at nine contemporary jazz originals. It's a sinuous and bluesy result—often set to ambitious meters—that mixes Stern's signature fluid guitar runs featuring syncopated, interval skips with tempestuous improvs, acoustic ballads, and one ripping rocker. Swapping leads with saxophonists Michael Brecker and Bob Malach, Stern seems intent on exploring tension and release, pacing solos in ever more complex variations before coming home to their melodic roosts. All the while, he's clever and cool—skirting the edge without going over.

Michael Wright

**Portraits in Ivory and Brass**

Jack Walrath & Larry Willis  
with Steve Novosel

MAPLESHADE 02032, 68:58

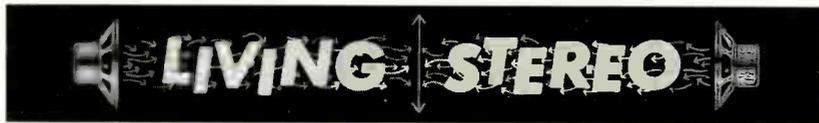
*Portraits* is an inspired, lyrical duo collaboration between two New York jazzmen, both of whom are trained in the classics and have the chops to play just about anything.

Trumpeter Walrath is perhaps best known for his mid-'70s tenure with Charles Mingus. He's also recorded 20 albums as a leader. Willis has toured and recorded with some of the greatest names in modern jazz, including Miles, Dizzy, Cannonball and Nat Adderley, Jackie McLean, Stan Getz, and Art Blakey.

Together, and with bassist Steve Novosel contributing on four cuts, they cover one standard ("Bess, You Is My Woman") and offer seven co-authored originals. "Kirsten" is a delicate and moody jazz waltz, "Shadows" is a tribute to Miles, and Walrath's witty sensibility is evident in the tip of the hat, "Monk's Feet."

This duo is both playful and thoughtful, and Mapleshade's simple purist analog recording methods preserve the simplicity of the sonic interplay.

John Sunier

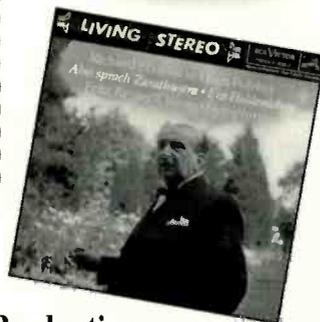


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Chuck Berry. As the musical genre Jimmy pioneered is gaining mass popularity in the nineties, Jimmy's classic guitar work has been heard by millions in television commercials featuring songs such as "Rock Me" by Muddy Waters and "I Ain't Superstitious" by Howlin' Wolf. Jimmy is joined on this album by an all-star group comprised of the legendary pianist Johnnie Johnson who was the backbone of all Chuck Berry's greatest hits, harmonica virtuoso Corey Bell, bassist Dave Myers, drummer Ted Harvey and lead guitarist Jimmy D. Lone.

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## Solomon's Daughter

Franklin Kiermyer Quartet  
Featuring Pharoah Sanders  
EVIDENCE ECD 22083-2, 59:05

If you hadn't heard of Franklin Kiermyer until now, well, you needn't have. On his first U.S. release, Kiermyer explodes



with a passion that has largely kept him off the scene, woodshedding and focusing instead on his own expression of what he calls "Ecstatic American Music." This heady moniker may be off-putting, but it is more accurate a description of Kiermyer's motives than are terms like "free-jazz" or "avant garde." While it's comfortable—and simple—to compare the quartet's approach here to Coltrane's legendary quartet with Tyner, Jones, and Garrison, the reference does little to get us inside Kiermyer's music. Together with saxophonist Pharoah Sanders at the top of his form, he calls forth many spirits, among them—yes—

Coltrane. And along with pianist John Esposito and bassist Drew Gress, Kiermyer stretches and molds the rhythms to suggest a musical vision that is as personal as it is revelatory. *Larry Blumenfeld*

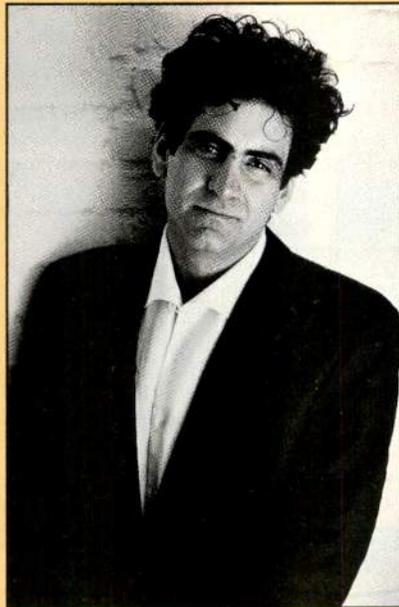


Photo: Snowdon

## Beauty Within

Edward Simon Group  
AUDIOQUEST AQ-CD 1025, 51:28

Venezuelan-born pianist Edward Simon is best known for his role in Bobby Watson's post-bop quintet, Horizon. In that context, Simon is usually an introspective player and a quiet accompanist. Yet *Beauty Within* arrives like an awakened, unleashed lion. "Wait until my CD comes out," Simon told me some months back. "It's a whole different sound." And he's right.

On *Beauty Within*, his first session as a leader, it's as if the 24-year-old pianist let go of everything he's held in check until now. This stands as a dynamic presentation, one that showcases a more extroverted, startling, and expressive Simon who obviously can play with a great deal of zest and passion.

Working predominantly in trio (occasionally adding the sometimes muted but always tasteful trumpeter Diego Urcola), Simon employs a great many rhythmic approaches, in varying degrees, each episode taking full advantage of his Venezuelan upbringing and previous Afro-Cuban and classical experiences. The range of tempos, moods, and colors from each self-penned selection to selection is executed with a great deal of purpose and maturity.



Bassist Anthony Jackson and drummer Horacio Hernandez provide Simon with the necessary support. They actually create an avenue of freedom for Simon who, in turn, does not let opportunities slip by. *Jon W. Poses*

## Breath of Life

World Saxophone Quartet  
with Fontella Bass  
ELEKTRA/NONESUCH 79309-2, 45:46

*Breath of Life* is another, yet more subtle, direction for The World Saxophone Quartet (Hamiet Bluiett, Arthur Blythe, Oliver Lake, and David Murray), who in recent years have devoted entire albums to collaborations with African drummers or covering the repertoire of Ellington or R&B chestnuts.



The Quartet appears alone on only two tracks; all else features accompaniment. Of obvious note is the presence of Fontella Bass who sings on three tracks, including the Oliver Lake-composed title cut. A curve-ball is the Eddie Arnold country song, "You Don't Know Me," in an R&B style by Bass and the Quartet. Also prominent is an organ (played by Amina Claudine Meyers or Donald Smith) on this and other tracks, notably the lovely ballad, "Song for Camille." Two basses, one arco and one pizzicato, also distinguish this track. *John Sunier*

## PART THREE – EXTRA CREDIT

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See Part I of the exam on page 67 and  
Part II on page 69.

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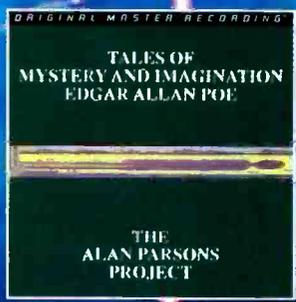
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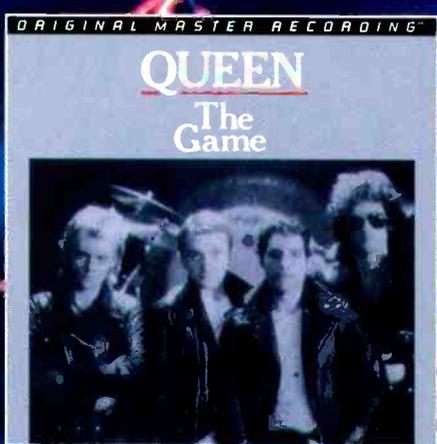
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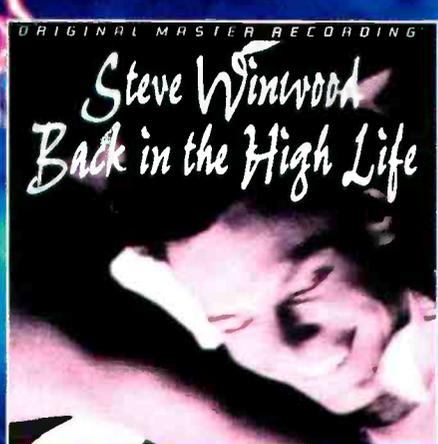
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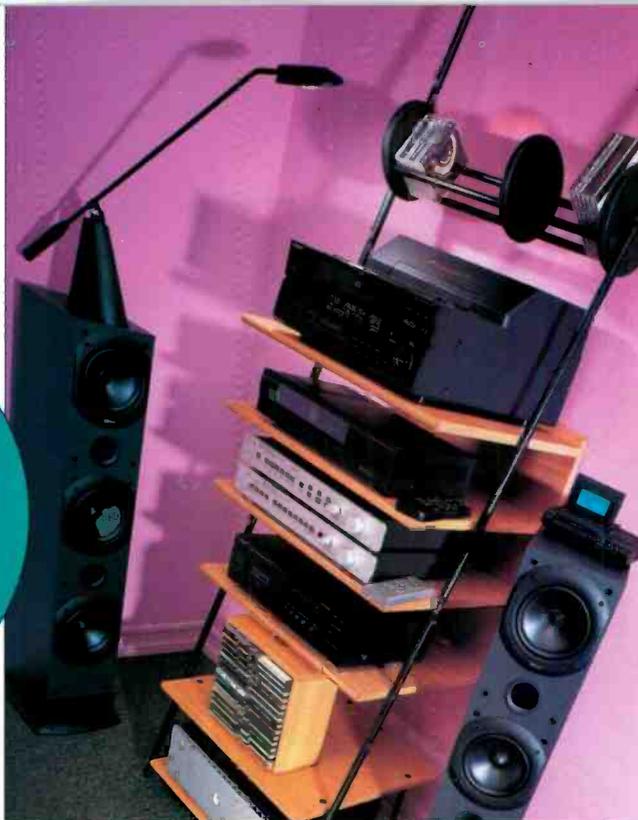
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ANNUAL  
PREMIER  
37<sup>th</sup>  
EQUIPMENT  
DIRECTORY



Photograph: Bill Asha

Each year in this introduction to our Annual Equipment Directory, I list counts of makers and models in the different equipment categories. Aside from the totals for the current year, I also give information on whether tallies have gone up or down. I hasten to say that I do not think there is a very strong direct correlation between the number of models in a category and the number of pieces actually sold. In fact, these two figures might even move in opposite directions.

*h*owever, I do think the moves in a category's numbers of models do say something about the makers' enthusiasm for their certain part of the audio business, particularly if these moves go in the same direction year after year. Let me say this a different way: If the number of speaker models jumps by, say, 25% from one year to the next, then the speaker makers think that's a good business to be in. And, clearly, so do their investors, usually banks. Further, if the number of speaker models jumps for two or three (or more) years in the same way, then it seems pretty likely to me that speaker-making IS a good business to be in. And, particularly so, if the guys with lots of models keep adding to their totals.

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ANNUAL  
AUDIO  
**37<sup>th</sup>**  
EQUIPMENT  
DIRECTORY

There are other factors to consider in deciding whether to be in the speaker-making business, aside from the number of competing models in the category. One is percentage profit desired or needed on each system, and to some degree this determines the type of distribution. That is to say, high profit margins are usually associated with limited distribution and strong brand

images in the minds of dealer and consumer alike. Low profit margins are associated with equipment that is more like a commodity, i.e., without many features unique to the brand.

Before I get to the numbers, let me point out that the numbers in the tables are NOT the result of our measurements, but rather ones we've gotten from the makers.

Speakers is again the largest category in the Directory; we are up by 278 to 2,832 models. While the pages taken up by the category are down by more than 10, the increased density is through the welcome efforts of our Associate Art Director Linda Zerella and Directory Editor Ken Richardson. The number of speaker makers is, however, down by one to 340.

Amplifiers is again this year the second largest category at 818 models from 215 companies; that's up 127 models and 22 companies. Preamps was up too, by 72 models to 485 from 186 firms, which is up by 23. Headphones has made another large increase, by 64 models to 348, from 35 companies, which is up four.

The LP area appears to be making a comeback in that turntables are up two to 112 from 41 makers (seven more), tonearms are up five to 42 from 22 makers (up two), and phono cartridges are up 20 (!) to 212 from 38 makers (up six).

There are several people I need to thank for undergoing months of eyestrain in dealing with small type and confusing handwriting to produce this Directory: Kay Blumenthal, Managing Editor; Cathy Cacchione, Art Director; Linda Zerella, Associate Art Director; Ken Richardson, Directory Editor; Gerald McCarthy, Assistant Editor; Noel Farmer, Chief Directory Slave, and Clint Vriezelaar, Assistant Directory Slave.—E.P.

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CD PLAYERS &  
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LOUDSPEAKERS



*The precision CD belt drive is so unique, it's patented.*

Jitter. More than a buzzword, it causes your CDs to sound, well...digital. And it took C.E.C. to seriously address its fundamental causes.

The result is the TL 1. The first, and only, belt drive CD transport in the world.

You might have expected C.E.C.—an original equipment manufacturer of the finest analog turntables—to be the first to engineer belt drive for digital. What you would not have expected are the extraordinary results. Sound so sweet, so amazing, it's as though you've hooked up not just a superb audio component, but the full emotion and vitality of live music.

You see, all other CD transports use a high-torque motor with the disc perched directly on the spindle. Its miniscule bearings can only support the scant weight of the CD—which,

## WHY YOU SHOULD SPEND THOUSANDS ON A CD TRANSPORT BUILT AROUND A RUBBER BAND.

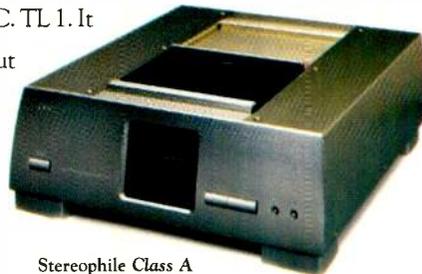
in itself, is prone to warping and resonances. The resulting microvibrations contaminate the data stream with jitter.

So, how does the TL 1 minimize jitter? C.E.C. uses a smooth-as-silk, low-torque motor isolated by a drive belt. This allows an independently suspended bearing to support an enormous CD stabilizing clamp—with over 26 times the rotational inertia of the typical transport. Inspired by the great analog turntables, the TL 1 combines massive amounts of steel, aluminum and brass to weigh a rock-solid 38 pounds.

Bob Harley of *Stereophile* sums it up nicely, "The C.E.C. is unquestionably a remarkable transport. Its smoothness, ease and liquidity set a new standard in digital playback.

"I can enthusiastically recommend the C.E.C. TL 1. It is not only an eminently musical transport, but also a gorgeous—and innovative—piece of audio equipment."

To fully appreciate the sonic virtues of the TL 1, visit your C.E.C. dealer and hear the finest CD transport in the world—built around a rubber band.



*Stereophile Class A Recommended and their CD Transport of the Year.*



PARASOUND

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# CD PLAYERS & TRANSPORTS

| MANUFACTURER               | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional                     | Disc Capacity                | Decoding System         | Number of Bits            | Over-sampling Rate        | Analog Outputs: Fixed-F Variable-V<br>Balanced-B, Residual-H | Digital Outputs Included—See Code       | Frequency Response, Hz to kHz, ±dB | S/N Ratio "A" Wtd., dB                    | THD, %                | Remaining Tone Display: To Disc End-D,<br>To Track End-T, Both=B | Number of Programmable Selections                   | Repeat Functions: Entire Disc-D, Track-T,<br>A-B Phases-P, Entire Program-E,<br>Random Play-R | Weight, Lbs.  | Price, \$   | Notes |
|----------------------------|--|------------------------------|-------------------------|---------------------------|---------------------------|--|---|------------------------------------|---|-----------------------|--|---|---|---|---|-------|
| ACCUPHASE                  | DP-65(RI)<br>DP-90(RI)   | 1<br>1                       | 20-8X                   | F/B                       | C/T<br>C/T/A/B            |  | 4-20 ±0.3                               | 118                                | 0.0025                                    | B<br>B                | 16   | D/T/P/E<br>D/T/P/E                                  | 35<br>46  | 5995.00<br>7595.00  | CD transport.   |       |
| ACURUS                     | ACD 11(RI)   | 1                            | 1-32X                   | F                         | C                         |  | 20-20 ±0.2                              | 100                                | 0.003                                     | B                     | 20   | D/T/E   | 20  | 799.00  |   |       |
| ADCOM                      | GCD-600(RI)  | 5                            | 16-4X                   | F/V                       | C                         |  | 20-20 +0-.05                            | 100                                | 0.005                                     | B                     | 20   | D/T/P/E/R   | 15  | 600.00  | Selectable polarity.  |       |
| ALTIS AUDIO                | CDT-2(RI)  | 1                            |                         |                           | †                         |  |   |                                    |   | D                     |  | D/R   | 20  | 3950.00   | Top-loading CD transport. †Coaxial, AT&T, and SMA optical. As above.  |       |
| AMC                        | Ultima(RI)   | 1                            |                         |                           | †                         |  |   |                                    |   | D                     |  | D/R   | 85  | 11,500.00   |   |       |
|                            | CDM7(RI)   | 1                            |                         |                           |                           |  |   |                                    |   |                       |  |   | 25  | 499.00  | CD transport, requires digital output (C/T/A) module, \$180.00; accepts D/A modules (solid state, \$180.00; tube with balanced output, \$400.00).             |       |
|                            | CD6(RI)  | 1                            | 1                       | F                         | C/T                       |  | 20-20                                   | 95                                 | 0.003                                     |                       |  |   | 25  | 599.95  |   |       |
| ARCAM                      | Alpha 1CD(RI)  | 1                            | 16                      | F                         | C                         |  | 20-20 ±0.5                              | 105                                | 0.005                                     | B                     |  | D   | 12  | 599.00  | Delta Sigma D/A conversion.   |       |
|                            | Alpha 5CD(RI)  | 1                            | 16-4X                   | F                         | C                         |  | 20-20 ±0.2                              | 105                                | 0.0005                                    | B                     |  | D   | 14  | 899.00  |   |       |
|                            | Delta 270(RI)  | 1                            | †                       | F/V                       | C                         |  | 20-20 ±0.2                              | 103                                | 0.0005                                    | B                     |  | D   | 15  | 1600.00   | †Hybrid, 18-bit/1-bit.  |       |
|                            | Delta 250(RI)  | 1                            |                         |                           | C/T                       |  |   |                                    |   | B                     |  | D   | 15  | 1500.00   | CD transport; master clock sync with Delta Black Box 50 and Delta Black Box 500 D/A converters; four digital outputs; optional plug-in AT&T output, \$299.00. |       |
| AUDIO ALCHEMY              | ACD I(RI)<br>ABT I(RI)   | 1<br>1                       | 18-8X                   | F                         | C<br>C                    |  | 20-20 ±0.1                              | 95                                 | 0.01                                      | D<br>D                | 16<br>16   | D/T/P/E<br>D/T/P/E                                  | 10<br>10  | 399.00<br>399.00  | CD transport; includes external power supply.   |       |
|                            | DDS II(RI)   | 1                            |                         |                           | C                         |  |   |                                    |   | D                     | 16   | D/T/P/E   | 15  | 699.00  | CD transport.   |       |
| AUDIOLAB                   | 8000CDM(RI)  | 1                            |                         |                           | C/B                       |  |   |                                    |   |                       |  |   |   | 2100.00   | CD transport.   |       |
| AUDIOMECA                  | Kreatura(RI)<br>Mephisto(RI)   | 1<br>1                       | 18                      |                           |                           |  |   |                                    |   |                       |  | E   | 20<br>22  | 1995.00<br>2895.00  | Top-loading CD transport, optional AT&T and AES/EBU outputs.  |       |
| AUDIO RESEARCH             | CD1(RI)<br>CDT1(RI)  | 1<br>1                       | 16-256X                 | F/B                       | C/T/A/B<br>C/T/A/B        |  | 0.1-20 ±0.2                             | 95                                 | 0.01                                      | B<br>B                |  | D/T<br>D/T  | 17<br>16  | 2995.00<br>2495.00  | CD transport.   |       |
| BANG & OLUFSEN             | CD7000(RO)   | 1                            | 16-4X                   | F                         | C                         |  | 3-20 ±0.3                               | 96                                 | 0.005                                     | D†                    | 20   |   | 14  | 1250.00   | Remote operation via B & O receiver. †Displayed on system remote.   |       |
| BITWISE AUDIO TECHNOLOGIES | Musik System<br>CDT-One(RI)  | 1                            |                         |                           | C/T/A                     |  |   |                                    |   | B                     | 24   | D/T/E   | 20  | 2450.00   | CD transport; master clock sync with Musik System Zero Plus and Musik System Two tc D/A converters.   |       |
| CALIFORNIA AUDIO LABS      | DX-1(RI)<br>Icon MKII(RI)<br>Tercet MKIV(RI)<br>Delta Transport(RI)            | 1<br>1<br>1<br>1             | 1-32X<br>18-8X<br>20-8X | F<br>F<br>F               | C<br>C<br>C/T/B           |  | 10-20 ±0.2<br>10-20 ±0.2<br>10-20 ±0.05 | 91<br>102<br>103                   | 0.007<br>0.002<br>0.004                   | B<br>B<br>B           | 20<br>20<br>20<br>20   | D/T/E/R<br>D/T/E/R<br>D/T/E/R<br>D/T/E/R            | 11<br>17<br>22<br>11  | 595.00<br>895.00<br>1495.00<br>895.00                     | Delta Sigma D/A conversion. Optional Toslink output. Coaxial digital input. CD transport; optional AT&T output.   |       |
| CAMELOT TECHNOLOGY         | Merlin(RI)   | 1                            |                         |                           | C/B                       |  |   |                                    |   | B                     | 20   | D/T/E   | 9   | 1195.00   | CD transport; optional AT&T output.   |       |
| CARVER                     | SD/A-390+(RI)<br>SD/A-360(RI)  | 5<br>5                       | 1-8X<br>1-8X            | F/V/H<br>F/V              | C<br>C/A                  |  | 20-20 ±0.5<br>20-20 ±0.5                | 95<br>100                          | 0.1<br>0.004                              | B<br>B                | 20<br>32   | D/T/P/E<br>D/T/P/E                                  | 15<br>15  | 750.00<br>500.00  | Tube; soft EQ.  |       |
| CARY AUDIO DESIGN          | CD-300(RI)   | 1                            | 20-8X                   | F                         | C                         |  | 4-20 ±0.1                               | 119                                | 0.008                                     | T                     | 20   | D/T/E/R   | 17  | 1995.00   | Tube; optional variable analog out; 24-karat gold faceplate, \$399.00.  |       |
| CEC                        | TL-1(RI)<br>TL-2(RI)<br>TL-0(RI)   | 1<br>1<br>1                  |                         |                           | C/T/A<br>C/A/B<br>†       |  |   |                                    |   | B<br>B<br>B           |  | D/T<br>D/T<br>D/T                                   | 40<br>20<br>34  | 4950.00<br>3300.00<br>17,500.00                           | Belt-drive CD transport. As above. As above; custom built. †One (coaxial, AT&T, or AES/EBU).  |       |
| C4                         | No-Touch 300(RI)   | 300                          |                         | F                         | C/T                       |  |   |                                    |   | †                     | †  |   | 30  | 5000.00   | Keyboard and display for title or artist search; CD-ROM capable; RS-232 port. †Software-controlled.   |       |
| COUNTERPOINT               | DA-11A(RI)   | 1                            |                         |                           | C/T/A/B                   |  |   |                                    |   |                       |  | D/T   | 17  | 1495.00   | CD transport; optional master clock sync with DA-10A and DA-10ST D/A converters.  |       |
| CREEK                      | CD 42(RI)  | 1                            | 16-4X                   | F                         | C                         |  | 0.5                                     | 96                                 |   | B                     |  | D/T/E/R   | 7   | 1100.00   |   |       |
| DENON                      | DP-S1(RI)  | 1                            |                         |                           | C/T/A/B                   |  |   |                                    |   | B                     | 20   | D/T/E/R   | 37  | 8000.00   | CD transport; master clock sync with DA-S1 D/A converter.   |       |
|                            | DCD-3000(RI)   | 1                            | 20-8X                   | F/H                       | C                         |  | 20-20 ±0.2                              | 118                                | 0.0018                                    | B                     | 20   | D/T/E/R   | 20  | 1200.00   | Proprietary D/A conversion.   |       |
|                            | DCD-1015(RI)   | 1                            | 20-8X                   | F/V/H                     | C                         |  | 20-20 ±0.2                              | 112                                | 0.0025                                    | B                     | 20   | D/T/E/R   | 15  | 550.00  | As above.   |       |
|                            | DCD-815(RI)  | 1                            | 18-8X                   | V/H                       | C                         |  | 20-20 ±0.2                              | 107                                | 0.003                                     | B                     | 20   | D/T/P/E/R   | 9   | 300.00  |   |       |
|                            | DCM-460(RI)  | 5                            | 20-8X                   | F/V/H                     | C                         |  | 20-20 ±0.2                              | 110                                | 0.0025                                    | B                     | 20   | D/T/E/R   | 13  | 430.00  | As above.   |       |
|                            | DCD-615(RI)  | 1                            | 18-8X                   | V/H                       | C                         |  | 20-20 ±0.2                              | 106                                | 0.003                                     | B                     | 20   | D/T/E/R   | 8   | 250.00  |   |       |
|                            | DCM-560(RI)  | 5                            | 20-8X                   | F/V/H                     | C                         |  | 20-20 ±0.2                              | 113                                | 0.0020                                    | B                     | 20   | D/T/E/R   | 15  | 600.00  | As above.   |       |
|                            | DCM-340(RI)  | 5                            | 18-8X                   | F/H                       | C                         |  | 20-20 ±0.2                              | 106                                | 0.003                                     | B                     | 20   | D/T/E   | 13  | 300.00  |   |       |
|                            | LA-2500(RI)  | 1                            |                         | F/H                       | T                         |  | 20-20 ±0.2                              | 113                                | 0.0025                                    | B                     | 20   | D/T/E/R   | 20  | 700.00  | CD/vidéodisc player.  |       |
|                            | LA-3500(RI)  | 1                            | 20-8X                   | F/H                       | C                         |  | 20-20 ±0.2                              | 118                                | 0.0018                                    | B                     | 20   | D/T/E/R   | 20  | 2000.00   | As above.   |       |
|                            | DN-1200F/C(RI)   | 200                          | 20-8X                   | F                         | B                         |  | 2-20 ±0.2                               | 110                                | 0.0025                                    | B                     | 20   | D/T/E/R   | 25  | 4000.00   | Changer and controller in separate chassis.   |       |
| DPA DIGITAL                | T1(RI)   | 1                            |                         |                           | C/T                       |  |   |                                    |   | B                     | 30   | D/T/P/E   | 16  | 1595.00   | CD transport; master clock sync with TLB-II, TBB, and PDM One Series 3 D/A converters.  |       |
| DUAL                       | CD5150RC(RI)<br>CD1070RC(RI)   | 1<br>1                       | 16-4X<br>18             | H                         |                           |  | 20-20 ±0.1<br>20-20 ±0.5                | 100<br>103                         | 0.01<br>0.01                              |                       | 20<br>16   | D/T/E   | 12<br>10  | 555.00<br>345.00  |   |       |
| DUSON                      | CD 100(RI)   | 1                            | 18-8X                   | F                         | C                         |  | 2-20 ±0.2                               | 107                                |   |                       | 20   | D/P/E   | 31  | 699.00  | Removable D/A converter.  |       |
| DYNACO                     | CDV-1(RI)  | 1                            | 1                       | V                         | C                         |  | 20-20 ±0.5                              | 96                                 | 0.001                                     | B                     | 16   | D/T/P/E   |   |   | Tube output stage.  |       |
| EAD                        | CD-1000(RI)<br>T-1000(RI)<br>T-8000(RI)  | 1<br>1<br>1                  | 20-4X                   | F                         | C<br>C/A<br>C/T/A/B       |  | 0-20 ±0.1                               | 100                                | 0.001                                     | T<br>T<br>B           | 20<br>20<br>24   | D/T/E/R<br>D/T/E/R<br>D/T/P/E/R                     | 15<br>15<br>42  | 1599.00<br>1199.00<br>3950.00                             | Dual differential D/A converter. CD transport. CD transport/vidéodisc player.   |       |
| ELITE                      | PD-S95(RI)<br>PD-65(RI)<br>PD-54(RI)<br>PD-32(RI)<br>PD-F107(RI)<br>PD-M77(RI) | 1<br>1<br>1<br>1<br>100<br>6 | 1-384X                  | F<br>F<br>F/H<br>F<br>F/H | C/T<br>C/T<br>T<br>C<br>C |  | 2-20                                    | 111<br>112<br>108<br>98<br>105     | 0.002<br>0.0021<br>0.026<br>0.03<br>0.029 | B<br>B<br>B<br>B<br>B | 24<br>24<br>24<br>32<br>40                                       | D/T/E/R<br>D/T/E/R<br>D/T/E/R<br>D/T/E/R<br>D/T/E/R | 39<br>21<br>11<br>9<br>22<br>14   | 2000.00<br>800.00<br>500.00<br>400.00<br>800.00<br>770.00 | CD transport. Legato Link D/A conversion. As above. As above; disc title display on remote. Legato Link D/A conversion; five-mode DSP.                        |       |
|                            | PD-M53(RI)<br>CLD-97(RI)   | 6<br>1                       | 1-384X                  | F/H<br>F                  | C/T<br>C/T                |  | 2-20<br>4-20                            | 105<br>117                         | 0.028<br>0.0017                           | B                     | 40<br>24   | D/T/E/R<br>D/T/P/E/R                                | 11<br>38  | 460.00<br>2500.00   | CD/vidéodisc player; dual Legato Link D/A conversion.   |       |
|                            | CLD-53(RI)   | 1                            | 1-384X                  | F/H                       | T                         |  | 4-20                                    | 116                                | 0.0017                                    |                       | 24   | D/T/P/E/R   | 20  | 850.00  | CD/vidéodisc player.  |       |

# Hear the music, not the machine.



Has listening to music recorded on CD's become an uninspired routine instead of the releasing experience it once was? Maybe it's because you're hearing more of your digital playback machinery and less of the music. In an era when most CD players and transports offer the same bland, assembly-line sonic experience, Audio Research is proud to announce two new products which serve the music instead of digitally enslaving it.

The CDT1 compact disc transport and the CD1 compact disc player both use innovative engineering—along with patented Audio Research circuits—to bring you higher resolution from the compact disc medium than you've ever encountered before. This new standard of performance is due in part to more effective mechanical isolation and electronic elimination of digital jitter—the electronic entropy that drags on laser servos, error-correction circuitry and power supplies to hold back the full reproduction of a life-like musical experience. (Hence the flat, dimension-less sound of much previous CD sound.)

Add Audio Research's advanced, highly regulated power supplies and, in the case of the CD1,

an innovative analog stage with low-impedance output drive and you have two machines which honestly advance the state of the art in music reproduction from CD sources.

Both transport and player offer a full complement of digital output options, including ST-standard glass optical, 3NC-coaxial, AES-EBU (XLR) and TOSLINK. The CD1 also includes analog outputs for both balanced (XLR) and single-ended (phono plug) connection to your preamp. In short, both CDT1 and CD1 are equipped for easy incorporation into any music reproduction system. And both include remote control, standard.

So, the choice is yours. For superb performance with any outboard digital-to-analog processor, it's the CDT1 compact disc transport. For all-round musicality in a single chassis (with the option of later use as a transport), it's the CD1 compact disc player.

Some audio critics have said that digitally encoded music has finally come of age. We say it's been reborn. Experience it soon at your nearest authorized Audio Research retail specialist.



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Enter No. 13 on Reader Service Card

# Choosing between the CDT1 transport and the CD1 transport-player.



If you already own an outboard digital-to-analog converter or are planning to purchase one, the CDT1 transport is probably your best choice, since you will not need the onboard converter and analog section of the CD1. But if your audio budget does not permit the immediate consideration of a high-quality outboard converter, or if spatial constraints dictate a single-chassis design without sonic compromise, then the CD1 is likely your best consideration.

Remember, the CDT1 and the CD1 perform identically as compact-disc transports, each having the same complement of digital-output options. The only difference is in having the convenience of onboard digital signal conversion and an analog output stage in the CD1—and thus its higher initial cost. The CDT1 is not factory-retrofitable to include the CD1 analog output, so your initial choice is an important one.

## InfraRed Remote Control

The CDT1 and CD1 are both equipped with IR remote-control capability and hand-held controller as standard equipment. Control functions such as Scan, Shuffle, Repeat, Time, Stop, Pause, Track Up/Down and play are all accessible from the comfort of your listening chair. (The CD1 has fixed-level analog outputs, so volume level must be controlled via your preamplifier.)

## CD1 SPECIFICATIONS

- OUTPUTS, ANALOG: (Stereo)**
1. Balanced XLR 4.2V RMS ( $\pm 12.5$ dBV) max.
  2. Unbalanced RCA 2.1V RMS (+6dBV) max..
- OUTPUT IMPEDANCE: (Analog)**  
350 ohms balanced, 175 ohms unbalanced.
- FREQUENCY RESPONSE:**  
0.1–20,000Hz  $\pm 0.2$ dB
- SIGNAL TO NOISE RATIO:** 95dB
- DISTORTION:** -80dB (0.01%) 1kHz
- CHANNEL SEPARATION:** 94dB 1kHz
- PHASE LINEARITY:**  $\pm 0.5^\circ$  20–20,000kHz

## CD1/CDT1 SPECIFICATIONS

- OUTPUTS, DIGITAL:**  
(to external Digital-to-Analog Converter)
1. XLR Balanced AES/EBU 110-ohm 4V P-P
  2. BNC coax SPDIF 75-ohm 0.7V P-P.
  3. TOSLINK fiber optical -19dBm, 660nm.
  4. ST-type glass fiber optical -12dBm, 875nm, 62.5/125 $\mu$ m fibers.
- SIGNAL FORMAT (disc):**  
Sampling frequency: 44.1kHz  
Quantization Bit: 16bit linear per channel.  
Channel bit rate: 4.3218Mb/sec.  
Channel modulation code: EFM (8–14 modulation).  
Error correction: CIRC (cross interleave Reed Solomon Code.)
- DRIVE MECHANISM:**  
Phillips CDM-12.1 with magnetic disc clamping.  
Discs: Accepts 5" (12cm) and 3" (8cm) sizes.  
Wow & Flutter: Unmeasurable (Quartz stability)
- OPTICAL PICKUP:**  
Type: 3-beam LDGU (Laser Diode & Grating Unit), with holographic diffraction light pen.  
Laser: GaAlAs semiconductor, 780nm, 0.5mW max output.  
Servo: Digitally-controlled low-inertia linear positioning actuator.
- DIGITAL MICROPROCESSORS:**
1. Servo/Control microprocessor.
  2. Signal data microprocessor.

**JITTER REDUCTION:** High-stability crystal-controlled re-clocking for all outputs.

**DISPLAY:** Six-digit vacuum fluorescent, with optical filter.

**TRANSPORT CONTROLS (soft-touch buttons):**

- OPEN/CLOSE disc drawer
- PLAY disc
- TRACK change up/down
- PAUSE program
- STOP disc
- TIME elapsed/remaining, track or disc
- REPEAT track/disc
- SHUFFLE random sequence play
- SEARCH med/rapid, forward/back
- SCAN ten-seconds each track
- POWER main switch

**INFRARED REMOTE CONTROL FUNCTIONS:**  
(Standard RC5 code, 35ft max distance)

- OPEN/CLOSE disc drawer
- SELECT track number
- SCAN ten-seconds each track
- REPEAT track/disc
- PAUSE program
- STOP program
- PLAY disc
- PREVIOUS track
- NEXT track
- SHUFFLE random sequence play.

**POWER REQUIREMENTS (detachable power cord):**  
100–135VAC 60Hz (200–270VAC 50/60Hz), 15 watts maximum.

**DIMENSIONS (standard rack panel):** 19" (48 cm) W x 5 $\frac{1}{4}$ " (13.4 cm) H x 11 $\frac{3}{4}$ " (29.8 cm) D Handles extend 1 $\frac{1}{2}$ " (3.8 cm) forward of the front panel. Rear connectors extend  $\frac{3}{4}$ " (1.9 cm).

**WEIGHT:** 16 lbs. (7.3 kg) Net; 26 lbs. (11.8 kg) Shipping.

Specifications subject to change without notice.

## Two-Year Limited Warranty

The CD1 and CDT1 are backed by a Two-Year Limited Warranty: For one year from date of purchase. Audio Research pays round-trip freight charges on any equipment requiring warranty service at the factory. See your authorized Audio Research dealer for details.

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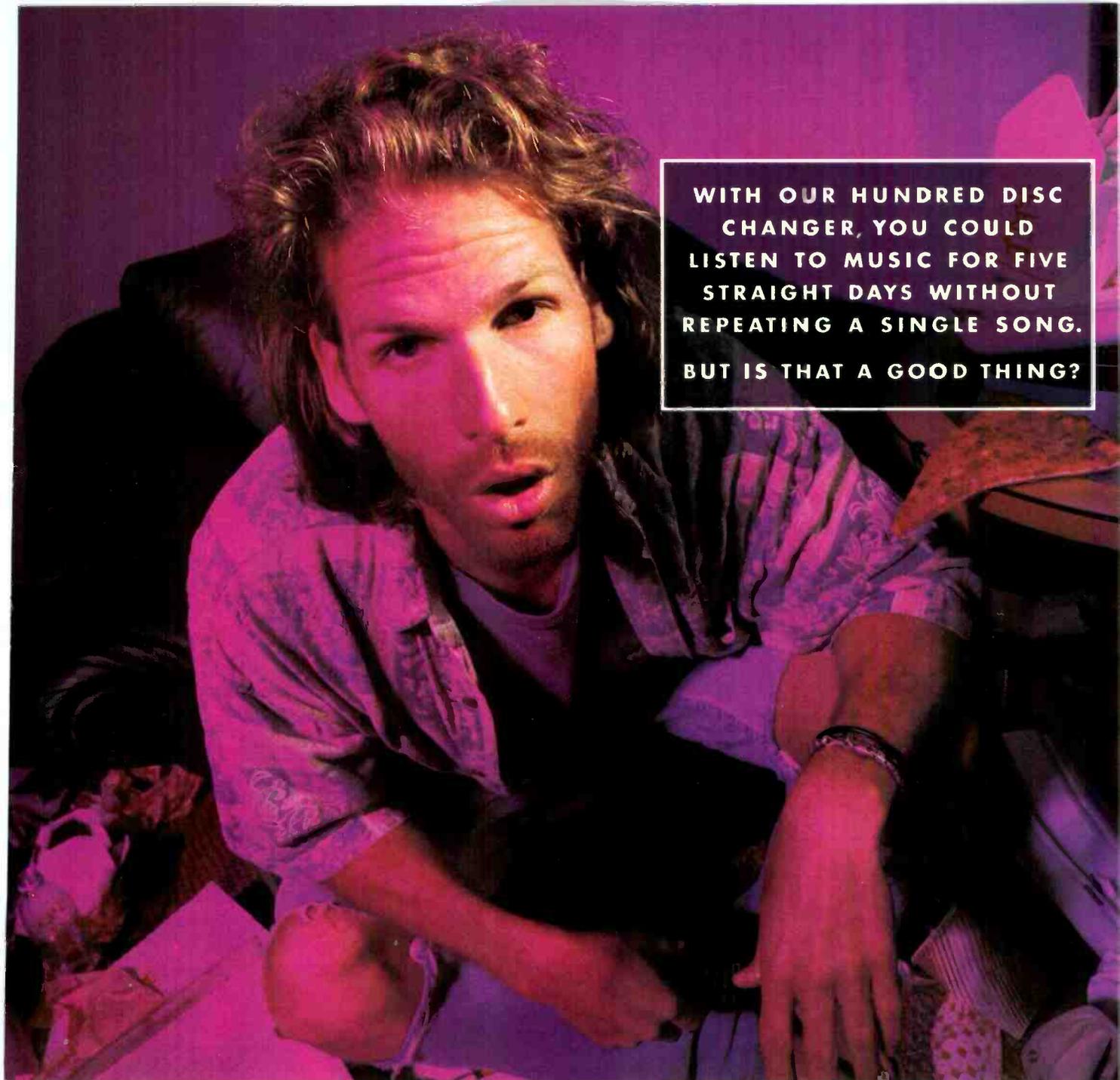
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# CD PLAYERS & TRANSPORTS

| MANUFACTURER          | Model<br>(RO) = Remote Included<br>(R/O) = Remote Optional | Disc Capacity | Decoding System:<br>Number of Bits—Oversampling Rate | Analog Outputs: Feed-F, Variable = V,<br>Balance = B, Headphone = H | Digital Outputs Included—See Code | Frequency Response, Hz to kHz, ±dB | S/N Ratio, "A" Wtd., dB | THD, % | Remaining Time Display: To Disc End = D,<br>To Track End = T, Both = B | Number of Programmable Selections | Repeat Functions: Entire Disc = D, Track = T,<br>A-B Play = P, Entire Program = R,<br>Random Play = R | Weight, Lbs. | Price, \$ | Notes  |
|-----------------------|--|---------------|--|---|-----------------------------------|------------------------------------|-------------------------|--------|--|-----------------------------------|---|--------------|-----------|--|
| ENSEMBLE              | Dichrono Drive(RI)   | 1             |  |   | C/B                               |                                    |                         |        | B  | 20                                | D/T/P/E   | 30           | 8650.00   | CD transport.  |
| ESOTERIC              | X-1(RI)  | 1             | 25-8X  | B   | C/T                               | 0-20 ±0.5                          | 110                     | 0.0013 | B  | 40                                |   | 37           | 5000.00   | CD transport.<br>As above.<br>As above.<br>As above.   |
|                       | P-2s(RI)   | 1             |  |   | C/T/A                             |                                    |                         |        | B  | 40                                | D/T/P/E   | 31           | 7000.00   |  |
|                       | P-2(RI)  | 1             |  |   | C/T                               |                                    |                         |        | B  | 40                                | D/T/P/E   | 29           | 4000.00   |  |
|                       | P-10(RI)   | 1             |  |   | C/T                               |                                    |                         |        | B  | 20                                | D/T/P/E   | 22           | 2000.00   |  |
| FISHER                | P-700(RI)  | 1             |  |   | C/T                               |                                    |                         |        | B  | 20                                | D/T/P/E   | 16           | 1500.00   |  |
|                       | DAC-503(RI)  | 5             | 1-8X   | F   | C                                 | 20-20                              | 100                     | 0.04   | B  | 32                                | D/T/E   | 14           | 250.00    | Portable, 10-S anti-skip system;<br>three-step EQ; car kit.<br>Portable; anti-skip system; three-step EQ.<br>As above; car kit.  |
|                       | DAC-2403(RI)   | 24            | 1-8X   | F   | C                                 | 20-20                              | 100                     | 0.03   | B  | 48                                | D/T/E   | 15           | 350.00    |  |
| PCD-60                | 1  | 1-8X          | F/H  |   | C                                 | 20-20 ±3                           | 80                      | 0.09   | B  | 22                                | D/T/E   | ¾            | 250.00    |  |
| PCD-50                |  | 1             | 1-8X   | F/H   |                                   | C                                  | 20-20 ±3                | 80     | 0.09   | B                                 | 22  | D/T/E        | ¾         | 200.00   |
|                       | PCD-5  | 1             | 1-8X   | F/H   |                                   | C                                  | 20-20 ±3                | 80     | 0.09   | B                                 | 22  | D/T/E        | ¾         | 230.00   |
| G AND D TRANSFORMS    | Reference One(RI)  | 1             |  |   | C                                 |                                    |                         |        | B  | 24                                | D/T/E/R   | 10           | 649.00    | CD transport; headphone jack; optional AES/EBU output.   |
| GEMINI SOUND PRODUCTS | CD-4000  | 1             | 18-8X  | F/H   |                                   | 20-20 ±0.5                         | 104                     | 0.09   | B  | 0                                 | P   | 9            | 549.00    | Two half-rack chassis.<br>Two disc drawers.  |
|                       | CD-8000  | 1             | 18-8X  | F   |                                   | 20-20 ±0.5                         | 104                     | 0.09   | B  | 0                                 | P   | 9            | 659.00    |  |
|                       | CD-9000  | (2)           | 18-8X  | F   |                                   | 20-20 ±0.5                         | 104                     | 0.09   | B  | 0                                 | P   | 14           | 1099.00   |  |
| GOLDSTAR              | FH-R20R(RI)  | †             | -8X  |   |                                   |                                    |                         |        |  | 32                                | D/T/P/R   | 16           | 229.95    | †Carousel changer. Dual D/A converters; reloadable during play.  |
| HARMAN KARDON         | HD 7325(RI)  | 1             | 18-4X  | F   | C                                 | 4-20 +0,-1.5                       | 100                     | 0.006  | B  | 30                                | D/T/P/E   | 10           | 319.00    | Real-time linear smoothing circuit.<br>As above; dual D/A converters.<br>Reloadable during play.   |
|                       | HD 7525(RI)  | 1             | 18-4X  | F   | C                                 | 4-20 +0,-1                         | 103                     | 0.008  | B  | 30                                | D/T/P/E   | 12           | 569.00    |  |
|                       | HD 7725(RI)  | 1             | 18-8X  | F/V   | C/T                               | 4-20 +0,-0.5                       | 105                     | 0.0025 | B  | 30                                | D/T/P/E   | 19           | 899.00    |  |
|                       | FL 8400(RI)  | 5             | 18-8X  | F/H   | T                                 | 4-20 +0,-1                         | 103                     | 0.008  | B  | 32                                | D/T/P/E   | 12           | 379.00    |  |
| JVC                   | XL-Z1050TN(RI)   | 1             | 1-8X   | F/V/H   | C/A                               | 2-20                               | 114                     | 0.0014 | B  | 32                                | D/T/P/E   | 17           | 800.00    | Changer and controller in separate chassis; title display on remote.<br>6 + 1 changer; remote has magazine memory.<br>6 + 1 changer.<br>Reloadable during play.<br>As above.<br>Peak level search.<br>As above.<br>6 + 1 changer/karaoke; CD + Graphics.<br>Portable; dual D/A converter; intro scan; bass boost; includes car, cassette, and a.c. adaptors.<br>Portable; intro scan; bass boost; includes headphones. |
|                       | XL-MC100(RI)   | 100           | 1-8X   | F/H   |                                   | 2-20                               | 107                     |        | T  | 32                                | D/T/E   | 32           | 999.95    |  |
|                       | XL-M509(RI)  | 7             | 1-8X   | F/H   |                                   | 2-20                               | 107                     | 0.002  | T  | 32                                | D/T/E/R   | 11           | 399.95    |  |
|                       | XL-M415(RI)  | 7             | 1-8X   | F/H   |                                   | 2-20                               | 107                     | 0.002  | T  | 32                                | D/T/E/R   | 11           | 329.95    |  |
|                       | XL-F215(RI)  | 5             | 1-8X   | F/H   |                                   | 2-20                               | 107                     | 0.0022 | T  | 32                                | D/T/E/R   | 11           | 319.95    |  |
|                       | XL-F115  | 5             | 1-8X   | F/H   |                                   | 2-20                               | 107                     | 0.0022 | T  | 32                                | D/T/E/R   | 11           | 279.95    |  |
|                       | XL-V261(RI)  | 1             | 1-8X   | F/H   |                                   | 2-20                               | 106                     | 0.0025 | B  | 32                                | D/T/E/R   | 8            | 219.95    |  |
|                       | XL-V161  | 1             | 1-8X   | F/H   |                                   | 2-20                               | 106                     | 0.0025 | B  | 32                                | D/T/E/R   | 7            | 199.95    |  |
|                       | XL-GM800TN(RI)   | 7             | 16-4X  | F/H   |                                   | 2-20                               | 106                     | 0.0025 | B  | 32                                | D/T/P/E   | 12           | 850.00    |  |
|                       | XL-P60   | 1             | 1-8X   | F/H   |                                   | 2-20 ±1.5                          |                         |        | B  | 20                                | D/T/E/R   | ¾            | 299.99    |  |
|                       | XL-P40   | 1             | 1-8X   | F/H   |                                   | 2-20 ±1.5                          |                         |        | B  | 20                                | D/T/E/R   | ¾            | 179.99    |  |
| KENWOOD               | DP-M7750(RI)   | 7             | 1-8X   | F/V/H   |                                   | 4-20 ±1                            | 96                      | 0.005  | B  | 32                                | D/T/E/R   | 12           | 399.00    | 6 + 1 magazine changer; reloadable during play.<br>As above.<br>As above.<br>CD/videodisc player.<br>CD/two-sided videodisc player.<br>Rotary changer; reloadable during play; CD + Graphics.<br>Rotary changer; reloadable during play.<br>As above.<br>As above.   |
|                       | DP-M5560(RI)   | 7             | 1-8X   | F   |                                   | 8-20 ±1                            | 94                      | 0.005  | B  | 20                                | D/T/E/R   | 12           | 249.00    |  |
|                       | DP-M3360   | 7             | 1-8X   | F   |                                   | 8-20 ±1                            | 94                      | 0.005  | B  | 20                                | D/T/E/R   | 11           | 229.00    |  |
|                       | LVD-320(RI)  | 1             | 1-8X   | F/V/H   |                                   | 4-20 ±1                            | 115                     | 0.003  | B  | 20                                | D/T/E/R   | 18           | 599.00    |  |
|                       | LVD-820R(RI)   | 1             | 1-8X   | F/V/H   |                                   | 4-20 ±1                            | 98                      | 0.006  | B  | 20                                | D/T/E/R   | 20           | 799.00    |  |
|                       | DP-2060(RI)  | 1             | 1-8X   | F/H   |                                   | 8-20 ±1                            | 94                      | 0.005  | B  | 20                                | D/T/E/R   | 8            | 149.00    |  |
|                       | DP-R6060(RI)   | 5             | 1-8X   | F/V/H   |                                   | 4-20 ±1                            | 94                      | 0.007  | B  | 32                                | D/T/E/R   | 11           | 329.00    |  |
|                       | DP-R5060(RI)   | 5             | 1-8X   | F/V/H   |                                   | 4-20 ±1                            | 94                      | 0.007  | B  | 32                                | D/T/E/R   | 11           | 269.00    |  |
| DP-R4060(RI)          | 5  | 1-8X          | F/V/H  |   | 4-20 ±1                           | 94                                 | 0.007                   | B      | 32   | D/T/E/R                           | 11  | 239.00       |           |  |
| DP-R3060              | 5  | 1-8X          | F/V/H  |   | 4-20 ±1                           | 94                                 | 0.007                   | B      | 32   | D/T/E/R                           | 11  | 199.00       |           |  |
| KINERGETICS RESEARCH  | KMD 22(RI)   | 1             | 20-8X  | F   | C/T/A                             | 20-20 ±0.5                         | 98                      | 0.01   | T  | 10                                | D/T/E   | 27           | 2295.00   | CD/videodisc player.   |
|                       | KMD 28 Ultra(RI)   | 1             | 20-8X  | F   | C/T/A                             | 20-20 ±0.5                         | 100                     | 0.01   | T  | 10                                | D/T/E   | 40           | 4995.00   | As above; input selection and volume control via remote.   |
| KRELL                 | DT-10(RI)  | 1             |  |   | C/T/A/B                           |                                    |                         |        | D  | 20                                | T   | 36           |           | CD transport; master clock sync with Reference 64 D/A converter.<br>Software based; top loading; input selection via remote. CD transport version; KPS-201 (master clock sync with Reference 64 D/A converter).<br>Software-based decoding; top loading; input selection and volume control via remote.  |
|                       | KPS-20i(RI)  | 1             | 24-16X   | F/B   | C                                 | 20-20 +0,-0.2                      |                         | 0.005  | D  | 20                                | T   | 39           | 9000.00   |  |
|                       | KPS-20i/II(RI)   | 1             | 24-16X   | F/B   | C                                 | 20-20 +0,-0.2                      |                         | 0.005  | D  | 20                                | T   | 39           |           |  |
| MARK LEVINSON         | No. 31(RI)   | 1             |  |   | C/T/A/B                           |                                    |                         |        | B  | 30                                | D/T/P/E   | 64           | 8495.00   | CD transport; upgradable.  |
| LINEAR ACOUSTIC       | LACD-1(RI)   | 1             | 1-192X   | F/V/B/H   | C/T                               | 10-20 +0.1,-0.4                    | 115                     | 0.0005 | B  | 99                                | D/T/E   |              | 2933.00   | Digital volume control.  |
| LINN                  | Karik(RI)  | 1             | 1-256X   | F   | C/T                               |                                    |                         |        | B  | 20                                | D/T/P/E   | 12           | 3395.00   | Master clock sync with Numerik D/A converter.  |
|                       | Mimik(RI)  | 1             | 1-256X   | F   | C                                 |                                    |                         |        | B  | 20                                | D/T/P/E   | 9            | 1495.00   |  |
| LUXMAN                | D-373(RI)  | 1             | 18-8X  | F/V/H   | T                                 | 5-20 ±1                            | 105                     | 0.006  | B  | 24                                | D/T/P/E   | 17           | 1000.00   | Reloadable during play.<br>As above.   |
|                       | D-500XS(RI)  | 1             | 16-4X  | F/V   | T                                 | 5-20 ±0.5                          | 105                     | 0.004  | B  | 20                                | D/T/P/E   | 37           | 7000.00   |  |
|                       | D-500(RI)  | 1             | 18-8X  | F/V   | T                                 | 5-20 ±0.5                          | 105                     | 0.004  | B  | 20                                | D/T/P/E   | 33           | 5000.00   |  |
| MAGNAVOX              | CDC 745(RI)  | 5             | 1-192X   | F   | C                                 | 20-20 ±0.1                         | 100                     | 0.003  | B  | 30                                | D/T/P/E   | 14           | 169.95    | Reloadable during play.<br>As above.   |
|                       | CDC 794(RI)  | 5             | 1-192X   | F   | C                                 | 20-20 ±0.1                         | 100                     | 0.003  | B  | 30                                | D/T/P/E   | 14           | 189.95    |  |
| MARANTZ               | CC-65(RI)  | 5             | 1-32X  | F   | C                                 | 20-20 ±0.2                         | 100                     | 0.025  | B  | 32                                | D/T/E/R   | 15           | 399.00    | Peak level search.<br>As above.<br>CD/two-sided videodisc player; separate CD drawer.<br>Peak level search.<br>As above.<br>As above.  |
|                       | CC-45(RI)  | 5             | 1-32X  | F   | C                                 | 20-20 ±0.2                         | 100                     | 0.025  | B  | 32                                | D/T/E/R   | 14           | 299.00    |  |
|                       | LV-510(RI)   | 1             | 1-32X  | V/H   | T                                 | 20-20 ±0.2                         | 100                     | 0.025  | B  | 24                                | D/T/E/R   | 23           | 799.00    |  |
|                       | CD-1020(RI)  | 1             | 1-32X  | H   | T                                 | 20-20 ±0.2                         | 100                     | 0.025  | B  | 30                                | D/T/E/R   | 14           | 349.00    |  |
|                       | CD-11 MK2(RI)  | 1             | 1-64X  | F/B   | C/T                               | 20-20 ±0.1                         | 108                     | 0.0015 | B  | 24                                | D/T/P/E/R   | 37           | 2500.00   |  |
|                       | CD-63 SE(RI)   | 1             | 1-32X  | V/H   | C/T                               | 20-20 ±0.2                         | 104                     | 0.002  | B  | 30                                | D/T/P/E/R   | 14           | 499.00    |  |
| CD-63(RI)             |  | 1             | 1-32X  | V/H   | C/T                               | 20-20 ±0.2                         | 104                     | 0.0025 | B  | 30                                | D/T/P/E/R   | 13           | 399.00    |  |
|                       | CD-53(RI)  | 1             | 1-32X  | V/H   | C                                 | 20-20 ±0.2                         | 104                     | 0.0025 | B  | 30                                | D/T/P/E/R   | 12           | 349.00    |  |
| MCCORMACK AUDIO       | Digital Drive SST-1(RI)                                    | 1             |  |   | C                                 |                                    |                         |        | B  | 30                                | D/T/E/R   | 18           | 1495.00   | CD transport; disc-damping system; optional AT&T and/or AES/EBU outputs.   |
| McINTOSH              | MCD7008(RI)  | 7             | 20-8X  | F/V   | C                                 | 5-20 +0,-0.5                       | 107                     | 0.002  | D  | 50                                | D/E/R   | 25           | 2000.00   |  |
| MELOS AUDIO           | CDT-BIT(RI)  | 1             | 1-256X   | F   |                                   | 20-20 ±0.3                         | 85                      | 0.09   | T  | 20                                | D/T   | 30           | 1795.00   | Digital and tube analog stages in separate chassis.  |
|                       | CDD(RI)  | 1             |  |   | C/T                               |                                    |                         |        | T  | 20                                | D/T   | 26           | 1195.00   | CD transport; optional AT&T and AES/EBU outputs; optional jitter filter.   |

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|-----------------------|--|---|--|--|---|--|---|--|---|--|---|--|--|--|
| MERIDIAN              | 506(RO)<br>508(RO)<br>500(RO)<br>602(RI)   | 1<br>1<br>1<br>1                          | 1-64X<br>2-64X   | F<br>F/B   | C/T<br>C/T<br>C/T/B<br>C/T  | 20-20 ±0.01<br>20-20 ±0.01                                   | 103<br>106  | 0.004<br>0.002   | B<br>B<br>B<br>B  | 32<br>32<br>32<br>32                               | D/T/E<br>D/T/E<br>D/T/E<br>D/T/E  | 19<br>21<br>19<br>19                               | 1495.00<br>2350.00<br>1650.00<br>2750.00   | CD transport.<br>As above.   |
| METAXAS AUDIO SYSTEMS | Phos(RI)<br>Reference(RI)  | 1<br>1                                    | 20-8X<br>20-8X   | F/B<br>F/B   | C/B<br>C/B  | 20-20 ±0.5<br>20-20 ±0.5                                     | 115<br>120  | 0.002<br>0.002   | B<br>B  | 25<br>30   | D/T/P/E<br>D/T/P/E  | 20<br>120  | 2700.00<br>18.500  | Includes power supply and stand.   |
| MICROMEGA             | Stage 1(RI)<br>Stage 2(RI)<br>Stage 3(RI)<br>Drive 1(RI)<br>Drive 2(RI)<br>T-Drive(RI)<br>Duo CD3.1(RI)<br>Duo CD2.1(RI)<br>Trio 3CD(RI)                                 | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 1-256X<br>1-256X<br>1-256X   | F/H<br>F/H<br>F/H  | C<br>C<br>C<br>C/T/B<br>C/T/B<br>C/T/B<br>C/T/B<br>C/T/A<br>C/T/A | 20-20<br>+0,-0.5<br>20-20<br>+0,-0.5<br>20-20<br>+0,-0.5     |   |  | D<br>D<br>D<br>D<br>D<br>D<br>D<br>D<br>D                           | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | D/T/P/R<br>D/T/P/R<br>D/T/P/R<br>D/T/P/R<br>D/P/R<br>D/R<br>D<br>D                                | 10<br>10<br>11<br>10<br>10<br>13<br>13<br>18<br>19 | 695.00<br>895.00<br>1295.00<br>895.00<br>1350.00<br>1695.00<br>2195.00<br>3495.00<br>3495.00 | Double-speed play for dubbing; upgradable to Stage 2 or Stage 3 (below).<br>Double-speed play for dubbing; upgradable to Stage 3.<br>Double-speed play for dubbing.<br>CD transport; optional AT&T output.<br>As above.<br>As above.<br>As above.<br>As above.<br>As above.<br>As above, powered by Trio 3BS D/A converter or by external power supply; optional supply, \$975.00. |
| MONARCHY AUDIO        | DT-30(RI)<br>DT-40A(RI)  | 5<br>1                                    | 1-64X<br>16-4X   | F<br>F   | C/T/B<br>C/B  | 20-20 ±0.1<br>20-20 ±0.1                                     | 105<br>100  | 0.003<br>0.003   | B<br>B  | 24<br>24   | D/T/P/E/R<br>D/T/P/E/R  | 45<br>45   | 1199.00<br>1499.00   | CD changer/vidéodisc player.<br>CD/vidéodisc player.   |
| MSB TECHNOLOGY        | MSB Gold LSI Transport(RI)<br>MSB Silver CD Player(RI)<br>MSB Silver CD Transport(RI)  | 1<br>1<br>1                               | 16-4X  | F<br>C   | C/T/A<br>C  | 5-20 ±0.05   | 105   | 0.015  | B<br>B  | 20<br>20   | D/T/P/E<br>D/T/P/E  | 70<br>52   | 2995.00<br>2795.00   | CD transport/double-sided videodisc player; optional AES/EBU output, \$495.00.<br>↑On 144 discs.<br>CD transport.  |
| MTX SOUND-CRAFTSMEN   | CD-100(RI)   | 1   | 1-256X   | F  | C   | 20-20 ±0.005   | 100   | 0.0025   | D   | 16   | D/E   | 13   | 599.95   | Compander circuit.   |
| MUSEATEX AUDIO        | CDD1(RI)   | 1   |  |  | C/T   |  |   |  | B   |  | D/T/P   | 22   | 1749.00  | CD transport; anti-jitter circuitry.   |
| MUSICAL CONCEPTS      | Enigma VII(RI)<br>Epoch VII(RI)<br>Entre(RI)<br>CDT-5(RI)<br>CDT-4(RI)<br>CD-2(RI)   | 1<br>1<br>1<br>1<br>1<br>1                | 1-384X<br>1-384X<br>1-384X<br>1-384X<br>1-384X<br>1-384X             | F<br>F<br>F<br>F<br>F<br>F   | C/T<br>C/T<br>C<br>C<br>C/T<br>C/T                                | 2-20<br>2-20<br>5-20 ±0.5                                    | 110<br>110<br>104   | 0.003<br>0.003<br>0.003  | B<br>B<br>B<br>B<br>B<br>B  | 24<br>24<br>30<br>30<br>34<br>24                   | D/T/E/R<br>D/T/E/R<br>D/T/P/E/R<br>D/T/P/E/R<br>D/T/E/R<br>D/T/E/R                                | 11<br>12<br>13<br>13<br>12<br>17                   | 695.00<br>995.00<br>495.00<br>495.00<br>695.00<br>1495.00                                    | DSP.<br>As above.<br>Digital volume control via remote.<br>DSP.  |
| MUSIC & SOUND         | CDT-1(RI)  | 1   |  |  | C/T   | 20-20 ±0.1   |   |  | B   | 16   | D/T/P/E   | 15   | 750.00   | CD transport.  |
| MXC                   | CD-2000  | 1   | 1-8X   |  | C   |  |   |  |   | 20   |   | 1  | 149.99   | Portable; includes power adaptor and recharger.  |
| NAD                   | 502(RI)<br>513(RI)   | 1<br>3                                    | MASH<br>MASH   | F<br>F   | C<br>C  | 5-20 ±0.5<br>10-20 ±0.5                                      | 105<br>105  | 0.0025<br>0.003  | B<br>B  | 21<br>32   | D/T<br>D/T/E/R  | 13<br>12   | 299.00<br>399.00   | Edit function.   |
| NAIM AUDIO            | NA CD3(RI)<br>NA CD1(RI)<br>NA CDS(RI)   | 1<br>1<br>1                               | 16-4X<br>16-4X<br>16-4X  | F<br>F<br>F  |   | 10-18 ±0.1<br>10-18 ±0.1<br>10-18 ±0.1                       |   |  | B<br>B<br>B   | 16<br>16<br>16                                     | D/E<br>D/E<br>D/E   | 14<br>24<br>44                                     | 1895.00<br>3565.00<br>6925.00  | Swing-out disc drawer.<br>Top loading.<br>Two chassis.   |
| NAKAMICHI             | MB-4s(RI)<br>MB-3s(RI)<br>MB-2s(RI)<br>MB-1s(RI)<br>1000 MB Transport (RI)   | 7<br>7<br>7<br>7<br>7                     | 16-4X<br>18-8X<br>18-8X<br>20-8X                                     | F<br>F<br>H<br>H   | None<br>None<br>C<br>C/T  | 10-20 ±0.5<br>5-20 ±0.5<br>5-20 ±0.5<br>5-20 ±0.5            | 87<br>96<br>96<br>100                                     | 0.035<br>0.006<br>0.004<br>0.0035  | D<br>D<br>D<br>D<br>D   | 50<br>50<br>50<br>50<br>50                         | D/T/E<br>D/T/E<br>D/T/E<br>D/T/E<br>D/T/E   | 11<br>12<br>12<br>12<br>35                         | 399.00<br>499.00<br>599.00<br>799.00<br>6000.00  | Music Bank changer.<br>As above.<br>As above; system remote jack.<br>As above.<br>Music Bank changer transport; optional AT&T output, \$850.00.  |
| NIKKO AUDIO           | NLD3000(RI)<br>NCD915R(RI)   | 1<br>1                                    | 18-8X<br>16-4X   | H<br>H   |   | 4-20<br>20-20 ±1   | 105<br>80   | 0.08   | B<br>D  | 32<br>21   | D/T/P/E/R<br>D/T/P/R  | 22   | 349.95<br>104.95   | CD/vidéodisc player.   |
| NSM                   | 3101 FPS(RI)<br>3101 AC  | 100<br>100                                | 1-256X<br>1-256X   | F/V/H<br>F/V   | C/T<br>C/T  | 20-20 ±0.5<br>20-20 ±0.5                                     | 95<br>95  | 0.0025<br>0.0025   | T<br>T  | 3675<br>44   | D/T/P/E/R<br>D/T/P/E/R  | 56<br>44   | 3250.00<br>2750.00   | Two chassis, programmable controller (with single-disc player) and 100-disc changer.<br>Changer module; for computer interface or use with multi-zone processor.   |
| NUMARK                | CD7020(RI)<br>CD710  | 2<br>1                                    | 18-8X<br>18-8X   |  |   | 20-20<br>20-20   | 90<br>90  | 0.005<br>0.005   | B<br>B  |  | T<br>T  | 14<br>11   | 999.00<br>899.00   |  |
| ONIX                  | CD33(RI)   | 1   | 1-192X   | V  | C   | 20-20 ±0.5   | 100   | 0.002  | B   | 20   | D/T/P/E   | 13   | 2195.00  |  |
| ONKYO                 | DX-710(RI)<br>Integra DX-706(RI)<br>Integra DX-708(RI)<br>Integra DX-788F(RI)<br>DX-C211(RI)<br>DX-C311(RI)<br>Integra DX-C606(RI)<br>Integra DX-C909(RI)<br>DX-M505(RI) | 1<br>1<br>1<br>1<br>6<br>6<br>6<br>6<br>6 | 1-8X<br>1-8X<br>1-8X<br>1-8X<br>1-8X<br>1-8X<br>1-8X<br>1-8X<br>1-8X | F/H<br>F/H<br>F/V/H<br>F/V/<br>B/H<br>C/T<br>C/T<br>C/T<br>F/H     | C/T<br>C/T<br>C/T/B<br>C/T<br>C/T                                 | 5-20<br>2-20<br>2-20<br>2-20<br>2-20<br>2-20<br>2-20<br>2-20 | 100<br>110<br>110<br>110<br>96<br>96<br>106<br>106<br>100 | 0.004<br>0.002<br>0.002<br>0.0015<br>0.004<br>0.004<br>0.0028<br>0.0028<br>0.004 | B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B                           | 20<br>20<br>20<br>20<br>40<br>40<br>40<br>40<br>40 | D/T/E<br>D/T/P/E<br>D/T/P/E<br>D/T/P/E<br>D/T/E<br>D/T/E<br>D/T/P/E<br>D/T/P/E/R<br>D/T/P/E       | 11<br>18<br>20<br>20<br>8<br>8<br>20<br>20<br>13   | 220.00<br>570.00<br>770.00<br>1250.00<br>8<br>8<br>490.00<br>660.00<br>440.00                | Dual D/A converters; synchro start; time edit.<br>Opto-coupling.<br>Dual D/A converters; includes XLR cables.<br>Motorized output level control.<br>Magazine changer; Music File memory; dual D/A converters.  |
| OPTIMUS               | CD-7220<br>CD-7250(RI)<br>CD-7300(RI)<br>CD-6400(RI)   | 6<br>6<br>6<br>6                          | 1-8X<br>1-8X<br>1-8X<br>18-8X  | F<br>F<br>V/H<br>F   |   | 2-20 +1,-2<br>2-20 +1,-2<br>2-20 +1,-2<br>20-20 ±2           | 98<br>98<br>104<br>100                                    | 0.005<br>0.005<br>0.005<br>0.04  | B<br>B<br>B<br>B  | 32<br>32<br>32<br>32                               | D/T/E/R<br>D/T/E/R<br>D/T/E/R<br>D/T/E/R  | 8<br>8<br>8<br>8                                   | 199.99<br>229.99<br>249.99<br>199.99   |  |
| ORITRON               | HF-CD1(RI)<br>HF-CD2(RI)   | 1<br>1                                    | 18-8X  | F/H<br>V/B/H   | C/T<br>C/T/A/B  | 20-20 ±0.03  | 105<br>110  | 0.005<br>0.0001  | B<br>B  | 16<br>20   | D/T/P/E<br>D/T/P/E  | 13<br>18   | 599.95<br>1195.00  |  |
| PANASONIC             | LX-101(RI)<br>LX-600(RI)<br>LX-K750(RI)<br>LX-900(RI)  | 1<br>1<br>1<br>1                          | MASH<br>MASH<br>MASH<br>MASH   |  |   | 4-20<br>4-20<br>4-20<br>4-20                                 |   |  | B<br>B<br>B<br>B  | 20<br>20<br>20<br>20                               | D/T/P/E/R<br>D/T/P/E/R<br>D/T/P/E/R<br>D/T/P/E/R  | 18<br>20<br>20<br>20                               | 550.00<br>750.00<br>1000.00<br>1050.00   | CD/vidéodisc player.<br>As above.<br>CD/vidéodisc/karaoke player.<br>CD/vidéodisc player.  |
| PARADOX               | S Mod(RI)  | 1   | 1-8X   | F/V/H  | C/T   | 2-20   | 110   | 0.0014   | B   |  | D/T/R   |  | 450.00   | Modification for JVC XL-Z1 050.  |
| PARASOUND             | C/D-P-1000(RI)   | 1   | †  | F  | C   | 5-20 ±0.5  | 105   | 0.005  | B   | 20   | D/T/E   |  | 495.00   | †Hybrid, 18-bit/1-bit; 8X. Optional AT&T and AES/EBU outputs.  |
| PHILIPS               | CD921(RI)<br>CDC916<br>CDC925(RI)<br>CDC926(RI)  | 1<br>5<br>5<br>5                          | 1-192X<br>1-192X<br>1-192X<br>1-192X                                 | V/H<br>F<br>F/H<br>V/H   | C<br>C<br>C<br>C  | 20-20 ±0.1<br>20-20 ±0.1<br>20-20 ±0.1<br>20-20 ±0.1         | 100<br>100<br>100<br>100                                  | 0.003<br>0.003<br>0.003<br>0.003   | B<br>B<br>B<br>B  | 30<br>30<br>30<br>30                               | D/T/E/R<br>D/T/E/R<br>D/T/E/R<br>D/T/E/R  | 9<br>14<br>14<br>14                                | 159.95<br>199.95<br>219.95<br>229.95   | Peak level search; auto fade; auto edit.<br>As above; reloadable during play.<br>Auto edit; reloadable during play.<br>As above; peak level search; auto fade.   |



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# CD PLAYERS & TRANSPORTS

| MANUFACTURER           | Model<br>(RI) = Remote Included<br>(RO) = Remote Optional | Disc Capacity | Decoding System:<br>Number of Bits—Oversampling Rate | Analog Outputs: Freq. F, Variable—V<br>Balanced—B, Headphone—H | Digital Outputs Included—See Code | Frequency Response, Hz to kHz, ±dB | S/N Ratio "A" Wtd., dB | THD, % | Remaining Time Display: To Disc End—D<br>To Track End—T, Both—B | Number of Programmable Selections | Repeat Functions: Entire Disc—D, Track—T,<br>A-B Phrase—P, Entire Program—E,<br>Random Play—R | Weight, Lbs. | Price \$           | Notes  |   |
|------------------------|---|---------------|--|--|-----------------------------------|------------------------------------|------------------------|--------|---|-----------------------------------|---|--------------|--------------------|--|---|
| PHILIPS<br>(Continued) | CDC935(RI)  | 5             | 1-192X   | F/H  | C                                 | 20-20 ±0.1                         | 100                    | 0.003  | B   | 30                                | D/T/E/R   | 14           | 249.95             | Auto edit, reloadable during play, Favorite Track Selection.   |   |
|                        | CDC936(RI)  | 5             | 1-192X   | V/H  | C                                 | 20-20 ±0.1                         | 100                    | 0.003  | B   | 30                                | D/T/E/R   | 14           | 259.95             | As above; peak level search; auto fade.  |   |
| PINK TRIANGLE          | Cardinal CD Player(RI)                                    | 1             | 1-196X   | F/B  | C                                 | 2-22 ±0.5                          | 110                    | 0.003  | B   | 16                                | D/T/P/E/R   | 12           | 1995.00            | Master clock sync with Dacapo and Ordinal D/A converters; auto space for dubbing; intro scan.            |   |
|                        | Cardinal Transport(RI)                                    | 1             |  |  | C                                 |                                    |                        |        | B   | 16                                | D/T/P/E/R   | 8            | 1495.00            | As above; CD transport.  |   |
| PIONEER                | PD-F100(RI)   | 100           | 1-384X   | F  |                                   | 20-20                              | 98                     | 0.003  | B   | 32                                | D/T/E/R   | 24           | 715.00             | 50 + 1 changer.<br>Three six-disc magazines; six-mode DSP.<br>Two six-disc magazines.<br>Seven-mode DSP. |   |
|                        | PD-F51(RI)  | 51            | 1-384X   | F  |                                   | 20-20                              | 98                     | 0.003  | B   | 32                                | D/T/E/R   | 16           | 615.00             |  |   |
|                        | PD-TM3(RI)  | 18            | 1-384X   | V/H  |                                   | 20-20                              | 102                    | 0.003  | B   | 48                                | D/T/E/R   | 14           | 545.00             |  |   |
|                        | PD-DM802(RI)  | 12            | 1-384X   | V/H  |                                   | 20-20                              | 102                    | 0.003  | B   | 40                                | D/T/E/R   | 12           | 400.00             |  |   |
|                        | PD-M703(RI)   | 6             | 1-384X   | V/H  |                                   | 20-20                              | 102                    | 0.003  | B   | 32                                | D/T/E/R   | 8            | 315.00             |  |   |
|                        | PD-M603(RI)   | 6             | 1-384X   | V/H  |                                   | 20-20                              | 98                     | 0.003  | B   | 32                                | D/T/E/R   | 8            | 270.00             |  |   |
|                        | PD-M423(RI)   | 6             | 1-384X   | F  |                                   | 20-20                              | 98                     | 0.003  | B   | 32                                | D/T/E/R   | 8            | 245.00             |  |   |
|                        | PD-M403   | 6             | 1-384X   | F  |                                   | 20-20                              | 98                     | 0.003  | B   | 32                                | D/T/E/R   | 8            | 235.00             |  |   |
|                        | PD-203(RI)  | 1             | 1-384X   | V/H  |                                   | 20-20                              | 98                     | 0.003  | B   | 24                                | D/T/E/R   | 7            | 220.00             |  |   |
|                        | PD-103  | 1             | 1-384X   | F/H  |                                   | 20-20                              | 98                     | 0.003  | B   | 24                                | D/T/E/R   | 7            | 190.00             |  |   |
|                        | CLD-D703(RI)  | 1             | 1-384X   | F  | C/T                               | 4-20                               | 116                    | 0.0017 |   | 24                                | D/T/P/E/R   | 19           | 1220.00            | CD/vidiodisc player.   |   |
|                        | CLD-D503(RI)  | 1             | 1-384X   | F  |                                   | 4-20                               | 115                    | 0.0025 |   | 24                                | D/T/P/E/R   | 18           | 650.00             | As above.  |   |
|                        | CLD-M403(RI)  | 5             | 1-384X   | F  |                                   | 4-20                               | 100                    | 0.004  |   | 24                                | D/T/P/E/R   | 21           | 770.00             | CD changer/vidiodisc player.   |   |
|                        | CLD-S303(RI)  | 1             | 1-384X   | F  |                                   | 4-20                               | 100                    | 0.004  |   | 24                                | D/T/P/E/R   | 16           | 650.00             | CD/vidiodisc player.   |   |
|                        | CLD-S201(RI)  | 1             | 1-384X   | F  |                                   | 4-20                               | 102                    | 0.003  |   | 24                                | D/T/P/E/R   | 16           | 535.00             | As above.  |   |
|                        | CLD-V840(RI)  | 1             | 1-384X   | F  |                                   | 4-20                               | 102                    |        |   | 24                                |   | 19           | 1100.00            | CD/vidiodisc/karaoke player.   |   |
|                        | CLD-V740(RI)  | 1             | 1-384X   | F  |                                   | 4-20                               | 100                    |        |   | 24                                |   | 17           | 900.00             | As above.  |   |
|                        | CLD-A100(RI)  | 1             | 1-384X   | F/H  | T                                 | 4-20                               | 100                    | 0.004  |   | 24                                | D/T/P/E   | 17           | 735.00             | Interactive CD/vidiodisc player.   |   |
|                        | POLYFUSION  | 920(RI)       | 1  |  |                                   | C/A                                |                        |        |   | B                                 | 30  | D/T/P/E/R    | 17                 | 2900.00  | CD transport; external power supply.  |
|                        | PROCEED   | PCD 3(RI)     | 1  | 20-8X  | F/B                               | C                                  | 10-20 ±0, -0.2         | 107    | 0.004   | D                                 | 20  | D/T/E        | 31                 | 2995.00  | CD transport.<br>‡2970 selections, 15 programmable categories. CD transport version, \$8995.00. |
| PDT 3(RI)              |   | 1             |  |  | C/T/A/B                           |                                    |                        |        | D   | 20                                | D/T/E   | 31           | 2495.00            |  |   |
| CD Library(RI)         |   | 100           | 18-8X  | F/V/B  | C                                 | 10-20 ±0, -0.2                     | 105                    | 0.004  | B   | †                                 | D/T/E   | 210          | 12,000.            |  |   |
| PROTON                 | AC-2200(RI)   | 1             | 1  | F/H  | C                                 | 20-20 ±0.5                         | 105                    | 0.008  | B   | 20                                | D/T/P/E/R   | 18           |                    |  |   |
| PS AUDIO               | Lambda CD Drive(RI)                                       | 1             |  |  | C/B                               |                                    |                        |        |   |                                   | D/P/R   | 25           | 1795.00            | CD transport; optional AT&T output, \$300.00.  |   |
| QUAD                   | 67CD(RI)  | 1             | 18-64X   | F  | C                                 | 4-21 ±0.1                          | 112                    | 0.002  | T   | 50                                | D/T/E/R   | 9            | 1595.00            | Delta-Sigma D/A conversion.  |   |
| QUASAR                 | CD832   | 1             | 1-32X  | F  |                                   |                                    |                        |        | B   | 20                                | D/T/E   | 7            | 160.00             | Intro scan.  |   |
|                        | CD894(RI)   | 5             | 1-32X  | F  |                                   |                                    |                        |        | B   | 32                                | D/T/E   | 11           | 260.00             |  |   |
| RESOLUTION AUDIO       | Transport(RI)   | 1             |  |  | C/A                               |                                    |                        |        | B   | 20                                | D/T/E   | 30           | 1995.00            | CD transport; extra outputs for use with two D/A converters.   |   |
| ROKSAN                 | ATT-DP2(RI)   | 1             |  |  | C                                 |                                    |                        |        | T   | 20                                | D/T/P/E   | 20           | 1995.00            | CD transport; optional dealer-installed AT&T output.   |   |
|                        | ATT-DP2A(RI)  | 1             |  |  | C/A                               |                                    |                        |        | T   | 20                                | D/T/P/E   | 20           | 2395.00            | CD transport.  |   |
|                        | ATT-DP2P(RI)  | 1             | 18-64X   | F  | C                                 | 5-20 ±0.5                          | 105                    | 0.005  | T   | 20                                | D/T/P/E   | 20           | 2395.00            |  |   |
| ROTEL                  | RCC-940AX(RI)   | 5             | 1-192X   | F  | T                                 | 20-20 ±1                           | 100                    | 0.003  | B   | 32                                | D/E/R   | 14           | 499.90             | Indexing.  |   |
|                        | RCD-945AX(RI)   | 1             | 1-192X   | F  | C                                 | 20-20 ±0.05                        | 100                    | 0.0025 | B   | 20                                | D/T/P/E/R   | 13           | 329.90             |  |   |
|                        | RCD-965BXL(RI)  | 1             | 1-256X   | F  | C                                 | 20-20 ±0.05                        | 100                    | 0.0025 | B   | 20                                | D/E/R   | 13           | 599.90             |  |   |
| RSN DIGITAL            | TRANS X(RI)   | 1             |  |  | C/B                               |                                    |                        |        |   |                                   |   | 12           | 599.00             | CD transport; optional AT&T output.  |   |
| RUNCO                  | LJR II DA(RI)   | 1             | 16/18-64X  | F  | T                                 | 4-20 ±0.3                          | 115                    | 0.0023 | B   | 20                                | D/T/P/E/R   | 45           | 4995.00            | CD/vidiodisc player; THX certification pending.  |   |
|                        | LJR II Transport(RI)                                      | 1             |  | F  | C/T                               |                                    |                        |        | B   | 20                                | D/T/P/E/R   | 45           | 3995.00            | CD transport/vidiodisc player; THX certification pending.  |   |
|                        | LJR II Studio Transport(RI)                               | 1             |  | F  | C/T/A/B                           |                                    |                        |        | B   | 20                                | D/T/P/E/R   | 45           | 4995.00            | As above.  |   |
| SANSUI                 | CD390M(RI)  | 5             | 16-8X  | F  |                                   | 5-20 ±1                            | 95                     | 0.03   | B   | 30                                | D/T/E/R   | 18           | 199.95             | Reloadable during play.  |   |
| SANYO                  | CDP-67(RI)  | 1             | 1-8X   | F/H  |                                   | 20-20 ±3                           | 95                     | 0.09   | B   | 22                                | D/T/E   | ¾            | 200.00             | Portable; DSP; digital anti-shock memory; wired remote; car kit.   |   |
|                        | CDP-55  | 1             | 1-8X   | F/H  |                                   | 20-20 ±3                           | 95                     | 0.09   | B   | 16                                | D/T/E   | ¾            | 180.00             | Portable; digital anti-shock memory; three-position EQ.  |   |
|                        | CDP-54  | 1             | 1-8X   | F/H  |                                   | 20-20 ±3                           | 80                     | 0.09   | B   | 16                                | D/T/E   | ¾            | 150.00             | As above.  |   |
|                        | CDP-47  | 1             | 1-8X   | F/H  |                                   | 20-20 ±3                           | 80                     | 0.09   | B   | 16                                | D/T/E   | ¾            | 130.00             | Portable; bass expander; car kit.  |   |
|                        | CDP-41  | 1             | 16-8X  | F/H  |                                   | 20-20 ±3                           | 78                     | 0.15   | D   | 16                                | D/T/E   | ¾            | 100.00             | Portable; bass expander.   |   |
|                        |   |               |  |  |                                   |                                    |                        |        |   |                                   |   |              |                    |  |   |
| SHERWOOD               | CDC-5030R(RI)   | 5             | 1-8X   | F/H  |                                   | 20-20 ±0.5                         | 104                    | 0.005  | B   | 32                                | D/T/P/R   | 13           | 275.00             |  |   |
|                        | CD-3030R(RI)  | 1             | 1-8X   | F/H  |                                   | 20-20 ±0.5                         | 103                    | 0.005  | B   | 20                                | D/T/P/R   | 9            | 195.00             |  |   |
| SIGNATURE TECHNOLOGIES | SRd-12(RI)  | 1             | 1-128X   | V/H  | C/T                               | 2-20                               | 115                    | 0.001  | B   | 30                                | D/T/E   | 24           | 1695.00            | Tube buffered output stage; indexing.  |   |
| SONIC FRONTIERS        | SFCD-1<br>SFT-1   |               |  |  |                                   |                                    |                        |        |   |                                   |   |              | 1495.00<br>2995.00 | CD player.<br>CD transport.  |   |
| SONY                   | CDP-215(RO)   | 1             | -8X  | F/H  |                                   | 20-20 ±0.5                         | 100                    | 0.0045 | B   | 24                                | D/T/E/R   | 7            | 180.00             | Time and program edit; time fade.  |   |
|                        | CDP-315(RI)   | 1             | -8X  | F/H  | T                                 | 20-20 ±0.5                         | 100                    | 0.0045 | B   | 24                                | D/T/E/R   | 7            | 200.00             |  |   |
|                        | CDP-K1A(RI)   | 1             | -8X  | F/H  |                                   | 20-20 ±0.5                         | 98                     | 0.008  | B   | 24                                | D/T/E/R   | 7            | 350.00             |  |   |
|                        | CDP-C245(RO)  | 5             | -8X  | F  |                                   | 20-20 ±0.5                         | 102                    | 0.0045 | B   | 32                                | D/T/E/R   | 12           | 250.00             | CD/karaoke player; program edit; pitch control.  |   |
|                        | CDP-C345(RI)  | 5             | -8X  | F  |                                   | 20-20 ±0.5                         | 102                    | 0.0045 | B   | 32                                | D/T/E/R   | 12           | 280.00             | Reloadable during play.  |   |
|                        | CDP-C445(RI)  | 5             | -8X  | F/V/H  | T                                 | 20-20 ±0.5                         | 107                    | 0.0040 | B   | 32                                | D/T/E/R   | 12           | 330.00             | Digital servo control; peak level search.  |   |
|                        | CDP-C545(RI)  | 5             | -8X  | F/V/H  | T                                 | 20-20 ±0.5                         | 107                    | 0.0040 | B   | 32                                | D/T/E/R   | 12           | 350.00             | Custom File memory; includes DSP and level settings; timer switch.                                       |   |
|                        | CDP-C745(RI)  | 5             | -8X  | F/V/H  | T                                 | 20-20 ±0.5                         | 107                    | 0.0040 | B   | 32                                | D/T/E/R   | 14           | 430.00             |  |   |
|                        | CDP-C910(RI)  | 10            | -8X  | F/V/H  | T                                 | 20-20 ±0.5                         | 110                    | 0.003  | B   | 32                                | D/T/E/R   | 14           | 480.00             | Magazine changer; Custom File memory.  |   |
|                        | CDP-CX151(RI)   | 100           | -8X  | F/V/H  | T                                 | 20-20 ±0.5                         | 110                    | 0.003  | B   | 32                                | D/T/E/R   | 22           | 800.00             | Portable   |   |
|                        | CDP-CX100(RI)   | 100           | -8X  | F/V/H  | T                                 | 20-20 ±0.5                         | 116                    | 0.0025 | B   | 32                                | D/T/E/R   | 22           | 1200.00            |  |   |
|                        | D-131   | 1             | 1  | F/H  |                                   | 20-20 +1, -2                       | 92                     | 0.007  |   | 22                                | D/T/E/R   | 0.6          | 139.95             |  |   |
|                        | D-133   | 1             | 1  | F/H  |                                   | 20-20 +1, -2                       | 92                     | 0.007  |   | 22                                | D/T/E/R   | 0.6          | 149.95             |  |   |
|                        | D-132CK   | 1             | 1  | F/H  |                                   | 20-20 +1, -2                       | 92                     | 0.007  |   | 22                                | D/T/E/R   | 0.6          | 169.95             |  |   |
|                        | D-137CR(RI)   | 1             | 1  | F/H  |                                   | 20-20 +1, -2                       | 93                     | 0.006  |   | 22                                | D/T/E/R   | 0.6          | 169.95             |  |   |
|                        | D-231   | 1             | 1  | F/H  |                                   | 20-20 +1, -2                       | 93                     | 0.006  |   | 22                                | D/T/E/R   | 0.7          | 159.95             |  |   |
|                        | D-232   | 1             | 1  | F/H  |                                   | 20-20 +1, -2                       | 93                     | 0.006  |   | 22                                | D/T/E/R   | 0.7          | 189.95             |  |   |
|                        | D-235CK   | 1             | 1  | F/H  |                                   | 20-20 +1, -2                       | 93                     | 0.006  |   | 22                                | D/T/E/R   | 0.7          | 219.95             |  |   |
|                        | D-421SP   | 1             | 1  | F/H  |                                   | 20-20 +1, -2                       | 90                     | 0.008  |   | 22                                | D/T/E/R   | 1            | 344.95             |  |   |
|                        | D-830K  | 1             | 1  | F/H  |                                   | 20-20 +1, -2                       | 93                     | 0.006  |   | 22                                | D/T/E/R   | 0.6          | 239.95             |  |   |
|                        | D-824K  | 1             | 1  | F/H  |                                   | 20-20 +1, -2                       | 96                     | 0.0065 |   | 22                                | D/T/E/R   | 0.7          | 259.95             |  |   |
|                        | D-826K  | 1             | 1  | F/H  |                                   | 20-20 +1, -2                       | 96                     | 0.0065 |   | 22                                | D/T/E/R   | 0.7          | 279.95             |  |   |



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# CD PLAYERS & TRANSPORTS

| MANUFACTURER         | Model<br>(RI) = Remote Included<br>(RO) = Remote Optional | Disc Capacity | Decoding System:<br>Number of Bits—Oversampling Rate |       | Analog Outputs: Freq. F, Variable=V,<br>Balanced=B, Headphone=H | Digital Outputs Included—See Code | Frequency Response, Hz to kHz, ±dB | S/N Ratio, A* Wtd. dB | THD, % | Remaining-Time Display: T, To Disc End=D,<br>To Track End=T, Both=B | Number of Programmable Selections | Repeat Functions: Entire Disc=D, Track=T,<br>A-B Phrase=P, Entire Program=E,<br>Random Play=R | Weight, Lbs. | Price, \$   | Notes  |
|----------------------|---|---------------|--|-------|---|-----------------------------------|------------------------------------|-----------------------|--------|---|-----------------------------------|---|--------------|---|--------|
|                      |   |               |  |       |   |                                   |                                    |                       |        |   |                                   |   |              |   |        |
| SONY<br>(Continued)  | D-828K(RI)  | 1             | 1  | F/H   | T   | 20-20 +1.-2                       | 96                                 | 0.0065                |        | 22  | D/T/E/R                           | 0.7   | 299.95       | As above.<br>Portable; 6-S anti-shock memory;<br>wired remote.<br>Portable; built-in monitor speaker.<br>†At 1 V rms.   |        |
|                      | D-335(RI)   | 1             | 1  | F/H   | T   | 20-20 +1.-2                       | 92                                 | 0.005                 |        | 22  | D/T/E/R                           | 0.7   | 349.95       |   |        |
|                      | D-1000  | 1             | 1  | H     |   |                                   | 20-20 +1.-3                        | 91                    | 0.01†  |   | 0                                 | D   | 1            |   | 199.95 |
| SONY ES              | CDP-C601ES(RI)  | 5             | -8X  | F/V/H | T   | 2-20 ±0.3                         | 116                                | 0.0025                | B      | 32  | D/T/E/R                           | 14  | 420.00       | Seven adjustable DSP modes.<br>Custom File memory.  |        |
|                      | CDP-C701ES(RI)  | 5             | -8X  | F/V/H | T   | 2-20 ±0.3                         | 116                                | 0.0025                | B      | 32  | D/T/E/R                           | 19  | 570.00       |   |        |
|                      | CDP-C801ES(RI)  | 5             | -8X  | F/V/H | T   | 2-20 ±0.3                         | 116                                | 0.0023                | B      | 32  | D/T/E/R                           | 20  | 770.00       |   |        |
|                      | CDP-C90ES(RI)   | 10            | -8X  | F/V/H | T   | 2-20 ±0.3                         | 110                                | 0.003                 | B      | 32  | D/T/E/R                           | 14  | 520.00       |   |        |
|                      | CDP-X202ES(RI)  | 1             | -8X  | F/V/H | T   | 2-20 ±0.3                         | 117                                | 0.0023                | B      | 24  | D/T/E/R                           | 12  | 420.00       |   |        |
|                      | CDP-X303ES(RI)  | 1             | -8X  | F/V/H | T   | 2-20 ±0.3                         | 118                                | 0.0017                | B      | 24  | D/T/E/R                           | 25  | 730.00       |   |        |
|                      | CDP-X707ES(RI)  | 1             | -8X  | F/V/H | C/T   | 2-20 ±0.3                         | 119                                | 0.0015                | B      | 24  | D/T/E/R                           | 32  | 2000.00      |   |        |
| STANTON              | CD-33   | 2             | 16-16X   | F     |   | 10-20 ±1                          | 93                                 | 0.03                  | B      | 90  |                                   | 19  | 1175.00      | Pitch control.  |        |
|                      | CD-11   | 2             | 16-16X   | F     |   | 10-20 ±1                          | 93                                 | 0.03                  | T      |   |                                   | 17  | 710.00       | As above.   |        |
| SUMD                 | Axiom(RI)   | 1             |  |       | C/B   |                                   |                                    |                       | B      | 30  | D/T/R                             | 25  | 899.00       | CD transport; master clock sync with<br>Theorem D/A converter.  |        |
| TEAC                 | VRDS-20(RI)   | 1             | 20-8X  | F/B   | C/T/A/B   | 1-20 ±0.3                         | 110                                | 0.0013                | B      | 20  | D/T/P/E                           | 31  | 2300.00      |   |        |
|                      | VRDS-10(RI)   | 1             | 20-8X  | F     | C/T   | 1-20 ±0.3                         | 110                                | 0.0013                | B      | 20  | D/T/P/E                           | 22  | 1250.00      |   |        |
|                      | VRDS-7(RI)  | 1             | 20-8X  | F     | C/T   | 1-20 ±0.3                         | 110                                | 0.0015                | B      | 20  | D/T/E                             | 20  | 1000.00      |   |        |
|                      | CD-P4500(RI)  | 1             | 20-8X  | F/H   | C   | 0-20 ±1                           | 105                                | 0.002                 | B      | 20  | D/T/P/E                           | 13  | 460.00       |   |        |
|                      | CD-P3500(RI)  | 1             | 20-8X  | F/H   | C   | 1-20 ±0.5                         | 104                                | 0.0022                | B      | 20  | D/T/P/E                           | 10  | 340.00       |   |        |
|                      | PD-435(RI)  | 1             | 18-8X  |       |   | 5-20 ±1                           | 100                                | 0.005                 |        | 20  | D/T                               | 8   | 189.00       |   |        |
|                      | PD-D860(RI)   | 5             | 18-8X  |       |   | 5-20 ±1                           | 100                                | 0.03                  |        | 32  | D/T                               | 11  |              |   |        |
| TECHNICS             | SL-PS840(RI)  | 1             | 1-64X  | H     |   | 2-20 ±1                           | 118                                | 0.0018                | B      | 32  | D/T/R                             | 12  | 429.95       | Digital servo; peak level search.   |        |
|                      | SL-PG440(RI)  | 1             | MASH   | H     |   | 2-20 ±1                           | 100                                | 0.007                 | B      | 20  | D/T/R                             | 7   | 189.95       | As above; synchro edit.   |        |
|                      | SL-PG340  | 1             | MASH   |       |   | 2-20 ±1                           | 100                                | 0.007                 | B      | 20  | D/T/R                             | 7   | 169.95       | As above.   |        |
|                      | SL-PD967(RI)  | 5             | MASH   |       |   | 2-20 ±1                           | 100                                | 0.007                 | B      | 32  | D/T/E/R                           | 10  | 249.95       | Digital servo; intro scan.  |        |
|                      | SL-PD867(RI)  | 5             | MASH   |       |   | 2-20 ±1                           | 100                                | 0.007                 | B      | 32  | D/T/E/R                           | 10  | 229.95       | As above.   |        |
|                      | SL-PD667  | 5             | MASH   |       |   | 2-20 ±1                           | 100                                | 0.007                 | B      | 32  | D/T/E/R                           | 10  | 199.95       | Digital servo.  |        |
|                      | SL-PD1000(RI)   | 5             | MASH   |       |   | 2-20 ±1                           | 100                                | 0.007                 | B      | 32  | D/T/E/R                           | 10  | 299.95       | Intro scan; edit function.  |        |
| THETA DIGITAL        | Data Basic(RI)  | 1             |  |       | C/B   |                                   |                                    |                       | No     | 20  | D/T/P/E                           | 25  | 1750.00      | CD transport; optional AT&T output.   |        |
| TIMBRE<br>TECHNOLOGY | TT-2(RI)  | 1             |  |       | C/T/A/B   |                                   |                                    |                       | B      | 24  | D/T/E                             |   | 3495.00      | CD transport.   |        |
| VIMAK                | DT-1000(RI)   | 1             |  |       | C/T/A/B   |                                   |                                    |                       | B      | 24  | D/T/P/E/R                         | 42  | 5900.00      | CD-RDM transport; RS232/485 port;<br>custom indexes for 1000 discs; five digital<br>outputs; programmable.<br>Delta Sigma D/A conversion; accepts up<br>to 24-bit data; applies dither; volume and<br>balance control for headphone output; two<br>digital inputs; optional AT&T input, AT&T<br>output, and balanced analog output.<br>Digital preamplifier/CD player (see<br>also "Preamps"); conversion, data<br>acceptance, and dither as above; digital<br>volume and balance controls; two digital<br>inputs; input and output options as above. |        |
|                      | DT-800(RI)  | 1             | 18-64X   | F/H   | C/T   | 5-20<br>+0.1,-0.5                 | 102                                | 0.003                 | B      | 24  | D/T/P/E/R                         | 22  | 4500.00      |   |        |
|                      | DT-800 MKII(RI)   | 1             | 18-64X   | V/H   | C/T   | 5-20<br>+0.1,-0.5                 | 102                                | 0.003                 | B      | 24  | D/T/P/E/R                         | 26  | 5400.00      |   |        |
| WADIA DIGITAL        | Wadia 7(RI)   | 1             |  |       | C/T/A/B   |                                   |                                    |                       | B      | 40  | D/T/P/E                           | 55  | 11,000.      | CD transport; external power supply.<br>CD transport.<br>As above.<br>Digital volume control; four digital inputs.<br>Digital volume control.   |        |
|                      | Wadia 20(RI)  | 1             |  |       | C/T/A/B   |                                   |                                    |                       | B      | 20  | D/T/P/E                           | 43  | 4000.00      |   |        |
|                      | Wadia 22(RI)  | 1             |  |       | C/T/A/B   |                                   |                                    |                       | B      | 20  | D/T/P/E                           | 25  | 2000.00      |   |        |
|                      | Wadia 16(RI)  | 1             | 24-32X   | V/B   |   |                                   |                                    |                       | B      | 20  | D/T/P/E                           | 45  | 6750.00      |   |        |
|                      | Wadia 21(RI)  | 1             | 18-32X   | V/B   |   |                                   |                                    |                       | B      | 20  | D/T/P/E                           | 35  | 5000.00      |   |        |
| Wadia 23(RI)         | 1   | 18-16X        | F/B  |       |   |                                   |                                    | B                     | 20     | D/T/P/E   | 25                                | 2750.00   |              |   |        |
| WIN RESEARCH         | CDT-10(RI)  | 1             |  |       | C/A/B   |                                   |                                    |                       | T      | 25  | D/E                               | 35  | 3850.00      | Top-loading CD transport.   |        |
| YAMAHA               | CDX-480(RI)   | 1             | †  | V/H   | T   | 2-20 ±0.5                         | 105                                | 0.003                 | B      | 25  | D/T/P/E/R                         | 8   | 249.00       | †S-Bit, 8X.   |        |
|                      | CDC-845(RI)   | 5             | †  | V/H   | T   | 2-20 ±0.3                         | 118                                | 0.002                 | B      | 40  | D/T/P/E/R                         | 13  | 499.00       | †Pro-Bit, 8X.   |        |
|                      | CDC-745(RI)   | 5             | †  | V/H   | T   | 2-20 ±0.5                         | 115                                | 0.0025                | B      | 40  | D/T/P/E/R                         | 13  | 399.00       | †As above.  |        |
|                      | CDC-645(RI)   | 5             | †  | V/H   | T   | 2-20 ±0.5                         | 110                                | 0.003                 | B      | 20  | D/T/P/E/R                         | 13  | 299.00       | †S-Bit Plus, 8X.  |        |
|                      | CDV-300K(RI)  | 1             | †  | V/H   | T   | 20-20 ±0.5                        | 120                                | 0.003                 | B      | 20  | D/T/P/E/R                         | 22  | 899.00       | CD/video/disc/karaoke player. †As above.  |        |
|                      | CDV-870(RI)   | 1             | †  | V/H   | T   | 20-20 ±0.5                        | 120                                | 0.003                 | B      | 20  | D/T/P/E/R                         | 22  | 749.00       | CD/video/disc player. †As above.  |        |
| YBA                  | CD 1(RI)  | 1             | 18-4X  |       | C   |                                   |                                    | 0.07                  |        |   |                                   |   | 6000.00      | Top loading.  |        |
|                      | CD 2(RI)  | 1             | 18-4X  |       | C   |                                   |                                    | 0.07                  |        |   | E                                 | 35  | 4800.00      | As above; optional balanced analog or<br>AES/EBU output; upgradable.  |        |
|                      | CD 3(RI)  | 1             | 18-4X  |       | C   |                                   |                                    | 0.07                  |        |   |                                   |   | 3400.00      | Top loading; upgradable.  |        |



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# D/A CONVERTERS

| MANUFACTURER                 | Model<br>(R) = Remote Included,<br>(RO) = Remote Optional | Sampling Rates:<br>48 kHz = A, 44.1 kHz = B, 32 kHz = C | Decoding System:<br>Number of Bits—<br>Oversampling Rate | Number of Converters per Channel | Preamp Functions: Volume = V,<br>Tone = T, Source Selection = S | Provision for Future Upgrade?<br>Board Replacement = B,<br>ROM Change = R, Software Change = S | Analog Outputs: Fixed = F,<br>Variable = V, Balanced = B | Digital Inputs Included:<br>Number and Type—See Code | Digital Outputs Included:<br>Number and Type—See Code | Frequency Response for<br>44.1-kHz Sampling,<br>Hz to kHz, ±dB | S/N Ratio, "A" Wtd., dB | THD, %        | Price \$           | Notes   |
|------------------------------|---|---|--|----------------------------------|---|--|--|--|---|--|-------------------------|---------------|--------------------|---|
| ACCU PHASE                   | DC-91(RO)   | A/B/C   | †  | 16                               | V/S   | B  | F/B  | 5C/5T/1A/<br>2B                                      | 3C/3T/1B  | 4-20 ±0.3  | 120                     | 0.002         | 13,495.            | †16 to 24 bits, 8X.   |
| ADCOM                        | GDA-600   | B   | 20-8X  | 1                                | S   | No   | F  | 2C/1T/1B   | 1C  | 0-20 +0,-0.5   | 112                     | 0.009         | 750.00             | Selectable polarity.  |
| ALTIS AUDIO                  | Ultima(RI)  | A/B/C   | 1-384X   | 2                                | V   | B/R/S  | F/V/B  | 2C/1A  | †   | 10-24.1 ±0.1   | 102                     | 0.01          | 11,500.            | †One coaxial and one SMA optical. Selectable polarity, external power supply.                                   |
|                              | DSP-5T(RI)  | A/B/C   | 1-384X   | 1                                | V   | B/R/S  | F/V/B  | 2C/1A  | †   | 10-24.1 ±0.1   | 100                     | 0.01          | 3950.00            | Selectable polarity.  |
| ANALOG RESEARCH              | Segue   | A/B/C   | 20-8X  | 1                                |   | No   | F/V  | 2C   |   | 2-20 +0,-0.2   | 103                     | 0.01          | 2500.00            | Selectable polarity.  |
| ANODYNE GROUP                | Vertex  | A/B/C   | 20-8X  | 1                                |   | B  | F  | 1C/1B  |   | 4-20 ±0.7  | 95                      | 0.09          | 5000.00            | Separate chassis for digital and tube analog stages.  |
|                              | ATAS  | A/B/C   | 20-8X  | 1                                |   | B  | F  | 1C/1B  |   | 4-20 ±0.9  | 94                      | 0.09          | 4000.00            | Tube analog stage; no negative feedback.  |
|                              | Adapt   | A/B/C   | 20-8X  | 1                                |   | B  | F  | 1C/1B  |   | 4-20 ±0.3  | 96                      | 0.07          | 3000.00            | Tube/FET analog stage; no negative feedback.  |
|                              | Tube DAC<br>FET DAC                                       | A/B/C<br>A/B/C  | 18-8X<br>20-8X   | 1<br>1                           |   |  | F<br>F   | 1C<br>1C/1B  |   | 4-20 ±1.0<br>4-20 ±0.25  | 94<br>101               | 0.01<br>0.009 | 1500.00<br>2000.00 | No negative feedback. Tube output. No negative feedback.  |
| ARAGON                       | D2A Mk.II   | A/B/C   | 18-8X  | 2                                | S   | B  | F  | 2C/1T  | 1C  | 20-20 ±0.3   | 110                     | 0.005         | 1595.00            | External power supply; Class A.   |
| ARCAM                        | Delta Black Box 50  | A/B/C   | †  | 2                                |   | B  | F  | 1C/1T  | 1C  | 10-20 ±0.5   | 103                     | 0.005         | 899.00             | †Hybrid, 18-bit/1-bit. Selectable polarity; master clock sync with Delta 250 CD transport. Clock sync as above. |
|                              | Delta Black Box 500                                       | A/B/C   | 1  | 2                                | V/S   | B  | V  | 2C/2T/1B   | 1C/1T   | 20-20 ±0.05  | 105                     | 0.005         | 1500.00            |   |
| AUDIO ALCHEMY                | DAC-in-the-Box  | A/B/C   | 18-8X  | 1                                |   | No   | F  | 1C/1T  |   | 20-20 ±0.1   | 100                     | 0.005         | 259.00             | Choice of external power supply.  |
|                              | DDE v1.1  | A/B/C   | 1-8X   | 1                                | S   |  | F  | 1C/1T  | 1C  | 20-20 ±0.1   | 90                      | 0.08          | 459.00             | As above; passive integrator stage; I <sup>2</sup> S bus output.  |
|                              | DDE v3.0(RO)  | A/B/C   | 1-8X   | 1                                | V/S   | No   | F/V  | 1C/1T/1B   | 1C  | 20-20 ±0.1   | 95                      | 0.005         | 799.00             | Choice of external power supply; digital volume control via remote.   |
|                              | DTI   | A/B/C   |  |                                  |   |  |  | 1C/1T  | 1C  |  |                         |               | 259.00             | PLL jitter-reduction device; selectable polarity; I <sup>2</sup> S bus output.                                  |
|                              | XDP   | A/B/C   | 1  | 1                                |   | No   | F  | †  |   | 20-20 ±0.1   | 92                      | 0.006         | 549.00             | Class-A output. †I <sup>2</sup> S input only.   |
|                              | DTI/XDP   | A/B/C   | 1-8X   | 1                                | S   | †  | F  | 1C/1T  | 1C  | 20-20 ±0.1   | 95                      | 0.01          | 808.00             | Two chassis; jitter reduction; I <sup>2</sup> S feed to model above. †DTI chassis upgradable to model below.    |
|                              | DTI-Pro   | A/B/C   |  |                                  | S   | B/R/S  |  | 1C/1T/1A/<br>1B                                      | 1C/1A/1B  |  |                         |               | 1295.00            | Jitter-reduction and resolution-enhancement device.   |
| AUDIOLAB                     | 8000DAC   | A/B/C   | 20-8X  |                                  |   |  | F  | 1C/2A/1B   | 2C  | 2-20 ±0.5  | 100                     | 0.003         | 1295.00            |   |
| AUDIO NOTE                   | DAC-1   | A/B   | 20-8X  | 1                                |   | B  | F  | 3C/1T  | 2C  |  |                         |               | 1195.00            | Tube output, no negative feedback.  |
|                              | DAC-2   | A/B   | 20-8X  | 1                                |   | B  | F  | 3C/1T  | 2C  |  |                         |               | 1895.00            | As above.   |
|                              | DAC-3   | A/B   | 20-8X  | 1                                |   | B  | F  | 3C/1T  | 2C  |  |                         |               | 2995.00            | As above.   |
|                              | DAC-3/Signature   | A/B   | 20-8X  | 1                                |   | B  | F  | 3E/1T  | 2C  |  |                         |               | 4995.00            | As above.   |
|                              | DAC-4   | A/B   | 20-8X  | 1                                |   | B  | F  | 3C/1T  | 2C  |  |                         |               | 7995.00            | HD/CD capable.  |
| AUDIO RESEARCH               | DAC 2   | A/B/C   | 20-8X  | 1                                |   | B  | F/B  | 1C/1T/1A/<br>1B                                      | 1T  | 0.01-20 ±0.2   | 100                     | 0.006         | 3495.00            | Selectable polarity.  |
| AUDIO SYNTHESIS              | DA-X  | A/B/C   | 20-8X  | 1                                |   | B  | F  | C/T/A  |   | 1-20 ±0.25   | 108                     | 0.0002        | 2995.00            | Three additional inputs optional.   |
|                              | DA-X Pro Balanced   | A/B/C   | 20-8X  | 1                                |   | B  | F  | C/T/A/B  |   | 1-20 ±0.25   | 108                     | 0.0002        | 4140.00            | As above.   |
| BEL CANTO DESIGN             | Aida  | A/B/C   | 1-64X  | 1                                | S   | B  | F/B  | 1C/1A  |   | 20-20 ±0.05  | 98                      | 0.005         | 1690.00            |   |
| BITWISE AUDIO TECHNOLOGIES   | Musik System Zero   | B   | 20-8X  | 1                                | S   | B  | F  | 1C/1T  |   | 0-22 ±0.1  | 98                      | 0.01          | 1495.00            | Upgradable to model below.  |
|                              | Musik System Zero Plus                                    | B   | 20-8X  | 1                                | S   | B/R/S  | F  | 1C/1A  |   | 0-22 ±0.1  | 98                      | 0.01          | 2150.00            | Master clock sync with Musik System CDT-One CD transport.   |
|                              | Musik System One MKII                                     | B   | 18-8X  | 1                                | S   | B  | F  | 2C   |   | 0-22 ±0.1  | 98                      | 0.01          | 2495.00            | Analog and digital stages in separate chassis.  |
|                              | Musik System Two tc                                       | B   | 20-8X  | 2                                | S   | B/R/S  | F/B  | 2C/1T/1A/<br>1B                                      |   | 0-22 ±0.1  | 98                      | 0.001         | 5950.00            | As above; master clock sync with Musik System CDT-One CD transport.   |
| CALIFORNIA AUDIO LABS        | Sigma II  | A/B/C   | 1-64X  | 1                                | S   | B  | F  | 1C/1T  |   | 5-22 +0,-0.05  | 100                     | 0.02          | 750.00             | Delta Sigma D/A conversion; tube analog stage; optional AT&T and/or AES/EBU inputs.                             |
|                              | Alpha   | A/B/C   | 1-64X  | 1                                | S   | B  | F  | 1C/1T/1A/<br>1B                                      |   | 5-22 +0, 0.05  | 100                     | 0.01          | 1495.00            | Delta Sigma D/A conversion; tube analog stage.  |
| CAMELOT TECHNOLOGY           | Arthur  | B   | 1-256X   | 1                                |   |  | F  | 1C/1T  | 1C  | 20-20 ±0.15  | 99                      | 0.003         | 1195.00            | Battery operated; selectable polarity; optional AT&T output.  |
| CELLO MUSIC AND FILM SYSTEMS | Series 8.1 DAC  | A/B/C   | 20-8X  | 1                                | S   | B/R/S  | V/B  | 1B/3C/1T   |   | 10-20 +0.05,-0.2   | 108.5                   | 0.0176        | 6000.00            | Optional SDF (pro) input.   |
|                              | Series 8.1 ADC  | A/B/C   |  | 1                                | V/S   | B/R/S  |  | 1C/1T/1B   | 1C/1T/1B  | 10-20 +0.05,-0.2   |                         | 0.001         | 6000.00            | 20-bit A/D converter.   |

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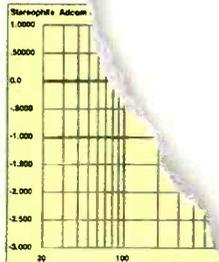


Fig. 1 Adcom GDA-600, frequency response (top); de-emphasis error channel dashed, 0.5dB/div.

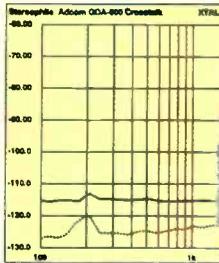


Fig. 2 Adcom GDA-600, crossover response (top); dashed, 10dB/vertical div.

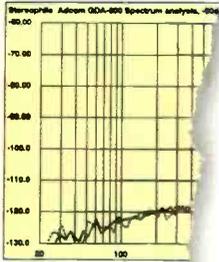


Fig. 3 Adcom GDA-600, 1kHz tone at -9 dB; spurious (1/2-octave) dashed.

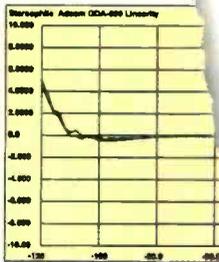


Fig. 4 Adcom GDA-600, dynamic linearity (right channel); dashed, 2dB/vertical div.

## “Nothing less than a steal.”

—Robert Harley, *Stereophile*

There's something in this review of our GDA-600 digital-to-analog converter that the competition doesn't want you to see. Maybe it's the fact that the GDA-600 makes digital formats sound richer and more musical. Or that it has advanced 20 bit conversion architecture and a Class "A" analog output stage. But what they really don't want you to see is that the GDA-600 costs much less than you might expect. For the full review see *Stereophile*, Volume 17, No. 3, (March '94). Or, if your copy has been stolen, give us a call.

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*details you can hear*



# A DISCRETE PROPOSITION

Ten years ago the CD promised "perfect sound...forever."

But something vital was missing for those with an ear for the discreet.

Call it sonic character. Or audio integrity. But the embedded nuances that breathe brilliance and vividness into a recording were lost simply because data could not be accurately decoded and played back.

Until now.

Introducing the DS Pro Generation V digital processor from Theta Digital.

The Generation V is the progeny of years of Theta research and evolution, surpassing not only our proprietary standards for high-quality digital playback, but also those of competitors which sell for thousands of dollars more.

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All of which means digital playback has finally come of age.

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THETA DS Pro  
Generation V  
digital signal processor



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# D/A CONVERTERS

| MANUFACTURER                | Model<br>(R) <sup>1</sup> =Remote Included<br>(RO) <sup>2</sup> =Remote Optional | Sampling Rates:<br>48 kHz=A, 44.1 kHz=B, 32 kHz=C | Decoding System:<br>Number of Bits—<br>Oversampling Rate | Number of Converters per Channel | Preamp Functions: Volume=V,<br>Tone=T, Source Selection=S | Provision for Future Upgrade?<br>Board Replacement=R,<br>ROM Changes=K, Software Change=S | Analog Outputs: Fixed=F,<br>Variable=V, Balanced=B | Digital Inputs Included,<br>Number and Type—See Code | Digital Outputs Included,<br>Number and Type—See Code | Frequency Response for<br>44.1-kHz Sampling,<br>Hz to kHz, ±dB | S/N Ratio: "A" Wtd., dB | THD, %         | Price, \$          | Notes  |
|-----------------------------|--|---|--|----------------------------------|---|---|--|--|---|--|-------------------------|----------------|--------------------|--|
|                             |  |   |  |                                  |   |   |  |  |   |  |                         |                |                    |  |
| CONRAD-JOHNSON              | D/A-1<br>Premier Nine  |   | 1-256X<br>1-256X   | 1<br>1                           | S<br>S  | B<br>B  | F<br>F   | 2C/1T<br>3C/1T/1A                                    | 1C<br>1C  | 20-20 ±0.5<br>20-20 ±0.5                                       |                         | 0.1<br>0.1     | 1695 00<br>3495 00 | Optional AT&T input.<br>Tube analog section.   |
| COUNTERPOINT                | DA-10A   | A/B/C   | 20-16X   |                                  | S   | B/S   | F  | 4C/2T/1B   | 1C/1T   | 20-20 ±0.3   | 100                     | 0.02           | 1695 00            | Optional interchangeable<br>converter boards, master<br>clock sync with DA-11A<br>CD transport, and low-<br>jitter receiver.<br>As above.  |
|                             | DA-10ST  | A/B/C   | 20-16X   |                                  | S   | B/S   | F  | 4C/1T/2A/<br>1B                                      | 1C/1T   | 20-20 ±0.3   | 100                     | 0.02           | 1895 00            |  |
| CURCIO AUDIO<br>ENGINEERING | MCD12V   | B   | 16-4X  | 1                                | †   | No  |  | 1C   | 1C  | 2-20 ±0.5  | 98                      | 0.003          | 2500 00            | †Optional passive<br>preamp. Tube analog<br>stage; kit, \$1200.00.   |
| DENON                       | DA-S1  | A/B/C   | 20-8X  | 2                                | S   |   | F/B  | 2C/1T/1A/<br>1B                                      | 1T/1A   | 20-20 ±0.2   | 120                     | 0.0015         | 7000 00            | Proprietary D/A<br>conversion; master clock<br>sync with DP-S1<br>CD transport.  |
|                             | DA-500   | A/B/C   | 20-8X  | 1                                | S   |   | F  | 2C/3T  | 1T/1C   | 20-20 ±0.2   | 100                     | 0.0025         | 500 00             |  |
| DODSON AUDIO                | DAC-263  | A/B/C   | 20-8X  | 2                                | None  | B   | F  | 1C   | None  | 20-20 ±0.2   | 110                     | 0.002          | 1795 00            | Selectable polarity;<br>optional AT&T or<br>AES/EBU inputs;<br>optional balanced<br>analog outputs.  |
| DPA DIGITAL                 | TLB-II   | A/B/C   | 1-192X   | 1                                |   | B   | F  | 1C/1T  |   | 3-20 ±0.5  | 100                     | 0.009          | 795 00             | Master clock sync with T1<br>CD transport.   |
|                             | TBB<br>PDM One<br>Series 3   | A/B/C<br>A/B/C                                    | 1-192X<br>1-192X   | 1<br>1                           |   | B<br>B  | F<br>F   | 1C/1T<br>1C/1T                                       |   | 3-20 ±0.5<br>3-20 ±0.5   | 100<br>106              | 0.009<br>0.009 | 1195 00<br>2395 00 | As above.<br>As above: analog and<br>digital stages in separate<br>chassis.  |
|                             | PDM 256  | A/B/C   | †  | 2                                |   | B   | F  | 1C/1T/1A   | 1C  | 3-20 ±0.5  | 98                      | 0.03           | 5995 00            | †Proprietary. Dither<br>adjustment.  |
|                             | PDM 1024   | A/B/C   | †  | 4                                |   | B   | F  | 2C/1T/1A   | 1C  | 3-22 ±0.5  | 98                      | 0.03           | 9995 00            | As above, two external<br>power supplies.  |
| EAD                         | DSP-9000Pro<br>(R1)  | A/B/C   | †  | 2                                | V/S   | B/S   | V  | 2C/2T/2A/<br>2B                                      | 1C/1B   | 0-20 ±0.1  | 100                     | 0.001          | 5500 00            | †20-bit; selectable, 4X<br>or 8X. External power<br>supply; hybrid analog/<br>digital volume control;<br>optional balanced analog<br>output, \$1000.00.  |
|                             | DSP-7000<br>Series II  | A/B/C   | †  | 2                                | S   | B   | F  | 1C/1T/1A   | 1C  | 0-20 ±0.1  | 100                     | 0.001          | 1995 00            | Optional balanced analog<br>output, \$399.00.  |
|                             | DSP-1000<br>Series II  | A/B/C   | 20-4X  | 2                                | S   | B   | F  | 1C/1T/1A   | 1C  | 0-20 ±0.1  | 100                     | 0.001          | 999 00             |  |
| ENCORE<br>ELECTRONICS       | Pyramid 1DAC   | A/B/C   | 20-256X  | 2                                |   | B   | F/B  | 1A/1B  |   | 20-20 ±0.1   | 110                     | 0.01           | 4500 00            | Optional Toslink-to-AT&T<br>adaptor; without balanced<br>analog output, \$3500.00.   |
|                             | Pyramid 1(M)<br>System(R1)   | A/B/C   | 20-256X  | 2                                | V/S   | B   | F/V/B  | 1C/1T/1A/<br>1B                                      | 2A/2B   | 20-20 ±0.1   | 110                     | 0.01           | 14,500             | Controller and separate<br>D/A modules with analog<br>preamps; balanced and<br>unbalanced analog inputs;<br>optional Toslink-to-AT&T<br>adaptor; without balanced<br>analog output, \$11,500;<br>stereo/mono version,<br>\$16,500. |
| ENSEMBLE                    | Dichrono DAC   | A/B/C   | 20-8X  | 1                                | S   | B   | F/B  | 4C/1B  |   | 20-20 ±0.05  | 108                     | 0.003          | 8150 00            | Selectable polarity; one<br>or more AT&T inputs<br>optional.   |
|                             | Dichrono<br>DAC/PRE  | A/B/C   | 20-8X  | 1                                | V/S   | B   | F/V/B  | 4C/1B  | 1C  | 20-20 ±0.05  | 108                     | 0.003          | 9650 00            | As above; integral<br>preamp; two analog<br>inputs.  |
| ENTEC                       | Number<br>Cruncher 1.1   | A/B/C   | †  |                                  |   | B   | F  | 2C   |   | 0-20 ±0.1  |                         |                | 2295 00            | †Delta Sigma D/A<br>conversion. Includes<br>data-transmitter module<br>(fits on CD players).   |
| ESOTERIC                    | D-2  | A/B/C   | 18-8X  | 1                                | V/S   | No  | V/B  | 2C/2T  | C   | 0-20 ±0.3  | 110                     | 0.0014         | 3500 00            |  |
|                             | D-10   | A/B/C   | 18-4X  | 1                                | S   | No  | F  | 2C/2T  | C   | 0-20 ±0.5  | 100                     | 0.002          | 2200 00            |  |
|                             | D-700  | A/B/C   | 20-8X  | 1                                | S   | No  | F  | 2C/2T  | C   | 0-20 ±0.1  | 110                     | 0.0016         | 1350 00            |  |
| JRM                         | DA-20  | A/B/C   | 24-8X  | 4                                | V/T/S   |   | F/V  | 6C   |   | 0-20 ±0.01   |                         | 0.001          | 900 00             | For sampling rates from<br>25 to 50 kHz; compatible<br>with variable-pitch<br>CD players; 24-bit input.  |
| KINERGETICS<br>RESEARCH     | KSP-3(R1)  | B   | 20-8X  | 4                                | S   | B   | F  | 2C/1T  | None  | 20-20 ±0.2   | 98                      | 0.05           | 2995 00            | Optional AT&T input.   |
| KRELL                       | Reference 64   | A/B/C   | 24-64X   | 1                                |   | S   | F/B  | 1C/1T/1A/<br>1B                                      | 1C  | 20-20 ±0.1   | 100                     | 0.01           | 14,000             | Krell-written decoding<br>software; master clock<br>sync with DT-10 and<br>KPS-201 CD transports.  |
| LANGEVIN                    | 20 Bit D to A<br>Langevin  | A/B/C   | 20-8X  | 1                                | V/S   | No  | V  | 1C/1B  |   | 20-20 ±0.1   | 100                     | 0.002          | 1575 00            | Selectable polarity.   |
| MARK<br>LEVINSON            | No. 30.5   | A/B/C   | 20-8X  | 2                                | S   | B   | F/B  | 2C/2T/1A/<br>3B                                      | 1T/2B   | 20-20 +0,-0.2  | 105                     | 0.003          | 15 950             | Upgrade of No. 30;<br>external power supply.   |
|                             | No. 35   | A/B/C   | 20-8X  | 2                                | S   | B   | F/B  | 2C/2T/1A/<br>2B                                      | 1T/1B   | 20-20 +0,-0.2  | 105                     | 0.003          | 7950 00            |  |
| LINN                        | Numerik  | B   | 20-8X  | 1                                |   |   | F  | 2C   |   |  |                         |                | 2395 00            | Master clock sync with<br>Karik CD player.   |
| MACH 1<br>ACOUSTICS         | DMS Standard   | A/B/C   | 20-8X  | 1                                |   | No  | F/B  | 1C/1T/1B   |   | 20-20 ±0.01  | 105                     | 0.001          | 1795 00            |  |
|                             | DMS Reference  | A/B/C   | 20-8X  | 1                                |   | No  | F/B  | 1C/1T/1B   |   | 20-20 ±0.01  | 105                     | 0.001          | 2295 00            |  |

# D/A CONVERTERS

| MANUFACTURER          | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | Sampling Rates:<br>48 kHz=A, 44.1 kHz=B, 32 kHz=C | Decoding System:<br>Number of Bits:<br>Oversampling Rate | Number of Converters per Channel | Preamp F. Functions:<br>Tone = T, Source Selection = S | Provision for Future Upgrade?<br>Board Replacement = B,<br>ROM Change = R, Software Change = S | Analog Outputs:<br>Fixed = F,<br>Variable = V, Balanced = B | Digital Inputs Included,<br>Number and Type—See Code | Digital Outputs Included,<br>Number and Type—See Code | Frequency Response for<br>44.1-kHz Sampling,<br>Hz to kHz, ±dB | S/N Ratio, "A" Wtd., dB | THD, % | Price, \$ | Notes  |
|-----------------------|--|---|--|----------------------------------|--|--|---|--|---|--|-------------------------|--------|-----------|--|
| MANLEY LABS           | Reference  | A/B/C   | 20-8X  | 1                                | V/S  | No   | V/B   | 3C/1A/3B   |   | 20-20 ±0.1   | 110                     | 0.002  | 8800.00   | Selectable polarity; tube output; external power supply. Tube output.  |
|                       | Lab Series Delta Sigma                                     | A/B/C   | 1  | 1                                | V/S  | No   | V   | 1C/1B  |   | 20-20 ±0.1   | 100                     | 0.002  | 1150.00   |  |
| MCCORMACK AUDIO       | Digital Drive DAC-1  | B   | 18-256X  | 1                                |  | B  | F   | 1C/1T  |   | 0.5-20 ±0.5  | 92                      | 0.01   | 995.00    | Selectable polarity; optional AT&T output.   |
| MELOS AUDIO           | MAX-3  | A/B/C   | 1-256X   | 1                                |  | B  | F/B   | 2C/1T  | 1C  | 20-20 ±0.1   | 87                      | 0.07   | 1995.00   | Tube analog stage; optional AT&T and AES/EBU inputs and outputs. As above; analog and digital stages in separate chassis.  |
|                       | MAX-3D   | A/B/C   | 1-256X   | 1                                | V  | B  | F/V/B   | 2C/1T  | 1C  | 20-20 ±0.1   | 87                      | 0.07   | 2995.00   |  |
| MERIDIAN              | 563  | A/B/C   | 2-64X  | 2                                |  | B  | F/B   | 3C/1T/1B   | None  | 20-20 ±0.001   | 106                     | 0.003  | 1350.00   |  |
|                       | 606  | A/B/C   | 2-256X   | 2                                |  | B  | F/B   | 2C/2T  | None  | 20-20 ±0.001   | 104                     | 0.004  | 2250.00   |  |
| METAXAS AUDIO SYSTEMS | MASDAC   | B   | 20-8X  | 1                                | None   |  | F/B   | 1C/1B  | None  | 20-20 ±0.1   | 120                     | 0.002  | 4000.00   | Optional power supply, \$2000.00.  |
| MICROMEGA             | Microdac Variodac(RI)                                      | A/B/C   | 1-256X   | 1                                |  | No   | F   | 1C/1T  |   | 2-20 ±0.2  | 96                      |        | 495.00    | Integral preamp (see also "Preamplifiers"). Selectable polarity. As above. †One coaxial and one AES/EBU or one Toslink. Selectable polarity. As above. External power supply; powers Trio 3 CD transport.  |
|                       | DAC Duo BSII   | A/B/C   | 1-256X   | 2                                | V/S  | No   | V   | 1C/1T  |   | 2-20 ±0.2  | 96                      |        | 995.00    |  |
|                       |  | A/B/C   | 1-256X   | 2                                |  | B  | F   | 1C/1T/1B   |   | 2-20 ±0.2  | 96                      |        | 895.00    |  |
|                       |  | A/B/C   | 1-256X   | 1                                |  | No   | F/B   | †  |   | 2-20 ±0.2  | 96                      |        | 995.00    |  |
|                       | T DAC Duo Pro 2 Trio 3BS                                   | A/B/C   | 1-256X   | 1                                |  | No   | F/B   | 1C/1T/1A   | 1C/1T   | 2-20 ±0.2  | 96                      |        | 1295.00   |  |
|                       |  | A/B/C   | 1-256X   | 2                                |  | No   | F/B   | 2C/1T/1A   | 1C/1T   | 2-20 ±0.2  | 96                      |        | 2195.00   |  |
|                       |  | A/B/C   | 1-256X   | 2                                |  | No   | F/B   | 2C/1T/1A   | 1C/1T   | 2-20 ±0.2  | 96                      |        | 4895.00   |  |
| MONARCHY AUDIO        | 22A  | B   | 20-8X  | 1                                | S  | No   | F/B   | 1C/1T  | 1C/1B   | 20-20 ±0.1   | 105                     | 0.002  | 980.00    | Integral preamp (see also "Preamplifiers"). Signal reclocker; with two coaxial outputs or AES/EBU input and output, \$249.00.  |
|                       | M33  | B   | 20-8X  | 1                                | V/S  | No   | F/V/B   | 1C/1T/1B   | 1C  | 20-20 ±0.1   | 105                     | 0.002  | 1199.00   |  |
|                       | DIP  |   |  |                                  |  |  |   | 1C/1T  | 1C/1A   |  |                         |        | 199.00    |  |
| MÖRCH                 | Minuet   | A/B/C   | 20-8X  | 1                                | S  | B  | F   | 3C/1A  | 1C/1A   | 0-20 ±0.1  | 110                     | 0.001  | 4950.00   | With two DACs per channel and balanced analog output, \$6950.00; other input/output options available.   |
| MSB TECHNOLOGY        | MSB Platinum   | A/B/C   | †  | 2                                |  | B  | F/B   | C/A/B  |   | 5-20 ±0.05   | 105                     | 0.012  | 6390.00   | Polarity inversion; 6-V output. †Proprietary ladder DAC. As above; optional AT&T or AES/EBU output, \$440.00 each.   |
|                       | MSB Gold   | A/B/C   | †  | 1                                |  | B  | F   | C  |   | 5-20 ±0.05   | 105                     | 0.012  | 3395.00   | As above.  |
| MUSEATEX AUDIO        | BiDAT(RO)  | A/B/C   | 1-192X   | 1                                | V  | R/S  | F/V/B   | 1C/1T/1A/1B  |   | 20-20 ±0.1   | 100                     | 0.01   | 2199.00   | Anti-jitter circuitry.   |
|                       | idat44   | B   | 1-96X  | 2                                |  | R/S  | F   | 1C/1T  |   | 20-20 ±0.15  | 100                     | 0.01   | 1199.00   | As above.  |
| MUSE ELECTRONICS      | Two  | A/B/C   | 20-8X  | 1                                | S  | B/R/S  | F/B   | 2C   | None  | 20-20 ±0.1   | 95                      | 0.01   | 1700.00   | Optional AES/EBU input.  |
| NAD                   | 010d   | A/B/C   | 18-8X  |                                  |  |  | F   | 2C/1T  |   | 10-23 ±0.2   | 110                     | 0.0025 | 549.00    | MSB trimmer; polarity inversion; Class-A out.  |
| ORITRON               | HF-D1  | A/B/C   | 18-8X  | 1                                |  | B  | F   | 1C/1T  |   | 20-20 ±0.2   | 105                     | 0.006  | 599.95    | Optional AT&T input.   |
|                       | HF-D2  | A/B/C   | 20-8X  | 1                                |  | B  | F   | 1C/1T/1B   | 2C/2B   | 20-20 ±0.2   | 110                     | 0.005  | 1195.00   |  |
| PARASOUND             | DAC-800  | A/B/C   | †  | 1                                |  | No   | F   | 2C/1T  | 1C  | 5-20 ±0.5  | 105                     | 0.005  | 395.00    | †Hybrid, 18-bit/1-bit, 352.8X. Selectable polarity.  |
|                       | DAC-1000   | A/B/C   | ††   | 2                                |  | No   | F   | 1C/1T/1A   | 1C  | 2.5-20 ±0.25   | 110                     | 0.0015 | 735.00    | ††20-bit, 352.8X. As above.  |
|                       | DAC-1500   | A/B/C   | ††   | 2                                |  | No   | F/B   | 2C/1T/1A   | 1C  | 2-20 ±0.25   | 113                     | 0.0015 | 1295.00   | As above.  |
| PINK TRIANGLE         | Ordinal  | A/B/C   | 1-196X   | 1                                | S  | B  | F   | †  | †   | 2-22 ±0.1  | 112                     | 0.005  | 1595.00   | Master clock sync with Cardinal CD player or transport; optional plug-in filters (including HDCD). †includes one digital input; accepts two input or input/output modules. As above; optional balanced analog output and battery power supply. †As above but accepts four input or input/output modules. |
|                       | Dacapo   | A/B/C   | 1-196X   | 1                                | S  | B  | F   | †  | †   | 2-22 ±0.1  | 114                     | 0.004  | 2795.00   |  |
| POINTSOURCE AUDIO     | DA100  | B   | 20-8X  | 1                                |  | No   | V   | 2C/1T/1A   |   | 10-20 ±0.2   |                         | 0.01   | 850.00    |  |
| POLYFUSION AUDIO      | 220  | A/B/C   | 20-8X  | 1                                |  | B  | F   | 1C/1A  | None  | 10-20 ±0.2   | 104                     | 0.006  | 1500.00   | Module; for installation in 940 preamp.  |
|                       | 800 900  | A/B/C   | 20-8X  | 1                                | S  | B  | F   | 3C/2A  | None  | 10-20 ±0.2   | 104                     | 0.006  | 3000.00   | External power supply. As above; integral preamp.  |
|                       |  | A/B/C   | 20-8X  | 1                                | V/S  | B  | F/V/B   | 3C/2A  | None  | 10-20 ±0.2   | 104                     | 0.006  | 4000.00   |  |
| PROCEED               | PDP3   | A/B/C   | 20-8X  | 2                                | S  | B  | F/B   | 1C/1T/1A/1B  | 1C  | 20-20 ±0.0-0.2   | 107                     | 0.004  | 2495.00   |  |
| PS AUDIO (Continued)  | Ultralink Two  | B   | 20-8X  | 1                                |  |  | F/B   | 1C/1T/1A/1B  | 1C  | 20-20 ±0.5   | 110                     | 0.01   | 2295.00   |  |



## CRACKING THE DIGITAL CODE.

THE COMBINATION OF CLOCKING, CONVERSION AND OUTPUT THAT UNLOCKS A NEW LEVEL OF MUSICAL PERFORMANCE.

It's not something you can trust to a sledgehammer or a stick of dynamite. When Sonic Frontiers decided to develop a line of digital products, they realized that to crack the digital code it must be handled delicately - bit by bit. During the initial conceptual design, special consideration was given to the areas of *re-clocking*, *digital-to-analog conversion*, and the *analog output stage*. The result of these efforts is the SFD-1 and SFD-2 Digital Processors and the UltraJitterbug Digital Interface, each sharing a common purpose - the "clean up" of the digital signal. The sonic "payoff" for both music lovers and critics worldwide is readily apparent.

### RE-CLOCKING

All three of Sonic Frontiers' digital products employ the latest UltraAnalog Input Receivers: the AES20/21. These receiver modules combat the problem of jitter, a time variation in the digital signal. They reject the output jitter from your transport or other digital source (from 1 kHz and above) and are also intrinsically low in jitter (less than 40 picoseconds). The SFD-1, SFD-2 and UltraJitterbug utilize these remarkable receivers to re-clock the digital signal which is then fed to the D/A converter modules (or in the case of the UltraJitterbug, to a digital processor). The resulting improvement in sonic performance is outstanding.

### DIGITAL-TO-ANALOG CONVERSION

Again, UltraAnalog was chosen for the job. These newly designed dual DACs, the D20400A (the first significant improvement made to their modules in 5 years), offer without a doubt, the best sound and performance in digital-to-analog conversion going today. This digital-to-analog technology is taken to the limit in the SFD-2, where two dual DACs are used to attain an actual differentially balanced configuration. The SFD-1, utilizing only one dual D20400A and the same basic technology as the SFD-2, offers superb performance and exceptional value.

### ANALOG OUTPUT STAGE

The output sections of the SFD-1 and SFD-2 handle the musical signal with the utmost care. Both of discrete design (no op amps), they share the same circuit topology, with the SFD-1 utilizing more modest components. These two products both profit by utilizing two extremely musical and very reliable Sovtek 6922 tubes as the tube complement of choice for the output buffer (cathode follower) stage. The outcome is a sound which is free from the familiar digital glare.

### THE PAYOFF

These three elements are backed up with the exceptional parts quality, unmatched value, and uncompromising craftsmanship for which Sonic Frontiers has become famous. Add to that a full five-year parts and labor warranty and a one-year warranty on the tubes and you have the right combination for a long-term, satisfying relationship. If you would like to learn more about the Sonic Frontiers UltraJitterbug, SFD-1 or SFD-2 Digital Processors, or any other Sonic Frontiers' product, call or write and ask for the product brochures. We'll be happy to answer your questions on code cracking and how this exquisite "loot" can be obtained.



 **SONIC FRONTIERS**  
INCORPORATED

BREAKING THE SOUND BARRIER



This Month's

**Receivers**

**Technics SA-GX170 Audio/Video Receiver**  
 •100 watts per channel •Special class H circuit provides greater headroom •AM/FM tuner with 30 presets •Wireless remote

Our Low Price **\$179<sup>95</sup>** (TEC SAGX170)

**Sherwood RX-1010 \$119<sup>95</sup>**  
 •35 watts/channel, 30 station presets

**Sherwood RX-4030R \$179<sup>95</sup>**  
 •65 watts/channel, matrix surround, remote

**Technics SA-GX470 \$269<sup>95</sup>**  
 •110 watts/channel, surround sound

**Technics SA-GX550 \$269<sup>95</sup>**  
 •110 watts/channel, matrix surround, remote

**Sherwood RV-5030R \$279<sup>95</sup>**  
 •65 watts/ch. Dolby Pro Logic

**Technics SA-GX670 \$349<sup>95</sup>**  
 •110 watts/channel, matrix surround, remote

**Receivers**

**Sherwood RV-6030R Surround Sound Stereo Receiver**  
 •105 watts per channel front •Surround mode: 75 watts/ch x 3, 24 watts/ch rear •Dolby Pro Logic with digital processor •AM/FM tuner with 30 presets •Unified remote control

Our Low Price **\$349<sup>95</sup>** (SHE RV6030R)

**JVC RX-208 \$149<sup>95</sup>**  
 •40 watts/channel, matrix surround

**JVC RX-315 \$199<sup>95</sup>**  
 •105 watts/channel, remote

**JVC RX-515V CALL**  
 •80 watts/channel, Dolby Pro Logic

**JVC RX-715V CALL**  
 •120 watts/channel, Dolby Pro Logic

**JVC RX-815V CALL**  
 •120 watts/ch, Dolby Pro Logic, EQ, remote

**Yamaha RV-98 CALL**  
 •60 watts/ch, plus surround, Dolby Pro Logic

**Amps/Preamps/Tuners**

**Denon PMA-880R Integrated Amplifier**  
 •75 watts per channel •High-current design increases stability when driving low impedance loads for greater dynamic range with less distortion •Wireless remote control

Our Low Price **\$299<sup>95</sup>** (DNN PMA880R)

**AudioSource TNR ONE \$199<sup>95</sup>**  
 •Tuner, AM/FM, 20 presets

**AudioSource PRE ONE \$229<sup>95</sup>**  
 •Preamplifier, MM/MC phono, tape dub

**AudioSource AMP ONE \$249<sup>95</sup>**  
 •Power Amp, 80 watts/channel, bridgeable

**Denon PMA-1080R \$399<sup>95</sup>**  
 •Integrated Amp, 105 watts per channel

**Perreux EP3 \$749<sup>95</sup>**  
 •Preamplifier, MM/MC phono

**Perreux E110 \$999<sup>95</sup>**  
 •Power Amp, 100 watts/channel

**CD Players/Changers**

**TOP RATED**

**Technics SL-PG440 Remote Compact Disc Player**  
 •MASH 1-bit D/A converter •20-track programming •30-key wireless remote control •Edit guide for taping •Peak level search •Headphone jack with volume control

Our Low Price **\$139<sup>95</sup>** (TEC SLPG440)

**RCA CD1051M \$99<sup>95</sup>**  
 •16-bit, 20-track programming, remote

**JVC XLV-112 \$119<sup>95</sup>**  
 •Dual D/A, 32-track programming

**Technics SL-PG340 \$129<sup>95</sup>**  
 •MASH 1-bit, 20 track programming

**Teac AD-400 \$249<sup>95</sup>**  
 •CD Player/Cassette Deck Combo, remote

**Technics SL-PD1000 \$299<sup>95</sup>**  
 •5-disc Changer, 1-bit, remote

**Technics SL-PS840 \$329<sup>95</sup>**  
 •MASH 1-bit, 64x sampling, 32-track prog

**Compact Disc Changers**

**Teac PD-D880 5 Disc CD Player**  
 •16-bit D/A converters with 8x oversampling •Front-loading design •Fluorescent display •32-track programming •Headphone jack with headphone control •Unified remote control

Our Low Price **\$149<sup>95</sup>** (TEA PDD880)

**Sherwood CDC-5030R \$179<sup>95</sup>**  
 •5-disc carousel, 32-track prog, remote

**Technics SL-PD667 \$179<sup>95</sup>**  
 •5-Disc Changer, front-load, MASH 1-bit

**Technics SL-PD867 \$219<sup>95</sup>**  
 •5-disc Changer, MASH, 32-track prog, remote

**Technics SL-PD967 \$249<sup>95</sup>**  
 •MASH, 5-disc Changer, pitch control

**JVC XLM-415 CALL**  
 •6+1 single disc Changer, remote

**Fisher DAC-2403 CALL**  
 •24-CD Changer, vertical load, remote

**Turntables & Cartridges**

**Thorens 180 3-Speed Belt Drive Turntable**  
 •33, 45, 78 r.p.m. •Automatic shut-off & auto-retract •Synchronous motor •Adjustable anti-skating •External power supply •Includes Stanton cartridge

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**Gemini XL-BD10 \$84<sup>95</sup>**  
 •Semi-Auto Turntable, belt, pitch

**Technics SL-BD22K \$129<sup>95</sup>**  
 •Semi Auto Belt-Drive Turntable

**Technics SL-QD33K \$199<sup>95</sup>**  
 •Fully Auto Turntable, Quartz direct-drive

**Audio Technica AT-331LP \$39<sup>95</sup>**  
 •Cartridge, universal mount, linear contact stylus

**Stanton 680ELMP \$79<sup>95</sup>**  
 •Disc Cartridge, standard mount, matched pair

**Ortofon CCE \$99<sup>95</sup>**  
 •Night Club Disco Cartridge, extra stylus

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**Top Rated 1/2 PRICE**

**Aiwa ADF-810 3-Head Cassette Deck**  
 •Feather touch controls •Dual capstan •Dolby B & C noise reduction •Dolby HX-Pro •Fine bias control •Wireless remote

Mfr. List Price \$400.00 **WAS \$249.95**

Our Low Price **\$199<sup>95</sup>** (AIW ADF810)

**Teac V-375 \$74<sup>95</sup>**  
 •Dolby B noise reduction

**Teac V-600 \$149<sup>95</sup>**  
 •Dolby B/C/HX-Pro, full-logic controls

**Teac R-550 \$179<sup>95</sup>**  
 •Auto-rev. Dolby B/C/HX-Pro, 110/220 volt

**Fostex X18 \$329<sup>95</sup>**  
 •Portable Multitrack Cassette, 4-track

**Fostex X-28 \$499<sup>95</sup>**  
 •Multi-track Cassette, 8 input chan., pitch

**JVC TDV-661 CALL**  
 •3-heads, Dolby B/C/HX-Pro, dual capstan

**Double Cassette Decks**

**Teac W-480C Double Cassette Deck**  
 •Dolby B & C noise reduction •Fine bias control •Normal & high speed (2x) dubbing •110/220 volts for worldwide use

Our Low Price **\$99<sup>95</sup>** (TEA W480C)

**JVC TDW-106 \$94<sup>95</sup>**  
 •Dolby B, high speed dubbing

**Technics RS-TR232 \$159<sup>95</sup>**  
 •Deck #2 auto-rev. Dolby B/C/HX-Pro

**Technics RS-TR535 \$199<sup>95</sup>**  
 •Dual auto-rev. rec/play, Dolby B/C/HX-Pro

**Teac W-800R \$199<sup>95</sup>**  
 •Dual auto-rev. Dolby B/C/HX-Pro

**Technics RS-TR979 \$299<sup>95</sup>**  
 •Dual auto-rev. Dolby B/C/HX-Pro, fine bias

**Teac W-6000R \$429<sup>95</sup>**  
 •Dual auto-rev. Dolby B/C/HX-Pro, pitch

**DJ Equipment**

**Gemini PMX-15A Scratchmaster DJ Mixer**  
 •2-2-phono/2-line/1-mic inputs •Removable crossfader control & channel slide controls •LED meters •Master volume control

Our Low Price **\$99<sup>95</sup>** (GMI PMX15A)

**Gemini HPM-100 \$39<sup>95</sup>**  
 •Headphone/Microphone, mono earpiece

**Gemini DS-824 \$179<sup>95</sup>**  
 •Digital Sampler, pitch & pan controls

**NESS Swinger \$199<sup>95</sup>**  
 •Disco light, Moonflower

**Gemini PMX-3500 \$239<sup>95</sup>**  
 •DJ Mixer, 2-phono/5-line inputs, Echo, EQ

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 •CD Player, pitch control, pitch bend, effects

**NESS Disco Lights CALL**  
 •A Huge Selection Is Available, for Information

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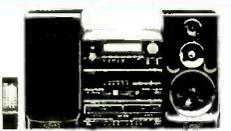
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**Mini Audio Systems**



**Denon D-80 Mini Audio System**

- Auto reverse cassette •30 watts/channel
- AM/FM tuner with 30 presets •Auto-reverse cassette deck •6-disc CD changer •Bass reflex speakers with 5 1/4" woofer •Remote

Our Low Price **\$799<sup>95</sup>** (DNN D80)

- Aiwa LC-X7** •AM/FM, Auto-Rev Cassette, CD-Player, remote ...\$269<sup>95</sup>
- Denon D-2000** •AM/FM, 6-Disc CD, Auto Rev Cassette, 40 watts x 2 ...\$1099<sup>95</sup>
- Bose LS11** •Lifestyle System, AM/FM/CD/2-pr speakers ...\$1799<sup>95</sup>
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- Aiwa N-X5200** •AM/FM, 3-Disc CD, dual auto-rev Cassette, Karaoke ...CALL

**Mini /Rack Audio Systems**



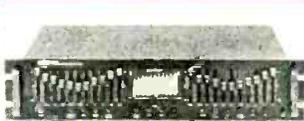
**Sharp CMS-1200AV High Power System With CD Changer**

- 120 watts per channel •5-CD changer with 32-track programming •Double cassette •AM/FM tuner with 40 presets •5-band equalizer •Unified A/V remote

Our Low Price **\$299<sup>95</sup>** (SHA CMS1200AV)

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- JVC MXC55** ...CALL
- JVC MXC99S** ...CALL
- Yamaha CC-70W** •AM/FM, 6-1 CD Changer, Dual Cassette ...CALL
- Yamaha CC-70W** •AM/FM, 50 watts/ch, 3-disc CD, Dual Cassette ...CALL
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**AudioSource EQ Twelve Graphic Equalizer/Spectrum Analyzer**

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- Teac EQA-110** •10-bands/channel, +/- 12dB range, 110,220 v ...\$69<sup>95</sup>
- AudioSource EQ8/II** •10-bands/channel, A/V input switching ...\$99<sup>95</sup>
- Teac EQA-220** •10-bands/channel, display analyzer, +/- 12dB ...\$99<sup>95</sup>
- AudioSource EQ11** •10-bands/channel, A/V input, dubbing switch ...\$119<sup>95</sup>
- Technics SH-GE70** •7-bands/channel, 12 preset memories ...\$159<sup>95</sup>
- Technics SH-GE90** •Equalizer/Digital Sound Processor ...\$269<sup>95</sup>

**Loudspeakers**



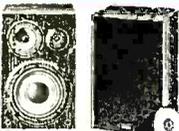
**Advent Legacy III Two-Way Speakers**

- 10" dual voice coil woofer •1" ferrofluid cooled parabolic soft dome tweeter •Switchable 8/6 ohm impedance •Floor standing design •100-watts max •Pecan top & base

Our Low Price **\$299<sup>95</sup>/pair** (ADV LEGACYIII)

- AudioSource IWONE** •In-wall speakers, 5.25" woofer ...pair \$99<sup>95</sup>
- Bose 101** •Indoor/Outdoor Mini speakers ...pair \$149<sup>95</sup>
- Cerwin Vega L7-BK** •2-way, 7" woofer, black ...pair \$199<sup>95</sup>
- Advent New Vision 500** •Floor-standing Column, built-in subwoofer ...pair \$359<sup>95</sup>
- Cerwin Vega AT-12** •3-way, 12" woofer, 200 watts rating ...pair \$399<sup>95</sup>
- Cerwin Vega Q-1** •2-way, 10" woofer, inc DB10 bass EQ ...pair \$499<sup>95</sup>

**Loudspeakers**



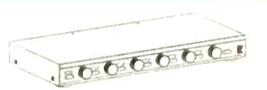
**Yamaha NSA-635 3-Way Speaker System**

- Acoustic suspension design •8 inch woofer •Ferro-fluid cooled midrange & dome tweeter •Power rating: 10-140 watts •8 ohm impedance

Our Low Price **\$99<sup>95</sup>/pair** (YAM NSA635)

- Pinnacle PN2+** •2-way, 4" woofer ...pair \$79<sup>95</sup>
- Technics SB-LX5** •3-way, 10" woofer ...pair \$119<sup>95</sup>
- JBL Pro III** •High Performance mini, 2-way, shielded pair ...\$149<sup>95</sup>
- Recoton W-440** •Wireless System, individual controls ...pair \$189<sup>95</sup>
- Pinnacle PN8/Oak** •2-way, 6" woofer, dual diaduct ports ...pair \$249<sup>95</sup>
- Bose 301-III** •Direct/Reflecting Speakers, 2-way ...pair \$318<sup>00</sup>

**Audio/Video Switching**



**Niles SVL-6 Speaker Selector/Volume Controller**

- holds 6-pairs •12-step attenuation •Handles up to 100 watts per channel •Constant/selectable impedance

Our Low Price **\$299<sup>95</sup>** (NIL SVL6)

- Speco SSB5** •Speaker Switcher, holds 5-pairs ...\$39<sup>95</sup>
- Niles SCW1** •Volume Control, wall-mount, 10-position ...\$44<sup>95</sup>
- Niles SPS4** •Speaker Switcher, holds 4-pairs ...\$74<sup>95</sup>
- Videonics TU1** •Thumbs Up Video Editor with enhancer ...\$159<sup>95</sup>
- Russound TMS10** •Tags/Processor Selector, holds 10-tapes ...\$169<sup>95</sup>
- JVC JX8700** •AV Switcher, remote, 7-in-4-out ...\$499<sup>95</sup>

**Portable CD**

**Panasonic SL-S170 Portable CD Player With Headphones**

- MASH 1-bit D/A converter •24-track programming
- Repeat, search & skip functions •XBS system •8 hour playback on 2 AA batteries (not included) •Includes AC cord

(PAN SLS170)

Your Choice **\$97**

- Sony D-131 Discman With Headphones** •Mega bass sound •8 hr. playback on 2 AA batteries (not included) •22 track programming •1 bit D/A converter •Includes AC adaptor & cords (SON D131)

**Sony Headphones**



**Sony MDR-V505 Digital Monitor Headphones**

- Full-size earpads provide excellent isolation
- Lightweight for greater comfort
- Folding headband •Litz cord for minimal signal loss •Response: 10-25,000 Hz •Gold-plated UniMatch® plug

Our Low Price **\$39<sup>95</sup>** (SON MDRV505)

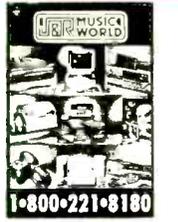


**Sony MDR-V600 Studio Monitor Headphones**

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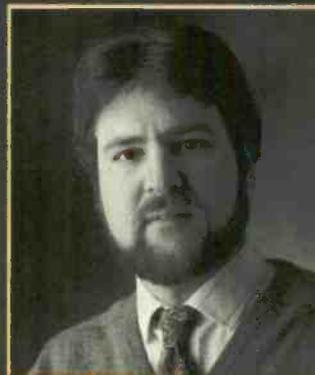
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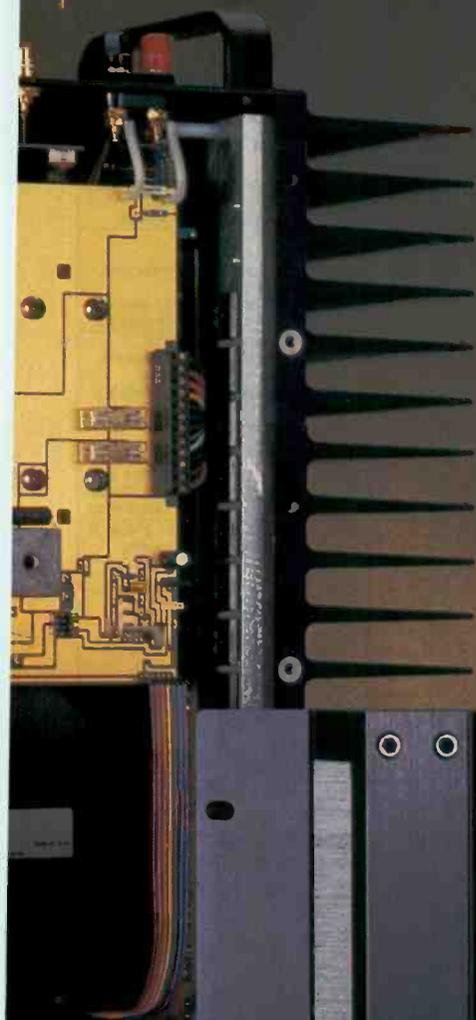
# D/A CONVERTERS

| MANUFACTURER                | Model<br>(R1)=Remote Included,<br>(R0)=Remote Optional | Sampling Rates:<br>48 kHz=A, 44.1 kHz=B, 32 kHz=C | Decoding System:<br>Number of Bits—<br>Oversampling Rate | Number of Converters per Channel | Preamp Functions: Volume=V,<br>Tones=T, Source Selection=S | Provision for Future Upgrade?<br>Board Replacement=B<br>ROM Change=R, Software Change=S | Analog Outputs: Fixed=F,<br>Variable=V, Balanced=B | Digital Inputs Included,<br>Number and Type—See Code | Digital Outputs Included,<br>Number and Type—See Code | Frequency Response for<br>44.1-kHz Sampling,<br>Hz to kHz, >dB | S/N Ratio, "A" Wtd., dB | THD, %                     | Price, \$                     | Notes   |
|-----------------------------|--|---|--|----------------------------------|--|---|--|--|---|--|-------------------------|----------------------------|-------------------------------|---|
|                             |  |   |  |                                  |  |   |  |  |   |  |                         |                            |                               |   |
| PS AUDIO<br>(Continued)     | Reference Link<br>LS(RI)                               | B   | 20-8X  | 1                                | V/S  | S   | F/V/B  | 2C/1T/1A/<br>1B                                      | 1C  | 20-20 ±0.3   | 98                      | 0.01                       | 4795.00                       | 18-bit A/D conversion.  |
| RESOLUTION<br>AUDIO         | Quantum<br>Reference 20<br>Chronos                     | A/B/C<br>A/B/C<br>A/B/C                           | 20-8X<br>20-8X   | 1<br>1                           |  | B<br>B  | F/B<br>F/B   | 1C/1A<br>2C/1A<br>1C/1T                              | 3C/2A   | 20-20 ±0.5<br>20-20 ±0.5                                       | 108<br>108              | 0.01<br>0.01               | 2995.00<br>1495.00<br>795.00  | Signal reclocker and splitter; accepts mono digital input for use with two D/A converters.  |
| ROKSAN                      | ATT-DA2/DSU  | A/B/C   | 18-68X   |                                  | S  | No  | F  | 4C   | None  | 20-20 ±0.3   | 105                     | 0.005                      | 2550.00                       | Selectable polarity; optional AT&T output.  |
| RSN DIGITAL                 | DAC-T<br>DAC-X   | A/B/C<br>A/B/C                                    | 18-8X<br>20-8X   | 1<br>1                           |  |   | F<br>F   | 1C<br>1C   |   | 4-20 ±1.0<br>4-20 ±0.5   | 93<br>100               | 0.09<br>0.01               | 799.00<br>699.00              | Tube hybrid analog stage.   |
| SENTEC                      | DiAna  | A/B/C   | 20-8X  | 1                                |  |   | F  | 2C/1T  |   | 0.1-20 +0,-0.1   | 110                     | 0.01                       | 1150.00                       | Current conveyor circuit; Class A.  |
| SONIC<br>FRONTIERS          | SFD-1<br>SFD-2<br>UltraJitterbug                       | A/B/C<br>A/B/C<br>A/B/C                           | 20-8X<br>20-8X   | 1                                |  | B   | F/B<br>F/B<br>B                                    | 1C/1T/1A<br>1C/1A/1B<br>1C/1T/1B                     | 1C<br>1C/1B   | 5-20 ±0.5<br>5-20 ±0.5   | 110<br>110<br>110       | 0.1<br>0.1                 | 2195.00<br>4695.00<br>695.00  | Digital reclocker and jitter-reduction device.  |
| SOUNDSTREAM<br>TECHNOLOGIES | DAC-1  | A/B/C   | †  | 2                                | S  | No  | F  | 2C/1T  | None  | 5-20   | 100                     | 0.01                       | 695.00                        | †Hybrid, 18-bit/1-bit, 8X.  |
| SPECTRAL AUDIO              | SDR-2000<br>Reference                                  | A/B   | 20-8X  | 2                                |  | B/R   | F/B  | 3C/1T/2B   |   | 0-22 ±0.3  | 120                     | 0.002                      | 7495.00                       | External power supply; master clock jack, optional AT&T input.  |
| STAX                        | DAC-Talent<br>DAC-Talent BD<br>DAC-X1t                 | A/B/C<br>A/B/C<br>A/B/C                           | 20-8X<br>20-8X<br>20-8X                                  | 1<br>1<br>2                      |  | No<br>B<br>B  | F<br>F<br>F/B                                      | 1C/1T<br>2C/1A/1B<br>3C/3T                           |   | 0-20 ±0.5<br>0-20 ±0.5<br>4-20 ±0.5                            | 118<br>118<br>118       | 0.0015<br>0.0015<br>0.0016 | 2700.00<br>4500.00<br>12,000. | Battery operated. Tube output stage.  |
| SUMO                        | Theorem  | A/B/C   | 18-8X  | 1                                | None   | B   | F/B  | 1C/1T/1B   | 1C  | 20-20 ±0.2   | 102                     | 0.005                      | 799.00                        | Master clock sync with Axiom CD transport; optional dual D/A converter and balanced analog output.  |
| THETA DIGITAL               | DS-Pro<br>Generation 5                                 | A/B/C   | 20-8X  | 2                                |  | B/R/S   | F/B  | 4C   | 1C  | 1-20   | 108                     | 0.002                      | 5595.00                       | Optional Toslink, AT&T, AES/EBU, and proprietary optical inputs.  |
|                             | DS-Pro Basic III                                       | A/B/C   | 20-8X  | 2                                |  | B/R/S   | F/B  | 3C/1T/1B   | 1C  | 1-20   | 108                     | 0.002                      | 2495.00                       | Optional AT&T and proprietary optical inputs.   |
|                             | DS-Pro Prime II  | A/B/C   | 18-4X  | 2                                |  | B/R/S   | F/B  | 1C/1T  | 1C  | 1-20   | 108                     | 0.008                      | 1495.00                       | As above.   |
|                             | DS-Pro Pride   | A/B/C   | 18-4X  | 1                                |  | B/R/S   | F  | 1C/1T  | 1C  | 1-20   | 108                     | 0.008                      | 995.00                        | As above.   |
|                             | Cobalt 307   | A/B/C   | 18-8X  | 1                                |  | B/R/S   | F  | 1C/1T  | 1C  | 1-20   | 108                     | 0.008                      | 595.00                        | As above.   |
| TIMBRE<br>TECHNOLOGY        | TT-1   | A/B/C   | 1-256X   | 1                                | S  | B/S   | F  | 2C/1T/1A   | None  | 20-20 ±0.1   | 96                      | 0.005                      | 3295.00                       | Selectable polarity; with balanced analog output and different digital inputs (one coaxial, one Toslink, one AT&T, and one AES/EBU), \$3895.00; options as upgrade, \$850.00.                     |
| VAC                         | DAC MkII   | A/B/C   | 1-512X   | 2                                | S  | B   | F/B  | 2C/1A  | 1C  | 4-20 +0,-0.5   | 96                      | 0.04                       | 4490.00                       | External power supply; Class A; tube analog stage; no negative feedback; selectable polarity; optional AES/EBU inputs and output.   |
|                             | DAC II MkII  | A/B/C   | 1-512X   | 2                                | S  | B   | F  | 2C   | 1C  | 4-20 +0,-0.5   | 96                      | 0.1                        | 2990.00                       | As above but internal power supply; optional AT&T input and balanced analog output.   |
| VIMAK                       | DS-1800  |   | 18-64X   | 1                                | S  | B/R/S   | F/B  | 1C/2T/1B   |   | 5-20 +0.1,-0.5   | 102                     | 0.004                      | 3300.00                       | Delta Sigma D/A conversion; accepts up to 24-bit data; applies dither; optional AT&T input and buffered coaxial digital output; RS232/485 port. Conversion, data acceptance, and dither as above. |
|                             | DS-1800<br>MKII(RI)                                    |   | 18-64X   | 1                                | S  | B/R/S   | F/B  | 1C/1T/1A/<br>1B                                      | 1C/1T   | 5-20 +0.1,-0.5   | 102                     | 0.003                      | 4350.00                       | 18-bit A/D converter; external power supply; balanced and unbalanced analog inputs.   |
|                             | DS-500   | A/B   |  |                                  |  |   |  |  | 1T or 1A<br>and 1B                                    | 5-20 +0.2,-0.5   | 100                     | 0.002                      | 1350.00                       |   |
| VTL                         | TDAC-1A<br>TDAC-5                                      | A/B/C<br>A/B/C                                    | 20-256X<br>20-256X                                       | 1<br>1                           | V/S  | R<br>R  | V<br>F/V/B   | C/T<br>C/T/A/B                                       | C<br>C/B  | 15-20 ±1<br>10-20 ±0.2   | 97<br>100               | 0.01<br>0.008              | 2490.00<br>4995.00            | Tube analog stage. As above; stepped attenuator.  |
| WADIA DIGITAL               | Wadia 9(RI)  | A/B/C   | 24-64X   | 2                                | V/S  | B/R/S   | V/B  | 3A   |   |  |                         |                            | 13,500                        | Software based; digital volume control; external power supply.  |
|                             | Wadia 25(RI)   | A/B/C   | 24-32X   | 2                                | V/S  | B/R/S   | V/B  | 2C/1T/2A/<br>1B                                      |   |  |                         |                            | 4750.00                       | Software based; digital volume control.   |
|                             | Wadia 15(RI)   | A/B/C   | 18-32X   | 2                                | V/S  | B/R/S   | V/B  | 2C/1T/2A/<br>1B                                      |   |  |                         |                            | 4000.00                       | As above.   |
|                             | Wadia 12   | A/B/C   | 18-16X   | 2                                | S  | B/R/S   | F/B  | 1C/1T/1A/<br>1B                                      |   |  |                         |                            | 1500.00                       |   |
|                             | Wadia 17   | A/B   | †  |                                  | S  | B/R/S   |  |  | 1C/1T/3A/<br>1B                                       | 20-20 ±0.005   | 107                     |                            | 3250.00                       | A/D converter; four analog inputs. †1-bit, 64X resampled.   |
| WOODSIDE/<br>RADFORD        | DVAC-18 Tube<br>DAC 1<br>DAC 2                         | A/B/C<br>A/B<br>B                                 | 18-64X<br>16-4X<br>16-4X                                 | 1<br>1<br>1                      | S<br>S   | B<br>No<br>No   | F<br>F<br>F  | 4C<br>2C/1T<br>1C                                    | 1C<br>1C  | 10-20 ±0.1<br>10-20 ±0.1<br>10-20 ±0.1                         | 110<br>110<br>110       | 0.002<br>0.001<br>0.001    | 1995.00<br>1595.00<br>895.00  | Tube analog stage. Selectable polarity.   |



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# AMPLIFIERS

| MANUFACTURER                  | Model<br>(R)=Remote Included,<br>(RD)=Remote Optional | Type<br>Integrated=I, Basc-B;<br>Tube=T, Hybrid=HT; Mono=M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | Does Unit Invert Polarity? | POWER AMP                            |                                      |                                       |                           | PREAMP               |                          |                                   |                          | Price, \$ | Notes |                    |              |   |
|-------------------------------|---|--|--------------|------------------|-----------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------|----------------------|--------------------------|-----------------------------------|--------------------------|-----------|-------|--------------------|--------------|---|
|                               |   |  |              |                  |                       |                            |                            | Cont. Avg. Watts/Channel into 8 Ohms | Cont. Avg. Watts/Channel into 4 Ohms | Rated Full-Power Bandwidth, Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, kilohms | MM Phono S.N. dB - A* w/ re. 5 mV | MM Phono Sensitivity, mV |           |       | Moving Coil Input? | Weight, Lbs. |   |
| AB INTERNATIONAL ELECTRONICS  | 9220  | B  | 0.05         | Yes              | 40                    | 750                        | No                         | 350                                  | 590                                  | 20-20                                 | AB2                       | 1.5                  | 15                       |                                   |                          |           |       | 34                 | 1299.00      | Bridgeable. As above. As above; clipping indicators. As above. Bridgeable; with LED power meters and soft clip, Model 1590, \$1339.00.  |
|                               | 9420  | B  | 0.05         | Yes              | 40                    | 750                        | No                         | 525                                  | 825                                  | 20-20                                 | AB2                       | 1.5                  | 15                       |                                   |                          |           |       | 39                 | 1499.00      |   |
|                               | 1650  | B  | 0.02         | Yes              | 40                    | 750                        | No                         | 270                                  | 425                                  | 20-20                                 | AB2                       | 1.5                  | 15                       |                                   |                          |           |       | 26                 | 886.00       |   |
|                               | 1450  | B  | 0.02         | Yes              | 40                    | 750                        | No                         | 145                                  | 240                                  | 20-20                                 | AB2                       | 1.5                  | 15                       |                                   |                          |           |       | 22                 | 649.00       |   |
|                               | 1550  | B  | 0.1          | Yes              | 60                    | 1.5V                       | No                         | 330                                  | 540                                  | 20-20                                 | AB                        | 1.5                  | 15                       |                                   |                          |           |       | 33                 | 1179.00      |   |
| ACCUHASE                      | A-100   | B/M  | 0.01         | Yes              |                       | 1.1V                       | No                         | 100                                  | 200                                  | 20-20                                 | A                         |                      | †                        |                                   |                          |           |       | 126                | 30,790.      | †Unbalanced, 20 kilohms; balanced, 40 kilohms. Bridges to 420 watts into 8 ohms. Bridges to 840 watts into 8 ohms and 1100 watts into 4 ohms.   |
|                               | A-50  | B  | 0.02         | Yes              |                       | 110                        | No                         | 50                                   | 100                                  | 20-20                                 | A                         |                      | †                        |                                   |                          |           |       | 107                | 14,995.      |   |
|                               | E-406(RI)   | I  | 0.02         | Yes              |                       | 112                        | No                         | 170                                  | 250                                  | 20-20                                 | AB                        |                      | †                        | 90                                | 4.65                     | Yes       | 62    | 6495.00            |              |   |
|                               | P-350   | B  | 0.02         | Yes              |                       |                            | No                         | 150                                  | 210                                  | 20-20                                 | AB                        |                      | †                        |                                   |                          |           |       | 52                 |              |   |
| P-550                         | B   | 0.02   | Yes          |                  |                       | No                         | 270                        | 420                                  | 20-20                                | AB                                    |                           | †                    |                          |                                   |                          |           |       | 73                 |              |   |
| ACURUS                        | A250  | B  | 0.06         | No               |                       | 1.2V                       | No                         | 250                                  | 350                                  | 20-20                                 | AB                        |                      | 22                       |                                   |                          |           |       | 35                 | 995.00       | †Integrated amp with passive control section. †200 watts x 3. ††250 watts x 3. †††100 watts x 3. †††125 watts x 3.  |
|                               | A150  | B  | 0.06         | No               |                       | 1.2V                       | No                         | 150                                  | 200                                  | 20-20                                 | AB                        |                      | 22                       |                                   |                          |           |       | 30                 | 695.00       |   |
|                               | DIA-100   | †  | 0.09         | No               |                       | 200                        | No                         | 100                                  | 150                                  | 20-20                                 | AB                        |                      | 10                       |                                   |                          |           |       | 35                 | 995.00       |   |
|                               | 200X3   | B  | 0.06         | No               |                       | 1.2V                       | No                         | †                                    | ††                                   | 20-20                                 | AB                        |                      | 22                       |                                   |                          |           |       |                    | 1295.00      |   |
| 100X3                         | B   | 0.06   | No           |                  | 1.2V                  | No                         | †                          | ††                                   | 20-20                                | AB                                    |                           | 22                   |                          |                                   |                          |           |       | 899.00             |              |   |
| ADCOM                         | GFA-6000  | B  | 0.09         | No               |                       | 100                        | No                         | †                                    | ††                                   | 20-20                                 | AB                        |                      | 20                       |                                   |                          |           |       | 38                 | 850.00       | †Five-channel operation, 100 watts x 3 and 60 watts x 2. ††Five-channel operation, 150 watts x 3 and 100 watts x 2. Bridges to 600 watts into 8 ohms. ††60 watts x 4. †††90 watts x 4. Three-channel operation, 60 watts x 2 and 200 watts x 1 into 8 ohms. |
|                               | GFA-5800  | B  | 0.18         | Yes              |                       |                            | No                         | 250                                  | 400                                  | 20-20                                 | A/AB                      |                      | 100                      |                                   |                          |           |       | 57                 | 1500.00      |   |
|                               | GFA-555H  | B  | 0.04         | No               |                       | 130                        | No                         | 200                                  | 325                                  | 20-20                                 | AB                        | 2.5                  | 100                      |                                   |                          |           |       | 35                 | 950.00       |   |
|                               | GFA-545H  | B  | 0.04         | No               |                       | 130                        | No                         | 100                                  | 150                                  | 20-20                                 | AB                        | 2.1                  | 100                      |                                   |                          |           |       | 24                 | 630.00       |   |
|                               | GFA-535H  | B  | 0.04         | No               |                       | 130                        | No                         | 60                                   | 100                                  | 20-20                                 | AB                        | 3.0                  | 100                      |                                   |                          |           |       | 20                 | 375.00       |   |
|                               | GFA-2535L   | B  | 0.06         | No               |                       | 130                        | No                         | †                                    | ††                                   | 20-20                                 | AB                        | 1.5                  | 22                       |                                   |                          |           |       | 35                 | 630.00       |   |
| A/D/S/                        | PH6   | B  | 0.02         | No               | 40                    | 915                        | No                         | 70                                   | 125                                  | 10-80                                 | AB                        | 3                    | 10                       |                                   |                          |           |       | 46                 | 2399.00      | Six-channel operation; bridges to three, four, or five channels; operates into 2 ohms. As above.  |
|                               | PH4   | B  | 0.02         | No               | 40                    | 915                        | No                         |                                      | 50                                   | 10-80                                 | AB                        | 3                    | 10                       |                                   |                          |           |       | 46                 | 1699.00      |   |
| AIR TIGHT                     | ATM-1   | B/T  | 0.01         | No               |                       | 100                        | No                         | 36                                   | 72                                   | 20-20                                 |                           |                      | 100                      |                                   |                          |           |       | 49                 | 3990.00      | Bridgeable. As above. †Triode mode, 55 watts into 8 ohms and 110 watts into 4 ohms; ultra-linear mode, power doubled.   |
|                               | ATM-2   | B/T  | 0.07         | No               |                       | 100                        | No                         | 80                                   | 160                                  | 20-20                                 |                           |                      | 100                      |                                   |                          |           |       | 71                 | 6990.00      |   |
|                               | ATM-3   | B/T/M  | 0.08         | No               |                       | 100                        | No                         | †                                    | †                                    | 20-20                                 |                           |                      | 100                      |                                   |                          |           |       | 55                 | 10,500.      |   |
| AMC                           | CVT3030   | I/H  | 1            | No               |                       | 180                        | No                         | 30                                   | 30                                   | 45-20                                 | A                         |                      | 20                       | 79                                | 2.9                      | No        |       | 45                 | 899.95       | Bridgeable. As above. Two-, three-, or four-channel operation.  |
|                               | CVT2100   | B/H  | 1.0          | Opt.             |                       | 1.2V                       | No                         | 80                                   | 80                                   | 35-20                                 | AB1                       |                      | 500                      |                                   |                          |           |       | 30                 | 999.95       |   |
|                               | CVT2030   | B/H  | 1.0          | Opt.             |                       | 1.3V                       | No                         | 30                                   | 30                                   | 45-20                                 | A                         |                      | 500                      |                                   |                          |           |       |                    | 699.95       |   |
|                               | 2445  | B  | 0.04         | No               |                       | Var.                       | No                         | 30                                   | 45                                   | 20-20                                 | AB                        | 2                    | 20                       |                                   |                          |           |       |                    | 399.95       |   |
| AMERICAN HYBRID TECHNOLOGY    | AHT 300   | B/H/M  |              | No               |                       |                            | No                         | 300                                  | 300                                  | 10-100                                | AB1                       |                      | 50                       |                                   |                          |           |       |                    | 30,000.      | Class-A version, 200 watts. Pair  |
|                               |   |  |              |                  |                       |                            |                            |                                      |                                      |                                       |                           |                      |                          |                                   |                          |           |       |                    |              |   |
| ANODYNE GROUP                 | SS300   | B/T  | 0.1          | No               |                       | 900                        | No                         | 7                                    | 7                                    | 30-18                                 | A                         | 2.0                  | 250                      |                                   |                          |           |       | 39                 | 2900.00      | Triode tubes. As above.   |
|                               | MS300   | B/T/M  | 0.1          | No               |                       | 900                        | No                         | 7                                    | 7                                    | 30-18                                 | A                         | 2.2                  | 250                      |                                   |                          |           |       | 50                 | 3900.00      |   |
|                               | MP300   | B/T/M  | 0.15         | No               |                       | 1V                         | No                         | 17                                   | 17                                   | 31-19                                 | A                         | 3.0                  | 250                      |                                   |                          |           |       | 80                 | 4900.00      |   |
| ARAGON                        | H150  | B/H  | 0.07         | No               |                       | 1V                         | Yes                        | 80                                   | 150                                  | 15-55                                 | AB                        | 2.0                  | 250                      |                                   |                          |           |       | 40                 | 1900.00      | Zero feedback. Dual differential signal path.   |
|                               | Palladium   | B/M  | 0.06         | Yes              |                       |                            | No                         | 100                                  | 600                                  | 20-20                                 | A                         |                      | Sel.                     |                                   |                          |           |       | 65                 | 2000.00      |   |
|                               | 2004 Mk II  | B  | 0.06         | No               |                       |                            | No                         | 100                                  | 200                                  | 20-20                                 | A/AB                      | 2.5                  | 22                       |                                   |                          |           |       | 45                 | 1850.00      |   |
| 4004 Mk II                    | B   | 0.06   | No           |                  |                       | No                         | 200                        | 400                                  | 20-20                                | A/AB                                  | 2.5                       | 22                   |                          |                                   |                          |           | 65    | 1850.00            |              |   |
| ARCAM                         | Alpha 5   | I  | 0.5          | No               |                       | 135                        | No                         | 40                                   | 80                                   | 20-20                                 | AB                        |                      | 20                       |                                   |                          |           |       | 10                 | 399.00       | No Opt.   |
|                               | Alpha 6   | I  | 0.5          | No               |                       | 150                        | No                         | 50                                   | 100                                  | 20-20                                 | AB                        |                      | 47                       |                                   |                          |           |       | 10                 | 649.00       |   |
|                               | Delta 290   | I  | 0.5          | No               |                       | 175                        | No                         | 75                                   | 140                                  | 20-20                                 | AB                        |                      | 10                       |                                   |                          |           |       | 14                 | 899.00       |   |
|                               | Delta 290P  | B  | 0.5          | No               |                       |                            | No                         | 75                                   | 75                                   | 20-20                                 | AB                        |                      | 10                       |                                   |                          |           |       | 14                 | 749.00       |   |
|                               | Delta 120.2   | B  | 0.5          | No               |                       |                            | No                         |                                      | 100                                  | 20-20                                 | AB                        |                      | 10                       |                                   |                          |           |       | 21                 | 1100.00      |   |
| YAKOV ARONOV AUDIO LABORATORY | YM-100  | B/T  | 0.3          |                  |                       | 1.5V                       |                            | 110                                  |                                      | 12-22                                 | AB1                       |                      | 470                      |                                   |                          |           |       | 96                 | 4200.00      | Pair  |
|                               | IC-70   | I/T  | 0.3          |                  |                       | 250                        |                            | 70                                   |                                      | 20-20                                 | AB1                       |                      | 47                       |                                   |                          |           |       | 70                 | 3000.00      |   |
|                               | IC-30   | I/T  | 0.3          |                  |                       | 250                        |                            | 30                                   |                                      | 20-20                                 | AB1                       |                      | 47                       |                                   |                          |           |       | 50                 | 2250.00      |   |
|                               | SA-60   | B/T  | 0.3          |                  |                       | 250                        |                            | 60                                   |                                      | 20-20                                 | AB1                       |                      | 47                       |                                   |                          |           |       | 70                 | 2000.00      |   |
|                               | SA-30   | B/T  | 0.3          |                  |                       | 250                        |                            | 30                                   |                                      | 20-20                                 | AB1                       |                      | 47                       |                                   |                          |           |       | 50                 | 1500.00      |   |
|                               | MA-100  | B/T/M  | 0.3          |                  |                       | 1.5V                       |                            | 110                                  |                                      | 12-22                                 | AB1                       |                      | 470                      |                                   |                          |           |       | 65                 | 5250.00      |   |
|                               |   |  |              |                  |                       |                            |                            |                                      |                                      |                                       |                           |                      |                          |                                   |                          |           |       |                    |              |   |
| ART AUDIO                     | Maestro   | B/T/M  | 0.25         | No               |                       |                            | Yes                        | 150                                  | 150                                  | 13-27                                 | A                         |                      | 100                      |                                   |                          |           |       | 55                 | 5500.00      | Switchable to triode output. As above; feedback control. Triode output. Pair  |
|                               | Quin-tet Tempo  | B/T  | 0.25         | No               |                       |                            | Yes                        | 25                                   | 25                                   | 15-22                                 | A                         |                      | 100                      |                                   |                          |           |       | 42                 | 1995.00      |   |
|                               |   | B/T/M  | 0.25         | No               |                       |                            | Yes                        | 30                                   | 30                                   | 13-30                                 | A                         |                      | 100                      |                                   |                          |           |       | 35                 | 3500.00      |   |
| ATMA-SPHERE MUSIC SYSTEMS     | MA-2  | B/T/M  |              | Yes              | 600                   |                            | No                         | 200                                  | 200                                  | 1-80                                  | A                         | 0                    | Sel.                     |                                   |                          |           |       | 103                | 14,700.      | Triode operation; balanced differential design; switchable feedback; output transformerless. As above. Pair   |
|                               | MA-1  | B/T/M  |              | Yes              | 600                   |                            | No                         | 140                                  | 135                                  | 1-80                                  | A                         | 0                    | Sel.                     |                                   |                          |           |       | 52                 | 7600.00      |   |
|                               | M-60  | B/T/M  |              | Yes              | 600                   |                            | No                         | 60                                   | 45                                   | 2-80                                  | A                         | 0                    | Sel.                     |                                   |                          |           |       | 32                 | 3400.00      |   |
| AUDIBLE ILLUSIONS             | S120A   | B  | 0.01         | No               | 100                   | 1.6V                       | No                         | 120                                  | 240                                  | 0.05-100                              | A/AB1                     |                      | 35                       |                                   |                          |           |       | 45                 | 2495.00      | Pair  |
|                               | M150  | B/M  | 0.01         | Yes              | 100                   | 1.5V                       | No                         | 150                                  | 300                                  | 0.01-150                              | A/AB1                     |                      | 35                       |                                   |                          |           |       | 55                 | 3995.00      |   |
| AUDIOACCESS                   | PX612   | B  | 0.1          | No               | 50                    |                            | No                         | 50                                   | 75                                   | 20-20 ±0.2                            | AB/H                      |                      | 12                       |                                   |                          |           |       |                    |              | Bridgeable; 12-channel capability for multi-room/home theater.  |

T H E   A R A G O N   C O L L E C T I O N

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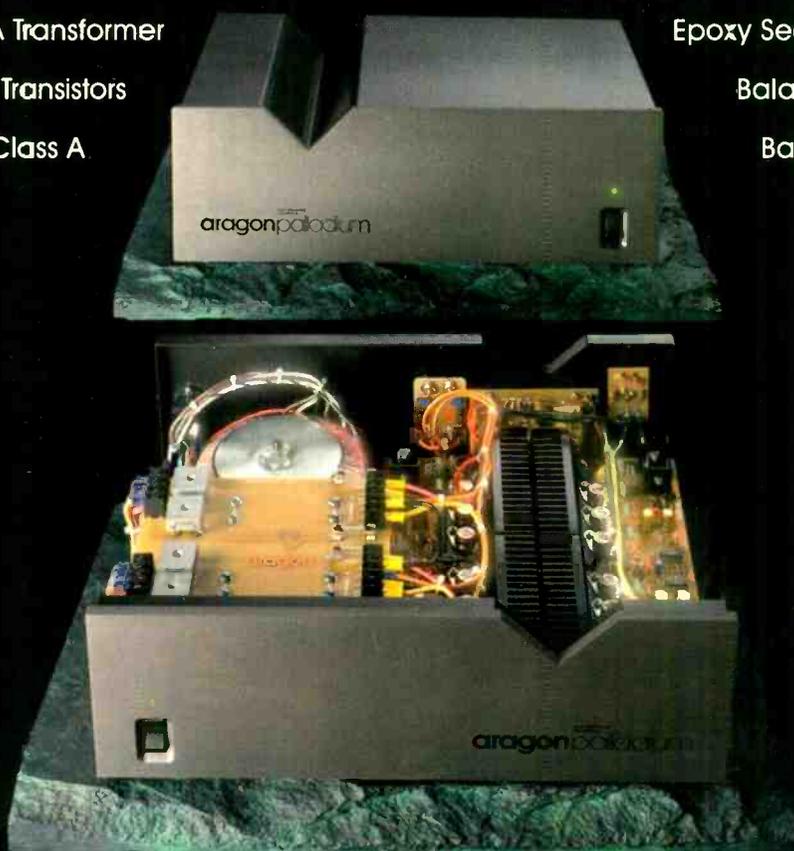
Matched Transistors

Discrete Class A

Epoxy Sealed Resistors

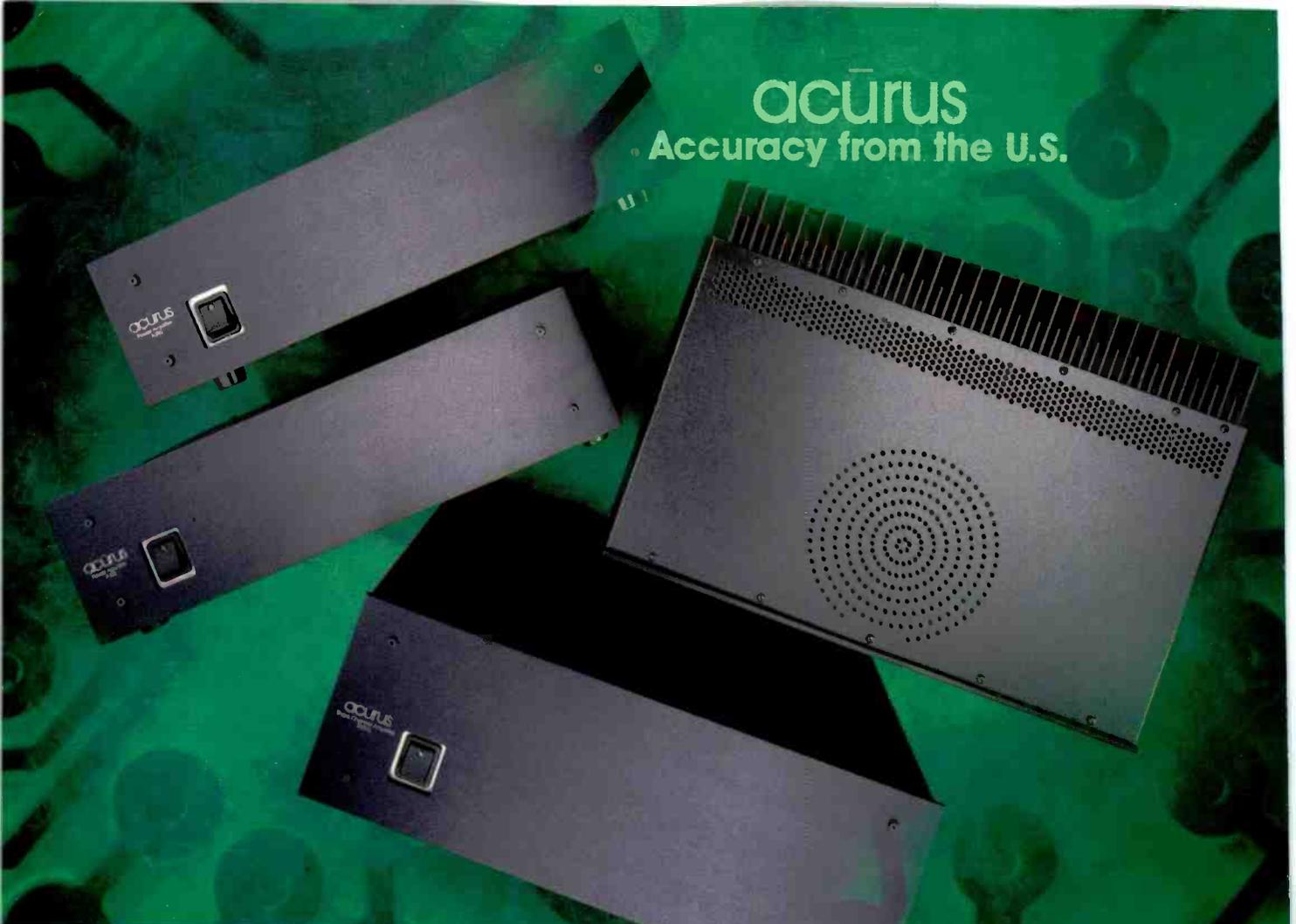
Balanced Output

Balanced Input



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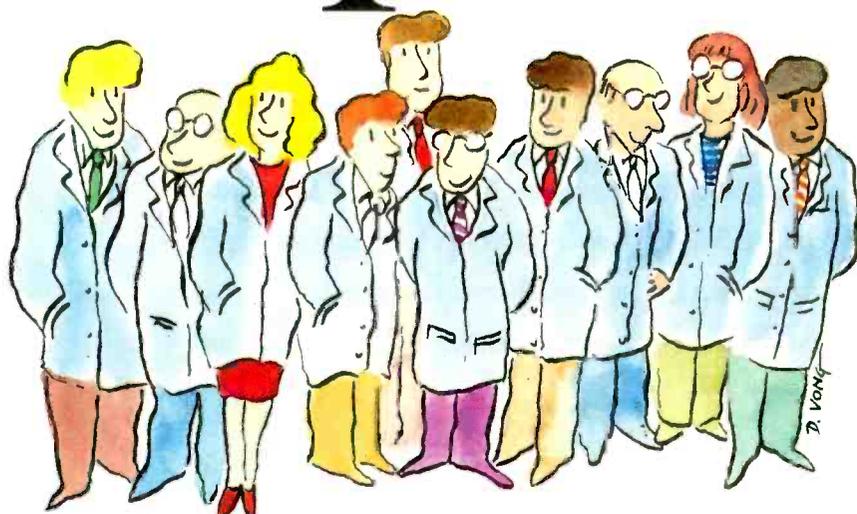
# AMPLIFIERS

| MANUFACTURER            | Model<br>(RI) = Remote Included<br>(RO) = Remote Optional | Type: Integrated = I, Basic = B,<br>Tubes = T, Hybrid = H, Mono = M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | POWER AMP                  |                                      |                                      |                                       |                           |                      | PREAMP                 |                                       |                          | Price, \$ | Notes  |                    |   |
|-------------------------|---|---|--------------|------------------|-----------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------|----------------------|------------------------|---------------------------------------|--------------------------|-----------|--|--------------------|---|
|                         |   |   |              |                  |                       |                            | Does Unit Invert Polarity? | Cont. Avg. Watts/Channel into 8 Ohms | Cont. Avg. Watts/Channel into 4 Ohms | Rated Full-Power Bandwidth, Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, kOhms | MM Phono S/N, dB, * A* = wide r.f. mV | MM Phono Sensitivity, mV |           |  | Moving Coil Input? | Weight, Lbs.                              |
| AUDIO ADVANCEMENTS      | TriMax  | B/T/M   | 0.1          | No               |                       | No                         | 25                         | 25                                   | 5-110                                | A                                     |                           | 50                   |                        |                                       | 20                       | 2950.00   | Deluxe version, \$3950.00 per pair. Headphone amp; triode tubes; output transformerless; volume control; external power supply.  |                    |   |
|                         | EarMax  | B/T   |              | No               |                       | No                         |                            |                                      | 4-100                                | A                                     |                           |                      |                        | 1                                     | Pair 489.00              |           |  |                    |   |
| AUDIO ALCHEMY           | Overture QM150  | B   | 0.08         | No               | 300                   | 135                        | No                         | 150                                  | 250                                  | 20-20                                 | AB                        | 2.5                  | 10                     |                                       | 32                       | 1095.00   |  |                    |   |
| AUDIO BY VAN ALSTINE    | Δ 200   | B   | 0.09         | No               | 90                    | 113                        | No                         | 90                                   | 150                                  | 15-40                                 | AB                        | 1.8                  | 100                    |                                       | 29                       | 495.00    |  |                    |   |
|                         | Δ 260   | B   | 0.09         | No               | 90                    | 113                        | No                         | 130                                  | 180                                  | 15-40                                 | AB                        | 1.8                  | 100                    |                                       | 33                       | 595.00    |  |                    |   |
|                         | Ω II 200  | B   | 0.05         | No               | 150                   | 113                        | No                         | 90                                   | 150                                  | 7-300                                 | AB                        | 1.9                  | 20                     |                                       | 29                       | 695.00    |  |                    |   |
|                         | Ω II 240  | B   | 0.05         | No               | 150                   | 113                        | No                         | 130                                  | 180                                  | 7-300                                 | AB                        | 1.9                  | 20                     |                                       | 33                       | 895.00    |  |                    |   |
|                         | Ω II 460  | B   | 0.05         | No               | 150                   | 113                        | No                         | 220                                  | 300                                  | 7-300                                 | AB                        | 1.9                  | 20                     |                                       | 33                       | 1195.00   |  |                    |   |
|                         | Ω II 260hc  | B   | 0.05         | No               | 150                   | 113                        | No                         | 130                                  | 200                                  | 7-300                                 | AB                        | 2.0                  | 20                     |                                       | 38                       | 995.00    |  |                    |   |
|                         | Ω II 440hc  | B   | 0.05         | No               | 150                   | 113                        | No                         | 220                                  | 350                                  | 7-300                                 | AB                        | 2.0                  | 20                     |                                       | 38                       | 1295.00   |  |                    |   |
| AUDIO CENTRON           | RMA-2000  | B   | 0.05         | Yes              | 30                    | 1V                         | No                         | 250                                  | 400                                  | 20-20                                 | AB                        | 2                    | 20                     |                                       | 75                       | 1750.00   | Bridgeable; d.c. and short-circuit protection. As above.   |                    |   |
|                         | RMA-1600  | B   | 0.02         | Yes              | 30                    | 1V                         | No                         | 250                                  | 400                                  | 20-20                                 | AB                        | 2                    | 20                     |                                       | 45                       | 495.00    |  |                    |   |
| AUDIO DESIGN ASSOCIATES | RMA-1000  | B   | 0.02         | Yes              | 25                    | 1V                         | No                         | 75                                   | 150                                  | 20-20                                 | AB                        |                      | 20                     |                                       |                          |           | Operates into 0.5-ohm load. Bridges to 300 watts into 8 ohms and 425 watts into 4 ohms. Amp/crossover for subwoofers. As above. THX bass amp. Five channels plus bass channel with parametric EQ. †40 watts x 5 and 90 watts x 1. ††85 watts x 5 and 180 watts x 1. ††40 watts x 5. ††90 watts x 5. Five-channel operation; separate power supply. For multi-room System 8000; eight stereo amp modules. For multi-room System Omega; without front-panel controls, Model CR-A, \$1550.00. |                    |   |
|                         | RMA-800   | B   | 0.02         | Yes              | 30                    | 1V                         | No                         | 125                                  | 200                                  | 20-20                                 | AB                        |                      | 20                     |                                       |                          |           |  |                    |   |
|                         | RMA-250   | B   | 0.05         | Yes              | 15                    | 1V                         | No                         | 80                                   | 125                                  | 20-20                                 | AB                        | 2                    | 20                     |                                       | 21                       |           |  |                    |   |
|                         | PT-100  | B   | 0.02         | No               | 13                    | 500                        | Yes                        | 50                                   | 75                                   | 20-20                                 | A/AB                      |                      | 50                     |                                       |                          | 2099.00   |  |                    |   |
|                         | PF-200  | B   | 0.07         | No               | 12                    | 1.2V                       | No                         | 60                                   | 110                                  | 20-20                                 | AB                        |                      |                        |                                       | 32                       | 1399.00   |  |                    |   |
|                         | PF-250  | B   | 0.02         | No               | 25                    | 500                        | No                         | 100                                  | 180                                  | 20-20                                 | A/AB                      |                      | 50                     |                                       |                          | 1599.00   |  |                    |   |
|                         | PBA-50  | B   | 0.02         | No               | 10                    | 500                        | Var.                       | 50                                   | 80                                   | 20-200 Hz                             | AB                        |                      |                        |                                       | 12                       | 1999.00   |  |                    |   |
|                         | PBA-150   | B   | 0.06         | No               | 10                    | 500                        | Var.                       | 200                                  | 325                                  | 20-200 Hz                             | AB                        |                      |                        |                                       | 32                       | 2199.00   |  |                    |   |
|                         | BPA-500   | B   | 0.02         | No               | 25                    | 500                        | No                         | 250                                  | 500                                  | 20-200 Hz                             | A/AB                      |                      | 50                     |                                       |                          | 2199.00   |  |                    |   |
|                         | MPA-6   | B   | 0.09         | No               | 9                     | 500                        | Yes                        | †                                    | ††                                   | 20-20                                 | AB                        |                      | 10                     |                                       |                          | 1699.00   |  |                    |   |
| AUDIO INNOVATIONS       | MPA-5   | B   | 0.09         | No               | 9                     | 500                        | Yes                        | †                                    | ††                                   | 20-20                                 | AB                        |                      | 10                     |                                       |                          | 1599.00   | Triode tubes; zero feedback. As above.   |                    |   |
|                         | MPA-500   | B   | 0.02         | No               | 25                    | 500                        | No                         | 200                                  | 400                                  | 20-20                                 | A/AB                      |                      | 50                     |                                       |                          | 5999.00   |  |                    |   |
| AUDIO LAB               | MRA-808(RO)   | I   | 0.03         | No               | 10                    |                            | No                         | 40                                   | 60                                   | 20-20                                 | AB                        |                      |                        |                                       | 52                       | 5800.00   | Triode tubes; zero feedback. As above.   |                    |   |
|                         | CR-8A(RO)   | I   | 0.02         | No               |                       |                            | No                         | 25                                   | 40                                   | 20-20                                 | AB                        |                      |                        |                                       | 13                       | 1899.00   |  |                    |   |
|                         | Delta-650   | I   | .0025        | Yes              | 10                    | 900                        | Yes                        | 44                                   | 60                                   | 20-20                                 |                           |                      | 10                     |                                       | 19                       | 1199.00   |  |                    |   |
|                         | S500  | I/T   | 0.15         | No               |                       |                            |                            | 25                                   |                                      | 30-20                                 | A                         |                      | 100                    |                                       |                          | 1600.00   |  |                    |   |
|                         | S700  | I/T   | 0.15         | No               |                       |                            |                            | 25                                   |                                      | 15-75                                 | A                         |                      | 50                     |                                       |                          | 1500.00   |  |                    |   |
| AUDIO NOTE              | S800  | B/T   | 0.1          | No               |                       |                            |                            | 25                                   |                                      | 20-90                                 | A                         |                      |                        |                                       |                          | 1400.00   | Low-feedback design; auto bias; 4-, 8-, and 16-ohm taps. As above.   |                    |   |
|                         | S1000   | B/T/M   | 0.1          | No               |                       |                            |                            | 50                                   |                                      | 16-100                                | A                         |                      | 220                    |                                       |                          | 2700.00   |  |                    |   |
|                         | S1000 SE  | B/T/M   | 0.1          | No               |                       |                            |                            | 50                                   |                                      | 16-100                                | A                         |                      |                        |                                       |                          | 4250.00   |  |                    |   |
|                         | First Audio Second Audio                                  | B/T/B/T/M   |              | No               |                       |                            |                            | 7.5                                  |                                      |                                       | A                         |                      |                        |                                       |                          | 2500.00   |  |                    |   |
| AUDIO PRISM             | 8000A MkII  | I   | 0.05         | No               | 100                   |                            | No                         | 60                                   | 100                                  | 1-65                                  | AB                        |                      | 50                     | 81                                    | 2.0                      | Yes       | 19   | 850.00             | Transformer cover, \$100.00.              |
|                         | 8000P MkII  | B   | 0.05         | No               | 100                   |                            | No                         | 100                                  | 175                                  | 3-75                                  | AB                        |                      | 50                     |                                       |                          |           | 21   | 1195.00            |   |
|                         | 8000M   | B/M   | 0.05         | No               | 100                   |                            | No                         | 125                                  | 200                                  | 4-75                                  | AB                        |                      | 50                     |                                       |                          |           | 21   | 1035.00            |   |
| AUDIO RESEARCH          | P-40  | B/T/M   |              | No               |                       | 150                        | No                         | 40                                   | 40                                   | 35-24                                 | A                         |                      | 100                    |                                       |                          |           | 32   | 2995.00            | Triode tubes. As above.                   |
|                         | P-100   | B/T/M   |              | No               |                       | 150                        | No                         | 100                                  | 100                                  | 32-24                                 | A                         |                      | 100                    |                                       |                          |           | 50   | 5995.00            |   |
|                         | P-40SE  | B/T   |              | No               |                       |                            | No                         | 35                                   | 35                                   | 32-26                                 | A                         |                      | 100                    |                                       |                          |           |  | 5995.00            |   |
|                         | Oto-Phono SE  | I/T   |              | No               |                       |                            | No                         | 10                                   | 10                                   | 45-25                                 | A                         |                      | 100                    |                                       | 1.2                      | No        | 45   | 2795.00            |   |
|                         | P1-SE   | B/T   |              | No               |                       |                            | No                         | 10                                   | 10                                   | 45-25                                 | A                         |                      | 100                    |                                       |                          |           | 30   | 1895.00            |   |
|                         | First SE-Amp  | B/T   |              | No               |                       |                            | No                         | 8.5                                  | 8.5                                  | 50-24                                 | A                         |                      | 100                    |                                       |                          |           | 25   | 995.00             |   |
|                         | First Integrated  | I/T   |              | No               |                       |                            | No                         | 8.5                                  | 8.5                                  | 50-24                                 | A                         |                      | 100                    |                                       |                          |           | 30   | 1295.00            |   |
|                         | P2-SE   | B/T   |              | No               |                       |                            | No                         | 17                                   | 17                                   | 40-26                                 | A                         |                      | 100                    |                                       |                          |           | 35   | 2495.00            |   |
|                         | Soro-Phono SE   | I/T   |              | No               |                       |                            | No                         | 17                                   | 17                                   | 40-26                                 | A                         |                      | 100                    |                                       | 1.2                      | No        | 50   | 3495.00            |   |
|                         | Soro-Line SE  | I/T   |              | No               |                       | 150                        | No                         | 17                                   | 17                                   | 40-26                                 | A                         |                      | 100                    |                                       |                          |           | 40   | 2995.00            |   |
|                         | P3-SE   | B/T   |              | No               |                       | 3V                         | No                         | 8.5                                  | 8.5                                  | 30-28                                 | A                         |                      | 100                    |                                       |                          |           | 45   | 2995.00            |   |
|                         | Meishu-Phono SE   | I/T   |              | No               |                       | 250                        | No                         | 8.5                                  | 8.5                                  | 30-28                                 | A                         |                      | 100                    |                                       | 1.2                      | No        | 62   | 4695.00            |   |
|                         | Meishu-Line SE  | I/T   |              | No               |                       | 250                        | No                         | 8.5                                  | 8.5                                  | 30-28                                 | A                         |                      | 100                    |                                       |                          |           | 47   | 3995.00            |   |
|                         | P4-SE   | B/T/M   |              | No               |                       | 3V                         | No                         | 17                                   | 17                                   | 30-28                                 | A                         |                      | 100                    |                                       |                          |           | 55   | 5995.00            |   |
|                         | Diva  | B/T/M   |              | No               |                       |                            | No                         | 20                                   | 20                                   | 30-28                                 | A                         |                      |                        |                                       |                          |           |  |                    |   |
| Neiro                   | B/T   |   | No           |                  |                       | No                         | 7.5                        | 7.5                                  |                                      | A                                     |                           | 100                  |                        |                                       |                          | 55        | 16,900.00  |                    |   |
| Kageki                  | B/T   |   | No           |                  |                       | No                         | 7.5                        | 7.5                                  |                                      | A                                     |                           | 100                  |                        |                                       |                          | 65        | 64,700.00  |                    |   |
| Kassai                  | B/T   |   | No           |                  |                       | No                         | 17                         | 17                                   |                                      | A                                     |                           | 100                  |                        |                                       |                          | 90        | 42,900.00  |                    |   |
| Kegon                   | B/T   |   | No           |                  |                       | No                         | 17                         | 17                                   |                                      | A                                     |                           | 100                  |                        |                                       |                          | 100       | 107,000.00   |                    |   |
| Ongaku                  | I/T   |   | No           |                  |                       | No                         | 27                         | 27                                   |                                      | A                                     |                           | 250                  |                        |                                       |                          | 75        | 74,500.00  |                    |   |
| Gaku-On                 | B/T/M   |   | No           |                  |                       | No                         | 45                         | 45                                   |                                      | A                                     |                           |                      |                        |                                       |                          | 85        | 221,000.00   |                    |   |
| AUDIO RESEARCH          | Debüt   | B/T   | 1.0          | No               | 900                   |                            | No                         | 35                                   | 35                                   | 15-15                                 | AB                        | 1.5                  | 150                    |                                       |                          |           | 45   | 1795.00            | Unity-coupled.                            |
| AUDIO RESEARCH          | M300 MKII   | B/H/M   | 0.8          | Opt.             | 25                    | 900                        | No                         | 300                                  | 300                                  | 10-60                                 | AB                        |                      | 60                     |                                       |                          |           | 110  | 5995.00            | Partially cathode-coupled. Unity-coupled. |
|                         | VT130   | B/T   | 1            | Yes              | 17                    | 1.2V                       | No                         | 110                                  | 110                                  | 15-80                                 | AB                        |                      | 200                    |                                       |                          |           | 69   | 4995.00            |   |
| (Continued)             | VT150   | B/T/M   | 1            | Yes              | 17                    | 2.3V                       | No                         | 130                                  | 130                                  | 12-80                                 | AB                        |                      | 200                    |                                       |                          |           | 52   | 5995.00            | Triode operation.                         |
|                         | V35   | B/H   | 1            | Yes              | 15                    | 800                        | No                         | 30                                   | 30                                   | 12-40                                 | AB                        |                      | 400                    |                                       |                          |           | 46   | 2995.00            |   |

# AMPLIFIERS

| MANUFACTURER                   | Model<br>(R) = Remote included<br>(RO) = Remote Optional | Type<br>Integrated = I, Basic = B,<br>Tube = T, Hybrid = H, Mono = M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | Does Unit Invert Polarity? | POWER AMP                               |   |  |                           |                      |                          | PREAMP                               |                          |                    | Price, \$   | Notes  |
|--------------------------------|--|--|--------------|------------------|-----------------------|----------------------------|----------------------------|---|---|--|---------------------------|----------------------|--------------------------|--------------------------------------|--------------------------|--------------------|---|--|
|                                |  |  |              |                  |                       |                            |                            | Cont. Avg. Watts/Channel<br>into 8 Ohms | Cont. Avg. Watts/Channel<br>into 4 Ohms | Rated Full-Power Bandwidth,<br>Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, kilohms | MM Phono S/N, dB * A - Wkt. re. 5 mV | MM Phono Sensitivity, mV | Moving Coil Input? |   |  |
| AUDIO RESEARCH<br>(Continued)  | V70  | B/H  | 1            | Yes              | 20                    | 1.1V                       | No                         | 60                                      | 60                                      | 15-50                                    | AB                        |                      | 400                      |                                      |                          | 63                 | 3995.00   | As above.  |
|                                | V140   | B/H/M  | 1            | Yes              | 25                    | 1.3V                       | No                         | 120                                     | 120                                     | 10-80                                    | AB                        |                      | 400                      |                                      |                          | 61                 | 3995.00   | As above.  |
|                                | D200   | B  | 0.5          | Yes              | 50                    | 1.9V                       | No                         | 110                                     | 200                                     | 0-150                                    |                           |                      | †                        |                                      |                          | 33                 | 2495.00   | †Unbalanced, 150 kilohms; balanced, 300 kilohms.   |
|                                | D300   | B  | 0.5          | Yes              | 50                    | 1.9V                       | No                         | 160                                     | 300                                     | 0-150                                    |                           |                      | †                        |                                      |                          | 48                 | 3995.00   |  |
|                                | D400 MKII<br>CL150                                       | B/H/M  | 0.8          | Opt.             | 25                    | 600                        | 1.9V                       | Var.                                    | 200                                     | 400                                      | 0.01-160<br>7-100         | AB<br>AB             | 3                        | 57<br>60                             |                          |                    | 73<br>110   | 5495.00<br>4995.00   |
| AUDIOSOURCE                    | Amp One  | B  | 0.04         | No               |                       | Sel.                       | No                         | 80                                      |   | 20-20                                    | AB                        | 2                    | Sel.                     |                                      |                          | 14                 | 299.95  | Bridges to 200 watts; soft clipping.   |
| AUDIRE                         | Parlando   | B  | 0.02         | Yes              | 50                    | 1.4V                       | No                         | 100                                     | 200                                     | 2-50                                     | A                         |                      | 51                       |                                      |                          | 85                 | 3741.00   |  |
|                                | Otez   | B  | 0.03         | Yes              | 50                    | 1.5V                       | No                         | 250                                     | 500                                     | 2-50                                     | AB                        |                      | 51                       |                                      |                          | 85                 | 3569.00   |  |
|                                | Tenendo  | B  | 0.05         | Yes              | 50                    | 1.5V                       | No                         | 200                                     | 400                                     | 5-50                                     | AB                        |                      | 51                       |                                      |                          | 50                 | 2154.00   |  |
|                                | Forte  | B  | 0.05         | Yes              | 50                    | 1.4V                       | No                         | 125                                     | 250                                     | 2-50                                     | AB                        |                      | 51                       |                                      |                          | 45                 | 1360.00   | Bipolar; MOS-FET version, \$1467.00.   |
|                                | Crescendo  | B  | 0.05         | Yes              | 45                    | 1.3V                       | No                         | 75                                      | 130                                     | 2-50                                     | AB                        |                      | 51                       |                                      |                          | 28                 | 760.00  | Bipolar; MOS-FET version, \$865.00.  |
| AYRE                           | V-3  | B  |              | Yes              |                       | 775                        | No                         | 100                                     | 200                                     | 20-20                                    | AB                        |                      | 10                       |                                      |                          | 55                 | 3450.00   | Inductor-input power supply; zero feedback.  |
| BEL                            | 1001 MKII  | B  |              | No               |                       | 1V                         | No                         | 50                                      | 100                                     | 5-200                                    | A                         | 0                    | 27                       |                                      |                          | 31                 | 2995.00   | Bridges to 200 watts into 8 ohms and 400 watts into 4 ohms; balanced output.   |
| BEL CANTO DESIGN               | Orfeo  | B/T/M  | 0.1          | Yes              |                       | 1.5V                       | No                         | 30                                      | 30                                      | 20-20                                    | A                         |                      | 100                      |                                      |                          | 70                 | 7590.00   | Triode tubes.  |
|                                | Celio  | B  | 0.1          | Yes              |                       | 1.5V                       | No                         | 100                                     | 100                                     | 5-100                                    | A/AB1                     |                      | 100                      |                                      |                          | 75                 | 2490.00   | Bridgeable.  |
| THE DAVID BERNING CO.          | EA-2101  | B/T  | 2            | Yes              |                       | 1V                         | No                         | 100                                     | 100                                     | 20-40                                    | AB                        | 2                    | 100                      |                                      |                          | 40                 | 3900.00   |  |
| BGW SYSTEMS                    | 200  | B  | 0.08         | Yes              |                       | 942                        | No                         | 100                                     | 200                                     | 20-20                                    | AB                        |                      | 15                       |                                      |                          | 14                 | 999.00  | Bridgeable.  |
|                                | 350  | B  | 0.03         | Yes              | 20                    |                            | No                         | 200                                     | 325                                     | 20-20                                    | AB                        |                      | 15                       |                                      |                          | 34                 | 1199.00   | As above; with LED display, 350A, \$1349.00.   |
|                                | 750F   | B  | 0.03         | Yes              | 20                    | 1.6V                       | No                         | 280                                     | 450                                     | 20-20                                    | AB                        |                      | 15                       |                                      |                          | 55                 | 1699.00   | Bridgeable; with LED display, 750G, \$1849.00.   |
| B+C AMERICA                    | SWA 100  | †  | 0.7          | No               |                       | 77                         | No                         | 70                                      | 100                                     | 20-70 Hz                                 | AB                        | 2                    | 20                       |                                      |                          | 15                 | 399.50  | †Mono subwoofer amp with crossover, fixed EQ, and volume control.  |
| B & K COMPONENTS               | ST120  | B  | 0.09         | Yes              | 14                    | 900                        | No                         | 60                                      | 80                                      | 5-45                                     | AB                        | 1.4                  | 24                       |                                      |                          |                    | 398.00  |  |
|                                | ST1400   | B  | 0.09         | Yes              | 14                    | 1.2V                       | No                         | 105                                     | 150                                     | 5-45                                     | AB                        | 1.4                  | 24                       |                                      |                          |                    | 598.00  |  |
|                                | ST1400M  | B/M  | 0.09         | Yes              | 14                    | 1.4V                       | No                         | 150                                     | 200                                     | 5-45                                     | AB                        | 1.5                  | 24                       |                                      |                          |                    | 598.00  |  |
|                                | ST2020   | B  | 0.09         | Yes              | 14                    | 1.4V                       | No                         | 150                                     | 200                                     | 5-45                                     | AB                        | 1.5                  | 24                       |                                      |                          |                    | 698.00  |  |
|                                | ST3030   | B  | 0.09         | Yes              | 14                    | 1.7V                       | No                         | 200                                     | 300                                     | 5-45                                     | AB                        | 1.1                  | 24                       |                                      |                          |                    | 798.00  |  |
|                                | EX4420   | B  | 0.09         | Yes              | 14                    | 1.7V                       | No                         | 200                                     | 350                                     | 1-45                                     | AB                        | 1.4                  | 24                       |                                      |                          |                    | 998.00  |  |
|                                | EX4420M  | B/M  | 0.09         | Yes              | 14                    | 1.7V                       | No                         | 200                                     | 400                                     | 1-45                                     | AB                        | 1.4                  | 24                       |                                      |                          |                    | 1098.00   |  |
|                                | AV654  | B  | 0.09         | No               | 14                    | 900                        | No                         | 60                                      | 80                                      | 5-45                                     | AB                        | 2                    | 24                       |                                      |                          |                    | 998.00  | Six-channel operation.   |
|                                | AV5000   | B  | 0.09         | No               | 14                    | 1.2V                       | No                         | 105                                     | 150                                     | 5-45                                     | AB                        | 1.4                  | 24                       |                                      |                          |                    | 798.00  | Five-channel operation, 105 watts x 3 and 60 watts x 2.  |
|                                | AV6000   | B  | 0.09         | No               | 14                    | 1.2V                       | No                         | 105                                     | 150                                     | 5-45                                     | AB                        | 1.4                  | 24                       |                                      |                          |                    | 1298.00   | Six-channel operation.   |
| TX1430                         | B  | 0.09   | No           | 14               | 1V                    | No                         | 105                        | 150                                     | 5-45                                    | AB                                       | 1.4                       | 24                   |                          |                                      |                          | 898.00             | THX certification pending; three-channel operation. |  |
| TX4430                         | B  | 0.09   | No           | 14               | 1.4V                  | No                         | 200                        | 300                                     | 5-45                                    | AB                                       | 1.2                       | 24                   |                          |                                      |                          | 1498.00            | As above.   |  |
| BOULDER AMPLIFIERS             | 102AE  | B  | 0.005        | Yes              |                       |                            | No                         | 100                                     | 170                                     |  | AB                        | 1.5                  |                          |                                      |                          |                    | 2875.00   | With metal finish, 102M, \$3250.00.  |
|                                | 250AE  | B  | 0.005        | Yes              | 25                    | 1.3V                       | No                         | 75                                      | 125                                     | 10-100                                   | AB                        |                      | 10                       |                                      |                          | 30                 | 3125.00   | Peak current, 30 amps.   |
|                                | 500AE  | B  | 0.005        | Yes              | 35                    | 1.8V                       | No                         | 150                                     | 250                                     | 10-100                                   | AB                        |                      | 10                       |                                      |                          | 51                 | 4650.00   | Peak current, 50 amps; with metal finish, 500M, \$5450.00.   |
|                                | 250AE Mono   | B/M  | 0.005        | Yes              | 50                    | 1.3V                       | No                         | 250                                     | 250                                     | 10-100                                   | AB                        |                      | 10                       |                                      |                          | 30                 | 6250.00   | Peak current, 30 amps; balanced output.  |
|                                | 500AE Mono   | B/M  | 0.005        | Yes              | 70                    | 1.8V                       | No                         | 500                                     | 500                                     | 10-100                                   | AB                        |                      | 10                       |                                      |                          | 51                 | 9300.00   | Peak current, 50 amps; balanced output.  |
| 500                            | B  | 0.005  | Yes          | 35               | 1.8V                  | No                         | 150                        | 250                                     | 10-100                                  | AB                                       |                           | 25                   |                          |                                      | 51                       | 5800.00            | As above.   |  |
| BRYSTON                        | 8B-NRB   | B  | 0.01         | Yes              | 60                    | 1V                         | No                         | †                                       | ††                                      | 0.5-100                                  | AB                        |                      | 50                       |                                      |                          | 42                 | 2695.00   | †120 watts x 4. ††200 watts x 4. Bridges to 400 watts x 2 into 8 ohms; three-channel operation, 120 watts x 2 and 400 watts x 1 into 8 ohms. |
|                                | 7B-NRB   | B/M  | 0.01         | Yes              | 60                    | 1V                         | No                         | 500                                     | 800                                     | 1-100                                    | AB2                       |                      | 50                       |                                      |                          | 42                 | 4390.00   | Operates into 1 ohm; regulated power supply.   |
|                                | 4B-NRB   | B  | 0.01         | Yes              | 60                    | 1.3V                       | No                         | 250                                     | 400                                     | 1-100                                    | AB2                       |                      | 50                       |                                      |                          | 42                 | 2195.00   | Bridgeable; regulated power supply.  |
|                                | 3B-NRB   | B  | 0.01         | Yes              | 60                    | 1V                         | No                         | 125                                     | 200                                     | 1-100                                    | AB2                       |                      | 50                       |                                      |                          | 28                 | 1395.00   | Regulated power supply.  |
|                                | 2B-LP  | B  | 0.01         | Opt.             | 60                    | 750                        | No                         | 50                                      | 100                                     | 1-100                                    | AB2                       |                      | 50                       |                                      |                          | 18                 | 750.00  | As above; bridgeable; LED protection indicators.   |
|                                | 8B-THX   | B  | 0.01         | Yes              | 60                    | 1V                         | No                         | †                                       | ††                                      | 0.5-100                                  | AB                        |                      | 50                       |                                      |                          | 42                 | 2950.00   | THX certified; bridges to 400 watts x 2 into 8 ohms; three-channel operation, 120 watts x 2 and 400 watts x 1 into 8 ohms.                   |
|                                | 7B-THX   | B/M  | 0.01         | Yes              | 60                    | 1V                         | No                         | 500                                     | 800                                     | 0.5-100                                  | AB                        |                      | 50                       |                                      |                          | 42                 | 2345.00   | THX certified.   |
|                                | 4B-THX   | B  | 0.01         | Yes              | 60                    | 1.5V                       | No                         | 250                                     | 400                                     | 1-100                                    | AB2                       |                      | 50                       |                                      |                          | 42                 | 2245.00   | As above; bridgeable; regulated power supply.  |
| 3B-THX                         | B  | 0.01   | Yes          | 60               | 1.3V                  | No                         | 125                        | 200                                     | 1-100                                   | AB2                                      |                           | 50                   |                          |                                      | 28                       | 1445.00            | As above.   |  |
| CALRAD ELECTRONICS             | 95-830   | B  |              | No               |                       |                            | No                         | 6                                       |   | 10-25                                    |                           |                      | 150                      |                                      |                          | ½                  | 34.00   | Circuit board only; bridges to 15 watts; operates on 12 V d.c.   |
|                                | 95-869   | B/M  |              | No               |                       |                            | No                         | 10                                      |   | 10-25                                    |                           |                      | 150                      |                                      |                          | ½                  | 27.00   | Circuit board only; operates on 12 to 15 V d.c.  |
| CAMBRIDGE AUDIO<br>(Continued) | P25  | I  | 0.02         | No               |                       | 300                        | No                         | 30                                      |   | 11-36                                    | B                         |                      |                          | 78                                   | 2.1                      | Yes                | 13  | 349.95   |
|                                | P50  | I  | 0.01         | No               |                       | 300                        | No                         | 50                                      |   | 3-82                                     | B                         |                      |                          | 80                                   | 4.3                      | Yes                | 13  | 499.95   |
|                                | P70  | I  | 0.01         | No               |                       | 160                        | No                         | 60                                      |   | 3-82                                     | B                         |                      |                          | 80                                   | 4.3                      | Yes                | 14  | 599.95   |
|                                | A70  | B  | 0.01         | No               |                       | 450                        | No                         | 60                                      |   | 3-82                                     | B                         |                      |                          | 80                                   | 4.3                      | Yes                | 14  | 499.95   |

10 details  
to look for  
in your next  
amplifier.





## 1. Enough power to rock a city block.

Great sound takes a lot of power. That's why Adcom's GFA-5800 power amplifier is built around an enormous toroidal transformer. The kind that makes most high-end stereo buffs listen and take notice. It has the highest power-to-weight/space ratio of any transformer design on the market. And because it is designed with totally separate secondary windings and independent ground

connections, each channel is completely isolated from crosstalk and AC line interference. Clear, powerful sound.

The kind your neighbors love to hear.

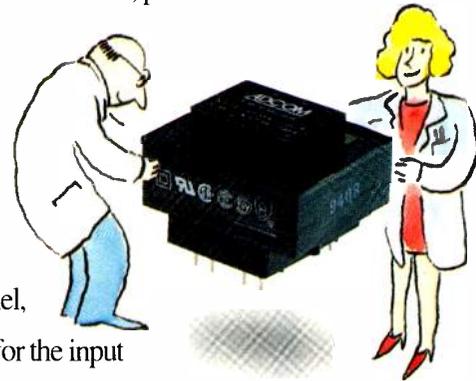
## 2. Front end power.

In addition to the GFA-5800's main toroidal transformer, two separate "front end" transformers are also used. These additional devices isolate the front end input stages from the main output section.

And by using two transformers, one for the left channel and one for the right channel,

any peak demands from the output stages will not decrease the operating voltages for the input

sections. This design also contributes to ideal separation at the inputs for better soundstaging and more precise imaging.



## 3. Huge power supplies.

Adcom's GFA-5800 power amplifier does something that most amps only dream of. It has exceptionally large capacitors, (over 100,000 microfarads of total filter capacitance), that are able to store large amounts of DC current for supply to the speakers. This large storage capacity means that the amp won't be starved for power when you're driving low impedance speaker systems. Now your speakers and your music sound the way you expect them to, all the time.



## 4. Circuitry that's in a class by itself.

The GFA-5800's glass epoxy circuit board is a testament to simplicity of organization and outstanding sound. Using single-ended Class "A"

circuitry in the front end, Adcom's GFA-5800 delivers the pure sound that other amplifiers

only talk about. And because the gain devices are biased by constant current

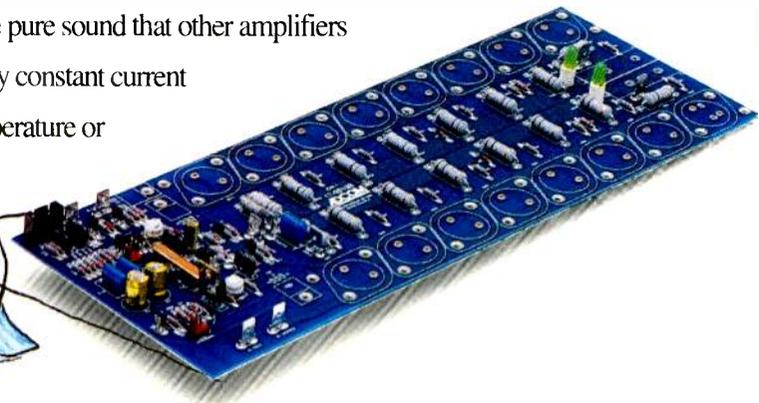
sources, they won't change their bias under changing temperature or

dynamic conditions. All devices are

precision matched for flawless performance

and negligible distortion, producing a high

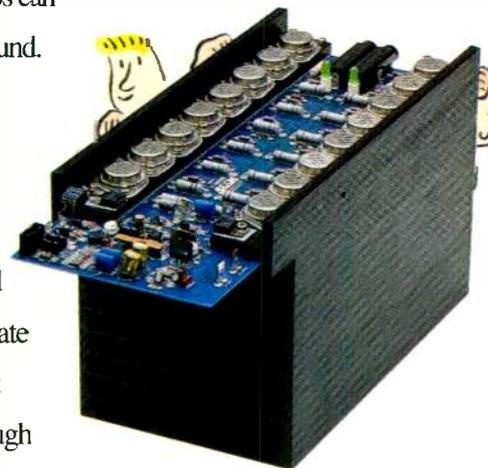
damping factor and higher output currents.



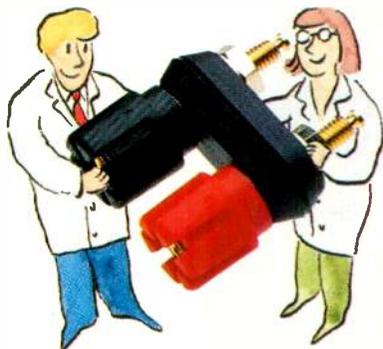


**5. Transistors that sound like tubes.** All transistors in the signal path of the Adcom GFA-5800 are 100% International Rectifier Hexfets. Hexfet circuits are reference grade, hybrid MOSFET transistors. These innovative circuits surpass conventional MOSFET technology, providing superior performance, consistency and reliability. Hexfet circuitry produces all the punch and muscle of bipolar devices with the sweeter sound of tube amps. The use of Hexfet circuits creates an efficient board with direct gain paths. The GFA-5800 only has three gain stages while comparable amps can have five stages or more. The shorter the path of power resistance, the better the sound.

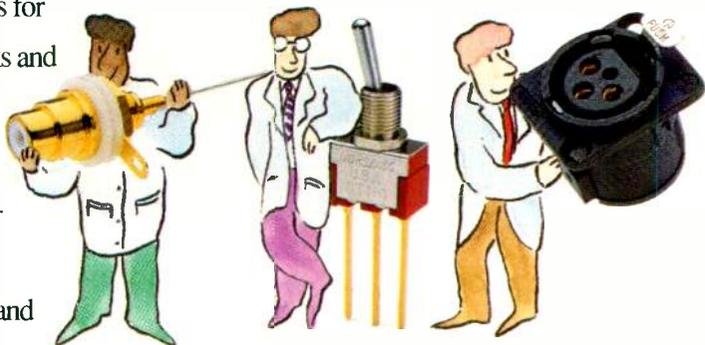
**6. Cool running heat sinks.** Making a reference class amplifier that delivers superior sound under all conditions is one thing. Making sure it runs cool enough so it won't overheat is another. With Adcom's GFA-5800 you get both. Because of its oversized toroidal transformer, front end transformers and MOSFET circuits it requires an active cooling system to dissipate the heat that all superior power amplifiers create. By combining a state-of-the-art heat sink design with a micro-sized cooling fan, the GFA-5800 can blow air through a tunnel in the heat sink and dissipate up to 1500 watts on a continuous basis. This way your hottest tunes can stay cool.



**7. No hassle speaker hook ups.** The GFA-5800 comes with versatile binding posts for easy speaker hook-ups. Accepting either standard stripped or "tinned" wires, single or dual banana plugs or spade lug connectors, the GFA-5800 is a great match for any system. And since it can drive virtually any speaker system, regardless of its impedance, even the most demanding speakers will sing beautiful music. Additionally, the GFA-5800 also comes equipped with two sets of binding posts for each channel. These extra binding posts allow the GFA-5800 to accommodate speaker systems that have "bi-wire" capabilities for extra output compatibility.



**8. Great sound from the outside in.** Adcom makes sure that the sound created by your other components is flawlessly transferred to the GFA-5800's balanced power and optimum circuit technology. The GFA-5800 is equipped with two types of input connectors for complete compatibility, "Tiffany style", gold-plated RCA jacks and XLR jacks. The GFA-5800's professional grade three pin XLR jacks provide both positive, negative and shield properties. The result is a balanced line connection between the GFA-5800 and your other components. This connection is almost immune to electromagnetic and radio frequency interferences and provides a great reduction in "common mode noise".



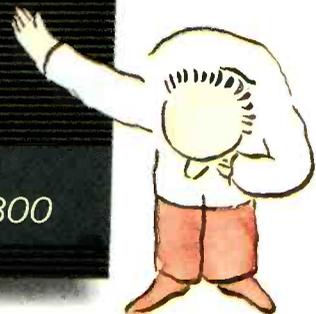
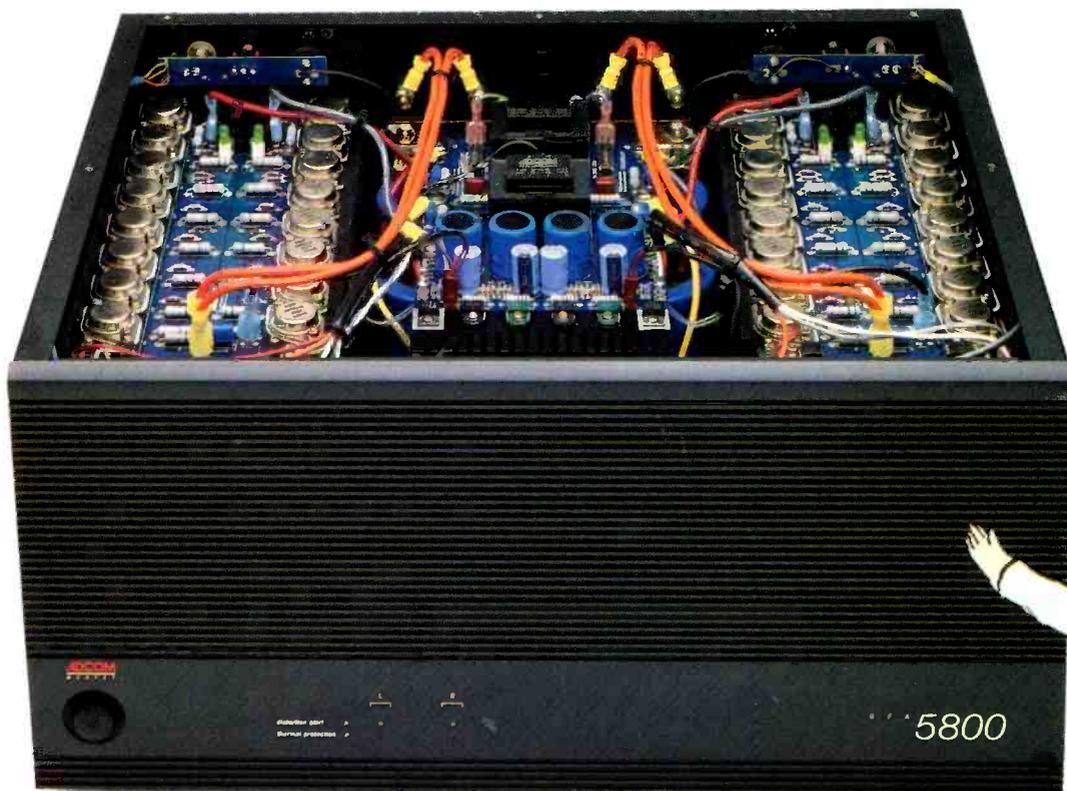
## 9. More quality than you bargained for.

Dollar-for-dollar the Adcom GFA-5800 out-performs any power amplifier on the market. Its dependable technology and efficient use of the highest quality parts makes it one of the most sought after audiophile products in recent years. And because it's an Adcom component it will benefit from a high resale value and an outstanding dealer service network. After you hear the GFA-5800 you'll agree that it's an incredible value in high end audio.



## 10. Make sure it's an Adcom.

The most important detail to look for before you buy your next amplifier is the Adcom name. Adcom audio components are designed to be second to none. It's this driving passion for accurate, musical sound and performance that has made Adcom components sought after by the discriminating audiophile. Through its combination of technology and innovative engineering techniques, the Adcom GFA-5800 is quite possibly, the best amplifier you may ever hear. From its toroidal transformer and giant capacitors to its revolutionary heat sink assembly and reference grade Hexfet circuitry, the Adcom GFA-5800 was built to be the best amplifier money can buy. Listen to all the details the GFA-5800 has to offer at your Adcom dealer today. We're sure you'll agree that the GFA-5800 is truly a sound investment.



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# AMPLIFIERS

| MANUFACTURER                   | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | Type: Integrated = I, Basic = B,<br>Tubes = T, Hybrid = H, Mono = M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | POWER AMP                  |                                      |                                      |                                       |                           |                      | PREAMP                   |                                     |                          | Price, \$ | Notes |                    |  |
|--------------------------------|--|---|--------------|------------------|-----------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------|----------------------|--------------------------|-------------------------------------|--------------------------|-----------|-------|--------------------|--|
|                                |  |   |              |                  |                       |                            | Does Unit Invert Polarity? | Cont. Avg. Watts/Channel into 8 Ohms | Cont. Avg. Watts/Channel into 4 Ohms | Rated Full-Power Bandwidth, Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, kilohms | MM Phono S/N, dB - A* Wtd. re: 3 mV | MM Phono Sensitivity, mV |           |       | Moving Coil Input? | Weight, Lbs.   |
| CAMBRIDGE AUDIO<br>(Continued) | A100   | B   | 0.01         | No               |                       | 1.1V                       | No                         | 110                                  |                                      | 3-82                                  | B                         |                      |                          |                                     |                          |           | 22    | 699.95             |  |
| CARVER                         | AV-806x  | B   | 0.03         | No               |                       | 1.2V                       | No                         | †                                    | ††                                   | 20-20                                 | AB                        | 1.2                  | 100                      |                                     |                          |           | 45    | 1750.00            | A/V amp; THX certified; bridgeable; ††133 watts x 6; ††180 watts x 6.  |
|                                | AV-405   | B   | 0.1          | No               |                       | 1V                         | No                         | †                                    | 150                                  | 20-20                                 | AB                        | 1.2                  | 47                       |                                     |                          |           | 25    | 750.00             | A/V amp; †Front, 100 watts x 2; rear, 50 watts x 2; center, 110 watts x 1.   |
|                                | TFM-55x  | B   | 0.5          | No               |                       | 1.5V                       | No                         | 380                                  | 600                                  | 20-20                                 | AB                        | 1.0                  | 100                      |                                     |                          |           |       | 1195.00            | THX certification pending; Magnetic Field power supply.  |
|                                | TFM-35x  | B   | 0.5          | No               |                       | 1.5V                       | No                         | 250                                  | 380                                  | 20-20                                 | AB                        | 2.1                  | 100                      |                                     |                          |           |       | 865.00             | THX certified.   |
|                                | TFM-15cb   | B   | 0.5          | No               |                       | 1.5V                       | No                         | 100                                  | 140                                  | 20-20                                 | AB                        | 1.1                  | 100                      |                                     |                          |           |       | 535.00             | Bridgeable; preamp outputs for daisy-chaining.   |
|                                | TFM-6cb  | B   | 0.1          | No               |                       | 1.5V                       | No                         | 65                                   | 110                                  | 20-20                                 | AB                        | 1.1                  | 100                      |                                     |                          |           |       | 350.00             | As above.  |
|                                | CMV-1185(RI)   | I   | 0.1          | No               |                       | 500                        | No                         | †                                    | 130                                  | 20-20                                 | AB                        | 1                    | 47                       | 85                                  | 1.4                      | No        | 27    | 850.00             | A/V surround amp (see also "Surround Processors"); Dolby Pro Logic, center-channel gain control; subwoofer output. |
|                                | CM-1090(RI)  | I   | 0.1          | No               |                       | 150                        | No                         | 100                                  | 140                                  | 20-20                                 | AB                        | 1.7                  | 100                      | 78                                  | 1.3                      | No        | 29    | 680.00             | †Front, 80 watts x 2; rear, 35 watts x 2; center, 90 watts x 1. Sonic Holography; CD direct; matrix surround.      |
| CARVER RESEARCH                | LightStar  | B   | 0.1          | Yes              |                       |                            | No                         | 300                                  | 600                                  | 1-25                                  | A                         |                      | 47                       |                                     |                          |           | 75    |                    |  |
| CARY AUDIO DESIGN              | CAD-300SEI   | I/T   |              | No               |                       | 250                        | No                         | 11                                   | 11                                   | 23-20                                 | A                         |                      | 50                       |                                     |                          |           | 42    | 3395.00            |  |
|                                | CAD-75I  | I/T   |              | No               |                       | 200                        | Yes                        | 75                                   | 72                                   | 9-26                                  | AB                        |                      | 100                      |                                     |                          |           | 63    | 2495.00            |  |
|                                | SLI-30   | I/T   |              | No               |                       | 400                        | No                         | 30                                   | 30                                   | 20-23                                 | AB                        |                      | 50                       |                                     |                          |           | 50    | 1495.00            |  |
|                                | SLA-30   | B/T   |              | No               |                       | 500                        | No                         | 40                                   | 30                                   | 20-23                                 | AB                        |                      | 150                      |                                     |                          |           | 27    | 999.00             |  |
|                                | SLA-70B  | B/T   |              | Opt.             |                       | 900                        | No                         | 50                                   | 49                                   |                                       | A/AB                      |                      | 150                      |                                     |                          |           | 34    | 1195.00            |  |
|                                | SLA-70B S/G  | B/T   |              | Opt.             |                       | 900                        | No                         | 50                                   | 56                                   | 18-26                                 | A/AB                      |                      | 150                      |                                     |                          |           | 42    | 1595.00            |  |
|                                | CAD-300B S/G   | B/T   |              | Opt.             |                       | 2V                         | No                         | 25                                   | 25                                   | 18-26                                 | A                         |                      | 100                      |                                     |                          |           | 54    | 2995.00            |  |
|                                | SLM-100  | B/T/M   |              | Opt.             |                       | 750                        | No                         | 113                                  | 100                                  | 15-23                                 | A/AB                      |                      | 150                      |                                     |                          |           | 40    | 3295.00            |  |
|                                | CAD-300M S/G   | B/T/M   |              | Opt.             |                       | 750                        | No                         | 60                                   | 60                                   | 18-26                                 | A                         |                      | 150                      |                                     |                          |           | 54    | 5995.00            | Pair   |
|                                | CAD-300SE  | B/T/M   |              | Opt.             |                       | 900                        | No                         | 12                                   | 12                                   | 26-23                                 | A                         |                      | 150                      |                                     |                          |           | 32    | 3695.00            | Pair   |
|                                | CAD-80M  | B/T/M   |              | Opt.             |                       | 900                        | No                         | 75                                   | 75                                   | 18-26                                 | A/AB                      |                      | 150                      |                                     |                          |           | 32    | 2495.00            | Pair   |
|                                | CAD-805  | B/T/M   |              | Opt.             |                       | 750                        | No                         | 50                                   | 50                                   | 19-23                                 | A                         |                      | 150                      |                                     |                          |           | 114   | 7995.00            | Pair   |
|                                | CAD-211M   | B/T/M   |              | Yes              |                       | 700                        | No                         | 200                                  | 200                                  | 9-30                                  | A/AB                      |                      | 150                      |                                     |                          |           | 126   | 12,500.00          | Pair   |
|                                | CAD-300SSE   | B/T   |              | Opt.             |                       | 800                        | No                         | 20                                   | 20                                   | 25-26                                 | A                         |                      | 100                      |                                     |                          |           | 65    | 5495.00            | Pair   |
|                                | SLM-200  | B/T/M   |              | Opt.             |                       | 750                        | No                         | 200                                  | 200                                  | 17-34                                 | AB                        |                      | 150                      |                                     |                          |           | 120   | 8995.00            | Pair   |
| CELESTE                        | W-4070   | B   | 0.05         | Yes              |                       | 750                        | Var.                       | 70                                   | 140                                  | 10-79                                 | AB                        |                      | 50                       |                                     |                          |           | 31    | 1499.00            | Bridgeable; no feedback.   |
|                                | W-4150   | B   | 0.05         | Yes              |                       | 1V                         | Var.                       | 150                                  | 300                                  | 10-79                                 | AB                        |                      | 50                       |                                     |                          |           | 34    | 1999.00            | As above.  |
|                                | W-4250   | B   | 0.05         | Yes              |                       | 1.5V                       | Var.                       | 250                                  | 500                                  | 10-79                                 | AB                        |                      | 50                       |                                     |                          |           | 49    | 2999.00            | As above.  |
|                                | PW-4070i   | I   | 0.05         | No               |                       |                            | Var.                       | 70                                   |                                      | 10-79                                 | AB                        |                      | 25                       | 80                                  | 2.0                      | Yes       | 18    | 1499.00            | No feedback.   |
| CELLO LTD.                     | Performance II   | B/M   | 0.1          | Yes              |                       | 1.5V                       | No                         | 200                                  | 400                                  | 20-20                                 | AB1                       | 2.7                  | 1M                       |                                     |                          |           | 180   | 22,000.00          | Bridgeable; separate power supplies.   |
|                                | Duet 350   | B   | 0.25         | Yes              |                       | 1.5V                       | No                         | 350                                  | 600                                  | 20-20                                 | AB                        |                      | 1M                       |                                     |                          |           | 95    | 7500.00            | Bridgeable.  |
|                                | Encore   | B/M   | 0.3          | Yes              |                       | †                          | No                         | 50                                   | 100                                  | 20-20                                 | AB2                       | 1.8                  | 330                      |                                     |                          |           | 28    | 6000.00            | †Balanced 376 mV; unbalanced, 752 mV. As above; stereo version available.  |
| CLASSÉ AUDIO                   | 70   | B/H   | 0.01         | Yes              | 70                    | 900                        |                            | 75                                   | 150                                  | 20-20                                 | A/AB                      | 3                    | 70                       |                                     |                          |           | 35    | 1195.00            |  |
|                                | 10   | B/H   | 0.01         | Yes              | 70                    | 1V                         |                            | 125                                  | 250                                  | 20-20                                 | A/AB                      | 3                    | 70                       |                                     |                          |           | 45    | 1995.00            | Bridges to 400 watts.  |
|                                | 15   | B/H   | 0.01         | Yes              | 70                    | 1V                         |                            | 175                                  | 350                                  | 20-20                                 | A/AB                      | 3                    | 70                       |                                     |                          |           | 60    | 2995.00            | Bridges to 700 watts.  |
|                                | 25   | B/H   | 0.01         | Yes              | 70                    | 1.2V                       |                            | 250                                  | 500                                  | 20-20                                 | A/AB                      | 3                    | 70                       |                                     |                          |           | 69    | 3995.00            | Bridges to 1000 watts.   |
|                                | M700   | B/H/M   | 0.01         | Yes              | 70                    | 1.2V                       |                            | 700                                  | 1400                                 | 20-20                                 | A/AB                      | 5                    | 70                       |                                     |                          |           | 78    | 3495.00            |  |
|                                | M1000  | B/H/M   | 0.01         | Yes              | 70                    | 1.6V                       |                            | 1000                                 | 2000                                 | 20-20                                 | A/AB                      | 5                    | 70                       |                                     |                          |           | 92    | 4495.00            | Each   |
| DON J. COCHRAN                 | Delta Mode II  | B/H/M   | 0.07         | Yes              | 65                    | 1.6V                       | No                         | 200                                  | 200                                  | 0.5-50                                |                           | 0.4                  | 50                       |                                     |                          |           | 58    | 6800.00            | Differential signal path; balanced bridge output.  |
| CODA TECHNOLOGIES              | 2.5  | B   | 0.1          | Yes              | 50                    | 650                        | No                         | 25                                   | 50                                   | 0-100                                 | A                         | 1.0                  | 50                       |                                     |                          |           | 35    | 2350.00            | Bridgeable.  |
|                                | 10   | B   | 0.1          | Yes              | 50                    | 1.3V                       | No                         | 100                                  | 200                                  | 0-100                                 | A/AB                      | 1.5                  | 50                       |                                     |                          |           | 45    | 2750.00            | As above.  |
|                                | 11   | B   | 0.1          | Yes              | 50                    | 1.3V                       | Var.                       | 100                                  | 200                                  | 0-100                                 | A                         | 0.5                  | 50                       |                                     |                          |           | 85    | 4750.00            | As above.  |
|                                | 20   | B   | 0.1          | Yes              | 50                    | 1.8V                       | Var.                       | 200                                  | 400                                  | 0-100                                 | A/AB                      | 1.0                  | 50                       |                                     |                          |           | 85    | 4750.00            | As above.  |
|                                | System 100   | B   | 0.1          | Yes              | 50                    | 1.3V                       | Var.                       | 100                                  | 200                                  | 0-100                                 | A                         | 0.5                  | 100                      |                                     |                          |           | 100   | 6750.00            | As above.  |
|                                | System 200   | B/M   | 0.1          | Yes              | 50                    | 1.8V                       | Var.                       | 200                                  | 400                                  | 0-100                                 | A                         | 0.5                  | 100                      |                                     |                          |           | 185   | 12,000.00          | Shared voltage-gain chassis.   |
|                                | Continuum  | B   | 0.1          | Yes              | 50                    | 1.8V                       | No                         | 200                                  | 400                                  | 5-100                                 | A/AB                      | 1.5                  | 50                       |                                     |                          |           | 45    | 1750.00            |  |
| CONRAD-JOHNSON                 | MF2100   | B   | 1            | No               |                       |                            | No                         | 100                                  |                                      | 20-20                                 | AB                        |                      | 100                      |                                     |                          |           | 34    | 1495.00            |  |
|                                | MF2200   | B   | 1            | No               |                       |                            | No                         | 200                                  |                                      | 20-20                                 | AB                        |                      | 100                      |                                     |                          |           | 46    | 1995.00            |  |
|                                | MF2300   | B   | 1            | No               |                       |                            | No                         | 250                                  |                                      | 20-20                                 | AB                        |                      | 100                      |                                     |                          |           | 55    | 2795.00            |  |
|                                | Premier  | B/T   | 1            | No               |                       |                            | No                         | 70                                   | 70                                   | 30-15                                 | AB                        |                      | 100                      |                                     |                          |           | 54    | 3295.00            |  |
|                                | Eleven-A   |   |              |                  |                       |                            |                            |                                      |                                      |                                       |                           |                      |                          |                                     |                          |           |       |                    |  |
|                                | Premier  | B/T/M   | 1            | No               |                       |                            | No                         | 140                                  | 140                                  | 30-15                                 | AB                        |                      | 100                      |                                     |                          |           | 51    | 3295.00            |  |
|                                | Twelve   |   |              |                  |                       |                            |                            |                                      |                                      |                                       |                           |                      |                          |                                     |                          |           |       |                    |  |
|                                | Premier  | B/T/M   | 1            | No               |                       |                            | No                         | 275                                  | 275                                  | 30-15                                 | AB                        |                      | 100                      |                                     |                          |           | 90    | 7495.00            | Each   |
|                                | Eight-A  |   |              |                  |                       |                            |                            |                                      |                                      |                                       |                           |                      |                          |                                     |                          |           |       |                    |  |
| CONVERGENT AUDIO TECHNOLOGY    | JL1  | B/T/M   | 0.1          | No               |                       |                            | No                         | 125                                  | 150                                  | 7-35                                  | A                         | 0                    | 50                       |                                     |                          |           | 330   |                    | Triode output; dampened chassis.   |
| COUNTERPOINT<br>(Continued)    | Natural Progression Mono                                   | B/H/M   | 0.5          | Yes              |                       | 92                         | No                         | 150                                  | 300                                  | 20-20                                 | AB                        | 3                    | †                        |                                     |                          |           | 170   | 7595.00            | †Unbalanced, 100 kilohms; balanced, 50 kilohms.  |

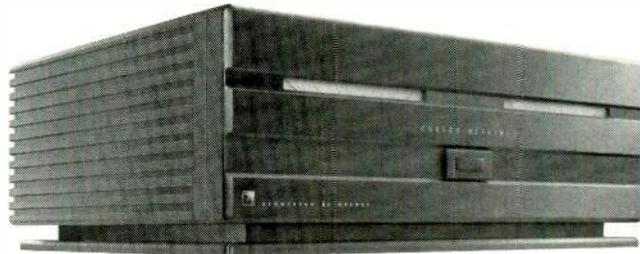
# AMPLIFIERS

| MANUFACTURER             | Model (RI) = Remote Included (RO) = Remote Optional | Type: Integrated = I, Basic = B, Tube = T, Hybrid = H, Mono = M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/ $\mu$ S | High-Level Sensitivity, mV | Does Unit Invert Polarity? | POWER AMP                            |                                      |  |                           | PREAMP               |                          |                                     |                          | Price, \$ | Notes  |  |              |  |
|--------------------------|---|---|--------------|------------------|-----------------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|--|---------------------------|----------------------|--------------------------|-------------------------------------|--------------------------|-----------|--|--|--------------|--|
|                          |   |   |              |                  |                             |                            |                            | Cont. Avg. Watts/Channel Into 8 Ohms | Cont. Avg. Watts/Channel Into 4 Ohms | Rated Full-Power Bandwidth, Hz to $\infty$ kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, Kilohms | MM Phono S/N, dB, "A" Wdr. re: 5 mV | MM Phono Sensitivity, mV |           |  | Moving Coil Input?   | Weight, Lbs. |  |
| COUNTERPOINT (Continued) | NPS 400   | B/H   | 0.5          | Yes              | 92                          | No                         | 200                        | 400                                  | 20-20                                | AB   | 3                         | 100                  |                          |                                     | 65                       | 3495.00   | THX version available. As above.   |  |              |  |
|                          | NPS 200   | B/H   | 0.5          | Yes              | 92                          | No                         | 100                        | 200                                  | 20-20                                | AB   | 3                         | 100                  |                          |                                     | 50                       | 2495.00   |  |  |              |  |
|                          | Solid 1   | B   | 0.2          | Opt.             | 92                          | No                         | 120                        | 200                                  | 20-20                                | AB   | 3                         | †                    |                          |                                     | 28                       | 1295.00   |  |  |              |  |
|                          | Solid 1M  | B/M   | 0.2          | Opt.             | 92                          | No                         | 120                        | 240                                  | 20-20                                | AB   | 3                         | †                    |                          |                                     | 17                       | 895.00    |  |  |              |  |
|                          | Solid 2   | B   | 0.2          | Opt.             | 92                          | No                         | 200                        | 400                                  | 20-20                                | AB   | 3                         | †                    |                          |                                     | 67                       | 1995.00   |  |  |              |  |
| CREDO                    | PMP 154   | B   | 0.001        | No               | 150                         | 1V                         | 150                        | 280                                  | 5-150                                | AB   | 1.4                       | 47                   |                          |                                     | 44                       | 3400.00   |  |  |              |  |
|                          | PMP 303   | B   | 0.001        | No               | 150                         | 1V                         | 30                         | 60                                   | 5-200                                | A  | 1.0                       | 47                   |                          |                                     | 44                       | 3400.00   |  |  |              |  |
|                          | PMP 102   | B   | 0.001        | No               | 150                         | 1V                         | 100                        | 200                                  | 5-200                                | A  | 1.0                       | 47                   |                          |                                     | 66                       | 4362.00   |  |  |              |  |
|                          | PMP 252   | B   | 0.001        | No               | 150                         | 1V                         | 250                        | 450                                  | 5-200                                | AB   | 1.4                       | 47                   |                          |                                     | 66                       | 5200.00   |  |  |              |  |
|                          | IMP 702   | I   | 0.02         | No               | 100                         | 150                        | 100                        | 100                                  | 10-180                               | AB   | 1.5                       | 47                   |                          |                                     | 20                       | 999.00    |  |  |              |  |
| IMP 703(RI)              | I   | 0.02  | No           | 100              | 150                         | 180                        | 180                        | 10-180                               | AB                                   | 1.5  | 47                        | 80                   | 1.5                      | Yes                                 | 20                       | 1198.00   |  |  |              |  |
| CREEK                    | A42   | B   | 0.03         | No               |                             | No                         | 50                         | 75                                   | 20-20                                |  |                           |                      |                          |                                     | 12                       | 595.00    | Bridges to 150 watts with Creek P42 preamp and PBM-42 bridging module. Preamp out/main in jacks; optional phono boards (\$50.00 for MM, \$95.00 for MC).   |  |              |  |
|                          | 4240  | I   | 0.01         | No               |                             | No                         | 40                         |                                      | 20-20                                |  |                           |                      |                          |                                     | 10                       | 595.00    |  |  |              |  |
| CREST AUDIO              | CA6   | B   | 0.01         | Yes              | 35                          | 775                        | No                         | 350                                  | 500                                  | 20-20  | H                         | 1.5                  | 20                       |                                     | 39                       | 2190.00   | Biamp. amplifier. †Low-frequency output channel, 1.5 V; high-frequency output channel, 790 mV. ††Low, 670 watts; high, 125 watts. †††Low, 940 watts; high, 220 watts. †Low, Class H; high, Class AB. |  |              |  |
|                          | CA9   | B   | 0.01         | Yes              | 35                          | 775                        | No                         | 550                                  | 800                                  | 20-20  | H                         | 1.5                  | 20                       |                                     | 43                       |           |  |  |              |  |
|                          | CA12  | B   | 0.01         | Yes              | 35                          | 775                        | No                         | 720                                  | 1200                                 | 20-20  | H                         | 1.5                  | 20                       |                                     | 67                       |           |  |  |              |  |
|                          | 9001  | B   | 0.02         | Yes              | 35                          | 2.3V                       | No                         | 1100                                 | 2050                                 | 20-20  | H                         | 1.5                  | 20                       |                                     | 110                      |           |  |  |              |  |
|                          | 7301  | B   | 0.02         | Yes              | 35                          | †                          | No                         | ††                                   | †††                                  | 20-20  | †                         | 1.5                  | 20                       |                                     | 52                       |           |  |  |              |  |
|                          | 10001   | B   | 0.02         | Yes              | 35                          | 2V                         | No                         | 1150                                 | 2000                                 | 20-20  | H                         | 1.5                  | 20                       |                                     | 127                      |           |  |  |              |  |
|                          | 10004   | B   | 0.02         | Yes              | 35                          | 1.8V                       | No                         | †                                    | ††                                   | 20-20  | H                         | 1.5                  | 20                       |                                     | 135                      |           |  |  |              |  |
|                          | 8001  | B   | 0.025        | Yes              | 35                          | 1.8V                       | No                         | 720                                  | 1100                                 | 20-20  | H                         | 1.5                  | 20                       |                                     | 84                       |           |  |  |              |  |
|                          | 7001  | B   | 0.025        | Yes              | 35                          | 1.4V                       | No                         | 550                                  | 715                                  | 20-20  | H                         | 1.5                  | 20                       |                                     | 54                       |           |  |  |              |  |
|                          | 6001  | B   | 0.25         | Yes              | 35                          | 1.1V                       | No                         | 300                                  | 480                                  | 20-20  | H                         | 1.5                  | 20                       |                                     | 50                       |           |  |  |              |  |
|                          | 4801  | B   | 0.25         | Yes              | 35                          | 1.1V                       | No                         | 300                                  | 480                                  | 20-20  | H                         | 1.5                  | 20                       |                                     | 50                       |           |  |  |              |  |
|                          | 4601  | B   | 0.12         | Yes              | 35                          | 1V                         | No                         | 300                                  | 425                                  | 20-20  | H                         | 1.5                  | 20                       |                                     | 52                       |           |  |  |              |  |
|                          | 3301  | B   | 0.25         | Yes              | 35                          | 908                        | No                         | 220                                  | 330                                  | 20-20  | H                         | 1.5                  | 20                       |                                     | 52                       |           |  |  |              |  |
|                          | FA2401  | B   | 0.025        | Yes              | 35                          | 775                        | No                         | 330                                  | 580                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 55                       |           |  |  |              |  |
|                          | FA1201  | B   | 0.025        | Yes              | 35                          | 775                        | No                         | 280                                  | 450                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 39                       |           |  |  |              |  |
|                          | FA901   | B   | 0.025        | Yes              | 14                          | 775                        | No                         | 225                                  | 300                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 36                       |           |  |  |              |  |
|                          | FA601   | B   | 0.025        | Yes              | 14                          | 775                        | No                         | 120                                  | 225                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 26                       |           |  |  |              |  |
|                          | CC151   | B   | 0.025        | Yes              | 35                          | 870                        | No                         | 180                                  | 300                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 43                       |           |  |  |              |  |
|                          | CC301   | B   | 0.25         | Yes              | 35                          | 1.2V                       | No                         | 350                                  | 500                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 56                       |           |  |  |              |  |
|                          | CV301   | B   | 0.25         | Yes              | 35                          | 870                        | No                         | 300                                  | 300                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 60                       |           |  |  |              |  |
|                          | CV601   | B   | 0.025        | Yes              | 35                          | 1.8V                       | No                         | 625                                  | 200                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 56                       |           |  |  |              |  |
|                          | LA601   | B   | 0.025        | Yes              | 14                          | 775                        | No                         | 120                                  | 225                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 30                       |           |  |  |              |  |
|                          | LA901   | B   | 0.025        | Yes              | 14                          | 775                        | No                         | 225                                  | 300                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 40                       |           |  |  |              |  |
|                          | LA1201  | B   | 0.025        | Yes              | 14                          | 775                        | No                         | 280                                  | 450                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 43                       |           |  |  |              |  |
|                          | MAS200  | B   | 0.025        | Yes              | 35                          | 1.1V                       | No                         | 200                                  | 300                                  | 20-20  | H                         | 1.5                  | 20                       |                                     | 31                       |           |  |  |              |  |
|                          | PFA600  | B   | 0.015        | Yes              | 35                          | 500                        | No                         | 600                                  | 600                                  | 20-20  | H                         | 1.5                  | 20                       |                                     | 55                       |           |  |  |              |  |
|                          | UL601   | B   | 0.025        | Yes              | 14                          | 775                        | No                         | 120                                  | 335                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 33                       |           |  |  |              |  |
|                          | UL901   | B   | 0.025        | Yes              | 14                          | 775                        | No                         | 225                                  | 300                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 40                       |           |  |  |              |  |
|                          | UL1201  | B   | 0.025        | Yes              | 35                          | 775                        | No                         | 280                                  | 450                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 42                       |           |  |  |              |  |
|                          | UL2401  | B   | 0.025        | Yes              | 35                          | 775                        | No                         | 330                                  | 580                                  | 20-20  | AB                        | 1.5                  | 20                       |                                     | 61                       |           |  |  |              |  |
|                          | CROSBY AUDIO WORKS                                  | DMA 50Z   | B            | 0.01             |                             | 500                        | 1.4V                       | No                                   | 100                                  |  | 0-1M                      | AB1                  |                          | 100                                 |                          |           |  |  | 2495.00      | Modification of customer's Spectral Audio DMA-50 or DMA-80. †1000 V/ $\mu$ S. As above.                                |
|                          |   | DMA 50ZM  | B/M          | 0.01             | Yes                         | †                          | 1.4V                       | No                                   | 200                                  |  | 0-1M                      | AB1                  |                          | 10                                  |                          |           |  |  | 2595.00      |  |
|                          | CROWN   | Esoteric Macro Reference PS-200                                 | B            | .0012            | Yes                         | Var.                       |                            | No                                   | 760 Max.                             | 1160 Max.                                      | †                         | AB/B                 |                          | 10                                  |                          |           |  | 57   | 3995.00      | †3 Hz to 35 kHz, non-FTC. Damping, greater than 20,000; S/N, 120 dB. Damping, greater than 400; S/N, 112 dB. As above. |
| PS-400                   |   | B   | 0.001        | Opt.             | 12                          | 1.3V                       | No                         | 95 Max.                              | 135 Max.                             | 1-20   | AB/B                      |                      | 30                       |                                     | 25                       | 995.00    |  |  |              |  |
| Com-Tech 200             |   | B   | 0.05         | Yes              | 17                          | Var.                       | No                         | 105 Max.                             | 125 Max.                             | 20-20  | AB/B                      |                      | 20                       |                                     | 29                       | 825.00    |  |  |              |  |
| Com-Tech 400             |   | B   | 0.05         | Yes              | 17                          | Var.                       | No                         | 195 Max.                             | 225 Max.                             | 20-20  | AB/B                      |                      | 20                       |                                     | 32                       | 1075.00   |  |  |              |  |
| Com-Tech 800             |   | B   | 0.05         | Yes              | 17                          | Var.                       | No                         | 290 Max.                             | 445 Max.                             | 20-20  | AB/B                      |                      | 20                       |                                     | 47                       | 1575.00   |  |  |              |  |
| Com-Tech 1600            |   | B   | 0.05         | Yes              | 17                          | Var.                       | No                         | 525 Max.                             | 810 Max.                             | 20-20  | AB/B                      |                      | 20                       |                                     | 58                       | 2050.00   |  |  |              |  |
| MS7-P                    |   | B/T   | 0.33         | No               | 13                          | 150                        | No                         | 35                                   | 35                                   | 20-20  | AB1                       | 3                    | 475                      |                                     | 40                       | 1100.00   |  |  |              |  |
| M3-M3P                   | B/T/M   | 0.27  | No           | 13               | 150                         | No                         | 60                         | 60                                   | 20-20                                | AB1  | 3                         | 475                  |                          | 30                                  | 1600.00                  |           |  |  |              |  |
| DB SYSTEMS               | DB-6A   | B   | 0.003        | No               | 15                          | 1V                         | No                         | 40                                   | 70                                   | 20-20  | AB                        | 3                    | 48                       |                                     | 18                       | 795.00    | Three-times power-supply capacitance optional. Per pair, \$1550.00.  |  |              |  |
|                          | DB-6A-M   | B/M   | 0.008        | No               | 30                          | 1V                         | No                         | 140                                  | 225                                  | 20-20  | AB                        | 3                    | 48                       |                                     | 18                       | 795.00    |  |  |              |  |
| DENON                    | PMA-915R(RI)  | I   | 0.007        | No               | 150                         | No                         | 80                         | 130                                  | 20-20                                | AB   |                           | 47                   | 94                       | 2.5                                 | Yes                      | 18        | 575.00   | Surround amp with Dolby Pro Logic. †Front, 85 watts x 2; rear, 25 watts x 2; center, 85 watts x 1. |              |  |
|                          | PMA-1315R(RI)                                       | I   | 0.004        | No               | 150                         | No                         | 115                        | 200                                  | 20-20                                | AB   |                           | 47                   | 94                       | 2.5                                 | Yes                      | 24        | 825.00   |  |              |  |
|                          | PMA-S1  | I   | 0.007        | Yes              | 150                         | No                         | 50                         | 100                                  | 20-20                                | AB   | 3                         | 47                   | 91                       | 2.5                                 | No                       | 55        | 4500.00  |  |              |  |
|                          | AVC-2800(RI)  | I   | 0.05         | No               | 150                         | No                         | †                          |                                      | 20-20                                | AB   |                           | 47                   | 76                       | 2.5                                 | No                       | 30        | 1000.00  |  |              |  |

(Continued)



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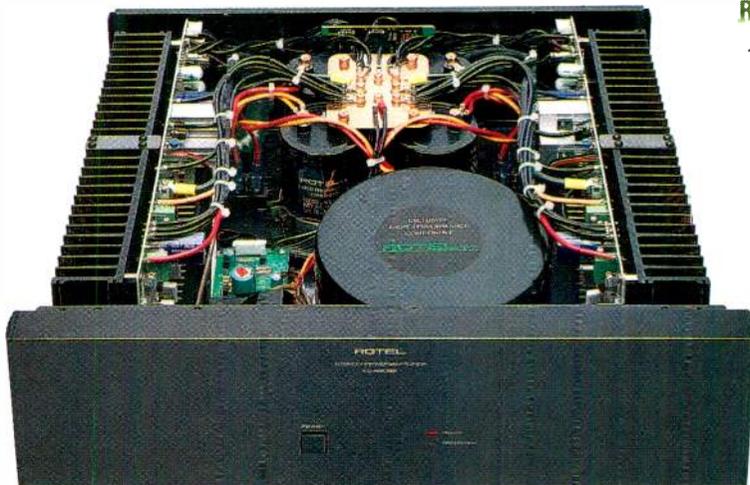
# AMPLIFIERS

| MANUFACTURER                  | Model<br>(RI) = Remote Included<br>(RO) = Remote Optional | Type Integrated = I<br>Tube = T, Hybrid = H, Mono = M | Rated THD, %                     | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | POWER AMP                  |                                      |                                      |                                       |                           |                      | PREAMP                   |                                   |                          | Price, \$       | Notes  |  |                       |
|-------------------------------|---|---|----------------------------------|------------------|-----------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------|----------------------|--------------------------|-----------------------------------|--------------------------|-----------------|--|--|-----------------------|
|                               |   |   |                                  |                  |                       |                            | Does Unit Invert Polarity? | Cont. Avg. Watts/Channel into 8 Ohms | Cont. Avg. Watts/Channel into 4 Ohms | Rated Full-Power Bandwidth, Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, kilohms | MM Phono S/N, dB, *A* mV re: 5 mV | MM Phono Sensitivity, mV |                 |  | Moving Coil Input?   | Weight, Lbs.          |
| DENON<br>(Continued)          | AVC-3030(RI)  | I   | 0.03 (F)<br>0.05 (R)<br>0.03 (C) | No               |                       | 150                        | †                          |                                      | 20-20                                | ††                                    |                           | 47                   | 76                       | 2.5                               | No                       | 1350.00         | Surround amp with Dolby Pro Logic, DSP for surround and ambience modes (see also "Surround Processors"); two remotes. †Front, 110 watts x 2; rear, 35 watts x 2; center, 110 watts x 1. ††Optical Class A. |  |                       |
|                               | POA-S1  | B/M   | 0.05                             | Yes              |                       | 1V                         | No                         | 250                                  | 500                                  | 20-20                                 |                           | 47                   |                          |                                   |                          | 20,000.<br>Each |  |  |                       |
|                               | POA-5000  | B   | 0.02                             | No               |                       |                            | †                          |                                      | 20-20                                | ††                                    |                           | 47                   |                          |                                   |                          | 1500.00         | Three-, four-, five-, or six-channel operation. †Front, 100 watts x 2; rear, 50 watts x 2; center, 50 watts x 2. ††Optical Class A.  |  |                       |
|                               | POA-2800  | B   | 0.01                             | No               |                       |                            |                            | 200                                  | 300                                  | 20-20                                 | †                         | 25                   |                          |                                   |                          | 800.00          | Switching for two pairs of speakers. †Super Optical Class A. Bridgeable.   |  |                       |
| POA-800                       | B   | 0.05  | No                               |                  |                       |                            | 50                         |                                      | 10-50                                |                                       | 25                        |                      |                          |                                   | 350.00                   |                 |  |  |                       |
| DGX AUDIO                     | DDA-1   | I   | 0.025                            | No               |                       | 300                        | No                         | 100                                  | 140                                  | 20-20                                 | AB                        | 2                    | 47                       |                                   | No                       | 29              | 2995.00  | Built-in D/A converter; processing for loudspeaker correction (see also "Signal Processors"); includes two DDL-1 speakers. |                       |
| DPA DIGITAL                   | DPA 200S  | B   | 0.005                            | No               |                       | 250                        | No                         | 55                                   | 90                                   | 10-28                                 | A                         |                      | 22                       |                                   |                          | 12              | 1395.00  |  |                       |
| DUAL                          | CV-5670   | I   | 0.01                             | Yes              |                       |                            |                            | 100                                  | 170                                  | 10-95                                 | A                         |                      | 47                       | 80                                | 2.5                      | Yes             | 30   | 525.00   | Bridges to 200 watts. |
| DUSON                         | A10   | B   |                                  | No               | 25                    | 500                        |                            | 110                                  |                                      |                                       |                           | 2                    |                          |                                   |                          |                 | 3450.00  |  |                       |
|                               | B100  | B   |                                  | No               | 20                    | 500                        |                            | 100                                  |                                      |                                       |                           | 2                    |                          |                                   |                          |                 | 2260.00  |  |                       |
|                               | PA100   | I   |                                  | No               | 10                    | 150                        |                            | 100                                  |                                      |                                       |                           | 2                    |                          |                                   |                          |                 | 2800.00  |  |                       |
|                               | PA75  | I   |                                  | No               | 10                    | 150                        |                            | 75                                   |                                      |                                       |                           | 2                    |                          |                                   | No                       |                 | 2300.00  |  |                       |
|                               | PA50  | I   |                                  | No               | 10                    | 150                        |                            | 50                                   |                                      |                                       |                           | 2                    |                          |                                   | No                       |                 | 1275.00  |  |                       |
| DYNACO                        | ST-160  | B/T   | 0.05                             | No               | 30                    |                            | No                         | 80                                   | 80                                   | 17-75                                 | AB1                       | 1.3                  | 50                       |                                   |                          | 54              | 2199.00  | Buffered power supply and filament regulators.   |                       |
|                               | ST-80   | B/T   | 0.05                             | No               | 30                    |                            | No                         | 40                                   | 40                                   | 17-75                                 | AB1                       | 1.3                  | 50                       |                                   |                          | 45              | 1699.00  | As above; with chrome finish, \$1799.00.   |                       |
|                               | Stereo 80   | B/T   | 0.25                             | No               | 15                    |                            |                            | 40                                   | 40                                   | 5-50                                  | A                         | 1.25                 | 10                       |                                   |                          | 30              | 1699.00  | Selectable triode/pentode operation; adjustable bias   |                       |
|                               | Stereo 400<br>Series II<br>Stereo 200<br>Stereo 100       | B<br>B<br>B   | 0.05<br>0.05<br>0.05             | No<br>No<br>No   |                       |                            |                            | 200<br>100<br>70                     | 300<br>150<br>105                    | 10-100<br>10-100<br>20-20             | AB<br>AB<br>AB            | 1.2<br>1.2<br>1.2    | 50<br>100<br>100         |                                   |                          | 22<br>18<br>18  | 1000.00<br>595.00<br>425.00  | Bridges to 600 watts; operates into 1 ohm.   |                       |
| EAGLE                         | 2c  | B   | .0025                            | No               | 18                    | 1.3V                       | No                         | 110                                  | 195                                  | 0-120                                 | AB                        | 1                    | 100                      |                                   |                          | 30              | 1795.00  | Optional heat-sinks.   |                       |
|                               | 400   | B/M   | .0025                            | No               | 40                    | 1.3V                       | No                         | 350                                  | 540                                  | 0-120                                 | AB                        | 1                    | 100                      |                                   |                          | 30              | 1995.00  | As above.  |                       |
|                               | 400i  | B/M   | .0025                            | No               | 18                    | 1.3V                       | No                         | 120                                  | 210                                  | 0-120                                 | AB                        | 1                    | 100                      |                                   |                          | 30              | 1995.00  | As above; operates into 1 ohm.   |                       |
| EDGE<br>ELECTRONICS           | M-1   | B   | 0.005                            | No               | 150                   | 200                        | No                         | 150                                  | 250                                  | 5-50                                  | AB                        | 1.9                  | 30                       |                                   |                          | 29              | 599.00   |  |                       |
|                               | M-2   | B   | 0.005                            | No               | 150                   | 200                        | No                         | 200                                  | 380                                  | 5-50                                  | AB                        | 1.9                  | 30                       |                                   |                          | 33              | 699.00   |  |                       |
|                               | M-1+  | B   | 0.005                            | No               | 150                   | 200                        | No                         | 250                                  | 450                                  | 5-50                                  | AB                        | 2.3                  | 30                       |                                   |                          | 38              | 799.00   | Separate power supply for each channel.  |                       |
|                               | M-2+  | B   | 0.005                            | No               | 150                   | 200                        | No                         | 300                                  | 500                                  | 5-50                                  | AB                        | 2.3                  | 30                       |                                   |                          | 43              | 899.00   | As above.  |                       |
|                               | M-6   | B   | 0.005                            | No               | 150                   | 200                        | No                         | 500                                  | 900                                  | 5-50                                  | B                         | 2.3                  | 30                       |                                   |                          | 51              | 1499.00  |  |                       |
|                               | M-1A(RI)  | I   | 0.005                            | No               | 150                   | 200                        | No                         | 150                                  | 250                                  | 5-50                                  | AB                        | 1.9                  | 30                       |                                   |                          | 30              | 750.00   |  |                       |
|                               | M-2A(RI)  | I   | 0.005                            | No               | 150                   | 200                        | No                         | 200                                  | 380                                  | 5-50                                  | AB                        | 1.9                  | 30                       |                                   |                          | 34              | 850.00   |  |                       |
|                               | M.5   | B   | 0.005                            | No               | 150                   | 200                        | No                         | 100                                  | 150                                  | 5-50                                  | B                         | 1.5                  | 30                       |                                   |                          | 23              | 499.00   |  |                       |
|                               | MAV   | B/M   | 0.005                            | No               | 150                   | 200                        | No                         | 100                                  | 150                                  | 5-50                                  | B                         | 1.5                  | 30                       |                                   |                          | 20              | 399.00   | Center-channel amp.  |                       |
|                               | M-4.5AV   | B   | 0.005                            | No               | 150                   | 200                        | No                         | †                                    | ††                                   | 5-50                                  | B                         | 1.4                  | 30                       |                                   |                          | 32              | 899.00   | Surround amp. †80 watts x 4. ††130 watts x 4.  |                       |
| ELECTRO-COMPANET              | AW-250  | B   | 0.008                            | Yes              | 100                   | 1V                         | No                         | 250                                  | 380                                  | 20-150                                | A                         | 1.2                  | 220                      |                                   |                          | 65              | 3999.00  |  |                       |
|                               | AW-100  | B   | 0.001                            | Yes              | 100                   | 1V                         | No                         | 100                                  | 180                                  | 20-150                                | A                         | 1.2                  | 220                      |                                   |                          | 35              | 1999.00  |  |                       |
|                               | ECl-1   | I   | 0.003                            | No               | 100                   | 1V                         | No                         | 100                                  | 180                                  | 20-150                                | A                         | 1.2                  | 47                       |                                   |                          | 39              | 2599.00  |  |                       |
| ELECTRO-VOICE                 | 7100  | B   | 0.05                             | Yes              | 19                    |                            | No                         | 100                                  | 140                                  | 20-20                                 | AB                        | 1                    | 15                       |                                   |                          | 18              | 682.00   | Bridgeable; headphone jack.  |                       |
|                               | 7200  | B   | 0.1                              | Yes              | 20                    |                            | No                         | 140                                  | 230                                  | 20-20                                 | AB                        | 1                    | 15                       |                                   |                          | 37              | 742.00   | Bridgeable.  |                       |
|                               | 7300A   | B   | 0.05                             | Yes              | 30                    |                            | No                         | 250                                  | 400                                  | 20-20                                 | AB                        | 1                    | 15                       |                                   |                          | 34              | 990.00   | As above.  |                       |
|                               | 7600  | B   | 0.1                              | Yes              | 30                    |                            | No                         | 450                                  | 730                                  | 20-20                                 | AB                        | 0.25                 | 15                       |                                   |                          | 52              | 1886.00  | As above.  |                       |
|                               | PCA 2250  | B   | 0.03                             | Yes              | 70                    | 510                        | No                         | 180                                  | 300                                  | 20-20                                 | AB                        | 1.47                 | 20                       |                                   |                          | 35              | 1900.00  | Protection circuitry.  |                       |
|                               | PCA 2450  | B   | 0.03                             | Yes              | 100                   | 650                        | No                         | 300                                  | 480                                  | 20-20                                 | AB                        | 1.52                 | 20                       |                                   |                          | 36              | 2200.00  | As above.  |                       |
| ELITE                         | M-91  | B   | 0.003                            | No               |                       |                            | No                         | 200                                  | †                                    | 20-20                                 | AB                        | 1.8                  | 50                       |                                   |                          | 60              | 1400.00  |  |                       |
|                               | M-72  | B   |                                  | No               |                       |                            | No                         | †                                    |                                      | 20-20                                 |                           |                      |                          |                                   |                          | 48              | 1000.00  | †50 watts x 4. Bridges to two channels.  |                       |
| ENSEMBLE                      | Corifeo   | B/H   | 0.3                              | No               |                       | 600                        | No                         | 100                                  | 140                                  | 20-20                                 | AB                        |                      | 22                       |                                   |                          | 29              | 4830.00  | Electronic protection circuits.  |                       |
| ESOTERIC<br>AUDIO<br>RESEARCH | EAR509 MKII   | B/T/M   | 0.25                             | Opt.             | 20                    | 120                        | No                         | 110                                  | 110                                  | 20-40                                 | A                         | 1                    | 28                       |                                   |                          | 40              | 4990.00  |  |                       |
|                               | EAR549  | B/T/M   | 0.25                             | Opt.             | 30                    | 160                        | No                         | 220                                  | 220                                  | 20-40                                 | A                         | 1                    | 20                       |                                   |                          | 75              | 9999.00  |  |                       |
|                               | Yoshino 30B   | B/T/M   | 8                                | No               |                       | 100                        | No                         | 30                                   | 30                                   | 20-20                                 | A                         | 0                    | 20                       |                                   |                          | 70              | 49,000.  | Triode tubes.  |                       |
|                               | Yoshino 30A   | B/M   | 1                                | No               |                       | 100                        | No                         | 30                                   | 30                                   | 20-20                                 | A                         | 0                    | 20                       |                                   |                          | 70              | 42,000.  | Output transformerless.  |                       |
| ESSENCE                       | Standard  | B   | 0.01                             | Opt.             |                       |                            | No                         | 200                                  | 300                                  | 5-100                                 | A/AB                      |                      | 20                       |                                   |                          | 100             | 4850.00  |  |                       |
|                               | Sapphire  | B   | 0.01                             | Opt.             |                       |                            | No                         | 200                                  | 300                                  | 5-100                                 | A/AB                      |                      | 20                       |                                   |                          | 110             | 6650.00  | Mono version, \$8750.00 per pair.  |                       |
|                               | Emerald   | B   | 0.01                             | Opt.             |                       |                            | No                         | 200                                  | 300                                  | 5-100                                 | A/AB                      |                      | 20                       |                                   |                          | 120             | 10,000.  |  |                       |
|                               | Jasper  | B   | 0.005                            | Opt.             |                       |                            | No                         | 200                                  | 300                                  | 5-100                                 | A/AB                      |                      | 20                       |                                   |                          | 140             | 12,500.  | Mono version, \$16,850.00 per pair.  |                       |
| EXPOSURE                      | XX  | I   |                                  |                  |                       | 150                        | No                         | 40                                   |                                      | 20-20                                 |                           |                      |                          |                                   |                          | 20              | 1095.00  | Regulated power supply.  |                       |
|                               | XV  | I   |                                  |                  |                       | 150                        | No                         | 40                                   |                                      | 20-20                                 |                           |                      |                          |                                   |                          | 20              | 1295.00  | As above.  |                       |
|                               | XVIII   | B   |                                  |                  |                       |                            | No                         | 40                                   |                                      | 20-20                                 |                           |                      |                          |                                   |                          | 20              | 1495.00  |  |                       |
|                               | XVIII   | B/M   |                                  |                  |                       |                            | No                         | 50                                   |                                      | 20-20                                 |                           |                      |                          |                                   |                          | 40              | 1995.00  | As above.  |                       |
|                               | Mono Regulated<br>IV<br>Dual Regulated                    | B   |                                  |                  |                       |                            | No                         | 80                                   |                                      | 20-20                                 |                           | 100                  |                          |                                   |                          | Pair<br>42      | 3195.00  | As above.  |                       |
| FENTON AUDIO                  | Stereobate II   | B/M   | 0.022                            | Yes              | 100                   | 500                        | No                         | 300                                  | 600                                  | 20-100                                | A/AB                      |                      | 50                       |                                   |                          | 95              | 2300.00  | Water-cooled; optical isolation.   |                       |



■ Rotel is not a typical audio company. Unlike the corporate giants of the audio industry, Rotel is a family owned business. We don't make video recorders, bread makers, or electric pianos. Instead, we have spent the last thirty years building high fidelity components that meet two rigorous criteria — musical accuracy and honest value. While we benefit from low-cost production in our own Asian facilities, our design work remains in our R&D facilities in Britain, where an audiophile pursuit of perfection is a passion.

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**RB990BX 200 watt/channel amplifier**



**RB980BX 120 watt/channel amplifier**



**RC990BX remote control preamplifier**



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**RB990.** "Peak current output was 211 amps, almost twice the value of any other amplifier in this survey! To use the term coined by Consumer Reports, this is a Best Buy."

The Audio Critic (August 93)

"The 990 is yet another triumph for Rotel, proving once again that the ear is mightier than the slide rule spec in delivering music for the dollar."

IAR Hotline (June 92)

**RB980.** "The inexpensive, frill-free Rotel doesn't fall short of the mark when it

comes to playing music. It lives up to its promise of power, but its capacity for blood and thunder doesn't make it an amp that impresses solely with its might. It's lusty, but also involving and musically revealing."

What Hi-Fi? (September 93)

"...the RB980BX proved to be one of those products reviewers dream of... more than just another modestly priced amplifier, competent but uninspiring. The Rotel... got up on the high-end high-wire without a net — and performed."

Stereophile (Thomas J. Norton, Vol. 15, No. 11)

**RCD965LE.** "Sound quality was superb... Clarity, transient detail, and high-level punch all were exemplary. In short, Rotel's RCD-965LE clearly delivers CD sound that approaches the highest standards of the day, for less — substantially less, in some instances — than many competitive alternatives."

CD Review (January 94)

"...every aspect of the '965 has been optimized with a single goal in mind — sound quality. It is this preoccupation with the finest detail that is reflected in the player's overall performance. Nothing, but nothing, has been left to chance."

What Hi-Fi? (December 91)



**RLC900 power line conditioner**



**RSS900 speaker selector**

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# AMPLIFIERS

| MANUFACTURER                     | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | Type: Integrated = I, Basic = B,<br>Trio = T, Hybrid = H, Mono = M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | POWER AMP                  |                                      |                                      |                                       |                           |                      | PREAMP                   |                                  |                          | Price, \$ | Notes    |  |
|----------------------------------|--|--|--------------|------------------|-----------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------|----------------------|--------------------------|----------------------------------|--------------------------|-----------|----------|--|
|                                  |  |  |              |                  |                       |                            | Does Unit Invert Polarity? | Cont. Avg. Watts/Channel into 8 Ohms | Cont. Avg. Watts/Channel into 4 Ohms | Rated Full-Power Bandwidth, Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, kilohms | MM Phono S/N, db, "A" w/ re-5 mV | MM Phono Sensitivity, mV |           |          | Moving Coil Input?   |
| FM ACOUSTICS                     | Resolution Series 811                                      | B  | 0.008        | Yes              | 50                    | 1.6V                       | No                         | 440                                  | 750                                  | 1-60                                  | A                         |                      | 40                       |                                  |                          | 110       | 40,360.  |  |
|                                  | Resolution Series 611X                                     | B  | 0.008        | Yes              | 50                    | 1.6V                       | No                         | 250                                  | 425                                  | 1-60                                  | A                         |                      | 40                       |                                  |                          | 16        | 26,140.  |  |
|                                  | Resolution Series 611                                      | B  | 0.008        | Yes              | 50                    | 1.6V                       | No                         | 250                                  | 420                                  | 1-60                                  | A                         |                      | 40                       |                                  |                          | 60        | 23,830.  |  |
|                                  | FM 800A  | B  | 0.007        | No               | 25                    | 1.6V                       | No                         | 400                                  | 600                                  | 5-60                                  | A                         |                      | 5                        |                                  |                          | 66        | 12,880.  |  |
|                                  | FM 600A  | B  | 0.008        | No               | 25                    | 1.6V                       | No                         | 250                                  | 350                                  | 5-60                                  | A                         |                      | 5                        |                                  |                          | 44        | 9,620.00 |  |
|                                  | FM 300A  | B  | 0.009        | No               | 30                    | 1.6V                       | No                         | 100                                  | 150                                  | 5-60                                  | A                         |                      | 5                        |                                  |                          | 30        | 7,480.00 |  |
| FORTÉ                            | Four   | B  | 0.1          | Yes              | 150                   |                            | No                         | 50                                   | 100                                  | 0-100                                 | A                         |                      | 47                       |                                  |                          |           | 1,790.00 |  |
|                                  | Fifty-Five   | B  | 0.1          | Yes              | 150                   |                            | No                         | 100                                  | 200                                  | 0-100                                 | A/AB                      |                      | 47                       |                                  |                          |           | 1,390.00 |  |
|                                  | Six  | B  | 0.1          | Yes              | 150                   |                            | No                         | 200                                  | 350                                  | 0-100                                 | A/AB                      |                      | 47                       |                                  |                          |           | 1,790.00 |  |
|                                  | FT1  | B  | 0.1          | No               | 100                   |                            | No                         | †                                    | †                                    | 20-20                                 | AB                        |                      | 47                       |                                  |                          |           | 1,790.00 | †Five-channel operation, 125 watts x 3 and 55 watts x 2.   |
| FOSGATE-AUDIONICS                | 4125   | B  | 0.10         | No               | 20                    | 1V                         | No                         | †                                    | ††                                   | 20-20                                 | AB                        | 1.0                  | 22                       |                                  |                          | 45        | 1,099.00 | †75 watts x 4, ††125 watts x 4. Bridgeable.  |
|                                  | 4200   | B  | 0.03         | No               | 40                    | 1.1V                       | No                         | †                                    | ††                                   | 20-20                                 | AB                        | 1.0                  | 22                       |                                  |                          | 65        | 1,999.00 | †125 watts x 4, ††200 watts x 4. Bridgeable; THX certified.  |
|                                  | 560  | B  | 0.25         | No               | 15                    | 700                        | No                         | 45                                   | 60                                   | 20-20                                 | AB                        | 1.5                  | 22                       |                                  |                          | 22        | 699.00   |  |
| GEMINI SOUND PRODUCTS            | Pvx-85   | B  | 0.1          | No               |                       |                            |                            | 85                                   |                                      | 20-20                                 |                           |                      |                          |                                  |                          | 22        | 425.00   |  |
|                                  | Pvx-125  | B  | 0.1          | No               |                       |                            |                            | 125                                  |                                      | 20-20                                 |                           |                      |                          |                                  |                          | 24        | 530.00   |  |
|                                  | Pvx-160  | B  | 0.1          | No               |                       |                            |                            | 160                                  |                                      | 20-20                                 |                           |                      |                          |                                  |                          | 26        | 695.00   |  |
| GENESIS TECHNOLOGIES             | Stealth B-200 (RI)   | B  | 0.1          | Yes              |                       | 1V                         | No                         | 200                                  | 400                                  | 10-20                                 | Var. A                    |                      | 100                      |                                  |                          | 165       | 7,995.00 | Seven inputs.  |
| GOLDEN TUBE AUDIO                | SE-80  | B/T/M  | 0.01         | No               |                       | 1V                         | No                         | 80                                   | 80                                   | 20-20                                 | A                         |                      | 150                      |                                  |                          | 60        | 4,000.00 | Triode tubes.  |
|                                  | SE-60  | B/T  | 0.01         | No               |                       | 1V                         | No                         | 60                                   | 60                                   | 20-20                                 | A                         |                      | 150                      |                                  |                          | 50        | 1,480.00 | Pair   |
|                                  | SE-40  | B/T  | 0.01         | No               |                       | 1V                         | No                         | 40                                   | 40                                   | 20-20                                 | A                         |                      | 150                      |                                  |                          | 50        | 890.00   | Pentode tubes.   |
|                                  | SE-300B  | B/T/M  | 0.1          | No               |                       | 1V                         | No                         | 10                                   | 10                                   | 20-20                                 | A                         |                      | 150                      |                                  |                          | 50        | 2,400.00 | As above. Cathodeless triode tubes.  |
|                                  | SE-845   | B/T/M  | 0.1          | No               |                       | 1V                         | No                         | 50                                   | 50                                   | 20-20                                 | A/A2                      |                      | 150                      |                                  |                          | 50        | 2,800.00 | Pair   |
|                                  | PP-80  | B/T  | 0.01         | No               |                       | 1V                         | No                         | 80                                   | 80                                   | 20-20                                 | AB                        |                      | 150                      |                                  |                          | 40        | 1,180.00 | Pair   |
|                                  | PP-150   | B/T/M  | 0.01         | No               |                       | 1V                         | No                         | 150                                  | 150                                  | 20-20                                 | AB                        |                      | 150                      |                                  |                          | 40        | 1,800.00 | Pair   |
|                                  | Integrate 80   | I/T  | 0.01         | No               |                       | 150                        | No                         | 80                                   | 80                                   | 20-20                                 | AB                        |                      | 150                      |                                  |                          | 40        | 1,280.00 | Pair   |
| GRYPHON AUDIO DESIGNS            | S100   | B  | 0.05         | Yes              |                       | 100                        | No                         | 100                                  | 200                                  | 2-350                                 | AB                        |                      | 50                       |                                  |                          | 125       | 8,000.00 | 2000 watts, peak, into 1 ohm.  |
|                                  | DM100 Reference One  | B/B/M  | 0.01         | Yes              |                       | 100                        | No                         | 100                                  | 150                                  | 10-350                                | A                         |                      | 50                       |                                  |                          | 165       | 13,900.  | Selectable bias.   |
|                                  |  | B/M  | 0.01         | Yes              |                       | 100                        | No                         | 150                                  | 300                                  | 10-350                                | A                         |                      | 10                       |                                  |                          | 185       | 28,000.  | As above; 5000 watts, peak, into 0.5-ohm load.   |
| HAFLE                            | Trans-nova 9505  | B  | 0.1          | Yes              | 150                   | †                          | No                         | 250                                  | 375                                  | 0.7-300                               | AB                        | 1.5                  | 47                       |                                  |                          | 50        | 2,200.00 | †Balanced, 900 mV; unbalanced, 1.8 V. Bridgeable.  |
|                                  | Trans-nova 9300 THX  | B  | 0.7          | No               | 150                   | 1.4V                       | No                         | 150                                  | 225                                  | 0.7-300                               | AB                        | 1.5                  | 47                       |                                  |                          | 36        | 1,250.00 | THX certified; bridgeable.   |
| HARMAN KARDON                    | AVI 200  | I  | 0.09         | No               | 80                    | 150                        | No                         | 70                                   | 100                                  | 20-20                                 | AB                        |                      | 33                       | 74                               | 2.5                      | 27        | 599.00   | No phono section.  |
|                                  | HK 6350R(RI)   | I  | 0.09         | No               | 140                   | 135                        | No                         | 60                                   | 60                                   | 20-20                                 | AB                        |                      | 22                       | 80                               | 2.2                      | 18        | 549.00   | Optional phono stage, \$50.00.   |
|                                  | HK 1400  | I  | 0.09         | No               | 130                   | 135                        | No                         | 40                                   | 60                                   | 20-20                                 | AB                        |                      | 33                       |                                  |                          | 18        | 499.00   | Bridgeable; auto standby.  |
|                                  | HK 620(RI)   | I  | 0.05         | No               | 70                    | 150                        | No                         | 40                                   | 60                                   | 20-20                                 | AB                        |                      | 22                       |                                  |                          | 15        | 399.00   | As above.  |
|                                  | PA 2100  | B  | 0.09         | No               | 120                   | 800                        | No                         | 65                                   | 65                                   | 20-20                                 | AB                        |                      | 22                       |                                  |                          | 18        | 479.00   | As above; line outputs.  |
|                                  | PA 2200  | B  | 0.08         | No               | 140                   | 800                        | No                         | 100                                  | 100                                  | 20-20                                 | AB                        |                      | 22                       |                                  |                          | 24        | 629.00   | As above.  |
|                                  | PA 2400  | B  | 0.08         | No               | 280                   | 800                        | No                         | 170                                  | 170                                  | 20-20                                 | AB                        |                      | 33                       |                                  |                          | 35        | 1,199.00 | As above.  |
| HARRISON LABORATORIES            | AMOD   | B/M  |              | No               |                       | 100                        | Var.                       |                                      | 25                                   | 20-20                                 | AB                        | 0                    | 10                       |                                  |                          | 2         | 79.95    | Requires 12-V power supply.  |
|                                  | BMOD   | B/M  |              | †                |                       | 3V                         | Var.                       |                                      | 25                                   | 20-20                                 | AB                        | 0                    | 10                       |                                  |                          | 3         | 99.95    | †Balanced speaker-level input.   |
|                                  | PMOWSE 5W  | B  |              | No               |                       | 100                        | Var.                       |                                      | 125                                  | 20-20                                 | AB                        | 0                    | 10                       |                                  |                          | 1         | 99.95    | As above; operates into 1 ohm. Without case.   |
| HEADROOM                         | Little   | B  |              | No               |                       |                            | No                         | 0.3                                  |                                      | 20-20                                 | AB                        |                      | 47                       |                                  |                          | 1         | 199.00   | Headphone amp with defeatable image correction; a.c. power only.   |
|                                  | Premium  | B  |              | No               |                       |                            | No                         | 0.3                                  |                                      | 20-20                                 | AB                        |                      | 47                       |                                  |                          | 1         | 299.00   | As above but portable, requiring four AA batteries.  |
|                                  | Supreme Home   | B  |              | No               |                       |                            | No                         | 0.3                                  | 0.3                                  | 20-20                                 | AB                        |                      | 47                       |                                  |                          | 1         | 399.00   | As above; filter switch.   |
|                                  |  | B  |              | No               |                       |                            | No                         | 0.3                                  | 0.3                                  | 20-20                                 | AB                        |                      | 47                       |                                  |                          | 5         | 599.00   | As above; line outputs.  |
| HOVLAND                          | Aurora   | B/T  | 1.5          | No               |                       | 1V                         | No                         | 100                                  | 100                                  | 20-20                                 | AB1                       |                      | 1M                       |                                  |                          | 110       | 6,995.00 | Bridges to 200 watts; operates into 1 ohm stereo, 0.5 ohm mono.  |
| JBL                              | Power 50   | I  | 0.1          |                  | 10                    |                            |                            | 50†                                  |                                      | 20-20                                 |                           |                      | 48                       |                                  |                          |           | 175.00   | †Into 6 ohms.  |
|                                  | Power 20   | I  | 0.75         |                  | 5                     |                            |                            | 20†                                  |                                      | 20-20                                 |                           |                      | 48                       |                                  | No                       | No        | 139.00   |  |
| JOULE ELECTRA                    | VZN-100  | B/T/M  | 0.9          | Yes              | 20                    | 1V                         | No                         | 100                                  | 100                                  | 20-20                                 | A                         | 0                    | 500                      |                                  |                          | 55        | 5,500.00 | Bridgeable; no feedback; output transformerless; asymmetric output stage.  |
| JRM                              | Power Tower  | B/M  | 0.02         |                  | 100                   | †                          | Yes                        | ††                                   | †††                                  | 0.6-75                                | AB                        | 3                    | 10                       |                                  |                          | 65        | 4,140.00 | †(2)2.0 and (2)1.1 V. ††(2)180 and (2)70 watts. †††(2)500 and (2)250 watts into 2 ohms. All-cascade design.                  |
| JVC                              | AXZ911BK(RI)   | I  | 0.003        | Yes              |                       |                            | No                         | 100                                  |                                      | 20-20                                 | Dyn. Sup. A               |                      | 90                       | 2.5                              | Yes                      | 44        | 1,100.00 |  |
|                                  | AXV1050TN(RI)  | I  | 0.009        | Yes              |                       |                            | No                         | 100                                  |                                      | 20-20                                 | Dyn. Sup. A               |                      | 73                       | 2.3                              | No                       | 35        | 1,500.00 |  |
| GEORGE KAYE AUDIO LABS           | Nepenthe 24  | B/T/M  | 0.3          | Opt.             |                       | Var.                       | No                         | 700                                  | 500                                  | 20-20                                 | A/AB                      |                      | 100                      |                                  |                          | 140       | 45,000.  | Four chassis; regulated power supplies; output transformerless and capacitorless; operates into 2 ohms; servo and auto bias. |
| KENWOOD                          | KM-X1(RI)  | B  | 0.03         | No               |                       | 1V                         | No                         | 100                                  |                                      | 20-20                                 | AB                        |                      | 33                       |                                  |                          | 44        | 899.00   | Six-channel operation; THX certified   |
| KINERGETICS RESEARCH (Continued) | KBA-280  | B  | 0.01         | Yes              | 70                    | 100                        | No                         | 140                                  | 280                                  | 20-20                                 | A                         | 1.5                  | †                        |                                  |                          | 68        | 2,795.00 | †Unbalanced, 100 kilohms; balanced, 600 ohms. THX certified; external trigger.   |

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# AMPLIFIERS

| MANUFACTURER                     | Model<br>(R1)=Remote Included,<br>(RO)=Remote Optional | Type: Integrated-I, Basic-B,<br>Tube=T, Hybrid=H, Mono=M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | Does Unit Invert Polarity? | POWER AMP                               |   | FREAMP                                   |                           | Price, \$ | Notes |                      |                          |                                  |                          |                    |              |   |           |   |  |
|----------------------------------|--|--|--------------|------------------|-----------------------|----------------------------|----------------------------|---|---|--|---------------------------|-----------|-------|----------------------|--------------------------|----------------------------------|--------------------------|--------------------|--------------|---|-----------|---|--|
|                                  |  |  |              |                  |                       |                            |                            | Cont. Avg. Watts/Channel<br>Into 8 Ohms | Cont. Avg. Watts/Channel<br>Into 4 Ohms | Rated Full-Power Bandwidth,<br>Hz to kHz | Class of Output Operation |           |       | Dynamic Headroom, dB | Input Impedance, Kilohms | MM Phono S/N, dB-x-Wtd. re: 5 mV | MM Phono Sensitivity, mV | Moving Coil Input? | Weight, Lbs. |   |           |   |  |
| KINERGETICS RESEARCH (Continued) | KBA-380  | B  | 0.01         | No               | 70                    | 100                        | No                         | 140                                     | 280                                     | 20-20                                    | AB                        | 1.2       | 100   |                      |                          |                                  |                          | 64                 | 1995.00      | THX certified; three-channel operation.   |           |   |  |
| KINTEK                           | Digimate D610  | B  | 0.08         | Yes              | 15                    | Adj.                       | No                         | †                                       | ††                                      | 20-20                                    | A                         | 3         | †††   |                      |                          |                                  |                          |                    | 2250.00      | †125 watts x 6. ††200 watts x 6. †††Balanced, 200 kilohms. Bridgeable; six plug-in modules. |           |   |  |
| KLIMO                            | Kent   | B/T/M  | 0.3          | No               |                       |                            | No                         | 35                                      | 35                                      |  | AB                        |           |       |                      |                          |                                  |                          |                    | 3300.00      |   |           |   |  |
|                                  | Beltaine   | B/T/M  |              | No               |                       |                            |                            | 5                                       | 5                                       | 15-25                                    | A                         |           |       |                      |                          |                                  |                          |                    | 5900.00      | Triode tubes; separate power supplies; defeatable feedback. Operates into 1 ohm.            |           |   |  |
|                                  | Linnet   | B/T/M  | 0.3          | No               |                       |                            |                            | 100                                     | 100                                     |  | A                         |           |       |                      |                          |                                  |                          |                    | 8400.00      |   |           |   |  |
| KRELL                            | Audio Standard(R1)                                     | B/M  | 0.01         | Yes              |                       |                            |                            | 400                                     | 800                                     |  | A                         |           |       |                      |                          |                                  |                          |                    | 32,500.00    | Sustained Plateau bias; external power supplies.  |           |   |  |
|                                  | Audio Standard 2(R1)                                   | B/M  |              | Yes              |                       |                            |                            | 200                                     | 400                                     |  | A                         |           |       |                      |                          |                                  |                          |                    | 18,500.00    | Sustained Plateau bias.   |           |   |  |
|                                  | KSA-300S(RO)   | B  |              | Yes              |                       |                            |                            | 300                                     | 600                                     | 4-20                                     | A                         |           |       |                      |                          |                                  |                          |                    | 9500.00      | As above.   |           |   |  |
|                                  | KSA-200S(RO)   | B  |              | Yes              |                       |                            |                            | 200                                     | 400                                     | 4-20                                     | A                         |           |       |                      |                          |                                  |                          |                    | 7500.00      | As above.   |           |   |  |
|                                  | KSA-100S(RO)   | B  |              | Yes              |                       |                            |                            | 100                                     | 200                                     | 4-20                                     | A                         |           |       |                      |                          |                                  |                          |                    | 5500.00      | As above.   |           |   |  |
| KSA-50S(RO)                      | B  |  | Yes          |                  |                       |                            | 50                         | 100                                     | 4-20                                    | A  |                           |           |       |                      |                          |                                  |                          |                    | 3300.00      | As above.   |           |   |  |
| KSS AUDIO ENGINEERING            | KSS 100/100  | B/T  | 0.05         | Opt.             | 500                   | 1.7V                       | No                         | 105                                     | 95                                      | 0-160                                    | AB                        | 0         | 100   |                      |                          |                                  |                          |                    | 2995.00      | Triode tubes; direct coupled; output transformerless and capacitorless. As above.           |           |   |  |
|                                  | KSS 230  | B/T/M  | 0.08         | Opt.             | 320                   | 1.9V                       | No                         | 230                                     | 170                                     | 0-140                                    | AB                        | 0         | 100   |                      |                          |                                  |                          |                    | 5995.00      |   |           |   |  |
| LAMM AUDIO LABORATORY            | M1.1(RO)   | B/H/M  | 0.3          | Yes              | 32                    | 725                        | Var.                       | 100                                     | 100                                     | 4-150                                    | A                         |           |       |                      |                          |                                  |                          |                    | 65           | Operates into 1 ohm; no overall feedback. As above.   |           |   |  |
|                                  | M2.1(RO)   | B/H/M  | 0.3          | Yes              | 40                    | 1V                         | Var.                       | 200                                     | 200                                     | 4-150                                    | A/AB                      |           |       |                      |                          |                                  |                          |                    | 65           | Operates into 2 ohms; no overall feedback.  |           |   |  |
|                                  | DM1(RO)  | B  | 0.3          | Yes              | 34                    | 800                        | Var.                       | 125                                     | 250                                     | 4-150                                    | A/AB                      |           |       |                      |                          |                                  |                          |                    | 75           |   |           |   |  |
| LANGEVIN                         | 150  | B/M  | 1.0          | No               | 50                    | 1V                         | No                         | 100                                     | 256                                     | 10-50 ±0.2                               | AB1                       | 1.5       | 100   |                      |                          |                                  |                          |                    | 20           | 1500.00   |           |   |  |
| LEGACY                           | High Current Amplifier                                 | B  | 0.03         | Yes              | 65                    | 1.6V                       | No                         | 220                                     | 400                                     | 0-100                                    | A/AB                      | 1.2       | 50    |                      |                          |                                  |                          |                    | 50           | 1995.00   |           |   |  |
| MARK LEVINSON                    | No. 20.6   | B/M  | 0.3          | Yes              |                       | 141                        | Sel.                       | 100                                     | 200                                     | 20-20                                    | A                         |           |       |                      |                          |                                  |                          |                    |              | 90  | 7975.00   |   |  |
|                                  | No. 23.5   | B  | 0.3          | Yes              |                       | 141                        | Sel.                       | 200                                     | 400                                     | 20-20                                    | AB                        |           |       |                      |                          |                                  |                          |                    |              | 105   | 7495.00   |   |  |
|                                  | No. 27.5   | B  | 0.3          | Yes              |                       | 141                        | Sel.                       | 100                                     | 200                                     | 20-20                                    | AB                        |           |       |                      |                          |                                  |                          |                    |              | 85  | 5495.00   |   |  |
|                                  | No. 29   | B  | 0.3          | Yes              |                       | 141                        | Sel.                       | 50                                      | 100                                     | 20-20                                    | AB                        |           |       |                      |                          |                                  |                          |                    |              | 60  | 3495.00   |   |  |
|                                  | No. 33   | B/M  | 0.2          | Yes              |                       |                            | Sel.                       | 300                                     | 600                                     | 20-20                                    |                           |           |       |                      |                          |                                  |                          |                    |              | 250   | 30,000.00 | 2400 watts into 1 ohm.  |  |
| LINEAR ACOUSTIC                  | LA 60  | B/M  | 0.02         | No               |                       |                            |                            | 60                                      | 100                                     |  | AB                        |           |       |                      |                          |                                  |                          |                    |              | 17  | 2676.00   |   |  |
|                                  | LA 100   | B  | 0.009        | No               |                       |                            |                            | 100                                     | 180                                     |  | AB                        |           |       |                      |                          |                                  |                          |                    |              | 33  | 2566.00   |   |  |
|                                  | LA 120   | B  | 0.03         | No               |                       |                            |                            | 120                                     | 130                                     |  | AB                        |           |       |                      |                          |                                  |                          |                    |              | 39  | 4033.00   |   |  |
|                                  | LAV 100  | I  | 0.009        | No               |                       |                            |                            | 100                                     | 180                                     |  | AB                        |           |       |                      | 85                       | Yes                              |                          |                    |              | 37  | 4106.00   |   |  |
| LINN                             | Klout  | B  |              | No               |                       |                            | No                         | 80                                      | 160                                     | 20-20                                    | AB                        |           |       |                      |                          |                                  |                          |                    |              | 28  | 3695.00   |   |  |
|                                  | LK100  | B  |              | No               |                       |                            | No                         | 50                                      | 90                                      | 20-20                                    | AB                        |           |       |                      |                          |                                  |                          |                    |              | 11  | 1095.00   |   |  |
|                                  | Majik-I(R1)  | I  |              | No               |                       |                            | No                         | 33                                      | 66                                      |  | AB                        |           |       |                      | 2                        | Yes                              |                          |                    |              | 11  | 1095.00   | Without phono, \$995.00.  |  |
| LUXMAN                           | MA-88  | B/T/M  | 0.1          | No               |                       | 800                        | No                         | 30                                      | 30                                      | 5-30                                     | AB                        |           |       |                      |                          |                                  |                          |                    |              | 47  | 6000.00   |   |  |
|                                  | M-06   | B  | 0.008        | Yes              |                       | 1V                         | No                         | 55                                      |   | 5-300                                    | A                         |           |       |                      |                          |                                  |                          |                    |              | 53  | 7000.00   | Bridgeable.   |  |
|                                  | M-383  | B  | 0.04         | No               |                       | 1V                         | No                         | 200                                     | 500                                     | 10-100                                   | AB                        | 1.8       |       |                      |                          |                                  |                          |                    |              | 43  | 2000.00   | As above.   |  |
|                                  | M-363  | B  | 0.04         | No               |                       | 1V                         | No                         | 110                                     | 240                                     | 10-100                                   | AB                        | 1.4       |       |                      |                          |                                  |                          |                    |              | 32  | 1200.00   | As above.   |  |
|                                  | L-570  | I  | 0.01         | Yes              |                       | 150                        | No                         | 50                                      |   | 10-100                                   | A                         |           |       |                      | 86                       | 2                                | Yes                      |                    |              | 73  | 7000.00   |   |  |
|                                  | L-500  | I  | 0.01         | No               |                       | 150                        | No                         | 50                                      |   | 10-100                                   | AB                        |           |       |                      |                          |                                  |                          |                    |              | 50  | 5000.00   |   |  |
|                                  | A-383(R1)  | I  | 0.04         | No               |                       | 150                        | No                         | 100                                     | 240                                     | 10-70                                    | AB                        | 1.8       |       |                      | 77                       | 2.5                              | Yes                      |                    |              | 36  | 1500.00   | Multi-room; video switching.  |  |
|                                  | A-373(R1)  | I  | 0.05         | No               |                       | 150                        | No                         | 80                                      | 230                                     | 10-70                                    | AB                        | 1.4       |       |                      | 82                       | 2.5                              | Yes                      |                    |              | 25  | 1000.00   | Video switching.  |  |
| A-353(R1)                        | I  | 0.05   | No           |                  | 150                   | No                         | 60                         | 125                                     | 10-70                                   | AB                                       | 1.8                       |           |       | 82                   | 2.5                      | Yes                              |                          |                    | 23           | 750.00  |           |   |  |
| MADISON FIELDING                 | DSA 445(RO)  | I  | 0.08         | No               | 30                    | 100                        | No                         | †                                       | †                                       | 20-20                                    | AB                        | 1.2       | 20    |                      |                          |                                  |                          |                    |              | 20  | 995.00    | †45 watts x 4. Two motorized volume controls.                                       |  |
|                                  | DSA 630(RO)  | I  | 0.08         | No               | 30                    | 100                        | No                         | †                                       | †                                       | 20-20                                    | AB                        | 1.2       | 20    |                      |                          |                                  |                          |                    |              | 25  | 1195.00   | †30 watts x 6. Three motorized volume controls.                                     |  |
| MANLEY LABS                      | Reference 240/100                                      | B/T/M  | 1.0          | Yes              | 35                    | 750                        | No                         | †                                       | †                                       | 10-100                                   | AB1                       | 1.5       | 130   |                      |                          |                                  |                          |                    |              | 60  | 6000.00   | †Tetrode mode, 240 watts into 8 or 4 ohms; triode mode, 100 watts into 8 or 4 ohms. |  |
|                                  | Reference 440/200                                      | B/T/M  | 1.0          | Yes              | 35, Var.              | 750                        | No                         | †                                       | †                                       | 10-50                                    | AB1                       | 1.5       | 130   |                      |                          |                                  |                          |                    |              | 75  | 9000.00   | †As above but tetrode, 500 watts; triode, 275 watts. Variable feedback and slope.   |  |
|                                  | Reference 880/400                                      | B/T/M  | 1.0          | Yes              | 35, Var.              | 750                        | No                         | †                                       | †                                       | 10-50                                    | AB1                       | 1.5       | 130   |                      |                          |                                  |                          |                    |              | 100   | 13,000.00 | †As above but tetrode, 850 watts; triode, 425 watts. Variable feedback and slope.   |  |
|                                  | 35 Watt  | B/T/M  | 1.0          | No               | 25                    | 750                        | No                         | 40                                      | 40                                      | 20-30                                    | AB1                       | 1.5       | 100   |                      |                          |                                  |                          |                    |              | 13  | 1750.00   |   |  |
|                                  | 100 Stereo   | B/T  | 1.0          | No               | 30                    | 750                        | No                         | 80                                      | 80                                      | 20-50                                    | AB1                       | 1.5       | 100   |                      |                          |                                  |                          |                    |              |   | 50        | 3300.00   |  |
|                                  | 175 Mono   | B/T/M  | 1.0          | Opt.             | 30                    | 750                        | No                         | 170                                     | 170                                     | 20-50                                    | AB1                       | 1.5       | 130   |                      |                          |                                  |                          |                    |              |   | 50        | 4800.00   |  |
|                                  | Direct Input 50/50                                     | I/T  | 1.0          | No               | 30                    | 500                        | No                         | 50                                      | 56                                      | 10-50 ±0.5                               | AB1                       | 1.5       | 100   |                      |                          |                                  |                          |                    |              |   | 50        | 2950.00   | Four line inputs; record out; stepped volume control.  |
|                                  | Lab Series Monoblock 100                               | B/T/M  | 1.0          | No               | 20                    | 775                        | No                         | †                                       | †                                       | 20-50 ±0.2                               | AB1                       | 1.5       | 130   |                      |                          |                                  |                          |                    |              |   | 34        | 2750.00   | †Tetrode mode, 72 watts into 8 ohms or 81 watts into 4 ohms; triode mode, 56 watts into 8 or 4 ohms. |
| Lab Series 75+75                 | B/T  | 1.0  | No           | 25               | 775                   | No                         | 80                         | 80                                      | 20-50 ±0.2                              | AB1                                      | 1.5                       | 130       |       |                      |                          |                                  |                          |                    |              | 30  | 1850.00   |   |  |
| MARANTZ                          | SM-80  | B  | 0.02         | No               | 150                   |                            | No                         | 120                                     | 175                                     | 20-20                                    | AB                        |           |       |                      |                          |                                  |                          |                    |              | 37  | 699.00    | THX certified; bridges to 350 watts.  |  |
|                                  | SM-500   | B  | 0.09         | No               | 20                    |                            | No                         | 85                                      | 105                                     | 20-20                                    | AB                        |           |       |                      |                          |                                  |                          |                    |              |   | 499.00    |   |  |

2

# AMPLIFIERS

| MANUFACTURER                       | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | Type Integrated-1, Basic-B;<br>Tubes: I, Hybrid-H, Mono-M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | Does Unit Invert Polarity? | POWER AMP                            |                                      |                                       |                           |                      |                          | PREAMP                            |                          |                    | Price, \$ | Notes   |   |  |
|------------------------------------|--|---|--------------|------------------|-----------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------|----------------------|--------------------------|-----------------------------------|--------------------------|--------------------|-----------|---------|---|--|
|                                    |  |   |              |                  |                       |                            |                            | Cont. Avg. Watts/Channel into 8 Ohms | Cont. Avg. Watts/Channel into 4 Ohms | Rated Full-Power Bandwidth, Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, kilohms | MM Phono S/N, dB-A, Wtd. eq. 0 mV | MM Phono Sensitivity, mV | Moving Coil Input? |           |         | Weight, Lbs.  |  |
| MARANTZ<br>(Continued)             | MM-500   | B   | 0.09         | No               | 20                    |                            | No                         | 75                                   | 90                                   | 20-20                                 | AB                        | 1.2                  | 25                       |                                   |                          |                    |           | 599.00  | Five-channel operation, 75 watts x 3 and 35 watts x 2. THX certified, pair bridges to 450 watts. Dolby Pro Logic; five-channel operation, 50 watts x 3 and 25 watts x 2.  |  |
|                                    | MA-500   | B/M   | 0.05         | No               | 80                    |                            | No                         | 125                                  | 180                                  | 20-20                                 | AB                        |                      | 30                       |                                   |                          |                    |           | 299.00  |   |  |
|                                    | PM-700(RI)   | I   | 0.09         | No               |                       |                            | No                         | 50                                   | 60                                   | 20-20                                 | AB                        | 1.2                  |                          |                                   | 76                       | 2                  | No        | 14      |   | 699.00   |
| MARCHAND                           | PM 2A  | B/M   | 0.01         | No               | 10                    | 5V                         | No                         | 50                                   | 75                                   | 2-20                                  | A/AB                      | 1                    | 100                      |                                   |                          |                    |           | 80.00   | Kit version available. As above.  |  |
|                                    | PM 22A   | B/M   | 0.01         | Yes              | 10                    | 5V                         | No                         | 75                                   | 100                                  | 0-20                                  | A/AB                      | 1                    | 100                      |                                   |                          |                    |           | 80.00   |   |  |
|                                    | PM 22-APS  | B/M   | 0.01         | Yes              | 10                    | 5V                         | No                         | 75                                   | 100                                  | 0-20                                  | A/AB                      | 1                    | 100                      |                                   |                          |                    |           | 195.00  |   |  |
| MBL                                | 9010   | B/M   | 0.001        | Yes              | 45                    | 1.5V                       | No                         | 470                                  | 800                                  | 0-200                                 | AB                        | 1.4                  | 5                        |                                   |                          |                    |           | 19.500  | As above.   |  |
|                                    | 8010C  | B   | 0.002        | Yes              | 22                    | 1.2V                       | No                         | 160                                  | 250                                  | 0-110                                 | AB                        | 1.4                  | 5                        |                                   |                          |                    |           | 5095.00 |   |  |
|                                    | 8004   | B/M   | 0.003        | Yes              | 11                    | 1.2V                       | No                         | 70                                   | 100                                  | 0-100                                 | AB                        | 1.4                  | 10                       |                                   |                          |                    |           | 2912.00 |   |  |
| McCORMACK<br>AUDIO                 | 7005(RI)   | I   | 0.0035       | No               | 10                    | 250                        | No                         | 65                                   | 95                                   | 0-90                                  | AB                        | 1.4                  | 47                       | 80                                | 2.0                      | Yes                | 40        | 4287.00 | Bridgeable; dual terminals; low-feedback design. Mechanical ground; low-feedback design.  |  |
|                                    | Power Drive DNA-1  | B   | 0.01         | Yes              | 50                    | 1V                         | No                         | 185                                  | 370                                  | 0.5-200                               | A/AB                      | 0.95                 | 110                      |                                   |                          |                    |           | 1995.00 |   |  |
|                                    | Power Drive DNA-0.5  | B   | 0.015        | No               | 45                    | 1V                         | No                         | 100                                  | 200                                  | 0.5-200                               | A/AB                      | 1                    | 100                      |                                   |                          |                    |           | 1295.00 |   |  |
| McINTOSH                           | MC1000   | B/M   | 0.005        | Yes              |                       | 2.5V                       | No                         | 1000                                 | 1000                                 | 20-20                                 | AB                        | 1.5                  | 10                       |                                   |                          |                    |           | 5500.00 | Operates into 2 ohms. As above.   |  |
|                                    | MC500  | B   | 0.005        | Yes              |                       | 2.2V                       | No                         | 500                                  | 500                                  | 20-20                                 | AB                        | 2.1                  | 10                       |                                   |                          |                    |           | 6000.00 |   |  |
|                                    | MC7106   | B   | 0.005        | No               |                       | 1V                         | No                         | †                                    | †                                    | 20-20                                 | AB                        | 1.8                  | 20                       |                                   |                          |                    |           | 3000.00 |   |  |
| MELOS AUDIO                        | MC7108   | B   | 0.005        | No               |                       | 1V                         | No                         | 100                                  | †                                    | 20-20                                 | AB                        | 1.8                  | 20                       |                                   |                          |                    |           | 2000.00 | As above. †100 watts x 6. ††160 watts x 6. THX certified. †40 watts x 8. Bridgeable.  |  |
|                                    | MC7100   | B   | 0.005        | No               |                       | 1.4V                       | No                         | 150                                  | 150                                  | 20-20                                 | AB                        | 1.7                  | 20                       |                                   |                          |                    |           | 1100.00 |   |  |
|                                    | MC7150   | B   | 0.005        | No               |                       | 1.4V                       | No                         | 150                                  | 150                                  | 20-20                                 | AB                        | 1.8                  | 20                       |                                   |                          |                    |           | 24.00   |   |  |
|                                    | MC7300   | B   | 0.005        | Yes              |                       | 1.4V                       | No                         | 300                                  | 300                                  | 20-20                                 | AB                        | 1.9                  | 20                       |                                   |                          |                    |           | 3400.00 |   |  |
|                                    | MC2600   | B   | 0.005        | Yes              |                       | 1.4V                       | No                         | 600                                  | 600                                  | 20-20                                 | AB                        | 1.7                  | 20                       |                                   |                          |                    |           | 58      |   |  |
|                                    |  |   |              |                  |                       |                            |                            |                                      |                                      |                                       |                           |                      |                          |                                   |                          |                    |           | 79      |   |  |
| MERIDIAN                           | Triode 202ST   | B/T   | 0.2          | No               |                       | 1.5V                       | No                         | 200                                  | 200                                  | 20-30                                 | AB                        | 3                    | 100                      |                                   |                          |                    |           | 2995.00 | Triode operation. As above.   |  |
|                                    | Triode 202ST Gold  | B/T   | 0.2          | Yes              |                       | 1.5V                       | No                         | 200                                  | 200                                  | 20-30                                 | AB                        | 3                    | 100                      |                                   |                          |                    |           | 82      |   |  |
|                                    | Triode 402 Gold  | B/T/M   | 0.2          | Yes              |                       | 1V                         | No                         | 400                                  | 400                                  | 20-30                                 | AB                        | 3                    | 100                      |                                   |                          |                    |           | 83      |   |  |
| METAXAS<br>AUDIO SYSTEMS           | Sha-1  | I/H   | 0.2          | No               |                       | 100                        | No                         | 3                                    |                                      |                                       | A                         |                      | 100                      |                                   |                          |                    |           | 20      | Headphone amp. D.C. servo, protection circuitry.  |  |
|                                    | 205  | B/M   | 0.1          | No               |                       | 775                        | Yes                        | 100                                  | 160                                  | 20-20                                 | A/AB                      |                      | 11                       |                                   |                          |                    |           | 38      |   |  |
|                                    | 605  | B/M   | 0.1          | Yes              |                       | 550                        | No                         | 150                                  | 200                                  | 20-20                                 | AB                        |                      | 11                       |                                   |                          |                    |           | 74      |   |  |
| MICHAEL GREEN<br>DESIGNS           | 555  | B   | 0.1          | No               |                       | 775                        | Yes                        | 60                                   | 100                                  | 20-20                                 | A/AB                      |                      | 11                       |                                   |                          |                    |           | 30      | As above.   |  |
|                                    | Soliloquy  | B/M   | 0.05         | Yes              | 1 kV                  | 500                        | No                         | 100                                  | 200                                  | 20-200                                | AB                        | 0                    | 130                      |                                   |                          |                    |           | 70      |   |  |
|                                    | Solitaire  | B   | 0.05         | Yes              | 1 kV                  | 500                        | No                         | 130                                  | 260                                  | 20-200                                | AB                        | 1.5                  | 130                      |                                   |                          |                    |           | 70      |   |  |
| MICROMEGA                          | Iraklis  | B   | 0.05         | Yes              | 1 kV                  | 500                        | No                         | 50                                   | 100                                  | 20-200                                | AB                        | 1.5                  | 100                      |                                   |                          |                    |           | 60      | As above.   |  |
|                                    | Ikarus   | I   | 0.05         | No               | 1 kV                  | 150                        | No                         | 40                                   | 60                                   | 20-200                                | AB                        | 1.0                  | 50                       | 75                                | 2                        | Yes                | 15        | 1600.00 |   |  |
|                                    | MGD-A150S  | B   | 0.1          | No               | 12                    | 1.5V                       | No                         | 150                                  | 180                                  | 8-70                                  | AB                        | 4.0                  | 20                       |                                   |                          |                    |           | 40      |   |  |
| MILBERT<br>AMPLIFIERS              | Microamp   | B   | 0.05         | No               | 300                   |                            |                            | 25                                   | 40                                   | 20-20                                 | AB                        |                      | 20                       |                                   |                          |                    |           | 8       | 995.00  |  |
| BaM-235                            | B/T  | 2   | No           |                  | 300                   | No                         | 30                         | 30                                   | 20-60                                | AB                                    | 0                         | 100                  |                          |                                   |                          |                    |           | 15      | 1995.00   |  |
| MONRIO                             | Cento  | B   | 0.08         | No               |                       |                            |                            | 135                                  | 270                                  | 5-60 +0, -1                           |                           |                      | 49                       |                                   |                          |                    |           |         | 2495.00   |  |
| BRUCE MOORE<br>AUDIO DESIGN        | Dual Sixty   | B/T   | 0.2          | No               | 40                    | 900                        |                            | 60                                   | 60                                   | 10-100                                | A/AB                      | 1.2                  | 420                      |                                   |                          |                    |           | 58      | Switchable to 50-watt, Class-A triode operation. As above but 65 watts.   |  |
|                                    | Dual 100   | B/T   | 0.2          | No               | 40                    | 900                        |                            | 100                                  | 100                                  | 10-100                                | A/AB                      | 1.2                  | 420                      |                                   |                          |                    |           | 68      |   |  |
|                                    | M125   | B/T/M   | 0.2          | No               | 40                    | 900                        |                            | 125                                  | 125                                  | 10-100                                | A/AB                      | 1.2                  | 420                      |                                   |                          |                    |           | 50      |   |  |
|                                    | M225   | B/T/M   | 0.3          | No               | 40                    | 900                        |                            | 225                                  | 225                                  | 10-100                                | A/AB                      | 1.2                  | 420                      |                                   |                          |                    |           | 65      |   |  |
| MORRISON<br>AUDIO                  | Amp 2  | B/M   | 0.03         | No               | 55                    | 1V                         | No                         | 60                                   | 120                                  | 0.25-280                              | A                         |                      | 50                       |                                   |                          |                    |           | 48      | 2200.00   | Separate power supplies for gain and output stage. |
| MTX SOUND-<br>CRAFTSMEN            | S800   | B   | 0.05         | No               | 40                    | 125                        | No                         | 205                                  | 300                                  | 20-20                                 | AB                        | 1.7                  | 32                       |                                   |                          |                    |           | 18      | Bridges to 600 watts into 8 ohms. As above; bridges to 900 watts into 4 ohms; operates into 2 ohms. ACA and ¼-inch inputs. Operates into 2 ohms. Bridges to 380 watts into 8 ohms; clipping indicators. Bridges to 600 watts into 8 ohms; operates into 2 ohms; clipping indicators. THX certified; bridges to 1200 watts into 8 ohms; operates into 2 ohms. Noncurrent limiting; operates into 2 ohms. As above. |  |
|                                    | S860   | B   | 0.05         | No               | 40                    | 125                        | No                         | 205                                  | 300                                  | 20-20                                 | AB                        | 1.7                  | 32                       |                                   |                          |                    |           | 20      |   |  |
|                                    | H5002  | B   | 0.05         | No               | 50                    | 125                        | No                         | 250                                  | 375                                  | 20-20                                 | H                         | 2.1                  | 32                       |                                   |                          |                    |           | 50      |   |  |
|                                    | A100pro  | B   | 0.05         | No               | 40                    | 125                        | No                         | 60                                   | 120                                  | 20-20                                 | AB                        | 2.7                  | 47                       |                                   |                          |                    |           | 17      |   |  |
|                                    | A200pro  | B   | 0.05         | Yes              | 40                    | 125                        | No                         | 125                                  | 190                                  | 20-20                                 | AB                        | 2.7                  | 47                       |                                   |                          |                    |           | 27      |   |  |
|                                    | A400pro  | B   | 0.05         | Yes              | 50                    | 125                        | No                         | 205                                  | 300                                  | 20-20                                 | AB                        | 1.2                  | 47                       |                                   |                          |                    |           | 30      |   |  |
|                                    | A900pro THX  | B   | 0.05         | Yes              | 50                    | 125                        | No                         | 375                                  | 600                                  | 20-20                                 | AB                        | 2.1                  | 47                       |                                   |                          |                    |           | 59      |   |  |
| MUSE<br>ELECTRONICS<br>(Continued) | A100   | B   | 0.05         | No               | 40                    | 125                        | No                         | 60                                   | 120                                  | 20-20                                 | AB                        | 2.7                  | 25                       |                                   |                          |                    |           | 17      | 399.95  |  |
|                                    | A200   | B   | 0.05         | No               | 40                    | 125                        | No                         | 125                                  | 190                                  | 20-20                                 | AB                        | 2.7                  | 25                       |                                   |                          |                    |           | 25      | 499.95  |  |
|                                    | A400   | B   | 0.05         | No               | 50                    | 125                        | No                         | 205                                  | 300                                  | 20-20                                 | AB                        | 1.2                  | 25                       |                                   |                          |                    |           | 25      | 799.95  |  |
| MUSE<br>ELECTRONICS<br>(Continued) | 100  | B   | 0.5          | Opt.             | 66                    | 890                        | No                         | 100                                  | 200                                  | 13-200                                | AB                        |                      | 51                       |                                   |                          |                    |           | 28      | 1350.00   |  |
|                                    | 150  | B/M   | 0.5          | Opt.             | 89                    | 960                        | No                         | 125                                  | 250                                  | 13-250                                | AB                        |                      | 51                       |                                   |                          |                    |           | 30      | 2280.00   |  |
|                                    | 160  | B   | 0.5          | Yes              | 56                    | 1.1V                       | No                         | 160                                  | 250                                  | 13-200                                | AB                        |                      | 51                       |                                   |                          |                    |           | 39      | 1900.00   |  |

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# AMPLIFIERS

| MANUFACTURER               | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | Type: Integrated = I, Basic-B;<br>Tube = T, Hybrid = H, Mono = M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | POWER AMP                  |                                      |                                      |                                       |                           |                      |                          |                                     |                          |                    | PREAMP       |                 | Price, \$  | Notes |
|----------------------------|--|--|--------------|------------------|-----------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------|----------------------|--------------------------|-------------------------------------|--------------------------|--------------------|--------------|-----------------|--|-------|
|                            |  |  |              |                  |                       |                            | Does Unit Invert Polarity? | Cont. Avg. Watts/Channel into 8 Ohms | Cont. Avg. Watts/Channel into 4 Ohms | Rated Full-Power Bandwidth, Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, Kilohms | MM Phono S/N, dB: A = Wtd. re: 5 mV | MM Phono Sensitivity, mV | Moving Coil Input? | Weight, Lbs. |                 |  |       |
| MUSE<br>(Continued)        | 175  | B/M  | 0.5          | Yes              | 105                   | 1.1V                       | No                         | 175                                  | 325                                  | 13-250                                | AB                        |                      | 51                       |                                     |                          |                    | 38           | 3250.00<br>Pair |  |       |
|                            | 300  | B/M  | 0.5          | Yes              | 115                   | 1.6V                       | No                         | 300                                  | 500                                  | 13-250                                | AB                        |                      | 51                       |                                     |                          |                    | 40           | 3500.00<br>Pair |  |       |
| MUSEATEX<br>AUDIO          | AS10   | B  | 0.25         | No               | 200                   |                            | No                         | 100                                  | 150                                  | 1-20                                  | AB                        |                      | 100                      |                                     |                          |                    | 24           | 1999.00         | Floating charge power supply.  |       |
|                            | AM15   | B/M  | 0.25         | No               | 200                   |                            | No                         | 150                                  | 250                                  | 1-20                                  | AB                        |                      | 100                      |                                     |                          |                    | 24           | 1799.00         | As above.  |       |
| MUSICAL DESIGN             | D-75   | B  |              | No               | 30                    |                            | No                         | 75                                   | 125                                  | 0.3-200                               | AB                        |                      | 24                       |                                     |                          |                    | 20           | 795.00          | Bridgeable.  |       |
|                            | DM-100   | B  |              | No               | 30                    | 1.7V                       | No                         | 100                                  | 200                                  | 0.3-200                               | AB                        |                      | 24                       |                                     |                          |                    | 28           | 1095.00         | As above.  |       |
|                            | D-150  | B  |              | No               | 30                    | 1.7V                       | No                         | 150                                  | 240                                  | 0.1-180                               | AB                        |                      | 24                       |                                     |                          |                    | 35           | 1495.00         |  |       |
| MUSIC<br>REFERENCE         | RM-9 MKII  | B/T  | 0.2          | No               |                       |                            | No                         | 125                                  | 125                                  | 20-20                                 | A/AB1                     | 1.5                  | 100                      |                                     |                          |                    | 59           | 2950.00         | Strappable; adjustable gain.   |       |
|                            | RM-10  | B/T  | 0.3          | No               |                       |                            | No                         | 35                                   | 35                                   | 20-20                                 | A/AB1                     |                      | 100                      |                                     |                          |                    | 16           | 772.00          | Optional adjustable gain and<br>headphone jack; mono version<br>available.   |       |
| MUSIC & SOUND              | SPA-100  | B  | 0.1          | Yes              | 30                    |                            | No                         | 100                                  | 200                                  | 10-100                                | AB                        | 3                    | 20                       |                                     |                          |                    |              | 849.00          | Optional plug-in electronic<br>crossover.  |       |
|                            | SPA-65   | B  | 0.1          | No               | 30                    |                            | No                         | 65                                   | 130                                  | 10-100                                | AB                        | 3                    | 20                       |                                     |                          |                    |              | 595.00          |  |       |
| NAD                        | 214  | B  | 0.03         | No               | 60                    | 100                        | No                         | 80                                   | 120                                  | 20-20                                 | AB                        | 1.8                  | 60                       |                                     |                          |                    | 25           | 449.00          | Bridges to 240 watts into 8 ohms.  |       |
|                            | 216THX   | B  |              |                  |                       |                            | No                         | 150                                  |                                      | 20-20                                 |                           |                      |                          |                                     |                          |                    |              | 649.00          | THX certified.   |       |
|                            | 208THX   | B  | 0.03         | Yes              |                       | 100                        | No                         | 250                                  | 250                                  | 20-20                                 | AB                        | 4                    | 40                       |                                     |                          |                    |              | 1499.00         | As above; bridgeable.  |       |
|                            | 2100X  | B  | 0.03         | No               | 35                    | Var.                       | No                         | 60                                   |                                      | 20-20                                 | AB                        | 5.3                  | 20                       |                                     |                          |                    | 21           | 429.00          | Bridgeable.  |       |
|                            | 2400THX  | B  | 0.03         | No               | 30                    | Var.                       | No                         | 100                                  |                                      | 20-20                                 | AB                        | 5.7                  | 20                       |                                     |                          |                    | 22           | 649.00          | As above; THX certified.   |       |
|                            | 2700THX  | B  | 0.03         | No               |                       | 100                        | No                         | 150                                  |                                      | 20-20                                 | AB                        | 4.3                  | 20                       |                                     |                          |                    |              | 829.00          | As above.  |       |
|                            | 902  | B  | 0.05         | No               |                       | 180                        | No                         | 30                                   |                                      | 20-20                                 | AB                        | 2                    | 10                       |                                     |                          |                    |              | 279.00          | Bridgeable.  |       |
|                            | 906  | B  | 0.05         | No               |                       | 180                        | No                         | 30                                   |                                      | 20-20                                 | AB                        | 2                    | 10                       |                                     |                          |                    |              | 699.00          | As above; six-channel operation.   |       |
|                            | 302  | I  | 0.03         |                  | 20                    | 165                        | No                         | 25                                   |                                      | 20-20                                 | AB                        | 3                    | 20                       | 77                                  | 2.7                      | No                 | 13           | 269.00          |  |       |
|                            | 304  | I  | 0.03         |                  | 20                    | 165                        | No                         | 35                                   |                                      | 20-20                                 | AB                        | 5.5                  | 20                       | 77                                  | 2.5                      | No                 | 14           | 379.00          |  |       |
| NAIM AUDIO                 | NAIT 3   | I  | 0.01         | No               |                       | 75                         | No                         | 30                                   | 45                                   | 20-20                                 | B                         |                      | 22                       |                                     |                          |                    | 10           | 1055.00         | Optional MM or MC phono stage,<br>\$155.00 (MM sensitivity, 2.5 mV).<br>Includes 24-V power supply for<br>Naim preamps.  |       |
|                            | NAP 90/3   | B  | 0.01         | No               |                       | 700                        | No                         | 30                                   | 45                                   | 20-20                                 | B                         |                      | 22                       |                                     |                          |                    | 12           | 845.00          | As above.  |       |
|                            | NAP 140  | B  | 0.01         | No               |                       | 700                        | No                         | 45                                   | 70                                   | 20-20                                 | B                         |                      | 22                       |                                     |                          |                    | 14           | 1345.00         | As above.  |       |
|                            | NAP 180  | B  | 0.01         | No               |                       | 900                        | No                         | 60                                   | 90                                   | 20-20                                 | B                         |                      | 22                       |                                     |                          |                    | 26           | 1895.00         | As above.  |       |
|                            | NAP 250  | B  | 0.01         | No               |                       | 900                        | No                         | 70                                   | 125                                  | 20-20                                 | B                         |                      | 22                       |                                     |                          |                    | 30           | 2995.00         | Regulated power supplies.  |       |
|                            | NAP 135  | B/M  | 0.01         | No               |                       | 900                        | No                         | 75                                   | 135                                  | 20-20                                 | B                         |                      | 22                       |                                     |                          |                    | 33           | 2995.00         | As above.  |       |
| NAKAMICHI                  | PA-7AI   | B  | 0.05         | No               |                       | 140                        | No                         | 225                                  |                                      | 5-50                                  | Stasis                    | 1.7                  | 50                       |                                     |                          |                    | 63           | 2500.00         |  |       |
|                            | PA-5AI   | B  | 0.05         | No               |                       | 140                        | No                         | 150                                  |                                      | 5-50                                  | Stasis                    | 1.7                  | 50                       |                                     |                          |                    | 47           | 1750.00         |  |       |
| NEI                        | 800X   | B/H  | 0.08         | Yes              | 30                    | 590                        | No                         | 182                                  | 275                                  | 20-20                                 | B                         | 2                    | 20                       |                                     |                          |                    | 19           | 459.00          | Bridges to 625 watts into 8 ohms;<br>clipping indicators; protection<br>circuitry.   |       |
| NESTOROVIC<br>LABORATORIES | NA-1   | B/T/M  | 0.5          | Yes              |                       | 1V                         | Var.                       | 150                                  | 150                                  | 18-25                                 | AB                        |                      | 200                      |                                     |                          |                    | 65           | 3600.00         | Each   |       |
| N.E.W.                     | A-20   | B  | 0.002        | No               | 50                    | 140                        | No                         | 20                                   | 40                                   | 20-20                                 | A                         |                      | 23                       |                                     |                          |                    | 25           | 698.00          | Bridges to 85 watts into 8 ohms.   |       |
|                            | A-20.1   | B  |              |                  | 52                    | 290                        | No                         |                                      |                                      | 20-20                                 | A                         |                      |                          |                                     |                          |                    |              | 1348.00         | Bridgeable.  |       |
|                            | A-60   | B  |              | Yes              | 55                    | 290                        | No                         | 60                                   | 120                                  | 20-20                                 | A                         |                      |                          |                                     |                          |                    |              |                 | As above.  |       |
| NHT                        | MA-1A  | B/M  | 0.1          | No               | 12                    | Var.                       | No                         | 80                                   | 120                                  | 20-20                                 | AB                        | 2                    | 50                       |                                     |                          |                    | 11           | 325.00          | Line- and speaker-level inputs;<br>satellite throughputs from<br>speaker-level inputs; adjustable<br>crossover frequency; volume<br>control.                           |       |
| NILES AUDIO                | TVA-20   | B  | 0.05         | No               |                       | 80                         | No                         | 20                                   | 25                                   | 20-20                                 | AB                        | 1.5                  | 50                       |                                     |                          |                    | 6            |                 | Auto on; auto local/main source<br>switching.  |       |
| NOBIS<br>TECHNOLOGIES      | Cantabile  | B/H  | 0.5          | No               |                       |                            | No                         | 35                                   | 35                                   | 30-21                                 | A                         | 1.2                  | 100                      |                                     |                          |                    | 39           | 1695.00         | Strappable; adjustable bias.   |       |
|                            | Convigore  | B/H  | 0.5          | No               |                       |                            | No                         | 50                                   | 50                                   | 30-21                                 | A                         | 1.2                  | 100                      |                                     |                          |                    | 43           | 2395.00         | As above.  |       |
| OCM<br>TECHNOLOGY          | OCM 500  | B  | 0.25         | Yes              | 200                   | 1.1V                       | No                         | 200                                  | 400                                  | 0.2-100                               | AB                        | 3                    | 50                       |                                     |                          |                    | 66           | 2695.00         | Optional dual outputs.   |       |
|                            | OCM 200  | B  | 0.25         | Yes              | 200                   | 790                        | No                         | 100                                  | 200                                  | 0.2-100                               | AB                        | 3                    | 50                       |                                     |                          |                    | 39           | 1795.00         | As above.  |       |
| OEM SYSTEMS                | KHS300   | I  | 0.5          | Yes              | 10                    | †                          | No                         | 25                                   | 37.5                                 | 20-20                                 |                           |                      | 2                        | 10                                  |                          |                    | 30           | 1695.00         | Four-zone amp; includes four<br>in-wall controllers with individual<br>volume, balance, treble, bass, and<br>power controls and infrared<br>remote repeater. †-20 dBV. |       |
| ONIX                       | OA30   | I  | 0.02         | No               |                       | 250                        | No                         | 40                                   | 60                                   | 20-20                                 | AB                        |                      |                          |                                     |                          |                    | 13           | 595.00          | Headphone jack.  |       |
|                            | OA21S  | I  | 0.01         | No               |                       | 250                        | No                         | 50                                   | 70                                   | 20-20                                 | AB                        |                      |                          |                                     |                          |                    | 15           | 795.00          | Optional MM or MC phono stage,<br>\$125.00; optional external power<br>supply, S.O.A.P. 2, \$650.00.   |       |
|                            | OA31L  | I  | 0.01         | No               |                       | 250                        | No                         | 60                                   | 90                                   | 20-20                                 |                           |                      |                          |                                     |                          |                    | 14           | 995.00          | Phono stage as above; headphone<br>jack; with tone controls, OA31LT,<br>\$1095.00.   |       |
|                            | OA401  | B  | 0.01         | No               |                       | 275                        | No                         | 50                                   | 70                                   | 20-20                                 | AB                        |                      | 22                       |                                     |                          |                    | 9            | 795.00          | Internal power supply for OA24<br>preamp.  |       |
|                            | OA601  | B  | 0.01         | No               |                       | 275                        | No                         | 70                                   | 140                                  | 20-20                                 | AB                        |                      | 22                       |                                     |                          |                    | 16           | 1495.00         | Separate power supply for each<br>channel.   |       |
|                            | OA801  | B/M  | 0.01         | No               |                       | 275                        | No                         | 100                                  | 190                                  | 20-20                                 | AB                        |                      | 22                       |                                     |                          |                    | 16           | 1750.00         | Each   |       |
| ONKYO                      | M-501  | B  | 0.09         | No               |                       |                            | No                         | 150                                  |                                      | 20-20                                 | AB                        |                      | 50                       |                                     |                          |                    | 23           | 399.00          | Multi-room remote capability<br>when used with P-301 preamp.   |       |
|                            | Integra M-504  | B  | 0.003        | No               |                       |                            | No                         | 165                                  |                                      | 20-20                                 | AB                        |                      | 20                       |                                     |                          |                    | 46           | 870.00          | XLR and RCA terminals; opto-<br>isolated output protection.  |       |
|                            | Integra M-588F   | B  | 0.005        | Yes              | 60                    |                            | No                         | 200                                  | 360                                  | 20-20                                 | AB                        |                      |                          |                                     |                          |                    | 64           | 2100.00         | Low-impedance drive; multi-room<br>remote capability; motorized<br>volume control.   |       |
|                            | A-803(RI)  | I  | 0.06         | No               |                       |                            |                            | 60                                   |                                      | 20-20                                 | AB                        |                      | 50                       | 80                                  | 2.5                      | Yes                | 16           | 365.00          | Low-impedance drive; anti-EMI<br>transformer; motorized input<br>selector.   |       |
|                            | Integra A-807<br>(RI)                                      | I  | 0.008        | No               |                       |                            |                            | 80                                   |                                      | 20-20                                 | AB                        |                      | 50                       | 93                                  | 2.5                      | Yes                | 34           | 570.00          | As above; opto-drive power<br>supply.  |       |
|                            | Integra A-809<br>(RI)                                      | I  | 0.008        | No               |                       |                            |                            | 105                                  |                                      | 20-20                                 | AB                        |                      | 50                       | 94                                  | 2.5                      | Yes                | 37           | 670.00          |  |       |

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# AMPLIFIERS

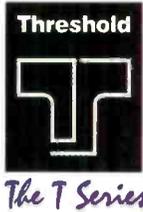
| MANUFACTURER         | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | Type: Integrated = I, Base = B,<br>Tube = T, Hybrid = H, Mono = M | Rated THD, %        | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | Does Unit Invert Polarity? | POWER AMP                            |                                      |                                       |                           |                      |                          |                                    |                            |   |   | PREAMP   |                             | Price, \$   | Notes   |
|----------------------|--|---|---------------------|------------------|-----------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------|----------------------|--------------------------|------------------------------------|----------------------------|---|---|----------|-----------------------------|---|---------|
|                      |  |   |                     |                  |                       |                            |                            | Cont. Avg. Watts/Channel into 8 Ohms | Cont. Avg. Watts/Channel into 4 Ohms | Rated Full-Power Bandwidth, Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, kilohms | MM Mono S/N, dB *A* w/td. re. 5 mV | MM Phono Sensitivity, mV   | Moving Coil Input?  | Weight, Lbs.  |          |                             |   |         |
| ONKYO<br>(Continued) | A-RV410(RI)  | I   | 0.08                | No               | 110                   | 100                        | No                         | 20-20                                | AB                                   | 50                                    |                           |                      | No                       | 22                                 | 400.00                     | Low-impedance drive; video dubbing; seven audio, two video inputs; motorized volume control. DSP and Dolby Pro Logic (see also "Surround Processors").  |   |          |                             |   |         |
|                      | Integra A-SV810PRO (RI)                                    | I   | 0.06                | No               |                       |                            | 75                         | 20-20                                | AB                                   | 50                                    | 80                        | 5                    | No                       | 39                                 | 1100.00                    |   |   |          |                             |   |         |
|                      | A-SV610PRO   | I   | 0.08                | No               | 150                   |                            | No                         | 125                                  | 20-20                                | AB                                    | 50                        | 80                   | 2.5                      | No                                 | 30                         |   | 640.00  |          |                             |   |         |
| ORITRON              | HF-P5  | B   | 0.05                | No               |                       | No                         | 50                         | 90                                   | 1-350                                | AB                                    |                           |                      |                          |                                    | 599.95                     |   |   |          |                             |   |         |
| HF-P10               | B  | 0.05  | No                  |                  | No                    | 100                        | 190                        | 1-350                                | AB                                   |                                       |                           |                      |                          | 799.95                             |                            |   |   |          |                             |   |         |
| HF-P10.2             | B  | 0.03  | No                  |                  | No                    | 100                        | 200                        | 0.5-400                              | AB                                   |                                       |                           |                      |                          |                                    |                            |   |   |          |                             |   |         |
| PAC                  | LS-2 plus  | B   | 0.01                |                  | 1.2V                  |                            | 125                        |                                      |                                      | AB                                    |                           |                      |                          | 44                                 | 1500.00                    |   |   |          |                             |   |         |
| PARAMOUNT PICTURES   | MC 200   | B   | 0.1                 | No               | 12                    | 1V                         | No                         | 40                                   | 40                                   | 20-20                                 | AB                        | 1.5                  | 20                       |                                    | 25                         | 399.95  | Six-channel operation; six level controls and pass-through line outputs.  |          |                             |   |         |
| PARASOUND            | HCA-2200II   | B   | 0.009               | Yes              | 250                   | No                         | 250                        | 400                                  | 2-150                                | AB                                    | 2.2                       | 150                  |                          | 60                                 | 1750.00                    | Bridgeable; direct-coupled. †65 watts x 6. ††105 watts x 6. Bridges to four- or five-channel operation. †120 watts x 6. ††180 watts x 6. Bridgeable as above; THX certified; direct-coupled. Bridgeable; direct-coupled. As above; THX certified. As above. |   |          |                             |   |         |
|                      | HCA-606  | B   | 0.1                 | No               | 110                   | No                         | †                          | ††                                   | 12-80                                | AB                                    | 1.5                       | 33                   |                          | 33                                 | 1095.00                    |   |   |          |                             |   |         |
|                      | HCA-1206   | B   | 0.03                | No               | 130                   | No                         | †                          | ††                                   | 20-120                               | AB                                    | 1.9                       | 33                   |                          | 71                                 | 1850.00                    |   |   |          |                             |   |         |
|                      | HCA-600<br>HCA-1000<br>HCA-1200II                          | B<br>B<br>B   | 0.1<br>0.07<br>0.03 | No<br>No<br>No   | 110<br>130<br>130     | No<br>No<br>No             | 50<br>100<br>205           | 75<br>150<br>315                     | 12-80<br>5-100<br>8-150              | AB<br>AB<br>AB                        | 1.5<br>1.5<br>2           | 33<br>33<br>33       |                          | 37                                 | 365.00<br>525.00<br>925.00 |   |   |          |                             |   |         |
| PASS LABORATORIES    | Aleph 0  | B/M   | 1                   | Yes              | 50                    | 140                        | No                         | 80                                   | 160                                  | 20-20                                 | †                         | 0                    | 10                       |                                    | 70                         | 3500.00   | †Single-ended Class-A operation to 40 watts. †As above but 10 watts. †As above but 100 watts. Each 6000.00. †As above but 25 watts. |          |                             |   |         |
|                      | Aleph 0S   | B   | 1                   | Yes              | 50                    | 140                        | No                         | 40                                   | 80                                   | 20-20                                 | †                         | 0                    | 10                       |                                    | 70                         | 3500.00   |   |          |                             |   |         |
|                      | Aleph 1  | B/M   | 1                   | Yes              | 50                    | 140                        | No                         | 150                                  |                                      | 20-20                                 | †                         | 0                    | 10                       |                                    | 100                        | 6000.00   |   |          |                             |   |         |
|                      | Aleph 1S   | B   | 1                   | Yes              | 50                    | 140                        | No                         | 150                                  |                                      | 20-20                                 | †                         | 0                    | 10                       |                                    | 100                        | 6000.00   |   |          |                             |   |         |
| PERREAUX             | E-110  | B   | 0.003               | No               |                       | 150                        |                            | 100                                  | 160                                  | 20-20                                 | A/AB                      | 2                    | 47                       |                                    | 17                         | 1095.00   | Preamp out. †120 watts x 6. ††160 watts x 6. Bridges to three, four, or five channels.  |          |                             |   |         |
|                      | E-220  | B   | 0.003               | No               |                       | 150                        |                            | 200                                  | 300                                  | 20-20                                 | A/AB                      | 2                    | 47                       |                                    | 27                         | 1495.00   |   |          |                             |   |         |
|                      | Ex-120   | I   | 0.04                | No               |                       | 150                        |                            | 100                                  | 150                                  | 20-20                                 | A/AB                      | 2.5                  | 47                       |                                    | 16                         | 1395.00   |   |          |                             |   |         |
|                      | Reference 2400   | B   | 0.01                | Yes              |                       | 150                        |                            | 200                                  | 330                                  | 20-20                                 | A/AB                      | 2                    | 47                       |                                    | 44                         | 2795.00   |   |          |                             |   |         |
|                      | Reference 3400   | B   | 0.015               | Yes              |                       | 150                        |                            | 300                                  | 500                                  | 20-20                                 | A/AB                      | 2                    | 47                       |                                    | 57                         | 3595.00   |   |          |                             |   |         |
|                      | Reference 5600   | B   | 0.02                | Yes              |                       | 150                        |                            | 500                                  | 800                                  | 20-20                                 | A/AB                      | 2                    | 47                       |                                    | 112                        | 6395.00   |   |          |                             |   |         |
|                      | Reference MultiChannel MC-6100                             | B   | 0.015               | No               |                       | 150                        |                            | †                                    | ††                                   | 20-20                                 | A/AB                      | 2.5                  | 47                       |                                    | 45                         | 2695.00   |   |          |                             |   |         |
| PETERSON-KLAUS       | Mosfet 120   | B   | 0.009               | No               | 30                    | 180                        | No                         | 60                                   | 90                                   | 4-200                                 | AB                        | 1.5                  | 22                       |                                    | 22                         | 349.00  | Bridgeable; kit, \$249.00.  |          |                             |   |         |
| PHILIPS              | FA-950(RI)   | I   | 0.006               |                  | 12                    | 150                        | No                         | 100                                  | 125                                  | 20-20                                 | G                         | 4                    |                          | 79                                 | 2.5                        | Yes   | 28  | 479.95   | Digital inputs and outputs. |   |         |
| PIONEER              | A-301  | I   | 0.01                |                  |                       |                            |                            | 40                                   | 50                                   | 20-20                                 |                           |                      |                          | 40                                 | 89                         | 2.5   |   | 15       | 325.00                      |   |         |
| PLACETE ENGINEERING  | A  | B/M   | 0.015               | No               | 70                    |                            | No                         | 35                                   | 50                                   | 5-50                                  | A                         |                      |                          | 40                                 |                            |   |   | 22       | 1195.00                     | Pair  |         |
| PLATINUM             | One  | B   | 0.05                | No               | 60                    |                            | No                         | 275                                  | 425                                  | 10-40                                 | A/AB                      | 1.5                  | 18                       |                                    |                            |   |   | 57       | 4990.00                     | Class-A operation to 60 watts; a.c. line filter. As above; damping, 200.                          |         |
|                      | Two  | B/M   | 0.05                | No               | 60                    |                            | No                         | 325                                  | 575                                  | 10-40                                 | A/AB                      | 1.5                  | 18                       |                                    |                            |   |   | 67       | 9990.00                     | Pair  |         |
| POINTSOURCE AUDIO    | A203   | B   | 0.1                 | No               |                       | 1.4V                       | No                         | 200                                  | 400                                  | 10-20                                 | AB2                       |                      |                          | 100                                |                            |   |   | 66       | 1950.00                     |   |         |
|                      | T100   | B/T   | 1                   | No               |                       |                            | No                         | 100                                  | 200                                  | 20-20                                 | Var.                      |                      |                          | 100                                |                            |   |   |          | 100                         |   | 1800.00 |
|                      | TM100  | B/T   | 1                   | No               |                       |                            | No                         | 100                                  | 200                                  | 20-20                                 | Var.                      |                      |                          | 100                                |                            |   |   |          | 100                         |   | 2500.00 |
|                      | T200   | B/T   | 1                   | No               |                       |                            | No                         | 200                                  | 200                                  | 20-20                                 | Var.                      |                      |                          | 100                                |                            |   |   |          | 100                         |   | 3000.00 |
|                      | TM200  | B/T   | 1                   | No               |                       |                            | No                         | 200                                  | 200                                  | 20-20                                 | Var.                      |                      |                          | 100                                |                            |   |   |          | 100                         |   | 3500.00 |
|                      | S25  | B/T   |                     | No               |                       |                            | No                         | 25                                   | 20                                   | 20-20                                 | A                         |                      |                          | 100                                |                            |   |   |          | 100                         |   | 1500.00 |
|                      | SM25   | B/T   |                     | No               |                       |                            | No                         | 25                                   | 20                                   | 20-20                                 | A                         |                      |                          | 100                                |                            |   |   |          | 100                         |   | 1800.00 |
| POLYFUSION AUDIO     | 860  | B   | 0.006               | Yes              | 50                    |                            | No                         | 100                                  | 200                                  | 5-25                                  | A/AB                      |                      |                          | 20                                 |                            |   |   | 36       | 2850.00                     | 1600 watts into 1 ohm.  |         |
|                      | 960  | B   | 0.006               | Yes              | 50                    |                            | No                         | 200                                  | 400                                  | 5-25                                  | A/AB                      |                      |                          | 20                                 |                            |   |   | 60       | 4000.00                     |   |         |
|                      | 980  | B/M   | 0.006               | Yes              | 50                    |                            | No                         | 200                                  | 400                                  | 5-25                                  | A/AB                      |                      |                          | 20                                 |                            |   |   | 55       | 3500.00                     |   |         |
| PROCEED              | Amp 2  | B   | 0.3                 | Yes              |                       |                            | Sel.                       | 150                                  | 250                                  | 20-20                                 | AB                        |                      |                          | †                                  |                            |   |   | 47       | 1995.00                     | THX certified. †Unbalanced, 30 kilohms; balanced, 100 kilohms. As above; three-channel operation. |         |
|                      | Amp 3  | B   | 0.3                 | Yes              |                       |                            | Sel.                       | 150                                  | 250                                  | 20-20                                 | AB                        |                      |                          | †                                  |                            |   |   | 61       | 2995.00                     |   |         |
| PROTON               | AA-1660  | B   | 0.05                | No               | 40                    | 1V                         | No                         | †                                    | ††                                   | 10-80                                 | AB                        | 2.5                  | 47                       |                                    |                            |   |   | 28       | 700.00                      | †60 watts x 6. ††100 watts x 6. Bridges to 150 watts x 3; four- or five-channel operation.        |         |
|                      | AA-2080<br>AA-2120   | B<br>B  | 0.02<br>0.02        | No<br>No         | 60<br>60              | 1V<br>1V                   | No<br>No                   | 80<br>120                            | 120<br>180                           | 10-80<br>10-80                        | AB<br>AB                  | 2.5<br>2.5           | 47<br>47                 |                                    |                            |   |   | 29<br>31 | 700.00<br>600.00            |   |         |
| PS AUDIO             | 100 Delta  | B   | 0.1                 | No               | 150                   |                            | No                         | 120                                  | 200                                  | 20-20                                 | AB                        | 1.5                  | 30                       |                                    |                            |   |   | 45       | 1295.00                     | Low-feedback design. With balanced inputs, \$2195.00. Low-feedback design.                        |         |
|                      | 200 Delta  | B   | 0.1                 | Opt.             | 150                   |                            | No                         | 200                                  | 400                                  | 20-20                                 | AB                        | 1.5                  | 30                       |                                    |                            |   |   | 65       | 1995.00                     |   |         |
|                      | 250 Delta  | B/M   | 0.1                 | No               | 150                   |                            | No                         | 250                                  | 400                                  | 20-20                                 | AB                        | 1.5                  | 30                       |                                    |                            |   |   | 53       | 1247.50                     |   |         |
| PSE                  | Studio IV  | B   | 0.01                | No               | 100                   | 1.2V                       | No                         | 100                                  | 190                                  | 0-100                                 | A/AB                      | 1                    | 50                       |                                    |                            |   |   | 25       | 995.00                      |   |         |
|                      | Studio V   | B/M   |                     | Yes              | 200                   | 1.2V                       | No                         | 120                                  | 230                                  | 0-500                                 | A/AB                      | 1                    | 50                       |                                    |                            |   |   | 23       | 1990.00                     |   |         |
| PUREST SOUND SYSTEMS | 845-SE   | B/T/M   |                     | No               | 10                    | 750                        | No                         | 12.5                                 | 12.5                                 | 10-35                                 | A                         |                      |                          | 100                                |                            |   |   | 50       | 4650.00                     | Triode tubes. Pair  |         |
| QSC                  | USA 370  | B   | 0.1                 | Yes              | 12                    | 1.1V                       | Var.                       | 110                                  | 165                                  | 20-20                                 | AB                        | 2                    | †                        |                                    |                            |   |   | 24       | 595.00                      | †Unbalanced, 10 kilohms; balanced, 20 kilohms.  |         |
|                      | USA 850  | B   | 0.1                 | Yes              | 18                    | 1.2V                       | Var.                       | 240                                  | 360                                  | 20-20                                 | AB                        | 2                    | †                        |                                    |                            |   |   | 34       | 695.00                      |   |         |
|                      | USA 1300   | B   | 0.1                 | Yes              | 21                    | 1.1V                       | Var.                       | 365                                  | 550                                  | 20-20                                 | AB                        | 2                    | †                        |                                    |                            |   |   | 54       | 995.00                      |   |         |
|                      | 1100   | B   | 0.1                 | Yes              | 14                    | 1V                         | Var.                       | 50                                   | 70                                   | 20-20                                 | AB                        | 2                    | †                        |                                    |                            |   |   | 12       | 608.00                      |   |         |
|                      | 1200   | B   | 0.1                 | Yes              | 12                    | 1V                         | Var.                       | 100                                  | 150                                  | 20-20                                 | AB                        | 2                    | †                        |                                    |                            |   |   | 24       | 638.00                      |   |         |
|                      | 1400   | B   | 0.1                 | Yes              | 18                    | 1V                         | Var.                       | 200                                  | 300                                  | 20-20                                 | AB                        | 2                    | †                        |                                    |                            |   |   | 34       | 838.00                      |   |         |
| 1700                 | B  | 0.1   | Yes                 | 21               | 1V                    | Var.                       | 325                        | 500                                  | 20-20                                | AB                                    | 2                         | †                    |                          |                                    |                            |   | 24  | 1328.00  |                             |   |         |
| (Continued)          | MX 700   | B   | 0.1                 | Yes              | 960                   |                            | Var.                       | 150                                  | 225                                  | 20-20                                 | AB                        | 3                    | †                        |                                    |                            |   |   | 54       | 688.00                      |   |         |

# Advancing the Art.

*The New T Series from Threshold.*

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Class A Power Amplifiers

Threshold Corporation, 7325 Roseville Road, Sacramento, CA 95842  
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# AMPLIFIERS

| MANUFACTURER                 | Model<br>(R1)=Remote Included,<br>(RO)=Remote Optional | Type: Integrated-1, Basic-B,<br>Tubes-1, Hybrid-H, Mono-M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | Does Unit Invert Polarity? | POWER AMP                               |   |  |                           |                      |                          |                                 |                          |                    |                       | PREAMP   |   | Price, \$ | Notes |
|------------------------------|--|---|--------------|------------------|-----------------------|----------------------------|----------------------------|---|---|--|---------------------------|----------------------|--------------------------|---------------------------------|--------------------------|--------------------|-----------------------|--|---|-----------|-------|
|                              |  |   |              |                  |                       |                            |                            | Cont. Avg. Watts/Channel<br>into 8 Ohms | Cont. Avg. Watts/Channel<br>into 4 Ohms | Rated Full-Power Bandwidth,<br>Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, Kilohms | MM Phono S/N, dB·x-wd. re: 5 mV | MM Phono Sensitivity, mV | Moving Coil Input? | Weight, Lbs.          |  |   |           |       |
| QSC<br>(Continued)           | MX 1000a   | B   | 0.1          | Yes              | 1.1V                  | Var.                       | 250                        | 350                                     | 20-20                                   | H  | 3                         | †                    |                          |                                 |                          | 42                 | 1028.00               | As above; optional XLR inputs.                                   |   |           |       |
|                              | MX 1500a   | B   | 0.1          | Yes              | 1.1V                  | Var.                       | 350                        | 500                                     | 20-20                                   | H  | 3                         | †                    |                          |                                 |                          | 42                 | 1258.00               | As above.  |   |           |       |
|                              | MX 2000a   | B   | 0.1          | Yes              | 1.1V                  | Var.                       | 450                        | 650                                     | 20-20                                   | H  | 3                         | †                    |                          |                                 |                          | 50                 | 1718.00               | As above.  |   |           |       |
|                              | EX 800   | B   | 0.1          | Yes              | 1V                    | Var.                       | 175                        | 275                                     | 20-20                                   | AB                                       | 2                         | †                    |                          |                                 |                          | 44                 | 1045.00               | Optional computer control.                                       |   |           |       |
|                              | EX 1250  | B   | 0.1          | Yes              | 1V                    | Var.                       | 275                        | 400                                     | 20-20                                   | H  | 3                         | †                    |                          |                                 |                          | 42                 | 1295.00               | As above.  |   |           |       |
|                              | EX 1600  | B   | 0.1          | Yes              | 1V                    | Var.                       | 400                        | 600                                     | 20-20                                   | H  | 3                         | †                    |                          |                                 |                          | 44                 | 1595.00               | As above.  |   |           |       |
|                              | EX 2500  | B   | 0.1          | Yes              | 1V                    | Var.                       | 500                        | 750                                     | 20-20                                   | H  | 3                         | †                    |                          |                                 |                          | 55                 | 2095.00               | As above.  |   |           |       |
| EX 4000                      | B  | 0.1   | Yes          | 1V               | Var.                  | 720                        | 1100                       | 20-20                                   | H                                       | 3  | †                         |                      |                          |                                 | 64                       | 2495.00            | As above.             |  |   |           |       |
| QUAD                         | 306  | B   | 0.01         | No               | 375                   | No                         | 80                         | 110                                     | 20-20                                   | A  | 1.5                       | 20                   |                          |                                 |                          | 10                 | 749.00                | Feed-forward error-correction circuitry; current-dumping design. |   |           |       |
|                              | 606  | B   | 0.01         | No               | 500                   | No                         | 180                        | 240                                     | 20-20                                   | A  | 1.5                       | 20                   |                          |                                 |                          | 25                 | 1449.00               | As above.  |   |           |       |
|                              | 240(RO)<br>520   | B<br>B  | 0.01<br>0.01 | Yes<br>Yes       | Var.<br>Var.          | No<br>No                   | 80<br>110                  | 110<br>175                              | 20-20<br>20-20                          | A<br>A                                   | 1.5<br>1.5                | 10<br>10             |                          |                                 |                          | 12<br>29           | 1199.00<br>1599.00    | As above.<br>As above.   |   |           |       |
| QUICKSILVER<br>AUDIO         | GLA  | B/T   |              | No               |                       | No                         | 40                         | 40                                      | 13-55                                   | AB                                       |                           | 100                  |                          |                                 |                          | 42                 | 1195.00               |  |   |           |       |
|                              | KT-88 Mono   | B/T/M   |              | No               |                       | No                         | 60                         | 60                                      | 13-55                                   | AB                                       |                           | 100                  |                          |                                 |                          | 30                 | 897.50                |  |   |           |       |
|                              | Silver Mono  | B/T/M   |              | No               |                       | No                         | 90                         | 90                                      | 16-80                                   | AB                                       |                           | 100                  |                          |                                 |                          | 36                 | 1225.00               |  |   |           |       |
|                              | M-80   | B/T/M   |              | No               |                       | No                         | 80                         | 80                                      | 13-60                                   | AB                                       |                           | 100                  |                          |                                 |                          | 34                 | 1497.50               |  |   |           |       |
|                              | M-135  | B/T/M   |              | No               |                       | No                         | 135                        | 135                                     | 10-150                                  | AB                                       |                           | 100                  |                          |                                 |                          | 70                 | 3250.00               |  |   |           |       |
| RANE                         | MA 6S  | B   | 0.07         | Yes              | 775                   | No                         | 100                        | 150                                     | 10-55                                   | AB                                       | 1                         | 20                   |                          |                                 |                          | 33                 | 1599.00               | Six-channel operation; bridgeable.                               |   |           |       |
|                              | SSA 6  | B   | 0.07         | No               | 775                   | No                         | 100                        | 150                                     | 10-55                                   | AB                                       | 1                         | 20                   |                          |                                 |                          | 33                 | 1599.00               | As above.  |   |           |       |
| RBH SOUND                    | TA-350   | B   | 0.05         | No               | 1V                    | No                         | 150                        |   | 20-25                                   | AB                                       | 1.5                       | 100                  |                          |                                 |                          | 36                 | 799.00                | Five-channel operation, 150 watts x 2 and 75 watts x 3.          |   |           |       |
|                              | TS-200   | B/M   | 0.05         | No               | 1V                    | No                         | 200                        | 275                                     | 20-25                                   | AB                                       | 1.7                       | 100                  |                          |                                 |                          | 33                 | 499.00                | Subwoofer amp; variable crossover frequency; variable boost.     |   |           |       |
| RCA                          | PA4500M  | B   | 0.5          | Yes              | 20                    | 900                        | Var.                       | 50                                      | 80                                      | 20-20                                    | AB                        | 1.2                  | 3                        |                                 |                          |                    | 199.00                | Four-channel operation.  |   |           |       |
| REFERENCE LINE<br>AUDIO      | Preminecne One   | B   | 0.01         | No               | 500                   | No                         | 100                        | 200                                     | 0-100                                   | A  |                           | 100                  |                          |                                 |                          | 70                 | 3995.00               |  |   |           |       |
|                              | Preminecne Two   | B/M   | 0.01         | Yes              | 500                   |                            | 200                        | 400                                     | 0-100                                   | A  |                           | 100                  |                          |                                 |                          | 70                 | 3995.00               | Differential circuitry.  |   |           |       |
|                              | Preminecne 5   | B/M   | 0.01         | No               | 500                   |                            | 100                        | 200                                     | 0-100                                   | †  |                           | 100                  |                          |                                 |                          | 35                 | 2095.00               | As above. †Single-ended Class-A.                                 |   |           |       |
| REGA RESEARCH                | Brio   | I   |              |                  |                       |                            | 35                         |   |   |  |                           |                      |                          | No                              |                          |                    | 399.00                |  |   |           |       |
|                              | Elex II  | I   |              |                  |                       |                            | 50                         |   |   |  |                           |                      |                          | No                              |                          |                    | 699.00                |  |   |           |       |
|                              | Elicit   | I   |              |                  |                       |                            | 80                         |   |   |  |                           |                      |                          | No                              |                          |                    | 1299.00               |  |   |           |       |
|                              | Stereo The Mono  | B<br>B/M  |              |                  |                       | No<br>No                   | 80<br>160                  |   |   | AB<br>AB                                 |                           |                      |                          | Yes                             |                          |                    |                       |  |   |           |       |
| REICHERT                     | 300B-SE  | B/T/M   |              | No               | 400                   | No                         | 7                          | 7                                       | 20-20                                   | A  |                           | 100                  |                          |                                 |                          |                    | 5900.00               | Triode tubes.  |   |           |       |
|                              | 300B-PP  | B/T/M   |              | No               | 400                   | No                         | 25                         | 25                                      | 20-20                                   | A  |                           | 100                  |                          |                                 |                          |                    | 7500.00               | As above.  |   |           |       |
|                              | 2A3-PP   | B/T/M   |              | No               | 500                   | No                         | 10                         | 10                                      | 20-20                                   | A  |                           | 100                  |                          |                                 |                          |                    | 6100.00               | As above.  |   |           |       |
| ROTEL                        | RA-930AX   | I   | 0.03         | No               | 150                   | No                         | 30                         |   | 20-20                                   | AB                                       |                           | 20                   | 80                       | 2.5                             | No                       | 13                 | 299.90                |  |   |           |       |
|                              | RA-935BX   | I   | 0.05         | No               | 210                   | No                         | 40                         |   | 20-20                                   | AB                                       |                           | 15                   |                          |                                 | Yes                      | 13                 | 349.90                |  |   |           |       |
|                              | RA-980BX   | I   | 0.03         | No               | 150                   | No                         | 100                        |   | 20-20                                   | AB                                       |                           | 33                   | 75                       | 2.5                             | Yes                      | 22                 | 699.90                | Preamp out/main in jacks.  |   |           |       |
|                              | RB-930AX   | B   | 0.03         | No               | 1V                    | No                         | 30                         |   | 20-20                                   | AB                                       |                           | 27                   |                          |                                 |                          | 14                 | 249.90                |  |   |           |       |
|                              | RB-956AX   | B   | 0.03         | No               | 1V                    | No                         | 30                         |   | 20-20                                   | AB                                       |                           | 27                   |                          |                                 |                          | 23                 | 499.90                |  |   |           |       |
|                              | RB-970BX   | B   | 0.03         | No               | 1V                    | No                         | 60                         |   | 20-20                                   | AB                                       |                           | 27                   |                          |                                 |                          | 15                 | 379.90                | Six-channel operation; bridges to 90 watts x 3.                  |   |           |       |
|                              | RB-980BX   | B   | 0.03         | No               | 1V                    | No                         | 120                        |   | 20-20                                   | AB                                       |                           | 33                   |                          |                                 |                          | 22                 | 599.90                | Bridges to 180 watts.  |   |           |       |
| RB-990BX                     | B  | 0.03  | No           | 1V               | No                    | 200                        |                            | 20-20                                   | AB                                      |  | 33                        |                      |                          |                                 | 34                       | 999.90             | Bridges to 360 watts. |  |   |           |       |
| RHB-10                       | B  | 0.03  | No           | 40               | 775                   | No                         | 200                        | 330                                     | 20-20                                   | AB                                       |                           | 30                   |                          |                                 | 63                       | 2699.90            |                       |  |   |           |       |
| JEFF ROWLAND<br>DESIGN GROUP | 9  | B/M   | 0.02         | Yes              | 50                    | 136                        | Sel.                       | 350                                     | 700                                     | 0.1-160                                  | A/AB                      |                      | Sel.                     |                                 |                          |                    | 225                   | 24,500.00  | Four chassis; available with a.c. or battery power supplies.                                      |           |       |
|                              | 8  | B   | 0.02         | Yes              | 80                    | 136                        | Sel.                       | 250                                     | 500                                     | 0.1-160                                  | A/AB                      |                      | Sel.                     |                                 |                          |                    | 150                   | 9800.00  | Optional battery power supply, \$3000.00.   |           |       |
|                              | 6  | B/M   | 0.01         | Yes              | 30                    | 136                        | No                         | 150                                     | 250                                     | 0.5-150                                  | A/AB                      |                      | Sel.                     |                                 |                          |                    | 90                    | 8500.00  | As above but \$5200.00 (per pair).  |           |       |
|                              | 2  | B   | 0.01         | Yes              | 30                    | 136                        | No                         | 75                                      | 125                                     | 0.5-150                                  | A/AB                      |                      | Sel.                     |                                 |                          |                    | 47                    | 4500.00  | As above but \$2600.00.   |           |       |
| SANSUI                       | AV9000DSP(R1)  | I   | 0.03         | No               | 100                   | 150                        | No                         | †                                       |   | 20-20                                    | AB                        | 1.4                  | 47                       | 72                              | 2.5                      | No                 | 32                    | 1000.00  | A/V amp with Dolby Pro Logic and DSP. †Front, 80 watts x 2; center, 20 watts; rear, 80 watts x 2. |           |       |
|                              | AUX619R  | I   | 0.03         | No               | 100                   | 150                        | No                         | 80                                      | 120                                     | 20-20                                    | AB                        | 1.4                  | 47                       | 83                              | 2.5                      | Yes                | 25                    | 600.00   |   |           |       |
| SENTEC                       | PA9  | B/M   | 0.03         | No               | 50                    | 1V                         | No                         | 60                                      | 100                                     | 10-60                                    | AB                        | 1.1                  | 12                       |                                 |                          |                    | 9                     | 600.00   | Low-feedback design.  |           |       |
| SESCOM                       | R/S 30W  | B/M   | 0.01         | Yes              | 1V                    | No                         | 30                         |   | 20-20                                   |  |                           | 15                   |                          |                                 |                          |                    | 10                    | 200.00   | Half-rack size.   |           |       |
|                              | R/S SP   | B   | 0.01         | Yes              | 1V                    | No                         | 8                          |   | 20-20                                   |  |                           | 15                   |                          |                                 |                          |                    | 7                     | 150.00   | As above; kit, \$100.00.  |           |       |
|                              | PO-3   | B   | 0.01         | No               | 100                   | No                         | 2                          |   |   |  |                           | 10                   |                          |                                 |                          |                    | 1                     | 75.65  | Requires PO-1 power supply.   |           |       |
|                              | PO-4   | B/M   | 0.01         | No               | 100                   | No                         | 4                          |   |   |  |                           | 10                   |                          |                                 |                          |                    | 1                     | 175.75   | As above.   |           |       |
|                              | PO-5   | I   | 0.01         | No               | 100                   | No                         | 2                          |   |   |  |                           | 10                   |                          |                                 |                          |                    | 1                     | 207.35   | As above.   |           |       |
| PO-58                        | B  | 0.01  | No           | 100              | No                    | 2                          |                            |   |   |  | 10                        |                      |                          |                                 |                          | 2                  | 191.00                |  |   |           |       |
| SIGNATURE<br>TECHNOLOGIES    | SRa-8  | B/H   | 0.03         | No               |                       | No                         | 35                         | 35                                      | 30-21                                   | A  | 1.2                       |                      |                          |                                 |                          |                    | 30                    | 1695.00  | Strappable; adjustable bias.  |           |       |
|                              | SRa-5  | B/H   | 0.03         | No               |                       | No                         | 50                         | 50                                      | 30-21                                   | A  | 1.2                       |                      |                          |                                 |                          |                    | 40                    | 1995.00  | As above.   |           |       |
| SM AUDIO                     | Studio Series  | B   | 0.02         | No               | 100                   | 800                        | No                         | 80                                      | 160                                     | 20-20                                    | AB                        |                      | 50                       |                                 |                          |                    | 30                    | 979.00   |   |           |       |
|                              | Signature Series                                       | B/M   | 0.02         | Yes              | 100                   | 1V                         | No                         | 100                                     | 200                                     | 15-50                                    | AB                        |                      | 50                       |                                 |                          |                    | 42                    | 899.00   |   |           |       |
| SONANCE                      | Sonamp 2120  | B   | 0.05         | No               | 20                    | 900                        | No                         | 120                                     | 160                                     | 20-20                                    | AB                        | 1.3                  | 56                       |                                 |                          |                    |                       | 575.00   | Auto on.  |           |       |
|                              | Sonamp 260   | B   | 0.05         | No               | 20                    | 700                        | No                         | 60                                      | 100                                     | 20-20                                    | AB                        | 1.2                  | 56                       |                                 |                          |                    |                       | 349.00   | As above; 125 watts into 2 ohms; with three-speaker switching, Sonamp 260X3, \$399.00.            |           |       |

# AMPLIFIERS

| MANUFACTURER             | Model<br>(R) = Remote Included,<br>(RO) = Remote Optional | Type: Integrated-I, Basic-B,<br>Tubes-T, Hybrid-H, Mono-M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | POWER AMP                  |   |   |  |                           |                      |                          |                                    |                          |                    | PREAMP       |          | Price, \$          | Notes  |        |
|--------------------------|---|---|--------------|------------------|-----------------------|----------------------------|----------------------------|---|---|--|---------------------------|----------------------|--------------------------|------------------------------------|--------------------------|--------------------|--------------|----------|--------------------|--|--------|
|                          |   |   |              |                  |                       |                            | Does Unit Invert Polarity? | Cont. Avg. Watts/Channel<br>into 8 Ohms | Cont. Avg. Watts/Channel<br>into 4 Ohms | Rated Full-Power Bandwidth,<br>Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, Kilohms | MM Phono S/N, dB-A - wtd. re: 5 mV | MM Phono Sensitivity, mV | Moving Coil Input? | Weight, Lbs. |          |                    |  |        |
| SONETIC LABORATORIES     | SA185   | B   | 0.1          | Yes              | 12                    | 1.1V                       | Var.                       | 110                                     | 165                                     | 20-20                                    | AB                        | 2                    | †                        |                                    |                          |                    |              | 24       | 600.00             | †Unbalanced, 10 kilohms; balanced, 20 kilohms.   |        |
|                          | SA425   | B   | 0.1          | Yes              | 18                    | 1.2V                       | Var.                       | 240                                     | 360                                     | 20-20                                    | AB                        | 2                    | †                        |                                    |                          |                    | 34           | 720.00   |                    |  |        |
|                          | SA650   | B   | 0.1          | Yes              | 21                    | 1.1V                       | Var.                       | 365                                     | 550                                     | 20-20                                    | AB                        | 2                    | †                        |                                    |                          |                    | 54           | 1100.00  |                    |  |        |
| SONIC FRONTIERS          | Triode Reference SFS-40                                   | B/T/M   |              | Yes              |                       |                            |                            | 125                                     | 125                                     | 20-20                                    | A/AB                      | 3                    | 220                      |                                    |                          |                    |              | 75       | 15,000.00          | Triode operation.  |        |
|                          | SFS-80  | B/T   |              | No               |                       | 800                        | No                         | 40                                      | 40                                      | 20-20                                    | AB1                       | 3                    | 100                      |                                    |                          |                    |              | 36       | 1695.00            | Adjustable bias; 3.5-, 8-, and 14.5-ohm taps.  |        |
|                          | SFM-160   | B/T/M   |              | No               |                       | 1.2V<br>1.4V               | No<br>No                   | 80<br>160                               | 80<br>160                               | 20-20<br>20-20                           | AB1<br>AB1                | 3<br>3               | 100<br>100               |                                    |                          |                    |              | 66<br>58 | 2895.00<br>5495.00 | As above.<br>Adjustable bias; 2-, 4.5-, and 8-ohm taps.  |        |
|                          | SFC-1   | I/T   |              | No               |                       | 400                        | No                         | 40                                      | 40                                      | 20-20                                    | AB1                       | 3                    | 50                       |                                    |                          |                    |              | 60       | 1795.00            | Adjustable bias; 6-ohm taps.   |        |
| SONOGRAPHE               | SA250   | B   | 1.0          | No               |                       |                            | No                         | 125                                     |   | 20-20                                    | AB                        |                      | 100                      |                                    |                          |                    |              | 40       | 995.00             |  |        |
| SONOGY                   | Cantata   | B   | 0.5          | No               | 50                    | 65                         | No                         | 100                                     | 200                                     | 20-20                                    | AB                        |                      | 100                      |                                    |                          |                    |              | 39       | 1995.00            | Bridgeable.  |        |
|                          | Cantata Balanced Monoblocks                               | B/M   | 0.5          | Yes              | 100                   | 110                        | No                         | 300                                     | 500                                     | 20-20                                    | AB                        |                      |                          |                                    |                          |                    |              | 39       | 1995.00            |  |        |
| SONYES                   | TA-N220   | B   | 0.1          |                  |                       |                            | No                         | 45                                      |   | 12-40                                    | AB                        |                      | 50                       |                                    |                          |                    |              | 20       | 360.00             |  |        |
|                          | TA-N55ES  | B   | 0.05         |                  |                       |                            | No                         | 110                                     |   | 5-50                                     | AB                        | 1.5                  | 20                       |                                    |                          |                    |              | 26       | 520.00             |  |        |
|                          | TA-N80ES  | B   | 0.006        | Yes              | 150                   | 1V                         | No                         | 200                                     | 270                                     | 10-100                                   | AB                        | 1.5                  | 30                       |                                    |                          |                    |              | 52       | 1250.00            |  |        |
|                          | TA-N90ES  | B   | 0.002        | Yes              |                       | 1.1V                       | No                         | 100                                     | 145                                     | 1-200                                    | AB                        | 1.7                  | 50                       |                                    |                          |                    |              | 20       | 2400.00            |  |        |
|                          | TA-F606ES(RI)   | I   | 0.008        | No               |                       | 150                        | No                         | 80                                      | 100                                     | 2-200                                    | AB                        |                      | 20                       |                                    |                          | 94                 | 2.5          | Yes      | 30                 |  | 700.00 |
|                          | TA-F707ES(RI)   | I   | 0.004        | No               |                       | 150                        | No                         | 90                                      | 120                                     | 2-200                                    | AB                        |                      | 20                       |                                    | 93                       | 2.5                | Yes          | 46       | 1200.00            |  |        |
|                          | TA-F808ES(RI)   | I   | 0.004        | No               |                       | 150                        | No                         | 100                                     | 130                                     | 2-200                                    | AB                        |                      | 20                       |                                    | 93                       | 2.5                | Yes          | 54       | 1700.00            |  |        |
| SOUNDOLIER               | ThundraPro CXA  | B/M   | 0.1          | No               |                       | 1V                         | Var.                       | 100                                     | 145                                     | 20-20                                    | B                         | 1.0                  |                          |                                    |                          |                    |              | 19       | 498.75             | Includes subwoofer crossover (see also "Crossovers"); input sensing.   |        |
| SOUNDSTREAM TECHNOLOGIES | DA2 THX   | B   | 0.03         | Yes              |                       | 1.4V                       | No                         | 200                                     | 350                                     | 20-20                                    | G                         |                      | 20                       |                                    |                          |                    |              | 11       | 1195.00            | THX certified; bridgeable. Bridgeable; operates into 1 ohm; separate power and preamp connections.   |        |
|                          | RA100MKII(RO)   | I   | 0.1          | Yes              |                       | 120                        | No                         | 35                                      | 50                                      | 20-20                                    | AB                        | 1.8                  | 20                       |                                    |                          |                    |              | 5        | 649.00             |  |        |
| SOUNDTECH                | Poweramp One  | B/T   | 0.5          | Opt.             | 25                    | 1.2V                       | No                         | 50                                      | 50                                      | 20-40                                    | A/AB                      |                      | 220                      |                                    |                          |                    |              | 60       | 2599.00            | Bridgeable.  |        |
| SOUND VALVES             | M40   | B/T/M   | 0.25         | No               |                       | 220                        | No                         | 40                                      | 40                                      | 10-75                                    | AB1                       | 1.2                  | 150                      |                                    |                          |                    |              | 20       | 549.00             | Adjustable bias; optional cover; kit, \$399.00 each. Bridgeable; adjustable bias; kit, \$699.00. Switchable to Class-A triode operation, 35 watts; adjustable bias; 2-, 4-, and 8-ohm taps.  |        |
|                          | VTA-70  | B/T   | 0.25         | No               |                       | 220                        | No                         | 35                                      | 35                                      | 10-50                                    | AB1                       | 1.2                  | 100                      |                                    |                          |                    |              | 32       | 849.00             |  |        |
|                          | M60   | B/T/M   | 0.10         | No               |                       | 200                        | No                         | 60                                      | 60                                      | 5-90                                     | AB1                       | 1.1                  | 300                      |                                    |                          |                    |              | 29       | 1299.00            |  |        |
| SPECTRAL AUDIO           | DMA-180 Reference   | B   | 0.01         | Yes              | 600                   | 200                        | No                         | 200                                     | 400                                     | 0-2M                                     | AB                        | 3                    | 100                      |                                    |                          |                    |              | 60       | 6995.00            | Bridgeable.  |        |
|                          | DMA-90  | B   | 0.01         | No               | 500                   | 200                        | No                         | 100                                     | 200                                     | 0-2M                                     | AB                        | 6                    | 10                       |                                    |                          |                    |              | 19       | 3195.00            |  |        |
|                          | DMA-150   | B   | 0.01         | Yes              | 600                   | 200                        | No                         | 150                                     | 300                                     | 0-2M                                     | AB                        | 3                    | 10                       |                                    |                          |                    |              | 54       |                    |  |        |
| SPECTRASCAN              | BPA-101B  | B   | 0.07         | No               | 40                    | 1V                         | No                         | 120                                     | 200                                     | 2-120                                    | AB                        | 1.5                  | 10                       |                                    |                          |                    |              | 40       | 1895.00            | Bridges to 350 watts into 8 ohms; regulated power supply.  |        |
| SPECTRUM ENERGETICS      | DMA 2001  | B   | 0.005        | No               | 60                    | 1.3V                       | No                         | 200                                     | 200                                     | 0.5-90                                   | AB                        |                      | 30                       |                                    |                          |                    |              | 17       | 2850.00            | Headphone distribution amp and mike preamp.  |        |
|                          | SA 1001   | B   | 0.005        | No               | 60                    | 1.3V                       | No                         | 125                                     | 125                                     | 0.5-90                                   | AB                        |                      | 30                       |                                    |                          |                    |              | 18       | 1595.00            |  |        |
| SPL                      | HDA4  | B   | 0.002        | Yes              |                       |                            | No                         |   |   | 20-22                                    | A                         |                      | 20                       |                                    |                          |                    |              | 5        |                    |  |        |
| SSI SURROUND SOUND       | Powerflex V   | B   | 0.05         | No               | 10                    | 450                        | No                         | †                                       |   | 20-20                                    |                           | 3                    | 20                       |                                    |                          |                    |              | 18       | 399.00             | †40 watts x 5.   |        |
| STAX                     | DMA-X2  | B/M   | 0.1          | Yes              | 70                    | 1V                         | No                         | 600                                     | 1100                                    | 0.8-220                                  | A                         |                      | †                        |                                    |                          |                    |              | 103      | 30,000.00          | †Balanced, 64 kilohms; unbalanced, 32 kilohms.   |        |
| SUMO                     | The Ten   | B   | 0.05         | Yes              | 110                   | 130                        | No                         | 100                                     | 200                                     | 20-20                                    | A                         | 2.5                  | 10                       |                                    |                          |                    |              | 75       | 2599.00            | Bridgeable. Bridges to 200 watts; no overall feedback. Balanced differential design; no overall feedback.  |        |
|                          | The Five  | B   | 0.05         | Yes              | 110                   | 130                        | No                         | 60                                      | 120                                     | 20-20                                    | A                         | 1.5                  | 10                       |                                    |                          |                    |              | 55       | 1699.00            |  |        |
|                          | Andromeda III   | B   | 0.05         | Yes              | 110                   | 130                        | No                         | 240                                     | 400                                     | 20-20                                    | A/AB                      | 1.5                  | 47                       |                                    |                          |                    |              | 55       | 1699.00            |  |        |
|                          | Polaris III   | B   | 0.05         | Yes              | 80                    | 130                        | No                         | 120                                     | 200                                     | 20-20                                    | A/AB                      | 1.5                  | 10                       |                                    |                          |                    |              | 30       | 849.00             |  |        |
| SUPERIOR AUDIO           | JX-12   | I   | 1            | No               | 12                    | 1.4V                       | No                         | 8                                       | 12                                      | 20-20                                    | B                         |                      | 50                       |                                    |                          |                    |              | 4        | 200.00             | D.C. and multi-voltage a.c. operation; volume and balance controls. As above; six inputs; bass and treble controls. Multi-voltage a.c. operation; volume and balance controls. As above; six inputs; bass and treble controls. As above. D.C. and multi-voltage a.c. operation; volume and balance controls. As above; six inputs; bass and treble controls. Multi-voltage a.c. operation; six inputs; volume, balance, bass, and treble controls. |        |
|                          | JX-13   | I   | 1            | No               | 12                    | 1.4V                       | No                         | 8                                       | 12                                      | 20-20                                    | B                         |                      | 50                       |                                    |                          |                    |              | 4        | 220.00             |  |        |
|                          | JX-14   | I   | 0.05         | No               | 14                    | 1.4V                       | No                         | 16                                      | 20                                      | 20-20                                    | B                         | 2                    | 50                       |                                    |                          |                    |              | 5        | 250.00             |  |        |
|                          | JX-15   | I   | 0.05         | No               | 14                    | 1.4V                       | No                         | 16                                      | 20                                      | 20-20                                    | B                         | 2                    | 50                       |                                    |                          |                    |              | 5        | 300.00             |  |        |
|                          | JX-16   | I   | 0.05         | No               | 14                    | 1.4V                       | No                         | 16                                      | 20                                      | 20-20                                    | AB                        | 2                    | 50                       |                                    | 85                       | 2.5                |              | 5        | 350.00             |  |        |
|                          | JX-17   | I   | 0.7          | No               | 14                    | 1.4V                       | No                         | 16                                      | 20                                      | 20-20                                    | H                         | 2                    | 50                       |                                    |                          |                    |              | 5        | 250.00             |  |        |
|                          | JX-18   | I   | 0.1          | No               | 14                    | 1.4V                       | No                         | 16                                      | 20                                      | 20-20                                    | H                         | 2                    | 50                       |                                    |                          |                    |              | 5        | 300.00             |  |        |
|                          | JX-19   | I   | 0.5          | No               | 14                    | 1.4V                       | No                         | 70                                      | 85                                      | 20-20                                    | AE                        | 2                    | 50                       |                                    | 85                       | 2.5                |              | 8        | 400.00             |  |        |
| SUTHERLAND               | A-1000  | B/M   | 0.1          | Opt.             |                       | 12V                        | No                         | 200                                     | 400                                     | 5-50                                     | AB                        |                      | 75                       |                                    |                          |                    |              | 90       | 18,000.00          | Pair   |        |
| SYMETRIX                 | 420   | B   | 0.4          | Yes              |                       | 550                        | No                         | 20                                      | 20                                      | 20-20                                    | AB                        |                      | 10                       |                                    |                          |                    |              | 8        | 369.00             |  |        |

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# AMPLIFIERS

| MANUFACTURER           | Model<br>(R) = Remote Included,<br>(RC) = Remote Optional | Type: Integrated = I, Basic-B,<br>Tubes = T, Hybrid = H, Mono = M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/μs | High-Level Sensitivity, mV | Does Unit Invert Polarity? | POWER AMP                               |   |  |                           | PREAMP               |                           |                                   |                          | Price, \$ | Notes                                  |                                     |                          |
|------------------------|---|---|--------------|------------------|-----------------------|----------------------------|----------------------------|---|---|--|---------------------------|----------------------|---------------------------|-----------------------------------|--------------------------|-----------|--|-------------------------------------|--------------------------|
|                        |   |   |              |                  |                       |                            |                            | Cont. Avg. Watts/Channel<br>into 8 Ohms | Cont. Avg. Watts/Channel<br>into 4 Ohms | Rated Full-Power Bandwidth,<br>Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, Kiloohms | MM Phono S/N, dB; X-wtd. re: 5 mV | MM Phono Sensitivity, mV |           |  | Moving Coil Input?                  | Weight, Lbs.             |
| SYMPHONIC LINE         | Kraft 250   | B/M   | 0.02         | Yes              | 120                   | 200                        | No                         | 250                                     | 500                                     | 1.5-1M                                   | A                         | 0.6                  | 47                        |                                   |                          | 550       | 25,000.00                              |                                     |                          |
|                        | Reference   | B   | 0.05         | No               | 70                    | 150                        | No                         | 100                                     | 200                                     | 10-400                                   | A/AB                      | 0.8                  | 50                        |                                   |                          | 60        | 3950.00                                |                                     |                          |
|                        | RG1 MKIII   | B/M   | 0.05         | Yes              | 70                    | 180                        | No                         | 150                                     | 300                                     | 1.5-600                                  | A/AB                      | 0.8                  | 50                        |                                   |                          | 120       | 9950.00                                |                                     |                          |
|                        | RG6   | B   | 0.05         | No               | 90                    | 150                        | No                         | 130                                     | 250                                     | 10-500                                   | A/AB                      | 0.8                  | 50                        |                                   |                          | 60        | 5600.00                                |                                     |                          |
|                        | RG9   | I   | 0.05         | No               | 70                    | 150                        | No                         | 90                                      | 160                                     | 10-300                                   | A/AB                      | 1.2                  | 50                        | 75                                | 2.5                      | Yes       | 45                                     | 3500.00                             | Separate preamp out.     |
| RG11                   | B   | 0.05  | No           | 70               | 150                   | No                         | 70                         | 130                                     | 10-300                                  | A/AB                                     | 1.2                       | 50                   |                           |                                   | 35                       | 2200.00   | Bridgeable.                            |                                     |                          |
| TEAC                   | A-X5030   | I   | 0.007        | No               | 150                   | 150                        | No                         | 75                                      | 100                                     | 20-20                                    |                           |                      | 47                        | 80                                | 2.5                      | Yes       | 23                                     | 450.00                              |                          |
|                        | A-X3030   | I   | 0.008        | No               | 150                   | 150                        | No                         | 60                                      | 75                                      | 20-20                                    |                           |                      | 47                        | 72                                | 2.5                      | No        | 20                                     | 380.00                              |                          |
|                        | A-X1030   | I   | 0.0085       | No               | 150                   | 150                        | No                         | 40                                      | 50                                      | 20-20                                    |                           |                      | 47                        | 72                                | 2.5                      | No        | 17                                     | 290.00                              |                          |
| TECHNICS               | SU-V660   | I   | 0.005        |                  | 100                   | 100                        | No                         | 90                                      | 110                                     | 20-20                                    | AA                        | 0.6                  | 47                        | 79                                | 0.25                     | Yes       | 25                                     | 429.95                              | Direct power amp inputs. |
|                        | SU-V460   | I   | 0.007        |                  | 130                   | 130                        | No                         | 50                                      | 60                                      | 20-20                                    | AA                        | 0.6                  | 47                        | 77                                | 0.35                     | No        | 18                                     | 329.95                              | As above.                |
| THRESHOLD              | T50   | B   | 0.1          | Yes              | 180                   |                            | No                         | 50                                      | 100                                     | 0-100                                    | A                         |                      | 47                        |                                   |                          |           | 2190.00                                |                                     |                          |
|                        | T100  | B   | 0.1          | Yes              | 180                   |                            | No                         | 60                                      | 120                                     | 0-100                                    | A                         |                      | 47                        |                                   |                          |           | 2850.00                                | Bridges to 180 watts.               |                          |
|                        | T200  | B   | 0.1          | Yes              | 180                   |                            | No                         | 100                                     | 200                                     | 0-100                                    | A                         |                      | 47                        |                                   |                          |           | 4200.00                                | Bridges to 330 watts.               |                          |
|                        | T400  | B   | 0.1          | Yes              | 180                   |                            | No                         | 150                                     | 300                                     | 0-100                                    | A                         |                      | 47                        |                                   |                          |           | 5250.00                                | Bridges to 450 watts.               |                          |
|                        | S550/e  | B   | 0.1          | Yes              | 50                    |                            | No                         | 250                                     | 500                                     | 0-100                                    | A                         |                      | 47                        |                                   |                          |           | 6300.00                                | Stasis design.                      |                          |
|                        | SA12/e  | B/M   | 0.1          | Yes              | 50                    |                            | No                         | 250                                     | 500                                     | 0-100                                    | A/AB                      |                      | 47                        |                                   |                          |           | 7200.00                                | As above.                           |                          |
| TIMES ONE              | RFM 800   | B   | 0.5          | Yes              | 130                   | 750                        | No                         | 200                                     | 400                                     | 13-250                                   | AB1                       | 3                    | 50                        |                                   |                          | 43        | 2450.00                                | Low-feedback design.                |                          |
|                        | RFS 400   | B   | 0.5          | Yes              | 130                   | 750                        | No                         | 125                                     | 250                                     | 13-200                                   | AB1                       | 3                    | 50                        |                                   |                          | 33        | 1980.00                                | As above.                           |                          |
|                        | PS 400  | B   | 0.1          | Yes              | 60                    | 1.2V                       | No                         | 100                                     | 200                                     | 5-75                                     | AB1                       | 1.1                  | 24                        |                                   |                          | 30        | 950.00                                 | Regulated power supply.             |                          |
|                        | PS 300  | B   | 0.1          | Yes              | 60                    | 1.2V                       | No                         | 100                                     | 200                                     | 5-75                                     | AB1                       | 1.4                  | 24                        |                                   |                          | 25        | 750.00                                 | As above.                           |                          |
|                        | THS-6   | B   | 0.1          | No               | 60                    | 1.2V                       | No                         | 60                                      | 60                                      | 5-75                                     | AB1                       | 1.4                  | 24                        |                                   |                          | 35        | 1450.00                                | Surround/multi-room amp;            |                          |
|                        |   |   |              |                  |                       |                            |                            |   |   |  |                           |                      |                           |                                   |                          |           |  | As above but five-channel           |                          |
|                        | THS-5   | B   | 0.1          | No               | 60                    | 1.2V                       | No                         | 100                                     | 110                                     | 5-75                                     | AB1                       | 1.0                  | 33                        |                                   |                          | 40        | 990.00                                 | operation.                          |                          |
| TUBE RESEARCH LABS     | GTPR800   | B/T/M   |              |                  |                       | 1V                         |                            | 800                                     | 800                                     |  | Var.                      |                      | 150                       |                                   |                          | 405       | 60,000.00                              | Triode operation; switchable to     |                          |
|                        | GTR800  | B/T/M   |              |                  |                       | 1V                         |                            | 800                                     | 800                                     |  | Var.                      |                      | 150                       |                                   |                          | 400       | 45,000.00                              | 1600-watt pentode operation.        |                          |
|                        | GTP400  | B/T/M   |              |                  |                       | 1V                         |                            | 400                                     | 400                                     |  | Var.                      |                      | 150                       |                                   |                          | 225       | 35,000.00                              | As above but switchable to          |                          |
|                        | GT400   | B/T/M   |              |                  |                       | 1V                         |                            | 400                                     | 400                                     |  | Var.                      |                      | 150                       |                                   |                          | 220       | 27,000.00                              | 800-watt pentode.                   |                          |
|                        | TR300   | B/T/M   |              |                  |                       | 1.4V                       |                            | 300                                     | 300                                     |  | Var.                      |                      | 270                       |                                   |                          | 130       | 15,000.00                              |                                     |                          |
| VAC                    | PA 80/80  | B/T   | 0.35         | No               |                       | 700                        | No                         | 80                                      | 80                                      | 7-100                                    | AB1                       |                      | 100                       |                                   |                          | 55        | 2490.00                                | Adjustable bias with front-panel    |                          |
|                        | PA 80/80I   | I/T   | 0.35         | No               |                       | 700                        | No                         | 80                                      | 80                                      | 7-100                                    | AB1                       |                      | 100                       |                                   |                          | 60        | 2890.00                                | indicators; operates into 2 ohms.   |                          |
|                        | PA 90C  | B/T/M   | 0.35         | Opt.             |                       | 700                        | No                         | 120                                     | 120                                     | 7-72                                     | A                         |                      | 100                       |                                   |                          | 140       | 6990.00                                | As above; three line inputs;        |                          |
|                        |   |   |              |                  |                       |                            |                            |   |   |  |                           |                      |                           |                                   |                          |           |  | one tape loop; passive controls.    |                          |
|                        | PA 160  | B/T/M   | 0.35         | Opt.             |                       | 700                        | No                         | 160                                     | 160                                     |  | AB1                       |                      | 100                       |                                   |                          | 100       | 4690.00                                | Triode switchable; variable         |                          |
|                        |   |   |              |                  |                       |                            |                            |   |   |  |                           |                      |                           |                                   |                          |           |  | feedback; operates into 2 ohms;     |                          |
|                        | PA 150 MkII   | B/T/M   | 0.35         | Opt.             |                       |                            | No                         | 155                                     | 155                                     | 8-85                                     | A                         |                      | 100                       |                                   |                          | 160       | 9500.00                                | optional balanced inputs, \$500.00. |                          |
|                        |   |   |              |                  |                       |                            |                            |   |   |  |                           |                      |                           |                                   |                          |           |  | Ultra-linear or triode switchable;  |                          |
| Renaissance 140 MkII   | B/T/M   | 0.7   | No           |                  | 500                   | No                         | 137                        | 137                                     | 8-50                                    | A  |                           | 100                  |                           |                                   | 260                      | 19,500.00 | adjustable bias with front-panel       |                                     |                          |
|                        |   |   |              |                  |                       |                            |                            |   |   |  |                           |                      |                           |                                   |                          |           |  | indicators; operates into 2 ohms.   |                          |
| Renaissance 70/70 MkII | B/T   | 0.7   | No           |                  | 500                   | No                         | 68                         | 68                                      | 8-85                                    | A  |                           | 100                  |                           |                                   | 130                      | 9800.00   | Triode switchable; variable            |                                     |                          |
| Renaissance 30/30      | B/T   | 0.12  | No           |                  | 500                   | No                         | 32                         | 32                                      | 8-85                                    | A  |                           | 100                  |                           |                                   | 110                      | 4990.00   | feedback. Triode tubes; zero feedback; |                                     |                          |
| J. C. VERDIER          | Le 210 Mk II  | B/T   | 0.4          | No               |                       |                            |                            | 10                                      | 10                                      | 20-60                                    | A                         |                      |                           |                                   |                          | 27        | 2200.00                                | As above; 16 power supplies.        |                          |
|                        | Le 220  | B/T   | 0.4          | No               |                       |                            |                            | 20                                      | 20                                      | 20-60                                    | A                         |                      |                           |                                   |                          | 27        | 2400.00                                |                                     |                          |
|                        | L'Audiobloc Mk II   | I/T   | 0.4          | No               |                       |                            |                            | 20                                      | 20                                      | 20-60                                    | A                         |                      |                           |                                   |                          | 31        | 3450.00                                | As above.                           |                          |
| VIRTUAL IMAGE          | StereoBloc Twenty Forty                                   | B/T   | 1            | No               |                       |                            | 1.3V                       | No                                      | 18                                      | 18                                       | 15-25                     | AB                   | 3                         | 51                                |                          | 38        | 4000.00                                | With line stage, \$2550.00.         |                          |
| VTL                    | ST-80   | B/T   | 1.0          | No               | 20                    | 1.4V                       | No                         | 80                                      | 80                                      | 20-30                                    | AB1                       | 1.3                  | 135                       |                                   |                          | 32        | 1590.00                                | Bridges to 36 watts; triode output; |                          |
|                        | ST-125  | B/T   | 1.0          | No               | 30                    | 1.4V                       | No                         | 125                                     | 125                                     | 20-40                                    | AB1                       | 1.3                  | 135                       |                                   |                          | 47        | 2690.00                                | adjustable negative feedback;       |                          |
|                        |   |   |              |                  |                       |                            |                            |   |   |  |                           |                      |                           |                                   |                          |           |  | 4-, 8-, and 16-ohm taps.            |                          |
|                        | MB-100  | B/T/M   | 1.0          | Opt.             | 20                    | 1.4V                       | No                         | 100                                     | 100                                     | 20-35                                    | AB1                       | 1.5                  | 135                       |                                   |                          | 34        | 2990.00                                | Switchable to 50-watt triode        |                          |
|                        |   |   |              |                  |                       |                            |                            |   |   |  |                           |                      |                           |                                   |                          |           |  | operation. As above.                |                          |
|                        | MB-150  | B/T/M   | 1.0          | Opt.             | 30                    | 1.4V                       | No                         | 140                                     | 140                                     | 15-40                                    | AB1                       | 1.5                  | 135                       |                                   |                          | 46        | 3990.00                                | As above but 60 watts.              |                          |
|                        | MB-25t  | B/T/M   | 1            | Opt.             | 20                    | 750                        | No                         | 25                                      | 25                                      | 25-18                                    | AB1                       | 1.0                  | 135                       |                                   |                          | 13        | 899.00                                 | Triode operation.                   |                          |
|                        | MB-225t   | B/T/M   | 1.0          | Opt.             | 30                    | 1.4V                       | No                         | 225                                     | 225                                     | 15-40                                    | AB1                       | 1.3                  | 135                       |                                   |                          | 60        | 4990.00                                | As above.                           |                          |
| MB-300                 | B/T/M   | 1.0   | Opt.         | 30               | 1.4V                  | No                         | 300                        | 300                                     | 15-40                                   | AB1                                      | 2.5                       | 135                  |                           |                                   | 75                       | 5990.00   | Switchable to 150-watt triode          |                                     |                          |
| MB-600 (Ichiban)       | B/T/M   | 1.0   | Opt.         | 30               | 1.4V                  | No                         | 600                        | 600                                     | 15-40                                   | AB1                                      | 2.2                       | 135                  |                           |                                   | 135                      | 11,990.00 | operation. As above but 300 watts.     |                                     |                          |
| WAAS AUDIO-DIGITAL     | 1200  | B/H   | 0.3          | Yes              | 15                    |                            | No                         | 200                                     | 200                                     | 3-40                                     | A                         | 2.0                  | 43                        |                                   |                          | 54        | 3400.00                                | Six-channel operation.              |                          |
|                        | 1400  | B/H   | 0.4          | Yes              |                       |                            | No                         | 700                                     | 700                                     | 3-35                                     | A                         | 1.5                  | 43                        |                                   |                          | 56        | 6000.00                                | Laser and fiber-optic volume        |                          |
|                        | 440   | B/H   | 0.4          | Yes              |                       |                            | No                         | 220                                     | 220                                     | 3-35                                     | A                         | 1.5                  | 43                        |                                   |                          | 45        | 2400.00                                | controls. As above.                 |                          |
| WAVELENGTH AUDIO       | Cardinal  | B/T/M   |              | Opt.             | 15                    | 1.1V                       | No                         | 7.5                                     | 7.5                                     | 15-35                                    | A                         |                      | 100                       |                                   |                          | 38        | 3950.00                                | Triode tubes.                       |                          |
|                        | Lambda Trumpet  | B/T   |              | No               | 20                    | 1V                         | No                         | 15                                      | 15                                      | 20-25                                    | AB                        |                      | 100                       |                                   |                          | 40        | 3500.00                                |                                     |                          |
|                        |   | B/T   |              | No               | 12                    | 1V                         | No                         | 3.5                                     | 3.5                                     | 15-50                                    | A                         |                      | 100                       |                                   |                          | 40        | 3250.00                                | Direct-coupled.                     |                          |

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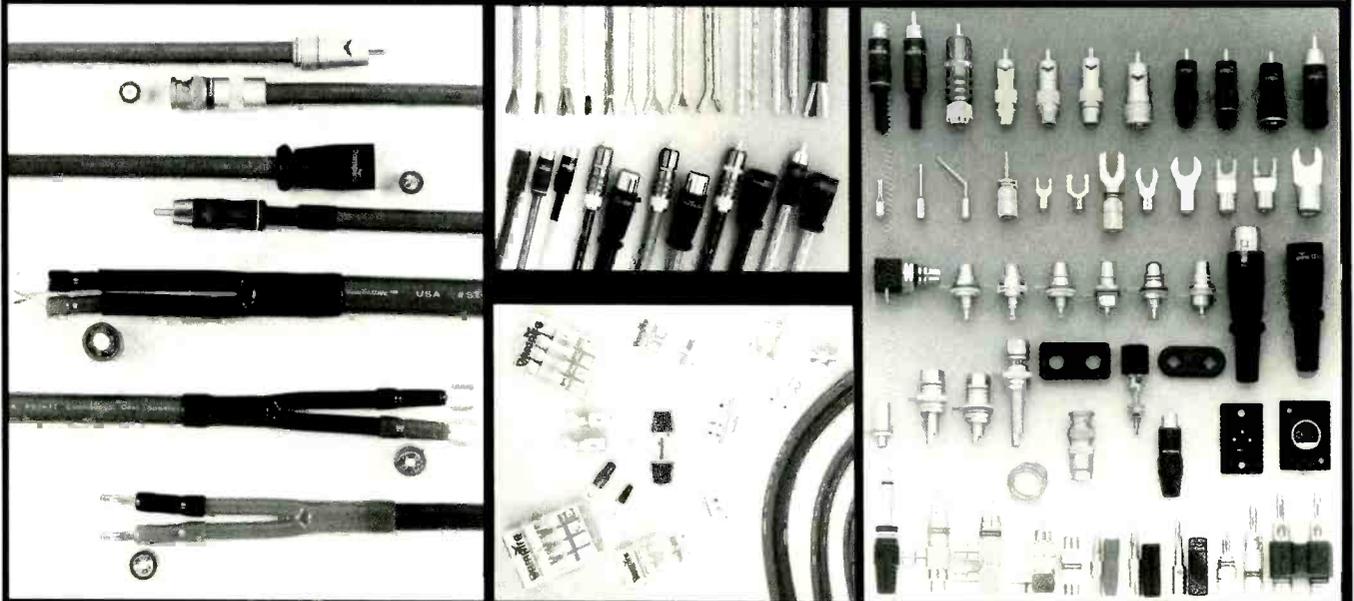
# AMPLIFIERS

| MANUFACTURER         | Model<br>(R) = Remote Included,<br>(RO) = Remote Optional | Type<br>Integrated = I, Basic = B,<br>Tubes = T, Hybrid = H, Mono = M | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/ $\mu$ S | High-Level Sensitivity, mV | Does Unit Invert Polarity? | POWER AMP                            |                                      |                                       |                           |                      |                          | PREAMP                              |                          | Price, \$         | Notes   |   |
|----------------------|---|---|--------------|------------------|-----------------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------|----------------------|--------------------------|-------------------------------------|--------------------------|-------------------|---|---|
|                      |   |   |              |                  |                             |                            |                            | Cont. Avg. Watts/Channel into 8 Ohms | Cont. Avg. Watts/Channel into 4 Ohms | Rated Full-Power Bandwidth, Hz to kHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, Kilohms | MM Phono S/N, dB: A = wtd. re: 5 mV | MM Phono Sensitivity, mV |                   |   | Moving Coil Input?  |
| WAVESTREAM KINETICS  | Triode-V8   | B/T/M   | No           | 7                | 1.5V                        | No                         | 300                        | 300                                  | 12-20<br>+0, -1                      | AB2                                   | 0.5                       | 100                  |                          |                                     | 110                      | 24,000.00<br>Pair | Triode operation, switchable to Class-A operation, 150 watts.   |   |
| WELBORNE LABS        | Laurel  | B/T   | No           |                  | 1.5V                        | No                         | 8                          | 8                                    | 20-20                                | A                                     |                           | 100                  |                          |                                     | 60                       | 2100.00           | Triode tubes; kit, \$1600.00.   |   |
|                      | Laurel II   | B/T/M   | No           |                  | 1.5V                        | No                         | 8                          | 8                                    | 20-20                                | A                                     |                           | 100                  |                          |                                     | 35                       | 2400.00<br>Pair   | Triode tubes; kit, \$1900.00 per pair.  |   |
|                      | VE-70   | B/T   | No           |                  | 1.5V                        | No                         | 35                         | 35                                   | 20-30                                | AB                                    |                           | 100                  |                          |                                     | 40                       | 1900.00           | Kit, \$1400.00.   |   |
| WHITE AUDIO LABS     | A250  | B   | 0.1          | Yes              | 80                          | 130                        | Yes                        | 250                                  | 500                                  | 0-100                                 | A/AB                      |                      | 47                       |                                     | 96                       | 3995.00           | Bridgeable.   |   |
|                      | A100  | B   | 0.1          | Yes              | 70                          | 130                        | Yes                        | 100                                  | 200                                  | 0-100                                 | A/AB                      |                      | 47                       |                                     | 66                       | 2995.00           | As above.   |   |
|                      | A50   | B   | 0.1          | Yes              | 50                          | 130                        | Yes                        | 50                                   | 100                                  | 0-100                                 | A                         |                      | 47                       |                                     | 42                       | 1999.00           | As above.   |   |
|                      | D35   | B/M   | 0.1          | Yes              | 50                          | 130                        | Yes                        | 35                                   | 65                                   | 0-100                                 | AB                        |                      | 47                       |                                     | 10                       | 899.00<br>Pair    |   |   |
| WIN RESEARCH         | SW-10   | B/T/M   | 0.2          | Yes              | 20                          | 150                        | No                         | †                                    |                                      | 20-50                                 | A                         | 1                    | 250                      |                                     | 75                       | 5800.00<br>Pair   | Bi-amplifier. †Low-frequency output channel, 150 watts; high-frequency, 75 watts. Plug-in crossover modules at 1.5, 2, and 3 kHz. |   |
| WOLCOTT AUDIO        | P220M   | B/T/M   | 0.01         | No               |                             | 1.5V                       | No                         | 175                                  | 220                                  | 20-20                                 | AB                        | 1.0                  | 50                       |                                     | 60                       | 6995.00<br>Pair   | Microprocessor-controlled bias.   |   |
| WOODSIDE/<br>RADFORD | STA 35  | B/T   | 0.2          | No               | 15                          | 750                        | No                         | 40                                   | 50                                   | 12-48                                 | AB1                       | 1.6                  | 100                      |                                     | 38                       | 2395.00           | Peak current, 12 amps.  |   |
|                      | STA 50  | B/T   | 0.2          | No               | 15                          | 750                        | No                         | 50                                   | 70                                   | 8-60                                  | A/AB1                     | 1.6                  | 100                      |                                     | 38                       | 2595.00           |   |   |
|                      | MA 50   | B/T/M   | 0.2          | No               | 15                          | 750                        | No                         | 50                                   | 75                                   | 8-56                                  | A                         | 1.6                  | 100                      |                                     | 38                       | 4495.00           | Peak current, 15 amps; self-biasing output tubes.   |   |
|                      | MA 100  | B/T/M   | 0.2          | No               | 15                          | 750                        | No                         | 100                                  | 125                                  | 8-60                                  | A/AB1                     | 1.6                  | 100                      |                                     | 38                       | 4895.00           |   |   |
|                      | SA 240  | B/T   | 0.2          | No               | 15                          | 750                        | No                         | 30                                   | 40                                   | 12-45                                 | A/AB1                     | 1.6                  | 100                      |                                     | 25                       | 1795.00           |   |   |
| ISA 230P             | †   | 0.2   | No           | 15               |                             |                            | 25                         | 30                                   | 12-45                                | A/AB1                                 | 1.6                       |                      | 80                       | 3                                   | No                       | 26                | 1995.00   | †Line stage, tube; phono stage, hybrid. Without phono, ISA 230L, \$1795.00. |



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# AMPLIFIERS

| MANUFACTURER     | Model<br>(R) = Remote Included,<br>(RO) = Remote Optional | Type (Integrated = I, Basic = B,<br>Tubes = T, Hybrid = H, Mono = M) | Rated THD, % | Balanced Inputs? | Rated Slew Rate, V/ $\mu$ S | High-Level Sensitivity, mV | Does Unit Invert Polarity? | POWER AMP                               |   |  |                           | PREAMP               |                          |                                     |                          | Price \$ | Notes |                    |   |
|------------------|---|--|--------------|------------------|-----------------------------|----------------------------|----------------------------|---|---|--|---------------------------|----------------------|--------------------------|-------------------------------------|--------------------------|----------|-------|--------------------|---|
|                  |   |  |              |                  |                             |                            |                            | Cont. Avg. Watts/Channel<br>into 8 Ohms | Cont. Avg. Watts/Channel<br>into 4 Ohms | Rated Full-Power Bandwidth,<br>Hz to KHz | Class of Output Operation | Dynamic Headroom, dB | Input Impedance, Kilohms | MM Phono S/N, dB; A = Wtd. re: 5 mV | MM Phono Sensitivity, mV |          |       | Moving Coil Input? | Weight, Lbs.  |
| WRIGHT AUDIO     | 120 M   | B/T/M  | 1.0          | No               | 30                          | 1V                         | No                         | 120                                     | 120                                     | 20-30                                    | AB1                       | 1.3                  | 250                      |                                     |                          |          | 43    | 1250.00            | Accepts five output tube types; triode switchable. As above; tone controls.   |
|                  | Theatre Amplifier   | I/T/M  | 1.0          | No               | 30                          | 100                        | No                         | 120                                     | 120                                     | 20-30                                    | AB1                       | 1.3                  | 100                      |                                     |                          |          | 45    | 1450.00            |   |
| YAMAHA           | MX-1  | B  | 0.09         | No               |                             | 1.5V                       | No                         | 200                                     | 260                                     | 20-20                                    | A                         | 1.5                  | 20                       |                                     |                          |          | 53    | 1199.00            | 320 watts into 2 ohms.<br>230 watts into 2 ohms.<br>160 watts into 6 ohms.<br>120 watts into 6 ohms.<br>75 watts into 6 ohms.   |
|                  | MX-2  | B  | 0.09         | No               |                             | 1.3V                       | No                         | 150                                     | 190                                     | 20-20                                    | A                         | 1.0                  | 20                       |                                     |                          |          | 43    | 899.00             |   |
|                  | MX-630  | B  | 0.003        | No               |                             | 1.1V                       | No                         | 135                                     | 190                                     | 20-20                                    | A                         | 2.1                  | 60                       |                                     |                          |          | 29    | 499.00             |   |
|                  | AX-570  | I  | 0.015        | No               |                             | 150                        | No                         | 100                                     |   | 20-20                                    | AB                        |                      | 47                       | 92                                  | 2.5                      | Yes      | 24    | 499.00             |   |
|                  | AX-470  | I  | 0.015        | No               |                             | 150                        | No                         | 65                                      |   | 20-20                                    | AB                        |                      | 47                       | 88                                  | 2.5                      | No       | 21    | 399.00             |   |
| YAMAMURA SYSTEMS | Mono Balanced   | B/M  |              | Yes              |                             |                            | No                         |   |   |  | B                         | 0.6                  |                          |                                     |                          |          | 66    | 13,500.            |   |
|                  | Stereo  | B  |              | Yes              |                             |                            | No                         |   |   |  | B                         | 0.6                  |                          |                                     |                          |          | 66    | 6500.00            |   |
| YBA              | 1A  | B  | 0.09         | Opt.             |                             |                            |                            | 85                                      | 170                                     |  |                           |                      | 27                       |                                     |                          |          | 46    | 6000.00            | High-current version available; optional MC phono module. As above; dual-transformer version available. Dual-transformer version available; optional MC phono module. Optional MC phono module. Two- and four-chassis versions available. |
|                  | 2A  | B  | 0.09         | Opt.             |                             |                            |                            | 70                                      | 140                                     |  |                           |                      | 27                       |                                     |                          |          | 26    | 3100.00            |   |
|                  | 3A  | B  | 0.06         | Opt.             |                             |                            |                            | 45                                      | 90                                      |  |                           |                      | 27                       |                                     |                          |          | 13    | 1800.00            |   |
|                  | Integr  Signature   | I  | 0.09         | Opt.             |                             |                            |                            | 50                                      | 90                                      |  |                           |                      | 47                       |                                     |                          |          | 15    | 1850.00            |   |
|                  |   | B  |              | Opt.             |                             |                            |                            | 100                                     | 200                                     |  |                           |                      | 27                       |                                     |                          |          | 53    | 11,000.            |   |
| THE ZEUS PROJECT | Sunfire   | B  | 0.05         | Yes              | 100                         | 1.6V                       | No                         | 300                                     | 600                                     | 20-20                                    |                           | 1                    | 500                      |                                     |                          |          | 35    | 2000.00            | Dual outputs for bi-wiring; can operate as voltage or current source.   |



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# PREAMPLIFIERS

| MANUFACTURER                  | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | Circuitry: Solid State = S,<br>Tube = T, Hybrid = H, Passive = P | Stages: MM Phono = MM,<br>MC Phono = MC,<br>Line or High Level = L,<br>D/A Conversion = ? | Frequency Response,<br>Hz to kHz, ±dB | Maximum Output, V rms         | THD, %     | Balanced Inputs = I,<br>Balanced Outputs = O | High-Level Sensitivity, mV | No. of Tape & Processor Loops | Number of Tone Controls | Does Unit Invert Polarity? | PHONO STAGE  |  |  | Price, \$ | Notes              |   |
|-------------------------------|--|--|---|---------------------------------------|-------------------------------|------------|--|----------------------------|-------------------------------|-------------------------|----------------------------|--|--|--|-----------|--------------------|---|
|                               |  |  |   |                                       |                               |            |  |                            |                               |                         |                            | MM Phono Sensitivity, mV,<br>for 0.5 V Output at 1 kHz | MM Phono S/N, dB,<br>"A" Wid. re: 5 mV | MC Phono S/N, dB,<br>"A" Wid. re: 0.5 mV |           |                    |   |
| ACCPHASE                      | C-290  | S  | MM/MC/L   | No                                    | 20-20 +0.0-0.2                | 9.5        | 0.005  | I/O                        | 252                           | 2                       | 0                          | No   | 2.0                                    | 94                                       | 80        | 19,820.            | Without phono stage, \$16,495.  |
|                               | C-250<br>AD-250  | S  | L<br>MM/MC  | No                                    | 1-600 +0.0-3.0                | 7          | 0.005  | I/O                        | 252                           | 2                       | 0                          | No   | 2                                      | 88                                       | 85        |                    | For model above.  |
| ACURUS                        | RL 11(RI)  | S  | L   | No                                    | 20-20 +0.0-0.1                | 8          | 0.05   |                            | 60                            | 2                       | 0                          | No   |  |  |           | 795.00             | Discrete Class A; laser-trimmed volume and balance controls.  |
|                               | L10<br>P10   | S  | L<br>MM/MC  | No                                    | 20-20 +0.0-0.15<br>20-20 ±0.3 | 8<br>8     | 0.06<br>0.06                                 |                            | 60                            | 2                       | 0                          | No   | 2.4                                    | 80                                       |           | 595.00<br>395.00   | As above.<br>Discrete Class A; selectable gain and loading.   |
| ADCOM                         | GFP-565  | S  | MM/L  | No                                    | 10-50 ±0.2                    | 10         | 0.003  |                            | 52                            | 3                       | 2                          | No   | 0.55                                   | 90                                       |           | 850.00             | Tuner/preamp/surround (see also "Tuners" and "Surround Processors").<br>As above; video switching.<br>Tuner/preamp (see also "Tuners").<br>As above.<br>Five-room, multi-source switcher.   |
|                               | GFP-555II  | S  | MM/L  | No                                    | 10-50 ±0.3                    | 10         | 0.005  |                            | 52                            | 3                       | 2                          | No   | 0.55                                   | 85                                       |           | 500.00             |   |
|                               | GTP-550(RI)  | S  | L   | No                                    | 20-20 +0.0-0.5                | 10         | 0.005  |                            | 153                           | 4                       | 2                          | No   |  |  |           | 800.00             |   |
|                               | GTP-600(RI)  | S  | L   | No                                    | 20-20 +0.0-0.5                | 10         | 0.009  |                            | 153                           | 4                       | 2                          | No   |  |  |           | 1000.00            |   |
|                               | GTP-450(RI)  | S  | L   | No                                    | 10-50 ±0.5                    | 8          | 0.009  |                            | 256                           | 3                       | 2                          | No   |  |  |           | 480.00             |   |
|                               | GTP-350<br>GFB-800(RI)                                     | S  | L<br>MM/L   | No                                    | 10-40 ±0.5<br>10-50 ±0.5      | 8<br>7.5   | 0.009<br>0.03                                |                            | 256<br>76                     | 1<br>2                  | 2<br>0                     | No   | 0.8                                    | 81                                       |           | 350.00<br>800.00   |   |
| A/D/S/                        | SC6(RO)  | S  | L   | No                                    | 20-20 ±0.5                    | 5          | 0.01   |                            | 250                           | 6                       | 2                          | No   |  |  |           | 2899.00            | Six-room, eight-source controller; for use with CP6 keypad control panels.  |
| AIR TIGHT                     | ATC-1  | T  | MM/L  | No                                    | 5-100 ±0.01                   | 15         | 0.02   |                            | 150                           | 2                       | 0                          | No   | 1.80                                   | 85                                       |           | 3400.00            |   |
|                               | ATC-2  | T  | L   | No                                    | 5-100 ±0.01                   | 15         | 0.01   |                            | 110                           | 2                       | 0                          | No   |  |  |           | 5350.00            |   |
|                               | ATL-10A  | P  | L   | No                                    |                               |            |  |                            | 1                             | 0                       | No                         |  |  |  | 1995.00   |                    |   |
| AMC                           | CVT1030  | T  | MM/MC/L   | Opt.                                  | 4-80 +0.0-3                   | 20         | 0.03   |                            | 150                           | 1                       | 2                          |  | 2.3                                    | 79                                       |           | 599.95             | Optional tube sockets and balanced out.   |
|                               | CVT1100(RI)  | H  | MM/L  | No                                    | 20-20 +0.0-0.5                | 30         | 1  |                            | 150                           | 2                       | 2                          | No   | 1.3                                    | 79                                       |           | 499.95             | A/V switching.  |
|                               | AV81(RI)   | S  | L   | No                                    | 20-20 +0.0-0.5                | 8.5        | 0.02   |                            | 150                           | 4                       | 2                          | No   |  |  |           | 749.95             | As above; Dolby Pro Logic.  |
|                               | AV81HT(RI)   | S  | L   | No                                    | 20-20 +0.0-0.5                | 8.5        | 0.02   |                            | 150                           | 4                       | 2                          | No   |  |  |           | 999.95             | As above; THX certified; electronic crossover.  |
|                               | AV81THX(RI)  | S  | L   | No                                    | 20-20 +0.0-0.5                | 8.5        | 0.02   |                            | 150                           | 4                       | 2                          | No   |  |  |           | 999.95             | External power supply; d.c. coupled. External power supply.   |
| AMERICAN HYBRID TECHNOLOGY    | AHT/P  | S  | MM/MC   |                                       | 1-50 ±0.1                     | 15         | 0.015  |                            |                               |                         |                            | No   | Sel.                                   | 98                                       |           | 2500.00            | As above; optional balanced out; d.c. coupled.  |
|                               | AHT/P  | S  | MM/MC   |                                       | 1-60 ±0.05                    | 20         | 0.015  |                            |                               |                         |                            | No   | Sel.                                   | 98                                       |           | 5500.00            |   |
|                               | Nonsignature AHT/H   | S  | L   |                                       | 1-1M ±1                       |            | 0.015  |                            | 1                             | 0                       | No                         |  |  |  |           | 3300.00            |   |
| ANODYNE GROUP                 | ALS-1<br>Linstage  | H  | L   | No                                    | 10-50 +0.1-0.5                | 20         | 0.07   | 0                          | 200                           |                         |                            | Yes  |  |  |           | 999.00             |   |
|                               |  | H  | L   | No                                    |                               | 40         | 0.03   | 0                          | 100                           |                         |                            | Sel.   |  |  |           | 1900.00            |   |
| AR                            | Limited Preamp 2   | S  | L   | No                                    | 1-200 ±0.5                    | 20         | 0.002  | I/O                        | 140                           | 0                       | 0                          | Sel.   |  |  |           | 2200.00            |   |
| ARAGON                        | Aurum  | S  | L   | No                                    | 20-20 +0.0-0.1                | 16         | 0.03   | 0                          | 75                            | 2                       | 0                          | No   |  |  |           | 1750.00            | Discrete Class A; includes external power supply; direct-coupled.   |
|                               | 18K  | S  | L   | No                                    | 20-20 +0.0-0.1                | 8          | 0.04   |                            | 65                            | 2                       | 0                          | No   |  |  |           | 995.00             | As above.   |
|                               | 47K  | S  | MM/MC   | No                                    | 20-20 ±0.3                    | 8          |  |                            | 65                            | 2                       | 0                          | No   | 2.4                                    | 86                                       |           | 595.00             | Discrete Class A; selectable gain and loading; includes external power supply; optional high-storage supply, \$250.00.  |
| ARCAM                         | Delta 110  | S  | MM/MC/L   | Yes                                   | 20-20 ±0.5                    | 8          | 0.01   | No                         | 100                           | 2                       | 0                          | No   |  | 75                                       |           | 1500.00            | Without D/A conversion, Delta 110S, \$1100.00.  |
| YAKOV ARONOV AUDIO LABORATORY | PY-100<br>PY-200   | T  | MM/MC/L   |                                       | 10-100<br>10-100              | 4.2<br>4.2 | 0.25<br>0.25                                 |                            | 250<br>250                    | 2<br>2                  |                            |  |  |  |           | 2850.00<br>2000.00 |   |
| ART AUDIO                     | Art Audio  | T  | MM/L  | No                                    | 10-50 ±0.5                    | 10         | 0.05   |                            | 180                           | 2                       | 0                          | No   |  | 82                                       |           | 1495.00            | Active/passive switch.  |
| ATMA-SPHERE MUSIC SYSTEMS     | MP-1   | T  | MM/MC/L   | No                                    | 1-400 ±0.5                    | 18†        |  | I/O                        | 200                           | 2                       | 0                          | Sel.   | 0.12                                   | 90                                       | 72        | 6800.00            | †Into 600 ohms. External power supply; internally balanced; no negative feedback; stepped volume control; custom options available.   |
|                               | MLS-1  | T  | L   | No                                    | 1-400 ±0.5                    | 18†        |  | I/O                        | 200                           | 2                       | 0                          | Sel.   |  |  |           | 3800.00            | As above but internal power supply.   |
|                               | P-2  | T  | MM/MC/L   | No                                    | 2-80                          | 18†        |  | I/O                        | 100                           | 2                       | 0                          | Sel.   | 0.12                                   | 87                                       | 69        | 2990.00            | Internally balanced; no negative feedback; stepped volume control; custom options available.  |
|                               | MP-2   | T  | MM/MC/L   | No                                    | 1-400                         | 25†        |  | I/O                        | 200                           | 2                       | 0                          | Sel.   | 0.09                                   | 95                                       | 75        | 14,200.            | As above; external power supply; multiple paralleled tubes.   |
| AUDIBLE ILLUSIONS             | Modulus 3A   | T  | MM/L  | Opt.                                  | 5-100 ±1                      | 80         | 0.15   |                            | 50                            | 1                       |                            | Yes  | 1.00                                   | 75                                       |           | 1795.00            | External power supply; optional MC input.   |
|                               | Modulus L1   | H  | L   | Opt.                                  | 5-100 ±1                      | 80         | 0.15   |                            | 50                            | 1                       |                            | Yes  |  |  |           | 1295.00            | External power supply.  |
|                               | Modulus 4P   | H  | MC  | Opt.                                  | 5-100 ±3                      | 40         | 0.02   |                            |                               |                         |                            | No   |  | 85                                       |           | 1995.00            | As above; variable MC loading.  |
| AUDIOACCESS                   | PX-6(RO)   | S  | L   | No                                    | 10-25 ±0.1                    | 6          | 0.002  | No                         |                               | 1                       | 2                          | No   |  |  |           | 1100.00            | Preamp/controller; expandable to multi-source, multi-zone use; requires infrared or hard-wired source-controller interface; optional wall-mounted keypads and speaker-relay module; without front-panel controls, PX-6S, \$1000.00. |
|                               | PX-600(RO)   | S  | L   | No                                    | 20-25 ±0.5                    | 3.5        | 0.05   | No                         |                               | 0                       | 12                         | No   |  |  |           |                    | Six-zone preamp/controller; optional wall-mounted keypads.  |
| AUDIO ADVANCEMENTS            | PreMax   | T  | L   |                                       | 2-100 +0.0-3                  | 15         | 0.01   | Var.                       |                               | 1                       | 0                          | No   |  |  |           | 2950.00            | Optional plug-in MM phono stage, \$650.00.  |
| AUTO ALCHEMY                  | DLC(RI)  | S  | L   | No                                    | 20-150 ±0.1                   | 2.9        | 0.001  |                            |                               | 0                       | 0                          | No   |  |  |           | 459.00             | Digitally controlled; external power supply.  |
|                               | VAC-in-the-Box   | S  | MM/MC   |                                       | 20-20 ±0.1                    | 2.5        | 0.01   |                            |                               |                         |                            |  | 86                                     | 74                                       |           | 299.00             | External power supply; selectable phono gain, input resistance, and capacitance.  |
| AUDIO BY VAN ALSTINE          | Omega II   | S  | MM/L  | No                                    | 12-40 ±0.2                    | 12         | 0.004  |                            | 50                            | 2                       | 0                          | No   | 0.7                                    | 78                                       |           | 445.00             | With balanced outputs, \$520.00.<br>Kit, \$495.00.<br>Kit, \$795.00.<br>Kit, \$595.00.  |
|                               | Super Pas 3i   | T  | MM/L  | No                                    | 10-40 ±0.2                    | 10         | 0.004  |                            | 50                            | 2                       | 0                          | No   | 0.6                                    | 74                                       |           | 695.00             |   |
|                               | Super Pas 4i   | H  | MM/L  | No                                    | 10-40 ±0.2                    | 11         | 0.003  |                            | 50                            | 2                       | 0                          | No   | 0.6                                    | 74                                       |           | 795.00             |   |
|                               | FET Valve  | H  | MM/L  | No                                    | 10-40 ±0.1                    | 15         | 0.001  |                            | 50                            | 3                       | 2                          | No   | 0.7                                    | 82                                       |           | 1195.00            |   |

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# PREAMPLIFIERS

| MANUFACTURER            | Model<br>(RO)=Remote Included,<br>(R)=Remote Optional | Circuitry: Solid State=S,<br>Tube=T, Hybrid=H, Passive=P | Stages: MM Phono=MM,<br>MC Phono=MC,<br>Line or High Level=L | D/A Conversion? | Frequency Response,<br>Hz to kHz, ±dB | Maximum Output, V rms | THD, % | Balanced Inputs=I,<br>Balanced Outputs=O | High-Level Sensitivity, mV | No. of Taps & Processor Loops | Number of Tone Controls | Does Unit Invert Polarity? | PHONO STAGE  |  |  | Price, \$  | Notes  |
|-------------------------|---|--|--|-----------------|---------------------------------------|-----------------------|--------|--|----------------------------|-------------------------------|-------------------------|----------------------------|--|--|--|--|--|
|                         |   |  |  |                 |                                       |                       |        |  |                            |                               |                         |                            | MM Phono Sensitivity, mV,<br>for 0.5 V Output at 1 kHz | MM Phono S/N, dB,<br>"A" Wid. re: 5 mV | MC Phono S/N, dB,<br>"A" Wid. re: 0.5 mV |  |  |
| AUDIO DESIGN ASSOCIATES | CR-8P(RO)   |  | L  | No              | 20-20 ±0.25                           |                       | 0.05   |  |                            | 2                             | No                      |                            |  |  | 1299.00                                  | For multi-room System Omega; without front-panel controls, CR-P, \$950.00.   |  |
|                         | ADP-8   |  | L  | No              | 20-20 ±0.25                           | 5                     | 0.05   |  | 1                          | 3                             | No                      |                            |  |  | 1199.00                                  |  |  |
|                         | DSP-8(RO)   |  | L  | No              | 20-20 ±0.25                           | 5                     | 0.007  |  | 4                          | 3                             | No                      |                            |  |  | 1499.00                                  | Multi-room preamp.   |  |
|                         | CPC-8(RO)   |  | L  | No              | 20-20 ±0.25                           | 5                     | 0.007  |  |                            |                               | No                      |                            |  |  | 14,000.                                  | 8 x 8 multi-room, multi-source switcher.   |  |
|                         | Delta-3   | S  | L  | No              | 15-100 +3,-6                          | 6                     | 0.03   | No                                       |                            | 9                             |                         |                            |  |  | 1999.00                                  | 8-in, 3-out A/V matrix switching; 12-character display labelling.  |  |
| AUDIO INNOVATIONS       | L1  | T  | L  | No              | 9-100 ±3                              |                       |        |  | 170                        | 1                             | 0                       |                            |  |  | 550.00                                   | Selectable high- and low-level outputs.  |  |
|                         | L2  | T  | L  | No              | 9-100 ±3                              |                       |        |  | 170                        | 2                             | 0                       |                            |  |  | 1099.00                                  | As above; buffered tape outputs.   |  |
|                         | S200  | T/P  | MM/MC/L  | No              |                                       |                       |        |  | 2                          | 2                             | 0                       |                            |  |  | 600.00                                   | Passive line section.  |  |
|                         | P2MC  | T  | MC   | No              |                                       |                       |        |  | 2                          | 2                             | 0                       |                            |  |  | 1650.00                                  |  |  |
| AUDIOLAB                | 8000C MK II   | S  | MM/MC/L  | No              | 20-20 +0.5                            | 7.8                   | 0.01   |  | 100                        | 2                             | 2                       | No                         | 2  | 81                                     | 77                                       | 750.00   |  |
|                         | 8000PPA   | S  | MM/MC  | No              | 10-20 ±0.2                            | 10                    |        |  |                            |                               |                         |                            |  |  | 1250.00                                  |  |  |
| AUDIO NOTE              | M1-Phono  | T  | MM/L   | No              |                                       | 32                    |        |  | 125                        | 1                             | 0                       | No                         | 1.2  |  | 1495.00                                  | Zero feedback; two outputs; without phono stage, M1-Line, \$995.00.  |  |
|                         | M2-Phono  | T  | MM/L   | No              |                                       | 32                    |        |  | 125                        | 1                             | 0                       | No                         | 1.2  |  | 2795.00                                  | Zero feedback; two outputs; without phono stage, M2-Line, \$1795.00.   |  |
|                         | M2-Phono/Signature                                    | T  | MM/L   | No              |                                       | 32                    |        |  | 125                        | 1                             | 0                       | No                         | 1.2  |  | 3995.00                                  | Zero feedback; two outputs; without phono stage, M2-Line/Signature, \$2595.00.   |  |
|                         | M3-Phono  | T  | MM/L   | No              |                                       | 32                    |        |  | 125                        | 0                             | No                      | 1.2                        |  |  | 5795.00                                  | Zero feedback; two outputs; mono power supplies; without phono stage, M3-Line, \$3995.00.  |  |
|                         | M7-Tube   | T  | MM/L   | No              |                                       | 40                    | 0      | 250                                      | 1                          | 0                             | No                      | 1.0                        |  |  | 14,800.                                  | Without phono stage, M7-Line, \$8500.00.   |  |
|                         | M7-Tube/Silver  | T  | MM/L   | No              |                                       | 40                    | 0      | 250                                      | 1                          | 0                             | No                      | 1.0                        |  |  | 21,000.                                  | Without phono stage, M7-Line/S, \$11,800.  |  |
|                         | M7-Phono  | T  | MM   |                 |                                       | 25                    | 0      |  |                            |                               |                         | No                         | 1.0  |  | 19,900.                                  | For Audio Note Ongaku amp.   |  |
| AUDIOPRISM              | Mantissa  | T  | MM/MC/L  | No              | 5-150 +0,-0.5                         | 20                    | 0.05   | No                                       | 150                        | 1                             | 0                       | Yes                        | 7  | 70                                     | 65                                       | 2394.95  | External power supply; without phono board, \$1895.00. |
|                         | Mantissa Reference RIAA Phono Amp                     | T  | MM/MC  | No              | 20-20 +0,-0.1                         | 5                     | 0.05   | No                                       |                            |                               |                         | No                         | 7  | 70                                     | 65                                       | 1895.00  | External power supply.                                 |
| AUDIO RESEARCH          | LS-5 MKII(RO)   | T  | L  | No              | 1-100 ±0.5                            | 50                    | 0.01   | I/O                                      | 1                          | 0                             | No                      |                            |  |  | 4995.00                                  |  |  |
|                         | LS-7  | T  | L  | No              | 1-100 ±0.5                            | 25                    | 0.01   | I/O                                      | 1                          | 0                             | No                      |                            |  |  | 1395.00                                  |  |  |
|                         | LS-2B MKII(RO)  | H  | L  | No              | 1-100 ±0.5                            | †                     | 0.01   | I/O                                      | 1                          | 0                             | No                      |                            |  |  | 2995.00                                  | †Unbalanced, 30 V; balanced, 60 V. Without balanced input, LS2 MKII, \$2650.00.  |  |
|                         | LS-3(RO)  | S  | L  | No              | 1-200 ±3                              | 35                    | 0.01   |  | 1                          | 0                             | No                      |                            |  |  | 1695.00                                  |  |  |
|                         | LS-3B(RO)   | S  | L  | No              | 1-200 ±1                              | †                     | 0.01   | 0  | 1                          | 0                             | No                      |                            |  |  | 1995.00                                  | †Unbalanced, 35 V; balanced, 75 V.   |  |
|                         | SP9 MKII(RO)  | H  | MM/MC/L  | No              | 5-50 ±0.5                             | 50                    | 0.01   |  | 2                          | 0                             | No                      | 0.25                       | 92   | 72                                     | 2495.00                                  |  |  |
| PH-1                    | S   | MM/MC  | No   | 0.5-150 ±3      | 50                                    | 0.005                 |        |  |                            | No                            | 2                       | 92                         | 72   | 1495.00                                |  |  |  |
|                         | PH-2  | S  | MM/MC  | No              | 0.5-150 ±3                            | 90                    | 0.005  | I/O                                      |                            |                               | No                      | 2                          | 92   | 72                                     | 2495.00                                  |  |  |
| AUDIO "78"/OWL          | Owl 1   | S  | MM/L   | No              | 20-20                                 | 5                     | 0.35   |  | 300                        |                               |                         |                            | 3  |  | 389.00                                   | Mono; for replay of 78s, mono LPs, and transcriptions; normal and hill-and-dale modes; monitors right and/or left groove walls; selectable turnover and roll-off with or without RIAA EQ; external power supply (see also "Equalizers"). |  |
| AUDIOSOURCE             | Pre-One   | S  | MM/MC/L  | No              | 10-100 ±0.5                           | 11.5                  | 0.008  | No                                       | 120                        | 2                             | 3                       | No                         | 2.5  | 85                                     | 70                                       | 249.95   |  |
| AUDIO SYNTHESIS         | Passion V   | S/P  | L  | No              | 1-200                                 |                       | 0.002  | I/O                                      | 1                          | 0                             | No                      |                            |  |  | 1795.00                                  |  |  |
|                         | Passion   | S/P  | L  | No              | 1-200                                 |                       | 0.002  |  | 1                          | 0                             | No                      |                            |  |  | 1095.00                                  | 31-step attenuators.   |  |
|                         | Pro Passion   | S/P  | L  | No              | 1-200                                 |                       | 0.002  |  | 0                          | 0                             | No                      |                            |  |  | 950.00                                   |  |  |
| AUDIRE                  | Andante   | S  | MM/MC/L  | No              | 5-100 +0,-0.2                         | 12                    | 0.005  |  | 100                        | 2                             | 4                       | †                          | 1.00   | 90                                     | 80                                       | 1903.00  | †Inverts polarity only in MC stage.                    |
|                         | Diffet 3  | S  | MM/L   | No              | 5-100 +0,-0.25                        | 15                    | 0.005  |  | 100                        | 2                             | 0                       | No                         | 1.00   | 86                                     | 75                                       | 1000.00  |  |
|                         | Legato  | S  | MM/L   | No              | 5-100 +0,-0.25                        | 10                    | 0.01   |  | 100                        | 2                             | 0                       | No                         | 1.00   | 86                                     | 75                                       | 587.00   |  |
| BEL CANTO DESIGN        | Tosca   | S  | L  | No              | 1-100 +0,-0.5                         | 15                    | 0.01   | I/O                                      | 150                        | 1                             | 0                       | No                         |  |  | 1390.00                                  |  |  |
|                         | Fidelio   | S  | MM/MC  | No              | 1-100 ±0.15                           | 15                    | 0.01   | I/O                                      |                            |                               |                         | No                         | 5  | 85                                     | 75                                       | 1090.00  | Version available with low-noise, high-gain MC stage.  |
| BENZ-MICRO              | PP-1  | S  | MC   |                 |                                       |                       |        |  |                            |                               | No                      |                            |  | 82                                     | 1200.00                                  | Includes external power transformer; 10-Hz rumble filter.  |  |
| B & K COMPONENTS        | CS-115  | S  | MM/L   | No              | 5-100 +0,-0.5                         | 9                     | 0.02   | 0  | 70                         | 1                             | 0                       | No                         | 1.3  | 82                                     | 348.00                                   |  |  |
|                         | CS-117  | S  | MM/L   | No              | 5-100 +0,-0.5                         | 9                     | 0.02   | 0  | 70                         | 1                             | 2                       | No                         | 1.3  | 82                                     | 398.00                                   |  |  |
|                         | PRO-10MC  | S  | MM/MC/L  | No              | 1-150 +0,-0.5                         | 14                    | 0.02   | 0  | 45                         | 1                             | 0                       | No                         | 0.8  | 82                                     | 798.00                                   | External power supply.   |  |
|                         | AVP1000(RI)   | S  | L  | No              | 1-150 +0,-0.5                         | 9                     | 0.02   | 0  | 62                         | 2                             | 0                       | No                         |  |  | 798.00                                   | A/V tuner/preamp (see also "Tuners"); optional surround board, \$200.00 (see also "Surround Processors"); four video inputs; d.c. coupled.   |  |
|                         | AVP2000(RI)   | S  | L  | No              | 1-150 +0,-0.5                         | 9                     | 0.02   | 0  | 62                         | 2                             | 0                       | No                         |  |  | 798.00                                   | Two-zone A/V preamp; optional surround board, \$200.00 (see also "Surround Processors"); four S-video inputs; d.c. coupled.  |  |
|                         | AVP3000(RI)   | S  | L  | No              | 1-150 +0,-0.5                         | 9                     | 0.02   | 0  | 62                         | 2                             | 0                       | No                         |  |  | 1498.00                                  | Two-zone preamp; includes cinema surround board (see also "Surround Processors").  |  |
| BOULDER AMPLIFIERS      | L3AE  | S  | L  | No              | 20-20 +0,-0.05                        | 24                    | 0.003  | 0  | 60                         | 1                             | 0                       | No                         | 2.5  |  | 2125.00                                  |  |  |
|                         | L3PP  | S  | MM   |                 |                                       |                       |        |  |                            |                               |                         |                            |  |  | 850.00                                   | For model above.   |  |
|                         | L3MC  | S  | MC   |                 |                                       |                       |        |  |                            |                               |                         |                            |  |  | 600.00                                   | For L3PP; sensitivity, 0.25 mV.  |  |
|                         | L5AE  | S  | L  | No              | 20-20 +0,-0.05                        | 24                    | 0.015  | I/O                                      | 60                         | 2                             | 0                       | Sel.                       |  |  | 3575.00                                  | Black finish; with metal finish, L5M, \$4000.00.   |  |
| BRYSTON                 | 4B  | S  | L  | No              |                                       | 15                    | 0.005  |  | 500                        | 1                             | 0                       | No                         |  |  | 750.00                                   | Optional balanced out.   |  |
|                         | BP-5  | S  | MM/L   | No              |                                       | 15                    | 0.005  |  | 500                        | 1                             | 0                       | Yes                        |  |  | 895.00                                   | As above.  |  |
|                         | BP-20(RO)   | S  | L  | No              |                                       | 15                    | 0.0025 | I/O                                      | 500                        | 1                             | 0                       | No                         |  |  | 1395.00                                  | With MM/MC phono stage, BP-20P.  |  |
|                         | BP-1  | S  | MM   |                 |                                       |                       |        |  | 500                        | 1                             | 0                       | No                         |  |  | 750.00                                   |  |  |

# PREAMPLIFIERS

| MANUFACTURER                | Model (R) = Remote Included, (RO) = Remote Optional                      | Circuitry: Solid State=S, Tube=T, Hybrid=H, Passive=P | Stages: MM Phono=MM, MC Phono=MC, Line or High L, Level=L | D/A Conversion?                  | Frequency Response, Hz to kHz, ±dB  | Maximum Output, V rms             | THD, %                                       | Balanced Inputs=L, Balanced Outputs=O | High-Level Sensitivity, mV | No. of Tape & Processor Loops | Number of Tone Controls                | Does Unit Invert Polarity?      | PHONO STAGE   |  |   | Price, \$  | Notes |
|-----------------------------|--|---|---|----------------------------------|---|-----------------------------------|--|---------------------------------------|----------------------------|-------------------------------|--|---------------------------------|---|--|---|--|-------|
|                             |  |   |   |                                  |   |                                   |  |                                       |                            |                               |  |                                 | MM Phono Sensitivity, mV, for 0.5 V Output at 1 kHz | MM Phono S/N, dB, "A" Wid. re: 5 mV                            | MC Phono S/N, dB, "A" Wid. re: 0.5 mV   |  |       |
| CALRAD                      | 80-575   | S   | MM/MC/L   |                                  | 20-20   |                                   | 0.003  | 180                                   | 0                          | 0                             | No                                     | 2                               | 80  | 75   | 98.00   | External power supply; wall-mount version available.   |       |
| CAMBRIDGE AUDIO             | C70(RO)<br>C100(RO)  | H<br>H  | MM/MC/L<br>MM/MC/L  | No<br>No                         | 10-140<br>5-130   | 0.9<br>1                          |  | 300<br>300                            | 2<br>2                     | 2<br>0                        | No<br>No                               | 4.5<br>4.5                      | 80<br>80  | 75<br>75   | 499.95<br>699.95  |  |       |
| CARVER                      | C-20V(RI)<br>C-15V(RI)<br>CT-27V(RI)<br>CT-29V(RI)<br>CT-23(RI)          | S<br>S<br>S<br>S<br>S                                 | L<br>MM/L<br>MM/L<br>MM/L<br>MM/L                         | No<br>No<br>No<br>No<br>No       | 20-20 ±0.5<br>20-20 ±0.5<br>20-20 ±0.5<br>20-20 ±0.5<br>20-20 ±0.5          | 7<br>7<br>7<br>7<br>7             | 0.01<br>0.01<br>0.01<br>0.01<br>0.01         | 75<br>55<br>57<br>57<br>57            | 4<br>5<br>7<br>7<br>4      | 0<br>3<br>3<br>3<br>2         | No<br>No<br>No<br>No<br>No             | 1.0<br>1.0<br>1.0<br>1.0<br>1.0 | 78<br>78<br>78<br>78<br>78                          | 1000.00<br>800.00<br>850.00<br>1200.00<br>650.00               | Dolby Pro Logic (see also "Surround Processors"). As above; multi-room input with independent volume control; center-channel gain control. Tuner/preamp/surround (see also "Tuners" and "Surround Processors"); Dolby Pro Logic; center-channel gain control. As above; multi-room input with independent volume control. Tuner/preamp (see also "Tuners"); Sonic Holography. |  |       |
| CARY AUDIO DESIGN           | SLP-30<br>SLP-90<br>PH-300<br>LPP-1                                      | T<br>T<br>S<br>T                                      | L<br>MM/L<br>MM/MC<br>MM                                  | No<br>No<br>No<br>No             | 9-260<br>9-300<br>20-20<br>20-20 ±0.5                                       | 20<br>25<br>8<br>1.5              |  | No<br>No<br>0<br>No                   | 100<br>100                 | 1<br>0                        | Yes<br>No                              | 1.2<br>1.5                      | 80<br>78  | 78<br>78   | 995.00<br>2295.00<br>1495.00<br>399.00  | Without phono stage, SLP-90L (optional balanced out), \$1895.00. External power supply; optional 24-karat gold front plate and knobs, \$399.00.  |       |
| CASCADE AUDIO SYSTEMS       | SMP-2.1<br>SMP-2.18  | S<br>S  | MC<br>MC  |                                  | 5-100 +0, -0.6<br>5-100 +0, -0.6  |                                   | 0.007<br>0.007                               |                                       |                            |                               | Yes<br>Yes                             |                                 | 82<br>82  | 82<br>82   | 449.00<br>519.00  | Three gain settings.<br>Eight gain settings.   |       |
| CELESTE                     | P-4001   | S   | MM or MC/L  | No                               | 10-250 +0, -0.5   | 8                                 | 0.05   | 200                                   | 2                          | 0                             | No                                     | 2.0                             | 81  | 70   | 1320.00   | Class-A output; no negative feedback; optional balanced output; without phono, \$995.00.   |       |
| CELLO LTD.                  | Audio Suite<br>Encore Line<br>Palette                                    | S<br>S<br>S   | †<br>L<br>L   | No<br>No<br>No                   | 20-20 ±0.2<br>20-20 ±0.2<br>20-20 ±0.2                                      | 12<br>12<br>9                     | 0.005<br>0.005<br>0.005                      | †<br>I/O<br>O                         | †<br>2<br>2                | 0<br>0<br>6                   | No<br>No<br>No                         |                                 | 70<br>65  | †<br>8000.00<br>6500.00  | †Modular design; choice of line, MM, and MC modules; from \$6650.00 to \$18,000. Includes external power supply; optional external MM or MC phono stage, 80-dB S/N, \$2000.00. As above (see also "Equalizers").  |  |       |
| CHASE TECHNOLOGIES          | RLC-1(RI)  | S   | L   | No                               | 20-20 +0, -0.1  | 5.7                               | 0.05   |                                       |                            | 2                             | No                                     |                                 |   |  | 125.00  | Adds remote-control capability to any preamp.  |       |
| CLASSE AUDIO                | 30(RI)<br>4(RO)<br>5(RO)<br>6(RO)  | S<br>S<br>S<br>S                                      | MM/MC/L<br>MM/MC/L<br>MM/MC/L<br>MM/MC/L                  | No<br>No<br>No<br>No             | 20-20<br>20-20<br>20-20<br>20-20  | 15<br>20<br>24<br>24              | 0.01<br>0.01<br>0.01<br>0.01                 | I/O<br>I/O<br>I/O<br>I/O              | 120<br>120<br>120<br>120   | 1<br>1<br>0<br>0              | 0<br>0<br>0<br>0                       | 3<br>3<br>3<br>3                | 80<br>80<br>85<br>85                                | 80<br>80<br>80<br>80   | 1195.00<br>1595.00<br>2295.00<br>3295.00  | Without phono stage, 4L, \$1495.00. Without phono stage, 5L, \$2100.00. External power supply; without phono stage, 6L, \$2995.00.   |       |
| CODA TECHNOLOGIES           | FET 02B<br>FET 03P<br>FET 01<br>Continuum(RI)                            | S<br>S<br>S<br>S                                      | L<br>MM/MC<br>MM/MC/L<br>MM/MC/L                          | No<br>No<br>No<br>No             | 0-200 +0, -3<br>0-200 +0, -3<br>0-200 +0, -3<br>0-200 +0, -3                | 10<br>10<br>10<br>10              | 0.01<br>0.01<br>0.01<br>0.01                 | I/O<br>†<br>I/O<br>I/O                | 200<br>200<br>200<br>200   | 1<br>2<br>2<br>2              | 0<br>0<br>0<br>0                       | SeL<br>SeL<br>No<br>No          | 10<br>10  | 87<br>82<br>85   | 1950.00<br>1950.00<br>2750.00<br>1250.00  | †Balanced MC in, balanced MM and MC out. Without phono stage, \$2450.00.   |       |
| CONRAD-JOHNSON              | PF2<br>PV10A<br>PV12<br>Premier Ten<br>Evolution 20SE<br>Premier Seven B | S<br>T<br>T<br>T<br>T<br>T                            | MM/MC/L<br>MM/MC/L<br>MM/MC/L<br>L<br>MM/MC/L<br>MM/MC/L  | No<br>No<br>No<br>No<br>No<br>No | 2-75 +0, -1   | 10<br>20<br>20<br>10<br>10<br>10  |  |                                       | 1<br>1<br>1<br>2<br>2<br>2 | 0<br>0<br>0<br>0<br>0<br>0    | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes |                                 |   | 1795.00<br>1195.00<br>2395.00<br>3495.00<br>5995.00<br>9995.00 | Without phono, PF2L, \$1395.00. Without phono, PV10AL, \$995.00. Without phono, PV12L, \$1795.00.   |  |       |
| CONVERGENT AUDIO TECHNOLOGY | SL1<br>SL1L  | T<br>T  | MM/MC/L<br>L  | No<br>No                         | 0.1-600<br>0.1-600  | 50<br>50                          | 0.005<br>0.005                               | 25<br>†                               | 1<br>1                     | 0<br>0                        | No<br>No                               | 0.1                             | 96<br>76  | 76   |   | External power supply; stepped attenuator. External power supply; stepped attenuator with optional, low-gain taper; 125 or 40 mV; set by dealer.   |       |
| COUNTERPOINT                | SA2000<br>Solid 8<br>SA1000<br>SA3000<br>SA5000<br>HC818(RI)             | H<br>S<br>H<br>H<br>H<br>S                            | L<br>L<br>MM/MC/L<br>MM/MC/L<br>MM/MC/L<br>L              | No<br>No<br>No<br>No<br>No<br>No | 2-300 ±0.01<br>1-500 ±0.1<br>2-30 ±0.1<br>2-300 ±0.1<br>1-500 ±0.1<br>1-120 | 80<br>20<br>70<br>80<br>100<br>20 | 0.01<br>0.03<br>0.17<br>0.01<br>0.01<br>0.03 | 24<br>24<br>24<br>24<br>24<br>24      | 2<br>2<br>0<br>2<br>2<br>2 | 0<br>0<br>0<br>0<br>0<br>0    | No<br>No<br>No<br>No<br>No<br>No       | 0.5<br>0.5<br>0.5               | 68<br>76<br>81<br>71                                | 81<br>71   | 1595.00<br>1095.00<br>1095.00<br>1995.00<br>3595.00<br>1595.00  | Optional balanced input. As above. As above; auto mute. External transformer; optional balanced input. External tube power supply; optional balanced input. Two-zone controller; for home theater; motor-driven potentiometers; optional balanced input. |       |
| CREDO                       | CMP004<br>CMP005(RI)   | S<br>S  | L<br>MM/MC/L  | No<br>No                         | 5-200<br>5-200  | 10<br>10                          | 0.001<br>0.001                               | 150<br>150                            | 1<br>1                     | 0<br>0                        | No<br>No                               | 1.5                             | 85<br>75  | 75   | 1800.00<br>2300.00  |  |       |
| CREEK                       | P42  | S   | L   | No                               | 0-35  |                                   | 0.01   |                                       |                            | 2                             | 0                                      | No                              |   |  | 495.00  | Outputs allow using two or more stereo amps as bridged mono; optional additional gain stages for biamping or triamping; optional phono boards (\$50.00 for MM, \$95.00 for MC).  |       |
| CROSBY AUDIO WORKS          | CAW-10ZVP-DMC-10   | S   | MM/MC/L   |                                  | 2-100 ±0.5  | 10                                |  | 100                                   | 1                          | 0                             | No                                     | 1.5                             | 90  |  | 3495.00   | Modification to customer-supplied Spectral Audio DMC-10 preamp.  |       |
| CROWN                       | PSL-2  | S   | MM/L  | No                               | 20-20 ±0.1  | 10                                | 0.009  | No                                    | 2                          | 2                             | No                                     |                                 | 87†   |  | 795.00  | 1Re: 10 mV.  |       |
| CURCIO AUDIO ENGINEERING    | MP-567<br>Daniel II  | T<br>H  | MM/L<br>MM/MC/L   | No<br>No                         | 15-160 ±0.1<br>10-400 ±0.1  | 130<br>150                        | 0.035<br>0.008                               | 150<br>150                            | 1<br>1                     | 0<br>0                        | No<br>No                               | 1.58<br>0.56                    | 73<br>82  | 73   | 950.00<br>2900.00   | Kit, \$430.00. Kit, \$1200.00; without phono, Daniel II Line, \$2500.00 (kit, \$1000.00).  |       |
| DB SYSTEMS                  | DB-1B/2A<br>DBR-15B/2A   | S<br>S  | MM/L<br>MM/L  | No<br>No                         | 20-20 ±0.04<br>20-20 ±0.04  | 9<br>9                            | 0.008<br>0.008                               | 120<br>120                            | 1<br>1                     | 0<br>6                        | Var.<br>Var.                           | 0.9<br>0.9                      | 77<br>77  |  | 740.00<br>1265.00   | Includes external power supply. As above; without oak cabinet, \$1115.00.  |       |

(Continued)

# All tube. All affordable. All yours.

If you appreciate the natural-sounding reproduction of music made possible by vacuum-tube technology—but were afraid of the hassles and the prohibitive price—have we got news for you. Audio Research, the 25-year leader in vacuum-tube technology dedicated to music reproduction, has made a vacuum-tube music system more affordable than ever. It's the New LS7 stereo line preamplifier and VT60 stereo power amplifier, both featuring new, all-tube circuits that deliver rich, satisfying sound and world-renowned Audio Research construction. Two down-to-earth audio components that are capable of truly out-of-this-world performance.



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# 'Tis a gift to be simple...and musical!



The secret? A simple, purist approach to vacuum-tube circuit design while eliminating seldom-used features. Thus the LS7 uses four 6922 dual triodes in a single-ended gain stage, with 12 dB of overall gain, and a regulated power supply; control functions include on/off, mute, gain adjustment and input selection. Component integrity and quality of construction are equivalent to the best in the industry. Five single-ended input sources are accommodated, with one set of single-ended main outputs and one set of fixed-level tape outputs.

The VT60, meanwhile, delivers a solid 50 watts per channel from two matched pair of 6550 output tubes, with rugged 6922 triodes used for the input stage and drivers. A well-regulated power supply rated at 184 joules of energy storage gives the VT60 surprising dynamics and bass response into 4, 8 or 16-ohm speaker loads. Inputs are single-ended. And, the compact dimensions of the VT60 put it right at home on a shelf or in a cabinet.

Individually, the LS7 and VT60 are capable of startling levels of musical resolution; used together, they comprise a system wondrously capable of conveying musical truth and coherence. They will easily keep pace as you improve other components of your audio system—input sources, loudspeakers, wire. In fact, you will likely never outgrow their capabilities. And you'll certainly never regret their affordable price.

## LS7 SPECIFICATIONS

**FREQUENCY RESPONSE:**  $\pm 5$ dB, 1.0Hz to 100kHz-3dB points below 0.1Hz and above 300kHz.

**DISTORTION:** Less than .01% at 2V RMS output. (Typically .005% in midband)

**GAIN:** Main Output – 13dB unbalanced.  
Tape output – 0dB.

**INPUT IMPEDANCE:** 100K ohms. Inputs (5): tape, tuner, CD, video, aux.

**OUTPUT IMPEDANCE:** 200 ohms main output. Recommended load 60K ohms and 100pF (20K ohms minimum and 1000pF maximum).

**MAXIMUM INPUT:** 20V maximum.

**RATED OUTPUTS:** 2V RMS 1Hz to 100kHz, all outputs, 60K ohm load (maximum output 25V RMS at 1/2% THD at 1kHz into 100K ohms.)

**CONTROLS:** Gain, input selector. Toggle switches: power/off, mute/operate.

**POWER SUPPLIES:** Electronically-regulated low and high voltage supplies. Line regulation better than .01%.

**NOISE:** 15uV RMS maximum IHF weighted noise at main output with gain control minimum (more than 102dB below 2V RMS output).

**TUBE COMPLEMENT:** (4)-6922/E88cc dual triode. Solid-state power supply.

**POWER REQUIREMENTS:** 100-135VAC 60Hz (200-270VAC 50/60Hz) 25 watts maximum.

**DIMENSIONS:** 19" (48 cm) W x 5 1/4" (13.4 cm) H (standard rack panel) x 10 1/4" (26 cm) D Handles extend 1 1/2" (3.8 cm) forward of front panel. Rear chassis fittings extend 1/2" (1.3 cm).

**WEIGHT:** 9.8 lbs. (4.5 kg) Net; 18.8 lbs. (8.5 kg) Shipping.

Specifications subject to change without notice.

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## VT60 SPECIFICATIONS

**POWER OUTPUT:** 50 watts per channel continuous from 20Hz to 20kHz. 1kHz total harmonic distortion typically 1% at 50 watts, below .05% at 1 watt.

Approximate actual power available at "clipping" 52 watts (1kHz). (Note that actual power output is dependent upon both line voltage and "condition" i.e.: if power line has high distortion, maximum power will be affected adversely, although from a listening standpoint this is not very critical.)

**POWER BANDWIDTH:** (-3dB Points) 15Hz to 40kHz.

**FREQUENCY RESPONSE:** (-3dB Points at 1 watt) 3Hz to 40 kHz.

**INPUT SENSITIVITY:** 1.05V RMS for rated output.

**INPUT IMPEDANCE:** 100K ohms unbalanced.

**OUTPUT REGULATION:** Approximately 0.6dB 16 ohm load to open circuit (Damping factor approximately 14).

**OVERALL NEGATIVE FEEDBACK:** 19dB.

**SLEW RATE:** 7 volts/microsecond.

**RISE TIME:** 10 microseconds.

**HUM & NOISE:** Less than 0.5mV RMS – 95dB below rated output (IHF weighted, input shorted).

**POWER SUPPLY ENERGY STORAGE:** Approximately, 184 joules.

**POWER REQUIREMENTS:** 105-125VAC 60Hz (210-250VAC 50Hz) 265 watts at rated output, 300 watts maximum, 175 watts at "idle".

**TUBES REQUIRED:** 2 – Matched pair 6550B – Power Output; 2 – 6922 Driver; 1 – 6922 input.

**DIMENSIONS:** 14" (35.6 cm) W x 7" (17.8cm) H x 13.3" (33.8 cm) D. Output connectors extend 1" (2.5 cm) to the rear.

**WEIGHT:** 32.7 lbs. (14.9 kg) Net; 48 lbs. (21.8 kg) Shipping.

## Three Year Limited Warranty

These Audio Research products are backed by a 3 year Limited Warranty: Vacuum tubes are warranted against defects for 90 days. For one year from date of purchase, Audio Research pays round-trip freight charges on any equipment requiring warranty services at the factory. See your authorized Audio Research dealer for details.

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# PREAMPLIFIERS

| MANUFACTURER                       | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | S       | L               | No       | Frequency Response,<br>Hz to kHz, ±dB | Maximum Output, V rms | THD, %         | Balanced Inputs=L,<br>Balanced Outputs=O | High-Level Sensitivity, mV | No. of Tape & Processor Loops | Number of Tone Controls | Does Unit Invert Polarity? | PHONO STAGE  |  |  | Price, \$  | Notes  |
|------------------------------------|--|---------|-----------------|----------|---------------------------------------|-----------------------|----------------|--|----------------------------|-------------------------------|-------------------------|----------------------------|--|--|--|--|--|
|                                    |  |         |                 |          |                                       |                       |                |  |                            |                               |                         |                            | MM Phono Sensitivity, mV,<br>for 0.5 V Output at 1 kHz | MM Phono S/N, dB,<br>"A" Wid. re: 5 mV | MC Phono S/N, dB,<br>"A" Wid. re: 0.5 mV |  |  |
| DB SYSTEMS<br>(Continued)          | DB-1B-HL/2A  | S       | L               | No       | 10-50 ±0.1                            | 9                     | 0.008          |  | 120                        | 1                             | 0                       | Var.                       | 0.9  | 76                                     | 80                                       | 620.00<br>205.00<br>150.00                                       | Includes external power supply.<br>Requires DB-2A power supply.<br>Wall-mount transformer.   |
|                                    | DB-4B  | S       | MC              |          | 10-100 ±0.1                           | 2                     | 0.008          |  |                            |                               |                         | No                         |  |  |  |  |  |
|                                    | DB-8   | S       | MM              |          | 20-20 ±0.04                           | 4                     | 0.01           |  |                            |                               |                         | No                         |  |  |  |  |  |
| DENNESEN                           | JC80MKII   | S       | MM/MC/L         | No       |                                       | 18                    | 0.005          | 0  | 100                        | 2                             | 0                       | Yes                        | 2  | 100                                    |  | 6500.00<br>Pair  | Mono; external power supply.   |
|                                    | JS90   | S       | L               | No       |                                       | 18                    | 0.005          | 0  | 100                        | 2                             | 0                       | Yes                        |  |  |  | 3200.00  | External power supply.   |
| DENON                              | AVP-5000(RI)   | S       | L               | Yes      | †                                     |                       | 0.005          |  |                            | 4                             | 3                       |                            |  |  |  | 2500.00  | Includes two DSP processors for<br>parametric EQ and A/V surround<br>modes (see also "Surround Sound<br>Processors"); two A/D and six<br>D/A converters; coaxial and<br>optical digital inputs. †Analog, 10 Hz<br>to 100 kHz, +0.3 dB; digital, 20 Hz<br>to 20 kHz, ±0.5 dB. |
|                                    | PRA-1500(RI)   | S       | MM/MC/L         | No       | 1-300 +0.2,-3                         | 10                    | 0.003          | 0  | 150                        | 2                             | 2                       |                            | 2.5  | 96                                     | 79                                       | 500.00   | Two video inputs, one video output;<br>mono full-range and mono<br>subwoofer outputs.  |
|                                    | HMA-500  | S       | L               |          | 20-20 +0,-3                           |                       |                |  | 500                        | 0                             | 0                       |                            |  |  |  | 500.00   | A/V karaoke preamp, three mike<br>four audio, and four video inputs;<br>DSP circuit; mike/line mixing.   |
| DGX AUDIO                          | DDP-1  | S       | L               | Yes      | 20-20 ±0.1                            | 3                     | 0.01           |  | 300                        | 1                             | 0                       | No                         |  |  |  | 995.00   | Includes processing for loudspeaker<br>correction (see also "Signal<br>Processors"); digital output.   |
| DPA DIGITAL                        | DSP 200 S  | S       | L               | No       | 10-28 ±1                              | 2                     | 0.005          |  | 250                        | 1                             | 0                       | No                         |  |  |  | 895.00   |  |
| DUSON                              | C-100  | S       | L               | No       | 2-120 ±3                              | 20                    |                |  | 150                        | 2                             | 0                       | No                         |  |  |  | 1550.00  |  |
|                                    | C-1000   | S       | MM/MC/L         | No       | 2-140 ±3                              | 24                    |                |  | 150                        | 2                             | 0                       | No                         | 2.0  | 70                                     | 68                                       | 2100.00  |  |
| DYNACO                             | PAS-4  | T       | MM/L            | No       | 2-150 +0,-3                           | 40                    | 0.025          | No                                       | 250                        |                               |                         |                            | 1.5  |  |  | From<br>999.00   | Separate power supply.   |
|                                    | PAT-5<br>Series II(RI)                                     | S       | L               | No       | 2-200 +0,-3                           | 13                    | 0.002          | No                                       | 50                         |                               |                         | †                          |  |  | 750.00                                   | †Inverting and noninverting main<br>outputs.                     |  |
|                                    | PAT-6(RI)  | S       | L               | No       | 8-170 +0,-3                           | 5                     | 0.02           |  | 50                         |                               |                         |                            |  |  | 500.00                                   | Tuner/preamp.  |  |
| EAGLE                              | 2020   | S       | L               | No       | 0.1-200                               | 12                    | 0.025          | No                                       |                            | 1                             | 0                       | No                         |  |  |  | 995.00   | Output, 5 V rms into 50 ohms;<br>external power supply.  |
| EDGE<br>ELECTRONICS                | P-1  | S/P     | L               | No       | 5-50                                  | 15                    | 0.005          | I/O                                      |                            | 1                             | 0                       | No                         |  |  |  | 299.00   |  |
|                                    | P-1R(RI)   | S/P     | L               | No       | 5-50                                  | 15                    | 0.005          | I/O                                      |                            | 2                             | 0                       | No                         |  |  |  | 425.00   |  |
| EIDOLON<br>RESEARCH                | Salesia<br>Julia   | T       | MM/L<br>MM/MC/L | No       | 0.5-150 +0,-1.5<br>0.1-200 +0,-1.5    | 70<br>85              | 0.01<br>0.01   |  | Sel.<br>Sel.               | 2<br>2                        | 0<br>0                  | Yes<br>Var.                | 1.45<br>1.45   | 78<br>79                               | 65                                       | 1200.00<br>4300.00   | Passive and active RIAA.   |
| ELECTRO-<br>COMPANET               | EC-3MC   | S       | MC/L            | No       | 20-150                                | 3                     | 0.001          | I/O                                      | 500                        | 1                             | 0                       | No                         |  |  |  | 1999.00  | Two tape outs; without phono, EC-4,<br>\$1499.00.  |
|                                    | EC-3MM<br>ECP-1  | S<br>S  | MM/L<br>MM/MC   | No       | 20-150<br>20-150                      | 3                     | 0.001<br>0.001 | I/O                                      | 500                        | 1                             | 0                       | No<br>No                   | 0.5<br>0.5   | 80<br>80                               | 80                                       | 1799.00<br>599.00  | As above.  |
| ELECTRONIC<br>VISIONARY<br>SYSTEMS | UA24   | P       | L               |          | 0-1M                                  |                       |                | Opt.                                     |                            | 0                             | 0                       | No                         |  |  |  | 305.00<br>Pair   | 24-position stepped attenuators;<br>mount on amp, with balanced in and<br>out. UA24B, \$450.00 per pair.   |
|                                    | Ecstasy 1000<br>Ecstasy 2000                               | P<br>S  | L<br>L          | No<br>No | 0-1M<br>0-10M                         |                       |                | Opt.<br>Opt.                             | 200                        | Opt.                          | 0<br>0                  | No<br>No                   |  |  |  | 700.00<br>1200.00  | Stepped attenuator.<br>Active buffer or gain stage.  |
| ELITE                              | C-72   | S       | MM/MC/L         | No       |                                       |                       |                |  |                            | 2                             | No                      | 2.0                        | 74   |  | 850.00                                   | Video switching.   |  |
| ENCORE                             | DL2010.2   | H       | MM/MC/L         | No       | 0.1-200 +0,-3                         | 22                    | 0.025          |  | 125                        | 2                             | 0                       | No                         | 4.0  | 65                                     | 65                                       | 3350.00  | No potentiometers or switches in<br>signal path; stepped volume control;<br>without phono stage, DL2010.2-L,<br>\$2895.00.   |
| ENSEMBLE                           | Virtuoso<br>Phonomaster                                    | H<br>S  | L<br>MM/MC      | No       | 20-20 +0,-0.1                         | 14<br>6.5             | 0.01<br>0.24   | 0  | 200                        | 2                             | 0                       | No<br>No                   | 2.5  |  |  | 4180.00<br>740.00  | Selectable phono loading; powered<br>by model above or optional supply<br>(\$260.00).  |
| ESOTERIC<br>AUDIO<br>RESEARCH      | EAR 802  | T       | MM/L            |          | 5-50 ±0.2                             | 10                    | 0.1            | No                                       | 150                        | 2                             | 0                       | No                         | 2.2  | 90                                     | 90                                       | 2800.00  |  |
|                                    | EAR G88  | T       | MM/MC/L         |          | 5-50 +0,-1                            | 30                    | 0.1            | Opt.                                     | 150                        | 2                             | 0                       | Sel.                       | 2.2  | 90                                     | 90                                       | 10,000.  |  |
| ESOTERIC<br>SOUND                  | Vintage  | S       | MM              |          | 20-40 ±0.5                            | 4.5                   | 0.01           |  |                            | 2                             | No                      | 4.5                        | 70   |  | 335.00<br>Each                           | Mono; compensation for mono<br>records; vertical/lateral switch. |  |
| ESSENCE                            | Sapphire   | T       | L               | No       | 3-100                                 | 24                    | 0.01           | Opt.                                     |                            | 0                             | No                      |                            |  |  |  | 3585.00  |  |
|                                    | Emerald  | T       | L               | No       | 3-100                                 | 24                    | 0.01           | Opt.                                     |                            | 0                             | No                      |                            |  |  |  | 6485.00  |  |
|                                    | Jasper   | T       | L               | No       | 3-100                                 | 24                    | 0.01           | Opt.                                     |                            | 0                             | No                      |                            |  |  |  | 12,850.  |  |
| EXPOSURE                           | XIX  | S       | L               |          | 20-20 ±0.5                            | 15                    |                |  | 150                        | 2                             |                         | No                         |  |  |  | 1295.00  |  |
|                                    | XVII   | S       | MM/MC/L         |          | 20-20 ±0.5                            | 15                    |                |  | 150                        | 2                             |                         | No                         |  |  |  | 1495.00  |  |
|                                    | XIV/X  | S       | MM/MC/L         |          | 20-20 ±0.5                            | 10                    |                |  | 150                        | 2                             |                         | No                         | 3.0  |  |  | 5795.00  |  |
| EXPRESSIVE<br>TECHNOLOGIES         | SU-1   |         | MC              |          | 0.7-150 +0,-0.1                       | 25                    |                | I/O                                      |                            |                               | No                      |                            |  |  | 100                                      | 3500.00  | Transformer; 28-dB fixed gain.   |
| FIRST SOUND                        | I  | P       | L               | No       |                                       |                       |                |  |                            | 1                             | 0                       | No                         |  |  |  | 1200.00  | Stepped attenuators.   |
|                                    | II   | P       | L               | No       |                                       |                       |                |  |                            | 1                             | 0                       | No                         |  |  |  | 2200.00  | As above.  |
|                                    | Signature  | P       | L               | No       |                                       |                       |                |  |                            | 1                             | 0                       | No                         |  |  |  | 4950.00  | As above.  |
| FM ACOUSTICS                       | Resolution<br>Series 266                                   | S       | L               | No       | 20-20 ±0.03                           | 28                    | 0.003          | I/O                                      | 100                        | 1                             | 0                       | No                         |  |  |  | 19,980.  |  |
|                                    | Resolution<br>Series 244A                                  | S       | MC/L            | No       | 20-20 ±0.03                           | 14                    | 0.03           | Opt.                                     | 100                        | 1                             | 0                       | No                         |  |  |  | 11,540.  | No overall or local feedback.<br>190 to 104 dB.  |
|                                    | Resolution<br>Series 244B                                  | S       | MM/L            | No       | 20-20 ±0.03                           | 12                    | 0.025          | Opt.                                     | 100                        | 1                             | 0                       | Yes                        | 3.1  | †                                      |  | 9620.00  | As above.  |
|                                    | Resolution<br>Series 244C                                  | S       | L               | No       | 20-20 ±0.03                           | 14                    | 0.025          | Opt.                                     | 100                        | 1                             | 0                       | No                         |  |  |  | 7680.00  |  |
|                                    | Resolution<br>Series 222                                   | S       | MM/MC           |          | 20-20 ±0.08                           | 12                    |                | I/O                                      |                            |                               |                         | Sel.                       | 10   | 104                                    | 89                                       | 12,290.  | Balanced MM/MC inputs.   |
| FORTÉ                              | Forty Four(RI)<br>FP1                                      | S<br>S  | L<br>MM/MC      | No       | 0-200 ±1<br>RIAA ±0.25                | 11<br>8               | 0.005<br>0.005 | I/O                                      |                            | 2                             | 0                       | No                         | 1  | 85                                     | 74                                       | 1350.00<br>550.00  |  |
|                                    | FOSGATE-<br>AUDIONICS                                      | Three-A | S               | L        | No                                    | 5-50 +0.5,-3          | 7              | 0.05                                     |                            | 150                           | 1                       | †                          | No   |  |  | 2799.00  | Surround decoding (see also<br>"Surround Processors").<br>†45-Hz boost to 18 dB, front-channel<br>THX re-equalization in all modes.  |

(Continued)

# PREAMPLIFIERS

| MANUFACTURER                      | Model<br>(RI)=Remote Included,<br>(RO)=Remote Optional | Circuitry: Solid State=S,<br>Tube=T, Hybrid=H, Passive=P | Stages: MM Phono=MM,<br>MC Phono=MC,<br>Line or High Level=L | D/A Conversion? | Frequency Response,<br>Hz to kHz, ±dB | Maximum Output, V rms | THD, % | Balanced Inputs=I,<br>Balanced Outputs=O | High-Level Sensitivity, mV | No. of Tape & Processor Loops | Number of Tone Controls | Does Unit Invert Polarity? | PHONO STAGE  |  |  | Price, \$   | Notes   |
|-----------------------------------|--|--|--|-----------------|---------------------------------------|-----------------------|--------|--|----------------------------|-------------------------------|-------------------------|----------------------------|--|--|--|---|---|
|                                   |  |  |  |                 |                                       |                       |        |  |                            |                               |                         |                            | MM Phono Sensitivity, mV,<br>for 0.5 V Output at 1 kHz | MM Phono S/N, dB,<br>"A" Wid. re: 5 mV | MC Phono S/N, dB,<br>"A" Wid. re: 0.5 mV |   |   |
| FOSGATE-AUDIONICS*<br>(Continued) | Four   | S  | L  | No              | 5-100 +0.5, -3                        | 7                     | 0.05   | 150                                      | 1                          | †                             | No                      |                            |  |  | 999.00                                   | Surround decoding (see also "Surround Processors"). †As above but maximum boost to 12 dB.           |   |
| GEMINI SOUND PRODUCTS             | Pvx-20   | S  | MM/L   | No              | 10-100 +0, -3                         | 10                    | 0.005  |  | 1                          | 2                             |                         | 2.4                        | 75   |  | 245.00                                   |   |   |
| GOLDEN TUBE AUDIO                 | P1   | P  | L  | No              | 20-100 +0, -0.5                       |                       |        | 0  | 150                        | 1                             | 0                       | No                         |  |  | 480.00                                   |   |   |
|                                   | P-6V6  | T  | L  | No              | 20-100 +0, -0.5                       | 20                    | 0.01   | 0  | 150                        | 1                             | 0                       | Yes                        |  |  | 680.00                                   |   |   |
|                                   | P-2A3  | T  | L  | No              | 20-100 +0, -0.5                       | 20                    | 0.01   | 0  | 150                        | 1                             | 0                       | Yes                        |  |  | 2400.00                                  | External power supply.  |   |
| GORDON INSTRUMENTS                | Gordon(RI)   | S  |  | No              |                                       |                       |        |  |                            |                               |                         |                            |  |  |  | Custom-built.   |   |
| GRYPHON AUDIO DESIGNS             | Bel Canto  | S  | L  | No              | 1-1M ±1                               | 15                    | 0.01   | 0  | 0                          | 0                             | No                      |                            |  |  | 4700.00                                  | Separate chassis for each channel; external power supplies; no negative feedback; Class A.          |   |
|                                   | Elektra  | S  | L  | No              | 1-1M ±1                               | 15                    | 0.01   | 0  | 0                          | 0                             | No                      |                            |  |  | 8000.00                                  | As above; optional MC stage available.  |   |
|                                   | Orestes  | S  | MC   |                 | 1-1M ±1                               |                       | 0.01   |  |                            |                               | No                      |                            |  |  |  | Separate chassis for each channel; external power supplies; selectable MC input impedance and gain. |   |
| HARMAN KARDON                     | PT2300(RI)   | S  | MM/L   | No              | 0.5-200 +0, -3                        | 6                     | 0.005  | 135                                      | 2                          | 2                             | No                      | 2.2                        | 82   |  | 629.00                                   | Tuner/preamp (see also "Tuners"); video switching.  |   |
|                                   | AP2500   | S  | MM/MC/L  | No              | 0.3-250 +0, -3                        | 8                     | 0.007  | 135                                      | 2                          | 0                             | No                      | 2.1                        | 82   | 82                                     | 599.00                                   |   |   |
| JOULE ELECTRA                     | LA-75  | T  | L  | No              | 5-144 +0, -1                          | 7                     | 0.1    | No                                       | 300                        | 1                             | 0                       | Yes                        |  |  | 1595.00                                  | 75-joule power supply.  |   |
|                                   | LA-100   | T  | L  | No              | 5-144 +0, -1                          | 9                     | 0.1    | No                                       | 300                        | 1                             | 0                       | Yes                        |  |  | 2495.00                                  | 100-joule power supply.   |   |
|                                   | LA-150   | T  | L  | No              | 5-144 +0, -1                          | 9                     | 0.1    | No                                       | 300                        | 1                             | 0                       | Yes                        |  |  | 2995.00                                  | With wiring and component upgrades, LA-150Q, \$3495.00.   |   |
|                                   | LA-200   | T  | L  | No              | 5-144 +0, -1                          | 18                    | 0.1    | I/O                                      | 300                        | 1                             | 0                       | Yes                        |  |  | 3995.00                                  | External 100-joule power supplies.  |   |
| JRM                               | Preamp   | S  | MM/MC/L  | No              | 0-100 +0, -1                          | 12                    | 0.001  |  | Sel.                       | 2                             | Opt.                    | Sel.                       | 1.25   | 88                                     | 78                                       | 1170.00   | Includes 10-watt/channel headphone amp; video inputs; infrasonic filter.                                      |
|                                   | PEM  | S  | MM/L   | No              | 0-100 +0, -1                          | 12                    | 0.001  |  | Sel.                       | 2                             | †                       | Sel.                       | 1.25   | 88                                     |  | 2700.00   | †Two three-band pre-EQs, eight-band master EQ. Two MM inputs; cross-fade input select; master and cue busses. |
| KAB ELECTRO-ACOUSTICS             | Souvenir-STD   | S  | MM   |                 | 30-15                                 | 3.5                   | 0.07   | No                                       |                            |                               | 8                       | Yes                        | 8  | 79                                     |  | 295.00  | Mono with stereo bypass; includes processing for 78-rpm records (see also "Signal Processors").               |
|                                   | Souvenir-INL   | S  | MM   |                 | 30-15                                 | 3.5                   | 0.07   | No                                       |                            |                               | 8                       | No                         | 8  | 79                                     |  | 395.00  | As above; impulse noise limiting (see also "Signal Processors").  |
| KENWOOD                           | KC-X1(RI)  | S  | MM/MC/L  | No              | 15-100 +0, -3                         | 1.2                   | 0.002  | 200                                      | 1                          | 2                             | No                      | 2.5                        | 78   |  | 999.00                                   | THX certified.  |   |
| KINERGETICS RESEARCH              | KPA-3(RI)  | S  | L  | No              | 20-20 ±0.5                            | 10                    | 0.01   | 0  |                            | 1                             | 0                       | No                         |  |  | 1795.00                                  |   |   |
|                                   | KSP-3(RI)  | S  | L  | Yes             | 20-20 ±0.5                            | 2.1                   | 0.01   |  |                            | 0                             | 0                       | No                         |  |  | 2995.00                                  | Audio and video analog inputs; three digital inputs.  |   |
| KLIMO                             | Argo   | T  | MC   |                 | 10-450 +0, -3                         | 10                    | 0.2    |  |                            |                               | Yes                     |                            |  | 75                                     |  | 1850.00   | External power supply; adjustable MC input impedance.   |
|                                   | Merlin(RO)   | T  | MM/L   |                 | 3-450 +0, -3                          | 25                    | 0.07   |  |                            | 1                             | 0                       | Yes                        | 1.0  | 76                                     |  | 4500.00   | Optional remote, \$650.00; without phono stage, Merlin LS, \$3550.00.   |
| KLYNE AUDIO ARTS                  | System Six 6LE   | S  | L  |                 | 1-200 +0, -0.2                        | 10                    | 0.005  | 100                                      | 2                          | 0                             | No                      |                            |  |  |  | 1895.00   | See models below. With internal MM/MC stage, 6LE/P, \$2395.00.  |
|                                   | 6PE  | S  | MM/MC  |                 |                                       | 10                    | 0.01   |  |                            |                               | No                      | 7.1                        | 85   | 70                                     |  | 1895.00   |   |
|                                   | 6LX3   | S  | L  |                 | 1-200 +0, -0.2                        | 10                    | 0.005  | 100                                      | 2                          | 0                             | No                      |                            |  |  |  | 2795.00   | External power supply; with internal MM/MC stage, 6LX3/P, \$3995.00.  |
|                                   | 6PX3   | S  | MM/MC  |                 |                                       | 10                    | 0.01   |  |                            |                               | No                      | 7.1                        | 85   | 70                                     |  | 2795.00   | External power supply. See models below.  |
|                                   | System Seven 7LX3                                      | S  | L  |                 | 1-200 +0, -0.2                        | 10                    | 0.005  | 0  | 100                        | 1                             | 0                       | No                         |  |  |  |   | 3695.00   |
| 7PX3                              | S  | MM/MC  |  |                 | 10                                    | 0.01                  |        |  |                            |                               | No                      | 7.1                        | 85   | 72                                     |  | 3695.00   | External power supply; with balanced output, 7PX3/B, \$4195.00.   |
| KRELL                             | KRC(RI)  | S  | L  | No              | 0.2-400 +0, -0.3                      | 14                    | 0.02   | I/O                                      | 1                          | 0                             | No                      |                            |  |  |  | 6900.00   | Direct-coupled.   |
|                                   | KRC-2(RI)  | S  | L  | No              | 0.2-400 +0, -0.3                      | 8                     | 0.02   | I/O                                      | 1                          | 0                             | No                      |                            |  |  |  | 3700.00   | As above.   |
|                                   | KSL-2  | S  | L  | No              | 20-20 ±0.02                           |                       | 0.01   | I/O                                      | 1                          | 0                             | No                      |                            |  |  |  | 2950.00   |   |
|                                   | KRC PHON   | S  | MM/MC  |                 |                                       |                       |        |  |                            |                               | No                      | 8.9                        | 79   | 68                                     |  | 500.00  | Mounts in KRC or KSL-2.   |
|                                   | KPE  | S  | MM/MC  |                 |                                       |                       |        |  |                            |                               | No                      | 8.9                        | 79   | 68                                     |  | 800.00  | Optional external power supply, \$500.00.   |
|                                   | Reference Phono  | S  | MC   |                 |                                       |                       |        |  |                            |                               |                         |                            |  |  |  | 1000.00   |   |
| KSS AUDIO ENGINEERING             | KSS 10   | T  | L  | No              | 0-600 +0, -0.3                        | 65                    | 0.001  | I/O                                      | 2                          | 0                             | Sel.                    |                            |  |  |  | 3995.00   | Harmonic Structure Reproduction Circuit; direct coupling throughout; external power supply.                   |
|                                   | KSS 20   | T  | L  | No              | 2-600 +0, -0.3                        | 80                    | 0.001  | I/O                                      | 2                          | 0                             | Sel.                    |                            |  |  |  | 1995.00   | Harmonic Structure Reproduction Circuit; external power supply.   |
|                                   | KSS 30   | T  | MM/MC/L  | No              | 8-25                                  | 80                    | 0.03   | I/O                                      |                            |                               | No                      | 0.80                       | 90   | 85                                     |  | 1995.00   | As above.   |
| LAMM AUDIO LABORATORY             | L1(RI)   | H  | L  | No              | 3-100 +0, -0.3                        | 70                    | 0.05   | 0  | 150                        | 2                             | 0                       | Var.                       |  |  |  | 5690.00   | Remote on/off switch for Lamm Audio power amps.   |
| LANGVIN                           | Phono/Line Pre   | S  | MM/L   | No              | 20-50 +0, -0.5                        | 10                    | 0.001  |  | 100                        | 0                             | No                      | 1.6                        | 70   |  | 1275.00                                  | Without phono, Stereo Line Pre, \$975.00.   |   |
| LEGACY                            | High Current Line Stage(RI) FET Preamp                 | S  | L  | No              | 1-100 ±1                              | 10                    | 0.001  | I/O                                      | 450                        | 2                             | 0                       | No                         |  |  |  | 1595.00   |   |
| MARK LEVINSON                     | No. 25   | S  | MM or MC   |                 |                                       |                       |        | No                                       |                            |                               | No                      | Sel.                       |  |  |  | 2495.00   | Requires PLS-226 power supply.  |
|                                   | No. 25S  | S  | MM or MC   |                 |                                       |                       |        | No                                       |                            |                               | No                      | Sel.                       |  |  |  | 2995.00   | As above.   |
|                                   | No. 38(RI)   | S  | L  | No              |                                       |                       |        | I/O                                      |                            |                               | Sel.                    |                            |  |  |  | 3995.00   | Communicates with Mark Levinson 30 Series components.   |
| No. 38S(RI)                       | S  | L  | No   |                 |                                       |                       | I/O    |  |                            | Sel.                          |                         |                            |  |  | 6495.00                                  | As above.   |   |
| LEXICON                           | CP-3 Plus(RI)  | S  | L  | No              | 10-100 ±1                             | 6                     | 0.025  |  | 250                        | 1                             | 0                       | No                         |  |  |  | 3200.00   | Video switching; includes crossover; DSP and THX (see also "Surround Processors").                            |

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# PREAMPLIFIERS

| MANUFACTURER             | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional   | Circuitry: Solid State = S,<br>Tubes = T, Hybrid = H, Passive = P | Stages: MM Phono = MM,<br>MC Phono = MC,<br>Line or High Level = L,<br>D/A Conversion? | Frequency Response,<br>Hz to kHz, ±dB | Maximum Output, V rms  | THD, %                           | Balanced Inputs = I,<br>Balanced Outputs = O       | High-Level Sensitivity, mV | No. of Tape & Processor Loops | Number of Tone Controls | Does Unit Invert Polarity? | PHONO STAGE  |                                       |   | Notes  |  |  |
|--------------------------|--|---|--|---------------------------------------|--|----------------------------------|--|----------------------------|-------------------------------|-------------------------|----------------------------|--|---------------------------------------|---|--|--|--|
|                          |  |   |  |                                       |  |                                  |  |                            |                               |                         |                            | MM Phono Sensitivity, mV,<br>for 0.5 V Output at 1 kHz | MM Phono S/N, dB<br>"A" Wtd. re: 5 mV | MC Phono S/N, dB<br>"A" Wtd. re: 0.5 mV |  | Price, \$  |  |
| LINEAR ACOUSTIC          | LAV1<br>LAV2   | S<br>S  | MM/MC/L<br>MM/MC/L   | No<br>No                              |  | 0.01<br>0.01                     |  | 2<br>2                     | 0<br>0                        |                         |                            | 86<br>85   | 77<br>77                              | 3466.00<br>2493.00                      | External power supply.<br>As above, dual outputs for biamping. |  |  |
| LINN                     | Kairn(RI)<br>Kairn-Pro(RI)   | S<br>S  | MM/MC/L<br>L   | No<br>No                              |  |                                  | 188<br>188   | 2<br>2                     | 0<br>0                        | Yes<br>Yes              | 2                          |  |                                       | 2795.00<br>2195.00                      |  |  |  |
| LIRPA LABS               | Lirpa 1<br>Mk K2(RI)   | H   | LMNOP  | Nah                                   | 18-34 +12,-3   | 0.6                              | 113.0  | OY                         | Yes                           | 3.5                     | 7.8                        | Yup  | 12.04                                 | 43                                      | 29   | 712.94   | Externalized power supply; with kitchen sink, \$1300.00; without it, \$1500.00 (see also "Microphones" and "Open-Reel Tape Decks").  |
| LUXMAN                   | C-383(RI)<br>CL-38<br>C-06<br>AT-3000<br>E-06  | S<br>T<br>S<br>S<br>S   | MM/MC/L<br>L<br>L<br>L<br>MM/MC  | No<br>No<br>No<br>No<br>No            | 10-100 +0.2,-0.8<br>20-100 ±1<br>5-100 ±0.5<br>20-20 ±2  | 1<br>10<br>20<br>10              | 0.003<br>0.12<br>0.005<br>0.005                    | I/O<br>I/O<br>I            | 150<br>170<br>150             | 4<br>2<br>1<br>2        | 2<br>1<br>0<br>0           | No<br>No<br>Sel.<br>No                                 | 2.5<br>1<br>1<br>2.5                  | 91<br>76                                | 1200.00<br>8000.00<br>7000.00<br>4000.00<br>7000.00            | A/V switching; upgradable to multi-room operation.                                   |  |
| MANLEY LABS              | Manley Reference Mastering Room Phono<br>Lab Series Line<br>Lab Series Phono<br>Manley Bal-Coil RIAA Phono | T<br>T<br>T<br>T  | MM/MC/L<br>MM/MC/L<br>L<br>MM<br>MM/MC   | No<br>No<br>No<br>No                  | 10-100 ±0.5<br>10-100 ±0.5<br>10-50 ±0.5<br>RIAA<br>RIAA   | 30<br>30<br>25<br>30<br>50       | 0.001<br>0.001<br>0.001<br>0.001<br>0.001          | I/O<br>I/O<br>I            | 100<br>100<br>100             | 0<br>0<br>0             | 0<br>0<br>0                | No<br>No<br>No<br>Sel.                                 | 1<br>1.5<br>1.15                      | 65<br>60<br>65<br>70                    | 60<br>60<br>65<br>65   | 6000.00<br>4000.00<br>1150.00<br>950.00<br>2250.00                                   | External power supply; balanced MC input; variable feedback. Balanced MC input; variable feedback; without phono, Mastering Room Line, \$3000.00. Stepped volume control; variable feedback, buffered tape output.   |
| MARANTZ                  | SC-80(RI)<br>AC-500(RI)  | S<br>S  | MM/MC/L<br>MM/L  | No<br>Yes                             | 20-20 ±0.5<br>20-20 ±0.5   | 5<br>5                           | 0.015<br>0.015                                     | I/O<br>I/O                 | 150<br>150                    | 3<br>1                  | 2<br>2                     | No<br>No   | 2.5<br>2.5                            | 91<br>85                                | 75   | 599.00<br>699.00   | CD player/tuner/preamp: digital outputs.   |
| MBL                      | 6010C(RO)<br>5010C(RO)<br>4004(RI)   | S<br>S<br>S   | MM/MC/L<br>MM/MC/L<br>MM/MC/L  | No<br>No<br>No                        | 0-600<br>0-400<br>0-400  | 11<br>11<br>11                   | 0.002<br>0.002<br>0.002                            | I/O<br>I/O<br>I/O          | 315<br>315<br>315             | 2<br>1<br>2             | 0<br>0<br>0                | No<br>No<br>No   | 5<br>5<br>5                           | 86<br>87<br>82                          | 85<br>78<br>75   | 11,129.<br>4853.00<br>2071.00  | f2 to 4. Without phono, \$9700.00. Without phono, \$4550.00. Without phono, \$1850.00.   |
| McCORMACK AUDIO          | Active Line Drive ALD-1<br>Line Drive TLC-1<br>Micro Line Drive<br>Micro Phono Drive                       | S/P<br>S/P<br>S<br>S  | MM/MC/L<br>L<br>L<br>MM/MC   | No<br>No<br>No                        | 5-100 +0,-1<br>0-200<br>10-200 ±0.1<br>10-200 ±0.15  | 10<br>6<br>6                     | 0.01<br>0.001<br>0.008<br>0.01                     | O<br>I/O<br>I/O            | 225<br>500                    | 2<br>1                  | 0<br>0                     | No<br>No<br>No   | 1.10<br>1.10                          | 75<br>75                                | 70   | 1745.00<br>995.00<br>595.00<br>495.00  | Optional phono stage and external power supply; one passive and seven active inputs. Buffered; optional external power supply. Active and passive outputs. Adjustable phono loading and gain.  |
| McINTOSH                 | C38(RI)<br>C40<br>C712(RI)<br>C39(RI)<br>MX130(RI)<br>MX118(RI)  | S<br>S<br>S<br>S<br>S<br>S  | MM/L<br>MM/L<br>MM/L<br>MM/L<br>MM/L<br>MM/L   | No<br>No<br>No<br>No<br>No<br>No      | 20-20 +0,-0.5<br>20-20 +0,-0.5<br>20-20 +0,-0.5<br>20-20 +0,-0.5<br>20-20 +0,-0.5<br>20-20 +0,-0.5       | 8<br>8<br>8<br>8<br>8<br>8       | 0.002<br>0.002<br>0.002<br>0.005<br>0.005<br>0.005 | O<br>I/O<br>O<br>O<br>O    | 250<br>250<br>250<br>250      | 4<br>2<br>3<br>1        | 2<br>5<br>2<br>2           | No<br>No<br>No<br>No                                   | 0.5<br>0.5<br>0.5<br>0.5              | 84<br>84<br>84<br>84                    |  | 2000.00<br>3000.00<br>1300.00<br>3000.00<br>3600.00<br>2600.00                       | Companer circuit; 20-watt/channel monitor amp.   |
| MELOS AUDIO              | SHA-Gold(RI)<br>MA-333<br>MA-333 Line<br>MA-333 Phono<br>MA-220<br>MA-220 Phono<br>MA-111B<br>MA-110B      | T<br>T<br>T<br>T<br>T<br>T<br>T                                   | L<br>MM/MC/L<br>L<br>MM/MC<br>MM/MC/L<br>MM/MC/L<br>L                                  | No<br>No<br>No<br>No<br>No            | 20-300 +0,-0.5<br>20-300 +0,-0.5<br>20-300 +0,-0.5<br>20-300 +0,-0.5<br>20-300 +0,-0.5<br>20-300 +0,-0.5 | 10<br>10<br>10<br>30<br>30<br>30 | 0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09       | O<br>O<br>O<br>O<br>O<br>O | 100<br>80<br>80<br>80         | 1<br>2<br>2             | 0<br>0<br>0                | No<br>Sel.<br>Sel.<br>Sel.                             | 1.0<br>1.0<br>1.0<br>1.0              | 75<br>75<br>75<br>75                    | 70<br>70<br>70<br>70   | 1795.00<br>4895.00<br>2895.00<br>2495.00<br>3295.00<br>1395.00<br>1395.00<br>1195.00 | Headphone output; with balanced output, \$1995.00. Control center, phono stage, and power supply in separate chassis; with balanced in and out but one tape loop, MA-333B, \$5795.00. External power supply; with balanced in and out but one tape loop, MA-333B Line, \$3695.00. External power supply. Phono and control center in separate chassis; without phono, MA-220 Line, \$1995.00. External power supply. As above. |
| MERIDIAN                 | 201(RO)<br>603<br>601(RI)<br>501V<br>562V  | S<br>S<br>S<br>S<br>S   | MM/MC/L<br>MM/MC/L<br>MM/MC/L<br>MM/MC/L<br>MM/MC/L                                    | No<br>Yes<br>No<br>Yes<br>Yes         | 5-20 ±0.2<br>5-20 ±0.2<br>5-20 ±0.1<br>5-20 ±0.02<br>5-20 ±0.02  | 5<br>5<br>10<br>2.5<br>5         | 0.01<br>0.01<br>0.01<br>0.01<br>0.01               | O<br>O<br>O<br>I/O<br>I/O  | 150<br>50<br>50<br>50<br>50   | 2<br>1<br>1<br>2<br>3   | 0<br>0<br>8<br>0<br>0      | No<br>No<br>No<br>No<br>No                             |                                       |   |  | 1190.00<br>2750.00<br>4950.00<br>995.00<br>1395.00                                   | Multi-room capability. Multi-room options. Digital signal processing. fD/A and A/D conversion. Video switching. As above.  |
| METAXAS AUDIO SYSTEMS    | Opulence<br>Marquis<br>Charisma  | S<br>S<br>S   | MM/MC/L<br>MM/MC/L<br>MM/MC/L  | No<br>No<br>No                        | 0-2M ±3<br>0-2M ±3<br>0-1M ±3  | 18<br>15<br>10                   | 0.005<br>0.005<br>0.005                            | f<br>f<br>f                | 500<br>500<br>500             | 1<br>1<br>1             | 0<br>0<br>0                | No<br>No<br>No   | 1.0<br>1.0<br>1.0                     | 85<br>80<br>75                          | 68   | 7500.00<br>3200.00<br>2000.00  | fOptional balanced in and out. External power supply; without phono, \$6500.00. External power supply; without phono, \$2800.00. Without phono, \$1700.00.   |
| MICHAEL GREEN DESIGNS    | MGO-BL2  | S   | L  | No                                    | 0.1-200 ±1.0   |                                  | 0.01   |                            |                               |                         |                            | No   |                                       |   |  | 1750.00  | Optional phono stage.  |
| MICROMEGA                | Variodac(RI)   | S   | L  | Yes                                   | 2-20 ±0.2  | 9                                |  |                            |                               |                         |                            |  |                                       |   |  | 995.00   | Preamp with D/A conversion (see also "D/A Converters").  |
| MILBERT AMPLIFIERS       | TC-2R<br>TC-4R   | H<br>H  | L<br>L   | No<br>No                              | 5-95 +0,-3<br>5-95 +0,-3   | 10<br>10                         | 1<br>1   | I/O<br>I/O                 | 300<br>300                    | 0<br>0                  | 0<br>0                     | No<br>No   |                                       |   |  | 670.00<br>830.00   | Includes crossover with one low-pass and two high-pass outputs. As above but four high-pass outputs.   |
| MONARCHY AUDIO           | M33<br>10A<br>9  | S<br>S<br>T   | L<br>L<br>L  | f<br>No                               | 20-100 +0,-0.1<br>20-200 +0,-0.1<br>20-20 +0,-0.25   | 10<br>12<br>10                   | 0.002<br>0.015<br>0.1                              | I/O<br>No                  | 200<br>200<br>200             | 1<br>1<br>1             | 0<br>0<br>0                | No<br>No<br>No   |                                       |   |  | 1199.00<br>980.00  | fDual 20-bit DAC (see also "D/A Converters"). Stepped volume control. No negative feedback.  |
| BRUCE MOORE AUDIO DESIGN | Companion<br>Deluxe LS<br>Phono Master   | T<br>T<br>T   | L<br>L<br>MM/MC  |                                       | 1-300 +0,-1<br>1-400 +0,-0.5<br>1-300  | 20<br>20<br>40                   | 0.05<br>0.01<br>0.02                               |                            |                               |                         |                            | Yes<br>No<br>No  |                                       |   |  | 1395.00<br>3995.00<br>1195.00  | Triode tubes.  |

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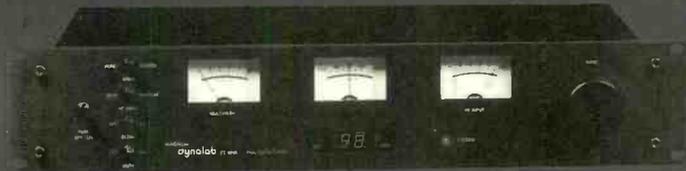
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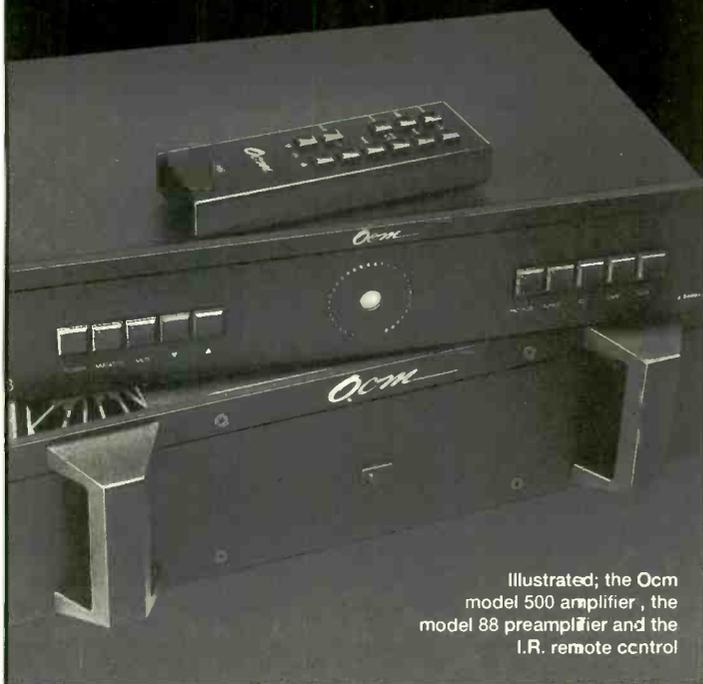
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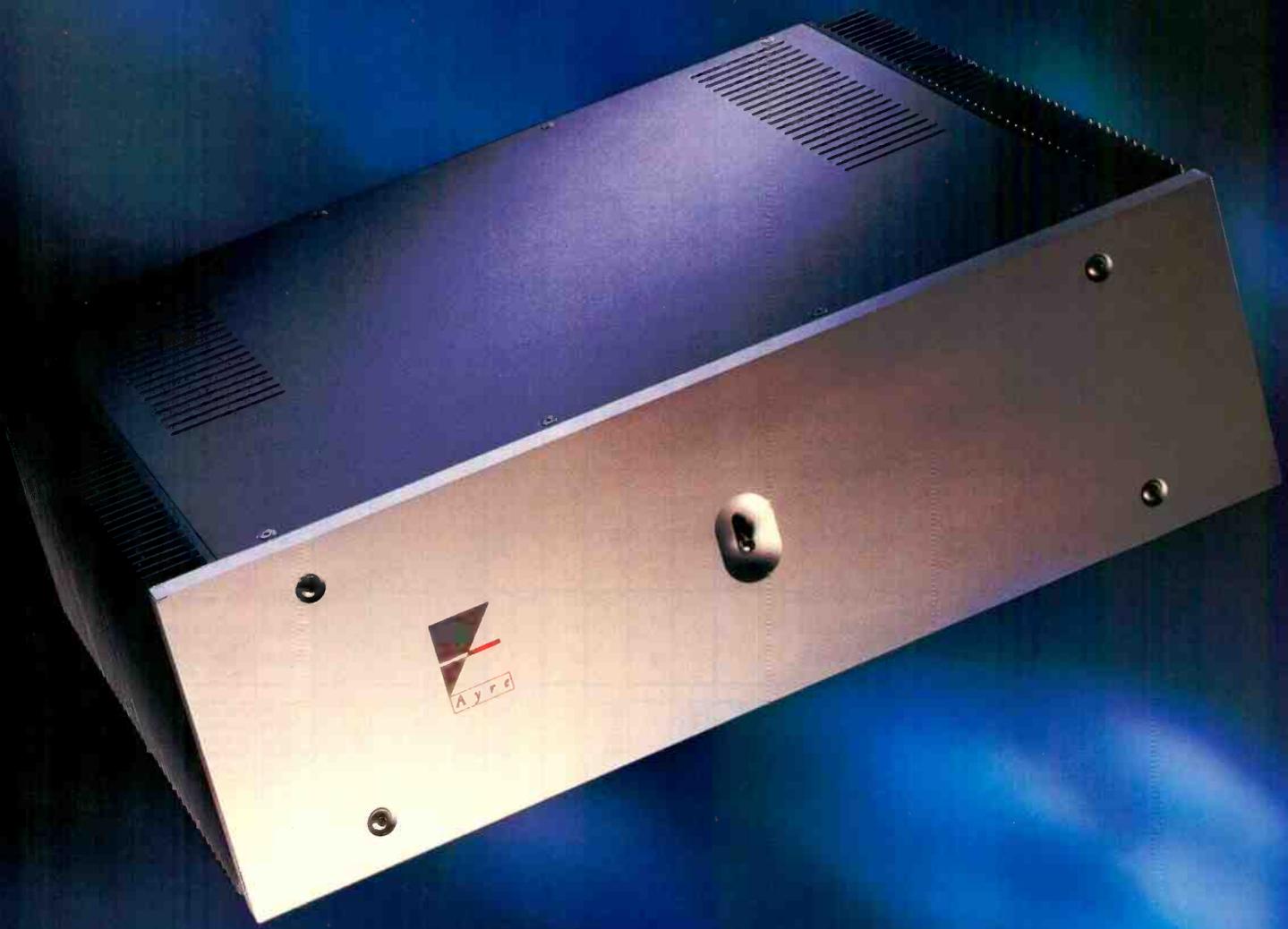
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# PREAMPLIFIERS

| MANUFACTURER        | Model<br>(RI)=Remote Included,<br>(RO)=Remote Optional | Circuitry: Solid State=S,<br>Tube=T, Hybrid=H, Passive=P | Stages: MM Phono=MM,<br>MC Phono=MC,<br>Line or High-Level=L<br>D/A Conversion? | Frequency Response,<br>Hz to kHz, ±dB | Maximum Output, V rms | THD % | Balanced Inputs=I<br>Balanced Outputs=O | High-Level Sensitivity, mV | No. of Tape & Processor Loops | Number of Tone Controls | Does Unit Invert Polarity? | PHONO STAGE  |  |  |         | Price, \$                            | Notes  |
|---------------------|--|--|---|---------------------------------------|-----------------------|-------|---|----------------------------|-------------------------------|-------------------------|----------------------------|--|--|--|---------|--------------------------------------|--|
|                     |  |  |   |                                       |                       |       |   |                            |                               |                         |                            | MM Phono Sensitivity, mV,<br>for 0.5 V Output at 1 kHz | MM Phono S/N, dB,<br>"A" Wtd. re. 5 mV | MC Phono S/N, dB,<br>"A" Wtd. re. 0.5 mV |         |                                      |  |
| MORRISON AUDIO      | PRE-3  | S  | MM/MC/L   | No                                    | 0.2-400 +0,-3         | 10    | 0.005                                   | Var.                       | 1                             | 0                       | No                         | Var.   |  |  | 2400.00 | External power supply; dual outputs. |  |
| MTX SOUND-CRAFTSMEN | P-100  | S  | MM/L  | No                                    | 20-20 ±0.5            | 8     | 0.008                                   | 150                        | 1                             | 2                       | No                         | 2.5  | 100                                    |  | 399.95  | With rack mount, P-100PRO, \$499.95. |  |
| MUSEATEX AUDIO      | AVC-1(RI)  | S  | L   | No                                    | 1-100 +0,-0.25        | 3     | 0.25                                    | I/O                        | 88                            | †                       | 0                          | No   |  |  | 1999.00 | †Two audio and two A/V tape loops.   |  |
| MUSE ELECTRONICS    | One  | S  | MM/MC/L   | No                                    | 7-1.25M               | 5     | 0.02                                    | 0                          | 50                            | 1                       | 0                          | Sel.   | Adj.                                   | 88                                       | 68      | 2500.00                              | Line stage switchable to passive operation, external power supply.   |
| MUSIC DESIGN        | SP-2   | T  | L   | No                                    | 0.1-180               | 60    | 0.01                                    |                            | 100                           | 1                       | 0                          | Yes  |  |  |         | 995.00                               | Direct input bypasses switching; stepped balance control.  |
| MUSIC REFERENCE     | Phono one  | S  | MM  |                                       | 20-20 ±0.2            | 10    | 0.01                                    |                            |                               |                         |                            | No   | 5                                      | 80                                       |         | 595.00                               | Selectable MM phono gain.  |
|                     | RM1/2 MKII   | T  | MM/MC/L   | No                                    | 1-100 ±0.5            | 10    | 0.02                                    |                            |                               | 2                       | 1                          | Sel.   |  |  |         | 4000.00                              | External power supply.   |
|                     | RM-4C  | T  | MC  |                                       | 10-100                | 10    | 0.01                                    |                            |                               |                         |                            | No   |  |  |         | 750.00                               |  |
|                     | RM-4   | T  | MM  |                                       | 2-200 +0,-1           | 20    | 0.01                                    | No                         |                               |                         |                            | Yes  | 0.25                                   | 87                                       | 90      | 950.00                               | Adjustable gain and impedance.   |
|                     | RM-5 MKIII   | T  | MM/L  | No                                    | 1-100                 | 40    | 0.15                                    |                            |                               | 1                       |                            | Yes  |  | 87                                       |         | 1250.00                              | No cabinet, oak cabinet, \$175.00; rosewood cabinet, \$250.00.   |
| MUSIC & SOUND       | DLS-1(RI)  | S/P  | L   | †                                     | 1-200                 | 10    | 0.008                                   | 0                          |                               | 2                       | 0                          | No   |  |  |         | 1195.00                              | †18-bit, eight-times oversampling D/A converter. Seven high-level and three digital inputs; video switching, external power supply.                          |
|                     | ACC-1(RI)  | S/P  | L   | Yes                                   | 1-200                 | 10    | 0.008                                   | 0                          |                               | 2                       | 0                          | No   |  |  |         | 895.00                               |  |
| NAD                 | 106  | S  | MM/MC/L   | No                                    | 20-20 ±0.2            | 12    | 0.02                                    | O                          | 80                            | 2                       | 2                          | No   | 1.5                                    | 76                                       | 76      | 599.00                               | Includes headphone amp. Tuner/preamp (see also "Tuners").  |
|                     | 1000   | S  | MM/MC/L   | No                                    | 20-20 ±0.2            | 12    | 0.04                                    | No                         | 80                            | 2                       | 2                          | No   | 1.5                                    | 76                                       | 76      | 349.00                               |  |
|                     | 1600(RI)   | S  | MM/MC/L   | No                                    | 20-20 ±0.2            | 10    | 0.04                                    | No                         | 80                            | 2                       | 2                          | No   | 1.3                                    | 75                                       | 75      | 449.00                               |  |
| NAIM AUDIO          | NAC 92   | S  | L   | No                                    | 20-20 ±0.5            | 7.5   |   |                            | 75                            | 2                       | 0                          | No   |  |  |         | 965.00                               | Requires external power supply; optional Hi-Cap supply, \$1235.00; optional MM or MC phono boards, \$155.00 per pair (2.5-mV MM phono sensitivity).          |
|                     | NAC 72   | S  | L   | No                                    | 20-20 ±0.5            | 7.5   |   |                            | 75                            | 2                       | 0                          | No   |  |  |         | 1325.00                              | As above but \$115.00 per pair for phono boards.   |
|                     | NAC 82(RI)   | S  | L   | No                                    | 20-20 ±0.5            | 7.5   |   |                            | 75                            | 3                       | 0                          | No   |  |  |         | 3995.00                              | Requires external power supply; optional one or two Hi-Cap supplies, \$1235.00 each; optional MM/MC phono boards, \$155.00 per pair (2.5-mV MM sensitivity). |
|                     | NAC 52(RI)   | S  | MM or MC/L  | No                                    | 20-20 ±0.5            | 7.5   |   |                            | 75                            | 3                       | 0                          | No   | 2.5                                    |  |         | 9995.00                              | Includes separate power supply; user-configurable inputs.  |
| NAKAMICHI           | CA7A(RI)   | S  | MM/MC/L   | No                                    | 1-100 +0,-3           | 7     | 0.002                                   | No                         | 150                           | 2                       | 3                          | No   | 0.625                                  | 88                                       | 87      | 2950.00                              | Full system remote for Nakamichi units.  |
|                     | CA5AII   | S  | MM/MC/L   | No                                    | 1-100 +0,-3           | 7     | 0.002                                   | No                         | 150                           | 2                       | 2                          | No   | 0.63                                   | 88                                       | 81      | 1250.00                              |  |
| N.E.W.              | P-1  | S/P  | L   |                                       |                       |       |   | I/O                        |                               | 1                       | 0                          | No   |  |  |         | 598.00                               | External power supply, Class A.  |
|                     | P-2  | S/P  | L   |                                       |                       |       |   | I/O                        |                               | 2                       | 0                          | No   |  |  |         | 998.00                               |  |
| NILES AUDIO         | Component Commander (RO)                               | S  | L   | No                                    | 5-50 +0,-3            | 7     | 0.002                                   |                            | 50                            | 2                       | 2                          | No   |  |  |         |                                      | Multi-zone, multi-source switching system; modular mainframe with external power supply; optional keypad or handheld remote.                                 |
| NOBIS TECHNOLOGIES  | Proteus  | T  | MM/L  | No                                    | 10-35 ±1              | 12    | 0.01                                    |                            | 65                            | 1                       | 0                          | Sel.   |  | 72                                       |         | 2045.00                              | Without phono card, \$1695.00.   |
| NUMARK              | DM2175XLS  | S  | MM/L  | No                                    | 20-20                 |       | 0.005                                   | I/O                        | 100                           | 2                       | 3                          | Sel.   |  | 77                                       |         | 1799.00                              | 24-S sampling. Includes six-band graphic EQ. Mixer. Scratch mixer.   |
|                     | DM2075XS   | S  | MM/L  | No                                    | 20-20                 |       | 0.005                                   | I/O                        | 100                           | 2                       | 3                          | Sel.   |  | 77                                       |         | 1299.00                              |  |
|                     | DM2160   | S  | MM/L  | No                                    | 20-20                 |       | 0.005                                   | I/O                        | 100                           | 2                       | 3                          | Sel.   |  | 77                                       |         | 1099.00                              |  |
|                     | DM2060   | S  | MM/L  | No                                    | 20-20                 |       | 0.005                                   | I/O                        | 100                           | 2                       | 3                          | Sel.   |  | 77                                       |         | 899.00                               |  |
|                     | DM1475   | S  | MM/L  | No                                    | 20-20                 |       | 0.005                                   | I/O                        | 100                           | 1                       | 3                          | Sel.   |  | 75                                       |         | 599.00                               |  |
|                     | DM1180   | S  | MM/L  | No                                    | 20-20                 |       | 0.085                                   | I/O                        | 0                             | 2                       | 2                          | Sel.   |  | 75                                       |         | 449.00                               |  |
|                     | DM1080   | S  | MM/L  | No                                    | 20-20                 |       | 0.085                                   | I/O                        | 0                             | 2                       | 2                          | Sel.   |  | 74                                       |         | 249.00                               |  |
|                     | DM1100X  | S  | MM/L  | No                                    | 20-20                 |       | 0.086                                   | I/O                        | 0                             | 2                       | 2                          | Sel.   |  | 74                                       |         | 199.00                               |  |
| OCM TECHNOLOGY      | 88(RI)   | S  | L   |                                       | 20-20 ±0.1            | 9     | 0.05                                    | 0                          |                               | 2                       | 0                          | No   |  |  |         | 2395.00                              |  |
|                     | 55   | S  | L   |                                       | 20-20 ±0.1            | 9     | 0.05                                    | I/O                        |                               | 1                       | 0                          | No   |  |  |         | 1395.00                              | As above.  |
|                     | 10   | S  | MM/MC   |                                       |                       |       |   |                            |                               |                         |                            |  | 10                                     | 86                                       | 72      | 1195.00                              |  |
| ONIX                | OA 24  | S  | MM/MC/L   | No                                    | 11-35 ±1              | 1     | 0.004                                   |                            | 140                           | 1                       | 0                          | No   | 2.5                                    | 73                                       | 66      | 795.00                               | Requires S.O.A.P. 2 power supply, \$595.00, or Onix DA 401 amp.  |
| ONKYO               | P-301  | S  | MM/L  | No                                    | 15-3 ±1               | 5     | 0.009                                   |                            |                               | 3                       | 3                          | No   | 2.5                                    | 83                                       |         | 290.00                               | Multi-room capability if used with M-501 amp.  |
|                     | Integra P-304  | S  | MM/MC/L   | No                                    | 0.8-170 ±3            | 6     | 0.005                                   |                            |                               | 2                       | 2                          | No   | 2.5                                    | 92                                       | 81      | 560.00                               | Dual record-output selectors.  |
|                     | Integra P-388F   | S  | MM/MC/L   | No                                    | 0.8-150 +0,-3         | 10    | 0.005                                   | I/O                        | 150                           | 2                       | 0                          | No   | 1.25                                   | 92                                       | 81      | 1250.00                              | Motorized input selector and volume control.   |
| ORITRON             | HF-C1  | S  | L   | No                                    | 20-20 ±0.2            | 8     | 0.01                                    |                            | 125                           | 2                       | 2                          | No   |  |  |         | 599.95                               | Includes Pro-Reference III, Pro-Reference IIIp, power supply, and rack.  |
|                     | C-2R(RI)   | S  | MM/MC/L   | No                                    | 5-20 ±0.3             | 8     | 0.006                                   | I/O                        |                               | 2                       | 2                          | No   |  | 85                                       | 75      | 1195.00                              |  |
| PAC                 | Pro-Reference III                                      | T  | L   |                                       | 10-100                | 28    | 0.01                                    |                            | 30                            | 1                       | 0                          | No   |  |  |         | 3995.00                              |  |
|                     | Pro-Reference IIIp                                     | T  | MM/MC   |                                       | 10-100 +0,-1          | 14    | 0.01                                    |                            |                               |                         |                            |  | 0.3                                    |  |         | 2995.00                              |  |
|                     | Pro-Reference III/10k                                  | T  | MM/MC/L   |                                       | 10-100                | 28    | 0.01                                    |                            | 30                            | 1                       | 0                          | No   | 0.3                                    |  |         | 10,000.                              |  |
|                     | Pro-Reference 2000                                     | T  | L   |                                       | 10-100                | 28    | 0.01                                    |                            | 30                            | 1                       | 0                          | No   |  |  |         | 2495.00                              |  |
|                     | CPRIb/TIPS   | S  | L   |                                       | 0-100 +0,-0.1         | 10    | 0.01                                    |                            | 30                            | 1                       |                            | No   |  |  |         | 3100.00                              | Battery power supply.  |
|                     | CPRIb/TIPS   | S  | MM/L  |                                       | 0-100 +0,-1           | 10    | 0.01                                    |                            | 30                            | 1                       |                            | No   |  |  |         | 3500.00                              | As above.  |
| PARASOUND           | P/HP-850   | S  | MM/L  | No                                    | 10-100 +0,-2          | 10    | 0.009                                   |                            | 150                           | 1                       | 2                          | No   | 2.5                                    | 65                                       |         | 375.00                               | Includes headphone amp.  |
|                     | P/LD-1100(RI)  | S  | L   | No                                    | 5-135 +0,-2           | 10.5  | 0.005                                   |                            | 150                           | 2                       | 0                          | Sel.   |  |  |         | 795.00                               | Class A.   |
|                     | P/LD-1500  | S  | L   | No                                    | 5-135 +0,-2           | 10.5  | 0.005                                   | O                          | 150                           | 1                       | 0                          | Sel.   |  |  |         | 850.00                               | As above; d.c. coupled.  |
|                     | P/LD-2000(RI)  | S  | L   | No                                    | 5-135 +0,-2           | 10.5  | 0.005                                   | I/O                        | 150                           | 1                       | 0                          | Sel.   |  |  |         | 1495.00                              | As above.  |
| PASS LABORATORIES   | Aleph P  | S  | L   | No                                    | 1-100 +0,-3           | 20    | 0.01                                    | I/O                        |                               | 1                       | 0                          | Sel.   |  |  |         | 3000.00                              | Single-ended Class A, no negative feedback.  |
| PERREAU (Continued) | EP-3   | S  | MM/MC/L   | No                                    | 20-50 ±0.3            | 8.2   | 0.008                                   |                            | 220                           | 2                       | 2                          |  | 2.0                                    | 74                                       | 52      | 895.00                               |  |
|                     | EP-4(RI)   | S  | MM/MC/L   | No                                    | 20-50 ±0.3            | 8.2   | 0.008                                   |                            | 220                           | 2                       | 2                          |  | 2.0                                    | 74                                       | 52      | 1095.00                              |  |

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# PREAMPLIFIERS

| MANUFACTURER                 | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | Circuitry: Solid State = S,<br>Tube = T, Hybrid = H, Passive = P | Stages: MM Phono = MM,<br>MC Phono = MC,<br>Line or High Level = L | D/A Conversion? | Frequency Response,<br>Hz to kHz, ±dB    | Maximum Output, V rms | THD, %               | Balanced Inputs = I,<br>Balanced Outputs = O | High-Level Sensitivity, mV | No. of Taps & Processor Loops | Number of Tone Controls | Does Unit Invert Polarity? | PHONO STAGE  |  |  | Price \$  | Notes   |
|------------------------------|--|--|--|-----------------|--|-----------------------|----------------------|--|----------------------------|-------------------------------|-------------------------|----------------------------|--|--|--|---|---|
|                              |  |  |  |                 |  |                       |                      |  |                            |                               |                         |                            | MM Phono Sensitivity, mV,<br>for 0.5 V Output at 1 kHz | MM Phono S/N, dB,<br>"A" Wtd. re: 5 mV | MC Phono S/N, dB,<br>"A" Wtd. re: 0.5 mV |   |   |
| PERREAU<br>(Continued)       | Reference SM-5   | S  | L  | No              | 10-65 ±0.4                               | 22                    | 0.001                | 200  | 2                          | 0                             |                         |                            |  |  | 1995.00                                  | Two sets of pre-out jacks.                                    |   |
|                              | Reference SM-6(RI)   | S  | L  | No              | 10-65 ±0.4                               | 22                    | 0.001                | 0  | 200                        | 2                             | 0                       |                            |  |  | 2495.00                                  | As above.   |   |
| PLACETE<br>ENGINEERING       | Vf(RO)   | S  | L  | No              | 1-100 ±0.03                              | 6                     | 0.015                |  | 2                          | 0                             | No                      |                            |  |  | 2995.00                                  | Stepped attenuator; unity gain.                               |   |
|                              | G2(RO)<br>P(RO)  | S<br>P   | L<br>L   | No<br>No        | 1-100 ±0.03                              | 6                     | 0.005                |  | 2<br>2                     | 0<br>0                        | No<br>No                |                            |  |  | 2995.00<br>1995.00                       | Stepped attenuator.<br>As above.                              |   |
| PLATINUM                     | One  | S  | L  | No              | 8-200 ±0.1                               | 20                    | 0.03                 |  |                            | 0                             | No                      |                            |  |  | 3500.00                                  | External power supply; Class A; discrete circuitry.           |   |
| POINTSOURCE<br>AUDIO         | PR100  | S  | L  | No              | 1-200                                    | 7                     | 0.01                 |  |                            | 0                             | No                      |                            |  |  | 850.00                                   |   |   |
|                              | PRT100<br>PR10   | T<br>P   | MM/L<br>L  | No<br>No        | 5-125                                    | 20                    | 0.05                 |  |                            | 0<br>0                        | No<br>No                |                            |  |  | 950.00<br>600.00                         |   |   |
| POLYFUSION<br>AUDIO          | 940  | S  | MM/MC/L  | Opt.            | 5-100 ±0.1                               | 16                    | 0.006                | 0  | 250                        | 2                             | 0                       | Sel.                       | 0.25-5   | 72                                     | 66                                       | 4000.00   | External power supply; dual outputs; Class A; without phono, \$3250.00.   |
| PRESENCE<br>AUDIO            | Linestage I  | T  | L  | No              | 5-250 +0,-3                              | 30                    | 0.4                  |  |                            | 1                             | 0                       | Yes                        |  |  |  | 1850.00   | External power supply; stepped attenuators.   |
| PROCEED                      | PAV(RI)  | S  | L  | No              | 20-20 +0,-0.2                            |                       | 0.01                 | I/O  |                            | 4                             | 0                       | No                         |  |  |  | 4195.00   | Multi-zone; video switching; THX certified (see also "Surround Processors").  |
|                              | PRE(RI)  | S  | L  | No              | 20-20                                    |                       | 0.03                 | I/O  |                            | 2                             | 0                       | Yes                        |  |  |  | 2500.00   | Remote turn-on of Proceed amps.   |
| PROTON                       | AP-2000(RI)  | S  | MM/L   | No              | 20-20 ±0.5                               | 10                    | 0.02                 |  | 150                        | 2                             | 2                       | No                         | 2.5  | 75                                     |  | 300.00  | Bass EQ.  |
| PS AUDIO                     | 6.2  | S/P  | L  | No              | 20-20 ±0.1                               | 8.5                   | 0.01                 |  | 90                         | 1                             | 0                       | No                         |  |  |  | 795.00  | Direct coupled; active or passive operation.  |
|                              | 5.7<br>Phonolink<br>7.0(RI)                                | S/P<br>S   | MM/MC/L<br>MM/MC<br>L  | No<br>No<br>No  | 20-20 ±0.1<br>20-20 ±0.25<br>20-20 ±0.01 | 8.5                   | 0.01<br>0.01<br>0.03 | I/O  | 90                         | 1                             | 0                       | No<br>No<br>Sel.           | 4.8<br>4.8   | 85<br>85                               | 74<br>74                                 | 995.00<br>795.00<br>1195.00                                   | As above.<br>Passive EQ.  |
| PSE                          | PDL-1  | H  | L  | Opt.            |  |                       |                      | I/O  |                            | 1                             |                         | Sel.                       |  |  |  | 2475.00   | Optional plug-in D/A, \$875.00, and phono section, \$600.00.  |
|                              | Studio SL<br>Phono   | S  | MM/MC/L  | No              | 5-100 +0,-0.1                            | 12                    | 0.005                | 0  | 250                        | 1                             | 0                       | Sel.                       | 10   | 80                                     | 78                                       | 950.00  | Without phono stage, Studio SL Line, \$850.00.  |
| PUREST SOUND<br>SYSTEMS      | 500 Dual Mono  | S/P  | L  | No              | 0-150                                    |                       | 0.001                | No   |                            | 1                             | 0                       | No                         |  |  |  | 315.00  |   |
|                              | 1000 Dual Mono   | S/P  | L  | No              | 0-150                                    |                       | 0.001                | No   |                            | 2                             | 0                       | No                         |  |  |  | 435.00  |   |
|                              | 1000 Dual Mono<br>Deluxe                                   | S/P  | L  | No              | 0-150                                    |                       | 0.001                | No   |                            | 2                             | 0                       | No                         |  |  |  | 465.00  | Active stage can be bypassed.   |
| QUAD                         | 66(RI)   | S  | MM or MC/<br>L   | No              | 15-20 ±0.2                               | 2                     | 0.025                |  | 300                        | 2                             | 6                       | No                         | 3  | 90                                     | 90                                       | 1599.00   | Buffered video input.   |
|                              | 34   | S  | MM or MC/<br>L   | No              | 20-20 ±0.5                               | 2                     | 0.05                 |  | 300                        | 1                             | 6                       | No                         | 3  | 75                                     | 80                                       | 749.00  |   |
| QUICKLINE<br>PRODUCTS        | PA-4   | S  | MM/MC  |                 | 10-20 ±0.2                               | 11.5                  | 0.01                 |  |                            |                               |                         | No                         | 3.1  | 90                                     | 75                                       | 1595.00   | External power supply.  |
|                              | CC-1   | P  | L  |                 |  |                       |                      |  |                            | 2                             | 0                       | No                         |  |  |  | 1295.00   |   |
|                              | CC-2   | P  | L  |                 |  |                       |                      |  |                            | 1                             | 0                       | No                         |  |  |  | 895.00  |   |
|                              | CC-3   | P  | L  |                 |  |                       |                      |  |                            | 0                             | 0                       | No                         |  |  |  | 495.00  |   |
| QUICKSILVER<br>AUDIO         | Preamp<br>Moving Coil<br>Transformer                       | T  | MM/L<br>MC   | No              | 1-650 +0,-3                              | 65<br>2.8             | .0005                |  | 20                         | 1                             | 0                       | No                         |  |  |  | 1995.00<br>365.00   | 12.5-ohm output impedance. Transformer; 23-dB fixed gain; for cartridges with output impedance from 0.5 to 40 ohms. |
|                              | REFERENCE LINE<br>AUDIO                                    | Preeminence<br>One(RO)   | P  | L               |  | 0-100 ±0.25           |                      |  |                            |                               | 1                       |                            |  |  |  |   | 1395.00   |
| Preeminence<br>One A(RO)     |  | P  | L  |                 | 0-100 ±0.25                              |                       |                      |  |                            | 1                             |                         |                            |  |  |  | 1495.00   | Ganged or individual volume control (selectable); with remote, \$1895.00.   |
| Preeminence<br>One B(RO)     |  | P  | L  |                 | 0-100 ±0.25                              |                       |                      | I/O  |                            | 0                             |                         |                            |  |  |  | 1895.00   | Individual left and right volume controls; with remote, \$2295.00.  |
| REGA RESEARCH                | Moza   | S  | MM/MC  |                 |  |                       |                      |  |                            |                               | No                      |                            |  |  |  |   |   |
| ROTEL                        | RC-970BX   | S  | L  | No              | 4-100 +0,-3                              | 10                    | 0.004                |  | 150                        | 2                             | 2                       | No                         |  |  |  | 279.90  | Dual outputs.   |
|                              | RC-980BX   | S  | MM/MC/L  | No              | 4-100 +0.5,-3                            | 10                    | 0.004                |  | 150                        | 2                             | No                      | 2.5                        | 75   | 70                                     | 549.90                                   | As above.   |   |
|                              | RC-990BX(RI)   | S  | MM/MC/L  | No              | 4-100 ±0.5                               | 10                    | 0.004                |  | 150                        | 2                             | No                      | 2.5                        | 75   | 70                                     | 749.00                                   | As above.   |   |
|                              | RHA-10(RI)   | S  | L  | No              | 4-100 +0.1,-0.3                          | 10                    | 0.004                |  | 140                        | 2                             | No                      |                            |  |  | 1799.90                                  | Optional phono stage.   |   |
|                              | RHC-10   | S  | L  | No              |  |                       |                      |  | 1                          | 1                             | No                      |                            |  |  | 999.90                                   | As above.   |   |
|                              | RTC-940AX(RI)  | S  | L  | No              | 4-100 +0,-3                              | 10                    | 0.004                |  | 150                        | 2                             | 2                       | No                         |  |  | 449.90                                   | Tuner/preamp (see also "Tuners").                             |   |
|                              | RQ-970BX   | S  | MM/MC  |                 | 20-20 ±0.2                               | 10                    | 0.004                |  |                            |                               |                         | No                         | 2.5  | 75                                     | 70                                       | 199.90  |   |
|                              | Phono<br>RHQ-10 Phono                                      | S  | MM/MC  |                 | 20-20 ±0.1                               | 10                    | 0.005                |  |                            |                               |                         | No                         | 2.5  | 90                                     | 75                                       | 1899.90   |   |
| JEFF ROWLAND<br>DESIGN GROUP | Consonance(RI)   | S  | MM/MC/L  | No              | 0.08-160 +0,-3                           | 7.5                   | 0.012                | 0  | Sel.                       | 1                             | 0                       | Sel.                       | 5  | 72                                     | 70                                       | 3700.00   | Microprocessor-controlled switching and volume; phono stage can be deleted.   |
| SENTEC                       | SC9  | S  | L  | No              | 0-200 +0,-3                              | 5.6                   | 0.01                 | No   | 200                        | 2                             | 0                       | No                         |  |  |  | 700.00  | Direct-coupled.   |
|                              | PP9MM  | S  | MM   |                 | 20-80 +0.2                               | 6                     | 0.01                 | No   |                            |                               |                         | No                         |  |  |  | 400.00  | Class A; d.c. servo.  |
|                              | MC9  | S  | MC   |                 | 0-500                                    |                       | 0.01                 | No   |                            |                               |                         | No                         |  | 82                                     | 100.00                                   | Add-on board for model above; adjustable MC loading and gain. |   |
| SESCOM                       | R/S TC   | S  | L  | No              | 20-30 +0,-0.5                            | 7                     | 0.001                | †  | 1V                         | 0                             | 3                       | No                         |  |  |  | 150.00  | †Transformer-balanced inputs and outputs. Kit, \$100.00. Requires PO-1 power supply.                                |
|                              | PO-11<br>PO-67   | S<br>S   | MC<br>MC   |                 | 20-20 ±1<br>20-20 ±1                     | 0.5<br>0.5            | 0.05<br>0.05         |  |                            |                               |                         | No<br>No                   |  |  | 63<br>63                                 |   |   |
| SIGNATURE<br>TECHNOLOGIES    | SRp-7  | T  | MM/MC/L  | No              | 10-35 ±1                                 | 12                    | 0.01                 |  | 65                         | 1                             | 0                       | No                         |  | 72                                     |  | 1995.00   | Without phono board, \$1695.00.   |
| SM AUDIO                     | Studio Series  | S  | MM/MC/L  | No              | 20-20 ±0.1                               | 10                    | 0.005                | No   | 250                        | 2                             | 0                       | Sel.                       |  | 80                                     | 70                                       | 929.00  |   |
| SONIC FRONTIERS              | SFL-1  | H  | L  | No              | 5-100 ±0.5                               | 20                    | 0.08                 |  | 200                        | 1                             | 0                       | No                         |  |  |  | 1395.00   |   |
|                              | SFL-1 Signature  | H  | L  | No              | 5-100 ±0.5                               | 20                    | 0.08                 |  | 200                        | 1                             | 0                       | No                         |  |  |  | 1795.00   |   |
|                              | SFP-1 Signature  | H  | MM/MC  |                 | 20-20 ±0.3                               | 1                     | 0.05                 |  |                            |                               |                         |                            |  |  |  | 1095.00   |   |
|                              | SFP-1 Signature<br>SFL-2                                   | H<br>T   | MM/MC<br>L   |                 | 20-20 ±0.3<br>5-100 ±3                   | 1<br>45               | 0.05<br>0.075        | I/O  |                            |                               |                         |                            | 7<br>7   | 70<br>70                               | 65<br>65                                 | 1495.00<br>3695.00  | External power supply; stepped attenuator; direct inputs.   |
| SONOGRAPHE                   | SC25   | S  | MM/L   | No              |  | 7.5                   |                      |  |                            | 2                             | 0                       | Yes                        |  |  |  | 995.00  | Without phono stage, \$795.00.  |
| SONOGY                       | Concerto   | S  | L  | No              | 5-20 ±0.3                                | 5                     | 0.1                  | 0  | Var.                       | 1                             | 0                       | Sel.                       |  |  |  | 1895.00   | External power supply; Class-A headphone circuit; optional plug-in phono stage.                                     |
|                              | Concerto<br>RIAA Module                                    | S  | MM/MC  |                 | 20-20 ±0.25                              |                       | 0.1                  | 0  |                            |                               |                         |                            |  |  |  | 295.00  | Plug-in; passive RIAA EQ; no negative feedback.   |

# PREAMPLIFIERS

| MANUFACTURER             | Model (R)=Remote Included (RO)=Remote Optional | Circuitry: Solid State=S, Tube=T, Hybrid=H, Passive=P | Stages: MM Phono=MM, MC Phono=MC, Line or High Level=L, D/A Conversion? | Frequency Response, Hz to kHz, ±dB | Maximum Output, V rms | THD, % | Balanced Inputs=I, Balanced Outputs=O | High-Level Sensitivity, mV | No. of Tape & Processor Loops | Number of Tone Controls | Does Unit Invert Polarity? | PHONO STAGE   |                                     |                                       | Price, \$ | Notes   |                              |
|--------------------------|--|---|---|------------------------------------|-----------------------|--------|---------------------------------------|----------------------------|-------------------------------|-------------------------|----------------------------|---|-------------------------------------|---------------------------------------|-----------|---|------------------------------|
|                          |  |   |   |                                    |                       |        |                                       |                            |                               |                         |                            | MM Phono Sensitivity, mV, for 0.5 V Output at 1 kHz | MM Phono S/N, dB, "A" Wtd. re: 5 mV | MC Phono S/N, dB, "A" Wtd. re: 0.5 mV |           |   |                              |
| SONOGY (Continued)       | Concerto II Balanced Line Stage                | S   | L   | No                                 | 5-20 ±0.3             | 5      | 0.1                                   | I/O                        | Var.                          | 1                       | 0                          | No  |                                     |                                       | 1995.00   | External power supply.  |                              |
| SONY ES                  | TA-E2000-ESD(RI)                               | S   | MM/L  | Yes                                | 10-20 ±0.1            | 7      | †                                     |                            | 250                           | 5                       | ††                         | No  | 5                                   | 84                                    | 1250.00   | One coaxial and two optical inputs; digital Dolby Pro Logic; digital compression/expansion. †Analog input. 0.004%; digital, 0.003%. ††Parametric EQ.  |                              |
|                          | TA-E90ES(RI)                                   | S   | MM/MC/L   |                                    | 3-300 ±0.3            | 7      |                                       |                            | 150                           | 2                       | 2                          | No  | 0.25                                | 95                                    | 1800.00   |   |                              |
| SOUNDSTREAM TECHNOLOGIES | C.2THX(RI)                                     | S   | L   | No                                 | 1-50 ±3               | 7      | 0.05                                  |                            | Var.                          | 1                       | 1                          | No  |                                     |                                       | 2795.00   | THX certified (see also "Surround Processors"); two S-video inputs; two-zone A/V control optional. Four-zone A/V control; includes infrared repeater. |                              |
|                          | SN.1MkII(RO)                                   | S   | L   | No                                 |                       |        |                                       |                            |                               | 1                       |                            | No  |                                     |                                       | 1195.00   |   |                              |
| SOUNDTECH                | Preamp One                                     | T   | MM/L  |                                    | 20-100 ±0.3           | 2      | 0.1                                   |                            | 200                           | 1                       | 0                          | No  | 2                                   | 66                                    | 1299.00   | Turn-on delay; buffered, unity-gain tape inputs.  |                              |
| SOUND VALVES             | VTP-100  | T   | MM/L  | No                                 | 2-75 ±0.1             | 17     | 0.010                                 |                            | 50                            | 3                       | 0                          | No  | 7                                   | 80                                    | 599.00    | Class A, dual outputs.  |                              |
|                          |  |   |   |                                    |                       |        |                                       |                            |                               |                         |                            |   |                                     |                                       |           |   |                              |
| SPECTRAL AUDIO           | DMC-20 Reference                               | S   | MM/MC/L   | No                                 | 0-1M ±0.1             | 80     | 0.01                                  | I/O                        | 100                           |                         |                            | Sel.  | 1.5                                 | 90                                    | 7295.00   | External power supply; without 202 phono module, \$6695.00. External power supply; without 120 phono module, \$3195.00.                               |                              |
|                          | DMC-12   | S   | MM/MC/L   | No                                 | 0-1M ±0.1             | 40     | 0.01                                  |                            | 100                           |                         |                            | No  | 1.5                                 | 85                                    | 3695.00   |   |                              |
| SPECTRASCAN              | LCA-10   | S   | MM/MC/L   | No                                 | 3-250 ±0.3            | 15     | 0.05                                  | No                         | 100                           | 2                       | 0                          | No  | 1.0                                 | 85                                    | 78        | 1969.00   | Without MC input, \$1569.00. |
| SPECTRUM ENERGETICS      | PPA 1001                                       | P   | L   | No                                 | 0-150                 |        | 0.001                                 |                            |                               |                         |                            | No  |                                     |                                       | 1495.00   | Three outputs. As above.  |                              |
|                          | PPA 2001                                       | P   | L   | No                                 | 0-150                 |        | 0.001                                 |                            |                               |                         | No                         |   |                                     |                                       | 1495.00   |   |                              |
| SSI SURROUND SOUND       | System 5000                                    | S   | L   | Yes                                | 20-22                 | 10     | 0.05                                  | I/O                        |                               | 1                       | 0                          |   |                                     |                                       | 449.00    | Dolby Pro Logic decoding (see also "Surround Processors").  |                              |
| STANTON                  | 310B   |   | MM  |                                    | 20-20                 | 15     | 0.05                                  |                            |                               |                         |                            |   | 0.5                                 | 74                                    | 295.00    |   |                              |



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# PREAMPLIFIERS

| MANUFACTURER       | Model<br>(RI)=Remote Included,<br>(RO)=Remote Optional | Circuitry: Solid State=S,<br>Tube=T, Hybrid=H, Passive=P | Stages: MM Phono=MM,<br>MC Phono=MC,<br>Line or High Level=L,<br>D/A Conversion? | Frequency Response,<br>Hz to kHz, ±dB | Maximum Output, V rms     | THD, %   | Balanced Inputs=1,<br>Balanced Outputs=0 | High-Level Sensitivity, mV | No. of Tape & Processor Loops | Number of Tone Controls | Does Unit Invert Polarity? | PHONO STAGE   |                                       |   | Price, \$ | Notes  |
|--------------------|--|--|--|---------------------------------------|---------------------------|----------|--|----------------------------|-------------------------------|-------------------------|----------------------------|---|---------------------------------------|---|-----------|--|
|                    |  |  |  |                                       |                           |          |  |                            |                               |                         |                            | MM Phono Sensitivity, mV<br>for 0.5 V Output at 1 kHz | MM Phono S/N, dB<br>*A* Wtd. re. 5 mV | MC Phono S/N, dB<br>*A* Wtd. re. 0.5 mV |           |  |
| SUMO               | Diana  | S  | MM/MC/L  | Opt.                                  | 20-20 ±0.1                | 40       | 0.008                                    | 0                          | 300                           | 3                       | 0                          | No  | 0.5                                   | 85                                      | 80        | † Balanced differential, d.c.-coupled line stage; external power supply. †Line, \$1399.00; accepts one plug-in module (phono, \$150.00, or D/A, \$499.00).   |
|                    | Athena II  | S  | MM/MC/L  | Opt.                                  | 20-20 ±0.1                | 20       | 0.008                                    | †                          | 300                           | 3                       | 0                          | No  | 0.5                                   | 85                                      | 80        | † D.C.-coupled line stage. †Line, \$699.00; plug-in phono module, \$150.00; plug-in D/A module, \$499.00; optional balanced out, \$200.00 (not available with D/A).  |
|                    | Artemis(RI)  | S  | MM/MC/L  | Opt.                                  | 5-100 ±0.5                | 30       | 0.05                                     | I/O                        | 300                           | 2                       | 0                          | No  | 1.0                                   | 85                                      | 80        | † External power supply; theater mode with memory volume; no negative feedback in line-stage circuits. †Line, \$1499.00; accepts one plug-in module (phono, \$150.00, or D/A, \$499.00).   |
| SUTHERLAND         | C-1000(RI)   | S  | L  | No                                    | 0-200 ±0.1                | 20       | 0.01                                     | I/O                        | 200                           | 2                       | 0                          | Sel.  |                                       |   |           | 15,000. External power supply; protected connector bay.  |
|                    | C-1001   | S  | L  | No                                    | 0-200 ±0.1                | 20       | 0.002                                    | No                         | 200                           | 1                       | 0                          | No  |                                       |   |           | 9500.00 External power supply; stepped attenuator.   |
| SYMETRIX           | SX202  | S  | †  |                                       | 20-20                     | 9.75     | 0.007                                    | I/O                        |                               |                         |                            | Sel.  |                                       |   |           | 299.00 †Mike preamp. Mono and stereo outputs; 48-V phantom power; 1.23-mV sensitivity; half-rack size.   |
| SYMPHONIC LINE     | RG2 MKII   | S  | MM/MC/L  | No                                    | 5-300 ±3                  | 12       | 0.05                                     | No                         | 120                           | 4                       | 0                          | No  | 2.5                                   | 70                                      | 63        | 2900.00  |
|                    | RG3 MKIII  | S  | MM/MC/L  | No                                    | 5-300 ±3                  | 12       | 0.05                                     | I/O                        | 120                           | 4                       | 0                          | No  | 2.5                                   | 70                                      | 63        | 5800.00  |
| THRESHOLD          | T2(RI)   | S  | L  | No                                    | 0-200 +0,-1               | 25       | 0.001                                    | I/O                        |                               | 2                       | 0                          | No  |                                       |   |           | 5250.00 Modular; external power supply; without phono, \$5000.00.  |
|                    | T3(RI)   | S  | L  | No                                    | 0-125 +0,-1               | 15       | 0.005                                    | I/O                        |                               | 1                       | 0                          | No  |                                       |   |           | 2250.00 True balanced operation; external power supply.  |
|                    | FET 10/e HL<br>FET 10/e P                              | S<br>S   | MM/MC  | No                                    | 0-125 +0,-1<br>RIAA ±0.25 | 20<br>20 | 0.005<br>0.005                           | I/O<br>O                   |                               | 2<br>2                  | 0<br>0                     | No<br>No  |                                       |   |           | 3200.00 Unbalanced version of model above.<br>2500.00 External power supply.<br>As above.  |
| TIMBRE TECHNOLOGY  | TT-3(RO)   | T  | L  | No                                    | 20-20 ±0.5                | 10       | 0.005                                    |                            | 150                           | 1                       | 0                          | No  | 0.5                                   | 74                                      |           | 3295.00 Optional balanced in and out; 120/240 V a.c.   |
| TIMES ONE          | RFP-4  | S  | MM/MC/L  | Opt.                                  | 1-150 ±1                  | 14       | 0.02                                     | O                          | 45                            | 2                       | 2                          | No  | 0.8                                   | 90                                      | 80        | 890.00   |
|                    | RFP-3  | S  | MM/MC/L  | Opt.                                  | 1-150 ±1                  | 14       | 0.02                                     | O                          | 45                            | 2                       | 2                          | No  | 0.8                                   | 90                                      | 80        | 790.00   |
| TUBE RESEARCH LABS | GTRP<br>GTRPP  | T<br>T   | L<br>MC  |                                       |                           |          |  |                            |                               |                         |                            |   |                                       |   |           | 8500.00 Stepped attenuators.<br>12,500. As above; MC phono sensitivity, 0.125 mV.  |
| VAC                | CPA1 MKII  | T/P  | MM/MC/L  | No                                    | 3-150 +0,-0.25            | 19       | 0.022                                    |                            | Var.                          | 1                       | 0                          | No  | Var.                                  | 85                                      | 77        | 4390.00 Class A; external power supply; selectable buffered passive mode; adjustable phono gain, impedance, and capacitance; optional balanced out; line-only version without feedback. CLA1 MKII, \$2990.00   |
|                    | CPP1 MKII  | T  | MM/MC  |                                       | 20-20 ±0.1                | 10       |  |                            |                               |                         |                            | No  | Var.                                  | 85                                      | 70        | 2990.00 Class A; external power supply; adjustable gain, impedance, and capacitance.   |
|                    | Vintage MKII   | T  | MM/MC/L  | No                                    | 3-150 +0,-0.25            | 19       | 0.025                                    |                            |                               | 1                       | 0                          | Yes   | 0.5                                   | 83                                      | 73        | 2490.00 Class A; optional cage and balanced out; line-only version without feedback. Vintage Line Stage MKII, \$1890.00.   |
| J. C. VERDIER      | Le Control   | P  | MM/L   | No                                    |                           |          |  |                            |                               | 1                       | 0                          | No  |                                       |   |           | 795.00 MM stage requires optional power supply, \$50.00.   |
| VIMAK              | DT-800 MKII (RI)                                       | S  | L  | Yes                                   | 5-20 +0.1,-0.5            | 12       | 0.003                                    |                            |                               | 1                       |                            | Sel.  |                                       |   |           | 5400.00 Digital preamp/CD player (see also "CD Players"); Delta Sigma D/A conversion; accepts up to 24-bit data; dither applied; digital volume and balance controls; two digital inputs and two digital outputs; optional AT&T digital input and output; optional balanced analog output. |
|                    | DS-2000(RI)  | S  | L  | Yes                                   | 5-20 +0.1,-0.5            | 12       | 0.004                                    | I/O                        |                               | 1                       |                            | Sel.  |                                       |   |           | 5000.00 Delta Sigma D/A conversion; accepts up to 24-bit data; dither applied; seven digital inputs; digital volume and balance controls; RS232/485 port; optional AT&T digital input; optional buffered digital output.   |
|                    | DS-2000 MKII (RI)                                      | S  | L  | Yes                                   | 5-20 +0.1,-0.5            | 17       | 0.003                                    | I/O                        |                               | 1                       |                            | Yes   |                                       |   |           | 5900.00 As above but seven digital inputs include one AT&T and one AES/EBU; includes buffered digital output; Class-A output stage; software upgradable.   |
| VTL                | TL-2   | T  | L  | No                                    | 10-200 ±1                 | 25       | 0.007                                    |                            | 100                           | 1                       | 0                          | No  |                                       |   |           | 990.00   |
|                    | TL-5   | T  | L  | No                                    | 10-200 ±1                 | 30       | 0.005                                    |                            | 100                           | 1                       | 0                          | No  |                                       |   |           | 2490.00  |
|                    | PR-1   | T  | MM/MC/L  | No                                    | 10-200 ±1                 | 32       | 0.005                                    |                            | 100                           | 2                       | 0                          | No  | 0.15                                  | 74                                      | 70        | 2990.00  |
|                    | PR-9   | T  | MM or MC/L   | No                                    | 10-200 ±1                 | 35       | 0.007                                    | †                          | 100                           | 1                       | 0                          | No  | 0.15                                  | 73                                      | 68        | 4290.00  |
|                    | TP-2   | T  | MM   |                                       | 20-30 ±0.7                | 10       | 0.01                                     |                            |                               |                         |                            | No  | 0.25                                  | 72                                      |           | 890.00 †Balanced phono input on MC version.  |
| WAVELENGTH AUDIO   | Sine   | T  | L  | No                                    | 10-100 +0,-1              | 12       | 0.1                                      | 0                          | 100                           | 1                       | 0                          | No  |                                       |   |           | 1750.00 Optional 48-step attenuator, \$500.00.   |
| WHITE AUDIO LABS   | P2000  | S  | L  | No                                    | 0-200                     | 10.5     | 0.001                                    | 0                          |                               |                         | 0                          | Yes   |                                       |   |           | 1595.00 External power supply.   |
| WIN RESEARCH       | SPA-10   | T  | L  |                                       | 5-80                      | 25       | 0.01                                     | I/O                        |                               | 2                       | 0                          |   |                                       |   |           | 3500.00 Stepped attenuators.   |

# PREAMPLIFIERS

| MANUFACTURER         | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | Circuitry: Solid State=S,<br>Tube=T, Hybrid=H, Passive=P | Stages: MM Phono=MM,<br>MC Phono=MC,<br>Line or High Level=L | D/A Conversion? | Frequency Response,<br>Hz to kHz, ±dB | Maximum Output, V rms | THD, % | Balanced Inputs=1,<br>Balanced Outputs=0 | High-Level Sensitivity, mV | No. of Taps & Processor Loops | Number of Tone Controls | Does Unit Invert Polarity? | PHONO STAGE  |                                       |  | Notes   |
|----------------------|--|--|--|-----------------|---------------------------------------|-----------------------|--------|--|----------------------------|-------------------------------|-------------------------|----------------------------|--|---------------------------------------|--|---|
|                      |  |  |  |                 |                                       |                       |        |  |                            |                               |                         |                            | MM Phono Sensitivity, mV,<br>for 0.5 V Output at 1 kHz | MM Phono S/N, dB<br>"A" Wtd. re: 5 mV | MC Phono S/N, dB,<br>"A" Wtd. re: 0.5 mV |   |
| WOODSIDE/<br>RADFORD | SC26P  | T  | MM/MC/L  | No              | 5-50 +0,-1                            | 25                    | 0.1    | 100                                      | 3                          | 0                             | No                      | 2.0                        | 85   | 85                                    | 3495.00                                  | Buffered tape outputs; without phono stage, SC26L, \$2495.00.   |
|                      | SC27P  | †  | MM or MC/L   | No              | 5-50 +0,-1                            | 20                    | 0.1    | 200                                      | 1                          | 0                             | No                      | 3                          | 80   | 80                                    | 1895.00                                  |   |
| WRIGHT AUDIO         | LGP-1  | T  | L  | No              | 10-100 +0,-0.5                        | 8                     | 0.02   | 100                                      | 2                          | 0                             | Yes                     |                            |  |                                       | 685.00                                   | Up to three additional outputs, \$250.00.<br>External power supply; three variable, one fixed, and three tape outputs.  |
|                      | PL-1   | T  | MM/L   | No              | 10-100 +0,-0.5                        | 8                     | 0.02   | Var.                                     | 1                          | 0                             | Yes                     |                            |  | 850.00                                |  |   |
|                      | PLT-2  | T  | MM/L   | No              | 10-100 +0,-0.5                        | 8                     | 0.01   | Var.                                     | 0                          | 2                             | Sel.                    |                            |  | 1150.00                               |  |   |
| YAMAHA               | CX-1(RI)   | S  | MM/MC/L  | No              | 20-20 ±0.2                            | 8                     | 0.002  | 150                                      | 3                          | 2                             | No                      | 0.83                       | 95   | 90                                    | 1199.00                                  | Seven-position record out selector. S-video inputs.   |
|                      | CX-2(RI)   | S  | MM/MC/L  | No              | 20-20 ±0.2                            | 8                     | 0.002  | 150                                      | 4                          | 2                             | No                      | 0.83                       | 94   | 82                                    | 799.00                                   |   |
|                      | CX-630(RI)   | S  | MM/MC/L  | No              | 20-20 +0,-0.2                         | 8.5                   | 0.002  | 50                                       | 2                          | 2                             | No                      | 0.83                       | 94   | 84                                    | 449.00                                   |   |
| YAMAMURA<br>SYSTEMS  | Phono-Pre  | S  | MC   | No              |                                       | 10                    |        | I/O                                      | 1                          | 0                             | No                      |                            |  |                                       | 13,500.                                  | External power supply; without phono, 1P Line, \$4995.00.<br>External power supply; without phono, 2P Line, \$2495.00.<br>Without phono, 3P Line, \$1600.00.<br>Two external power supplies, available without phono stage. |
|                      | Line-Pre   | S  | L  | No              |                                       | 10                    |        | I/O                                      | 1                          | 0                             | No                      |                            |  |                                       | 9750.00                                  |   |
|                      | Passive-Pre  | P  | L  | No              |                                       |                       |        | I/O                                      | 0                          | 0                             | No                      |                            |  |                                       | 4450.00                                  |   |
| YBA                  | 1P   | S  | MM/MC/L  | No              | 5-60 ±0.2                             | 8                     | 0.05   |  |                            |                               |                         | 2                          |  | 87                                    | 5750.00                                  | External power supply; without phono, 1P Line, \$4995.00.<br>External power supply; without phono, 2P Line, \$2495.00.<br>Without phono, 3P Line, \$1600.00.<br>Two external power supplies, available without phono stage. |
|                      | 2P   | S  | MM/L   | No              | 5-60 ±0.2                             | 8                     | 0.05   |  | 1                          | 0                             |                         | 2                          |  |                                       | 2750.00                                  |   |
|                      | 3P   | S  | MM/L   | No              | 5-70                                  | 8.3                   | 0.02   |  | 0                          | 0                             |                         |                            |  |                                       | 1800.00                                  |   |
|                      | Signature  | S  | MM/MC/L  | No              | 5-60 ±0.2                             | 8                     | 0.04   |  | 1                          | 0                             |                         | 2                          |  | 87                                    | 10,000.                                  |   |

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# TUNERS

| MANUFACTURER            | Model<br>(RI)=Remote Included,<br>(RO)=Remote Optional  | FM Only-F, Digitally Synthesized=D,<br>RDS=R | All Stereo<br>AMAX Certified=X | IHF (Usable) Sensitivity, dB,<br>Mono/Stereo | Signal Strength for<br>50-dB Quieting, dB, Mono/Stereo | Capture Ratio, dB, Wide/Narrow | AM Suppression, dB | Alternate-Channel Selectivity,<br>Wide/Narrow | Total Number of Station Presets | Separation at 1 kHz, dB | THD at 1 kHz, % Mono/Stereo,<br>100% Modulation | THD at 6 kHz, % Mono/Stereo,<br>100% Modulation | Maximum S/N, dB, Mono/Stereo | Weight, Lbs.                  | Price, \$                     |         |
|-------------------------|---|--|--------------------------------|--|--|--------------------------------|--------------------|---|---------------------------------|-------------------------|---|---|------------------------------|-------------------------------|-------------------------------|---------|
| ACCUPHASE               | T-109(RI)   | F/D  | No                             | 11/18  | 17/37  | 1.5/1.5                        | 80                 | 70/100  | 32                              | 50                      | 0.02/0.04                                       | 0.02/0.04                                       | 90/85                        | 21                            | 2995.00                       |         |
| ADCOM                   | GFT-555(I)<br>GTP-600(RI)<br>Tuner/Preamp/<br>Surround<br>GTP-550(RI)<br>Tuner/Preamp/<br>Surround<br>GTP-450(RI)<br>Tuner/Preamp/<br>Surround<br>GTP-350<br>Tuner/Preamp | D  | No                             | 11.2/  | 13.2/35.0  | 1.5                            | 65                 | 76  | 16                              | 60                      | 0.065/0.05                                      |   | 86/78                        | 14                            | 375.00                        |         |
|                         |   |  | D                              | No   | 12.2/  | 14/36                          | 1.7                | 63  | 75                              | 14                      | 55  | 0.07/0.09                                       |                              | 80/75                         | 16                            | 1000.00 |
|                         |   | D  | No                             | 12.2/  | 14.0/36.0  | 1.7                            | 63                 | 75  | 14                              | 55                      | 0.07/0.09                                       |   | 80/75                        | 15                            | 800.00                        |         |
|                         |   |  | No                             | 12.5/  | 15/36  | 1.8                            | 60                 | 73  | 14                              | 50                      | 0.08/0.09                                       |   | 78/75                        | 12                            | 480.00                        |         |
|                         |   | D  | No                             | 12.5/  | 15/36  | 1.8                            | 60                 | 73  | 14                              | 50                      | 0.08/0.09                                       |   | 78/75                        | 11                            | 350.00                        |         |
| ARAGON                  | 4T2   | D  | No                             | 10.8/  | /37.6  | 1.0                            | 80                 | 66  | 16                              | 50                      | /0.09   | /0.12   | /75                          | 15                            | 695.00                        |         |
| ARCAM                   | Alpha 5<br>Delta 280  |  |                                |  |  | 1.5<br>1.5                     | 50<br>50           | 60<br>60                                      | 16<br>20                        | 40<br>40                | 0.10/0.30<br>0.10/                              |   | 75/<br>75/72                 | 5<br>6                        | 399.00<br>699.00              |         |
| AUDIO DESIGN ASSOCIATES | MT-3000<br>Multi-Tuner(RO)<br>(multi-room)  | D  | A                              | 8/14.5                                       | 13/34  | 1.4                            | 54                 | 80  | 3x20                            | 50                      | 0.075/0.09                                      |   | 74/69                        | 8                             | 3999.00                       |         |
| AUDIOLAB                | 8000T   | D  |                                | 6/25   | 17/36  | 1/2                            | 60                 | 65/40   | 39                              | 50                      | 0.05/0.08                                       |   | 82/75                        | 16                            | 1150.00                       |         |
| AUDIOSOURCE             | TNR-One   |  | No                             |  | 20.16/26.2   | 1.0                            |                    | 65  | 20                              |                         | 0.2/0.4   |   | 76/70                        | 8                             | 229.95                        |         |
| B & K COMPONENTS        | TS2080<br>AVP1000(RI)<br>Tuner/Preamp   | D  | No                             | 12/18  | 17/  | 2                              | 55                 | 65  | 8                               | 40                      | 0.3/  | 0.3/  | 70/                          | 12                            | 598.00                        |         |
|                         |   |  | D                              | No   | 12/18  | 17/                            | 2                  | 55  | 65                              | 64                      | 40  | 0.3/  | 0.3/                         | 70/                           | 12                            | 798.00  |
|                         |   |  |                                |  |  |                                |                    |   |                                 |                         |   |   |                              |                               | w/opt. surr.<br>board, 998.00 |         |
| CALRAD                  | 95-935  |  |                                | 11.2/  | 15.3/  | 1.5                            | 60                 |   | 0                               |                         |   | 0.5/  |                              |                               |                               |         |
| CAMBRIDGE AUDIO         | T50(RO)   | F/D  |                                |  |  | 2.5                            |                    |   | 24                              |                         | 0.1/0.2   | 0.1/0.2   | 85/75                        | 9                             | 349.95                        |         |
| CARVER                  | TX-11b<br>TX-8(RI)<br>CT-29V(RI)<br>Tuner/Preamp<br>CT-27V(RI)<br>Tuner/Preamp<br>CT-23(RI)<br>Tuner/Preamp   | D  | A                              | 11.3/34                                      | 16.1/37  | 1.0/                           | 50                 | 35/90   | 13                              | 45                      | /0.9  |   | /75                          | 12                            | 799.95                        |         |
|                         |   |  | D                              | No   | 12.8/22  | 17.2/40.7                      | 1.5                | 60  | 63                              | 20                      | 45  | /0.3  |                              | /70                           | 7                             | 350.00  |
|                         |   | D  | No                             | 13.5/23                                      | 16.8/39.2  | 1.5/                           | 55                 | 65  | 40                              | 30                      | 40  | 0.2/0.5   |                              | 76/68                         | 12                            | 1200.00 |
|                         |   | D  | No                             | 13.5/23                                      | 16.8/39.2  | 1.5/                           | 55                 | 64/40   | 30                              | 40                      | 40  | 0.2/0.5   |                              | 76/68                         | 12                            | 850.00  |
|                         |   | D  | No                             | 13.5/23                                      | 16.8/39.2  | 1.5/                           | 55                 | 65/40   | 30                              | 40                      | 0.2/0.5   |   | 76/68                        | 12                            | 650.00                        |         |
| DAY SEQUERRA            | FM Reference<br>FM Reference<br>Panalyzer   | F<br>F                                       |                                |  |  |                                |                    |   |                                 |                         |   |   | 34<br>36                     | 5300.00<br>13,800.            |                               |         |
| DENON                   | TU-680NAB(RI)<br>TU-650RD(RI)<br>TU-380RD(RO)<br>TU-280   | D  | A/X                            | 11.2/  | 15.3/37.2  | 1.3/                           | 60                 | 50/75   | 30                              | 50                      | 0.06/0.1  |   | 88/82                        | 7                             | 600.00                        |         |
|                         |   |  | D/R                            | No   | 12.8/  | 15.3/37.2                      | 1.3/               | 60  | 50/70                           | 30                      | 50  | 0.06/0.1  |                              | 88/82                         | 7                             | 375.00  |
|                         |   | D/R  | No                             | 12.8/38.5                                    | 15.3/38.5  | 1.5                            | 50                 | 50  | 40                              | 40                      | 40  | 0.1/0.15  |                              | 82/78                         | 6                             | 300.00  |
|                         |   | D  | No                             | 12.8/  | 15.3/38.5  | 1.5                            | 50                 | 50  | 30                              | 40                      | 40  | 0.1/0.2   |                              | 79/74                         | 6                             | 250.00  |
| DUSON                   | T75   | D  | No                             | 26/46  |  |                                |                    | 80  | 40                              |                         |   |   | /70                          |                               | 1250.00                       |         |
| ELITE                   | F-93  | D  | No                             | 11.2/  | 15.9/36.2  | 1.0                            | 80                 | 85  | 40                              | 60                      | 0.03/0.2  |   | 96/88                        | 14                            | 900.00                        |         |
| HANFARE FM              | FT-1(RI)  | F  |                                | 10.5/11.5                                    | 15.0/35.0  | 1.5/                           | 70                 | 55/75   | 8                               | 50                      | 0.15/0.3  |   | 75/                          | 12                            | 1095.00                       |         |
| HARMAN KARDON           | TU930<br>TU9600<br>PT2300(RI)<br>Tuner/Preamp   | D  | No                             | 11.2/  | /37.2  | 2.0                            | 55                 | 70  | 30                              | 45                      | 0.2/0.2   |   | 76/68                        | 8                             | 199.00                        |         |
|                         |   |  | D                              | No   | 11.2/  | /36.2                          | 1.0/               | 65  | 45/80                           | 24                      | 50  | 0.06/0.08                                       |                              | 82/75                         | 9                             | 429.00  |
|                         |   | D  | No                             | 11.2/  | /37.2  | 1.5                            | 65                 | 70  | 16                              | 50                      | 0.08/0.09                                       |   | 80/74                        | 11                            | 629.00                        |         |
| JVC                     | FX1100BK<br>FX1010TN  | D  | No                             | 10.3/  | 14.8/38.1  | 1.2/                           | 65                 | 25/75   | 40                              | 60                      | 0.009/  |   | 94/88                        | 8                             | 470.00                        |         |
|                         |   |  | D                              | No   | 10.3/  | 14.8/38.1                      | 1.2/               | 65  | 25/75                           | 40                      | 60  | 0.009/0.02                                      |                              | 94/88                         | 8                             | 480.00  |
| LINN                    | Kremlin(RI)   | F/D  |                                |  |  |                                |                    |   | 80                              |                         |   |   | 10                           | 3700.00                       |                               |         |
| LUXMAN                  | T-353L  | D  | No                             | 10.8/  |  | 1.5                            |                    | 62  | 30                              | 48                      | 0.1/0.15  |   | 78/65                        | 12                            | 500.00                        |         |
| MAGNUM DYNALAB          | Etude(RO)<br>FT101A(RO)<br>FT11   | F  |                                | 10.3/11.2                                    | 13.2/34  | 1.5/                           | 70                 | 70/80   |                                 | 60                      | 0.10/0.18                                       |   | 80/                          | 15                            | 1350.00                       |         |
|                         |   |  | F                              |  | 10.3/11.2  | 13.2/34                        | 1.5/               | 70  | 60/80                           |                         | 60  | 0.10/0.18                                       |                              | 75/                           | 12                            | 875.00  |
|                         |   | F  |                                | 12/13.0                                      | 14.5/35.3  | 1.5                            | 70                 | 70  | 3                               | 50                      | 50  | 0.13/0.30                                       |                              | 75/                           | 10                            | 545.00  |
| MARANTZ                 | ST-53   | D  | No                             | 11.2/  | 16.2/37  | 1                              |                    | 75  | 59                              | 45                      | 0.1/0.2   |   | 80/73                        | 10                            | 299.00                        |         |
| McINTOSH                | MR7083  |  | No                             | /11.25                                       | /37  | 1.5                            |                    | 70  | 8                               | 50                      | 0.08/0.08                                       |   | 80/75                        | 16                            | 1750.00                       |         |
| MERIDIAN                | 204<br>604<br>504   | F/D  |                                | 10/17  | 10/35  |                                | 50                 | 60/65   |                                 | 40                      |   |   | 78/74                        | 10                            | 1190.00                       |         |
|                         |   |  | F/D                            |  | 10/17  | 10/35                          |                    | 50  | 60/65                           |                         | 40  |   |                              | 78/74                         | 18                            | 2250.00 |
|                         |   | F/D  |                                | 10/17  | 10/35  |                                | 50                 | 60/65   |                                 | 40                      |   |   | 78/74                        | 16                            | 995.00                        |         |
| MUSEATEX AUDIO          | FM1(RI)   | F/D  |                                | /11.3  | 17.2/37.2  | 1.5                            |                    |   | 99                              |                         | 0.1/0.18  |   | 72/68                        | 22                            | 1199.00                       |         |
| NAD                     | 402<br>1600(RI)<br>Tuner/Preamp   | D  | No                             | 11.3/  | 15/37  | 1.6/1.6                        | 60                 | 58/   | 24                              | 45                      | 0.08/0.1  | 0.2/0.3   | 80/74                        | 8                             | 249.00                        |         |
|                         |   |  | D                              | No   | 11/  | 11/36                          | 1.6                | 60  | 68/                             | 14                      | 50  | 0.1/0.1   | 0.2/0.3                      | 82/76                         | 14                            | 449.00  |
| NAIM AUDIO              | NAT 03<br>NAT 02<br>NAT 01  | F<br>F<br>F                                  |                                |  |  |                                |                    |   |                                 |                         |   |   | 6<br>12<br>24                | 1055.00<br>1935.00<br>3095.00 |                               |         |
| ONIX                    | BWD1<br>BWD1(w/large<br>pwr. supply)  | F  | No                             | 7.5/   | 9.1/32   |                                | 65                 | 30/100  |                                 | 70                      | 0.08/0.20                                       |   | 90/91                        | 5                             | 1085.00<br>1545.00            |         |
| ONKYO                   | T-404<br>Integra T-407(RO)<br>T-450 RDS<br>Integra<br>T-9090MKII(RI)  | D  | No                             | 11.2/17.2                                    | 16.1/36.1  | 1.5                            | 50                 | 50  | 40                              | 40                      | 0.1/0.2   |   | 73/66                        | 8                             | 210.00                        |         |
|                         |   |  | D                              | No   | 10.8/17.2  | 16.1/36.1                      | 1.3                | 50  | 50                              | 40                      | 45  | 0.1/0.2   |                              | 85/80                         | 11                            | 365.00  |
|                         |   | D/R  | No                             | 11.2/17.2                                    | 16.1/36.1  | 1.5                            |                    |   | 40                              | 40                      |   |   | 76/70                        | 8                             | 355.00                        |         |
|                         |   | F  | No                             | 10.3/17.2                                    | 15.8/37.2  | 1.0                            | 60                 | 95  | 20                              | 55                      | 0.009/0.02                                      |   | 95/85                        | 19                            | 790.00                        |         |

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# TUNERS

| MANUFACTURER  | Model<br>(RI)=Remote Included<br>(RO)=Remote Optional                 | FM Only=F, Digitally Synthesized=D,<br>RDS=R |          | AM Stereo Capable=A,<br>AMAX Certified=X | IHF (Usable) Sensitivity, dBf,<br>Mono/Stereo    | Signal Strength for<br>50-dB Quieting, dBf, Mono/Stereo | Capture Ratio, dB, Wide/Narrow | AM Suppression, dB         | Alternate-Channel Selectivity, dB,<br>Wide/Narrow | Total Number of Station Presets | Separation at 1 kHz, dB                         | THD at 1 kHz, % Mono/Stereo,<br>100% Modulation | THD at 6 kHz, % Mono/Stereo,<br>100% Modulation | Maximum S/N, dB, Mono/Stereo     | Weight, Lbs.        | Price, \$                             |
|---------------|---|--|----------|--|--|---|--------------------------------|----------------------------|---|---------------------------------|---|---|---|----------------------------------|---------------------|---------------------------------------|
|               |   | D  | No       |  |  |   |                                |                            |   |                                 |   |   |   |                                  |                     |                                       |
| PARASOUND     | T/DQ-1600(RI)   | D  | No       | 10.8/16.8                                | 14.8/37.2  | 1.0/  | 55                             | 60/80                      | 20  | 46                              | 0.07/0.25                                       |   |   | 80/75                            | 8                   | 385.00                                |
| PHILIPS       | FT-920(RO)  | D  |          | 11/                                      |  |   | 2.0                            | 60                         | 60  | 30                              | 42  | 0.2/0.25  |   | 77/71                            | 9                   | 239.95                                |
| PIONEER       | F-449   | D  | No       | 12.1/                                    | 16.2/36.2  |   |                                | 70                         | 36  | 50                              | /C,3  |   |   | 83/78                            | 8                   | 285.00                                |
| PROTON        | AT-2700(RO)   | D  |          | 12.0/                                    | 15.5/36.5  | 1.5   |                                | 63                         | 65  | 30                              | 45  | 0.15/0.2  | 0.2/0.3   | 75/70                            | 8                   |                                       |
| QUAD          | 66FM(RO)<br>FM4   | F  | No       | 8/28<br>10/29                            | 19/40<br>20/41                                   | 0.9<br>1.5  | 70<br>60                       | 57<br>53                   | 19<br>8   | 50<br>45                        | 0.1/0.15<br>0.1/0.15                            |   |   | 76/70<br>76/70                   | 6<br>7              | 1099.00<br>899.00                     |
| REALISTIC     | TM-155  |  | No       |  |  |   |                                | 40                         | 0   | 35                              | /1.0  |   |   | /60                              | 2                   | 60.00                                 |
| REGA RESEARCH | The Radio   | D  |          |  |  |   |                                |                            |   |                                 |   |   |   |                                  |                     | 399.00                                |
| ROTEL         | RT950AX<br>RT990BX(RI)<br>RHT-10(RI)<br>RTC-940AX(RI)<br>Tuner/Preamp | D<br>D<br>D<br>D                             |          | 10.8/<br>10.8/<br>10.8/<br>10.8/         | 14.8/37.2<br>14.8/37.2<br>14.8/37.2<br>14.8/37.2 | 1.0/<br>1.0/<br>1.0/<br>1.0                             | 60<br>60<br>60<br>58           | 63<br>50/80<br>60/80<br>70 | 20<br>16<br>16<br>16                              | 46<br>50<br>50<br>48            | 0.05/0.25<br>0.05/0.12<br>0.05/0.1<br>0.07/0.25 |   |   | 80/75<br>87/82<br>87/82<br>80/75 | 8<br>11<br>12<br>11 | 299.90<br>749.90<br>1499.90<br>449.90 |
| SANSUI        | TUX519  | D  | No       | 10.8/                                    | 14.0/36.0  | 1.0   | 60                             | 60                         | 30  | 45                              | 0.15/0.2  |   |   | 80/74                            | 6                   | 2000.00                               |
| SESCOM        | R/S FM (w/bal-<br>anced & unbal-<br>anced outputs)                    | F  | No       | 10.8/17.5                                | 17.0/35  | 1.7/2.2   |                                |                            | 0   | 45                              | 0.1/0.2   | 0.1/0.15  |   | 70/65                            | 2                   | 150.00<br>Kit, 100.00                 |
| SONY ES       | ST-S211(RO)<br>ST-S550ES(RO)<br>ST-S707ES                             | D<br>D<br>D                                  |          | 19.5/<br>10.3/<br>10.3/                  | 22.1/42.1<br>16.8/38.5<br>16.8/37.5              | 1.0/<br>1.0/  | 54<br>65<br>65                 | 55<br>80/90<br>70/65       | 40<br>30<br>40                                    | 40<br>65<br>70                  | 0.3/0.5<br>0.04/0.05<br>0.004/0.0075            |   |   | 80/75<br>82/78<br>98/92          | 6<br>8<br>12        | 225.00<br>350.00<br>600.00            |
| SOUNDSTREAM   | T-1(RO)   | D  | No       | 11.2/17.2                                | 14.7/31.2  | 1.5   | 60                             | 65                         | 16  | 50                              | 0.1/0.1   | 0.12/0.1  |   | 82/79                            | 17                  | 595.00                                |
| TEAC          | T-X4030   | D  | No       | 10.8/                                    | 17/39.2  | 1.7   | 65                             | 68                         | 20  | 40                              | 0.2/0.4   |   |   | 80/72                            | 6                   | 220.00                                |
| TECHNICS      | ST-G460   |  | No       | 10.8/                                    | 18.1/38.1  | 1.0   | 55                             | 65                         | 39  | 50                              |   |   |   | 80/73                            | 6                   | 249.95                                |
| YAMAHA        | TX-950(RO)<br>TX-480(RO)  | D<br>D                                       | No<br>No | 9.3/<br>9.3/                             | 15.1/37.7<br>15.3/37.7                           | 1.2<br>1.5  | 70<br>55                       | 85<br>85                   | 40<br>40  | 60<br>52                        | 0.02/0.03<br>0.1/0.2                            |   |   | 96/90<br>82/76                   | 8<br>7              | 429.00<br>199.00                      |

# RECEIVERS

| MANUFACTURER   | Model<br>(RI)=Remote Included,<br>(RO)=Remote Optional                           | AMPLIFIER SECTION   |  |                          |   |   |  |                      |                         |                                     |                                 | TUNER SECTION                         |  |                          |  |                                   |                                  | Price, \$            |                         |                                      |
|----------------|--|---|--|--------------------------|---|---|--|----------------------|-------------------------|-------------------------------------|---------------------------------|---------------------------------------|--|--------------------------|--|-----------------------------------|----------------------------------|----------------------|-------------------------|--------------------------------------|
|                |  | Number of Amplified Channels<br>(Line-Level Subwoofer Output=S) | Avg. Watts/Ch. into 8 Ohms,<br>Front/Rear/Center | THD, % Front/Rear/Center | Headphone Jack?<br>(Jack with Level Control=LC) | Rated F. Full-Power Bandwidth,<br>Hz to kHz | MM Phono S/N, dB,<br>"A" Wtd. re: 5 mV | Dynamic Headroom, dB | Video Inputs?           | Surround/Ambience Type—<br>See Code | Total Number of Station Presets | Mono IHF (Usable)<br>Sensitivity, dBf | Signal Strength for<br>50-dB Quieting, dBf,<br>Mono/Stereo | Capture Ratio, dB        | THD at 1 kHz, %<br>Mono/Stereo,<br>100% Modulation | Alternate-Channel Selectivity, dB | Maximum S/N, dB,<br>Mono/Stereo  |                      | Separation at 1 kHz, dB | Weight, Lbs.                         |
| AUDIOACCESS    | MRX(RO;<br>multi-room)   | 12  | 30   | 0.1                      | No  | 20-20<br>±0.5                               |  | No                   | No                      | 6                                   | 11.2                            | 15.3/37.2                             | 1.3  | 0.06/0.1                 | 50   | 88/82                             | 50                               | 38                   | 4500.00                 |                                      |
| BANG & OLUFSEN | Beomaster<br>7000(RO<br>w/RDS)   | 2   | 55   | 0.09                     | Yes   | 20-20                                       | 78                                     | 1.5                  | Yes                     | 23                                  | 14                              | 19/40                                 | 1.8  | 0.16/0.2                 | 70   | 75/70                             | 45                               | 19                   | 2000.00                 |                                      |
| CARVER         | HR-895(RI)   |   | 110/35/<br>75                                    | 0.09/<br>0.09/<br>0.09   | Yes   | 20-20                                       | 75                                     | 1.2                  | Yes                     | D/DP                                | 30                              | 13.5                                  | 16.8/39.2  | 1.5                      | /0.5   | 70                                | /68                              | 40                   | 34                      | 1250.00                              |
| DENON          | AVR3000(RI)  |   | 110/35/<br>110                                   | 0.03/<br>0.05/<br>0.03   | Yes   | 20-20                                       | 76                                     |                      | Yes                     | DP/O                                | 16                              | 10.3                                  | 15.3/38.5  | 1.5                      | 0.1/0.2  | 80/75                             | 40                               |                      | 1400.00                 |                                      |
|                | AVR2500(RI;<br>w/RDS)  | 5   | 80/25/80   | 0.05                     | LC  | 20-20                                       | 76                                     |                      | Yes                     | DP                                  | 32                              | 10.3                                  | 15.3/38.5  | 1.5                      | 0.1/0.15   | 55                                | 80/75                            | 40                   | 30                      | 1000.00                              |
|                | AVR1500(RI;<br>w/RDS)  | 5   | 70/20/70   | 0.08                     | LC  | 20-20                                       | 76                                     |                      | Yes                     | DP                                  | 32                              | 10.3                                  | 15.3/38.5  | 1.5                      | 0.1/0.15   | 55                                | 80/75                            | 40                   | 26                      | 750.00                               |
|                | AVR1000(RI)  |   | 70/20/70   | 0.08/<br>0.1/<br>0.08    | Yes   | 20-20                                       | 74                                     |                      | Yes                     | DP/O                                | 16                              | 10.3                                  | 15.3/38.5  | 1.5                      | 0.1/0.2  | 80/75                             | 40                               |                      | 700.00                  |                                      |
|                | AVR800(RI)<br>DRA835R(RI)<br>DRA635R(RI)<br>DRA565R(RI;<br>w/RDS)<br>DRA365R(RI) | 2   | 60/15/60<br>100<br>80<br>65                      | 0.015<br>0.05<br>0.05    | Yes<br>Yes<br>Yes<br>LC                         | 20-20<br>20-20<br>20-20<br>20-20            | 74<br>86<br>86<br>78                   |                      | Yes<br>Yes<br>No<br>Yes | DP/O<br>Yes<br>Yes<br>No            | 16<br>30<br>30<br>40            | 10.3<br>10.3<br>10.3<br>10.3          | 15.3/38.5<br>14.8/37.3<br>15.3/38.5<br>15.3/38.5           | 1.5<br>1.5<br>1.5<br>1.5 | 0.15/0.3<br>0.06/0.09<br>0.08/0.15<br>0.1/0.15     | 75<br>55<br>55<br>55              | 80/75<br>86/82<br>82/78<br>82/78 | 40<br>55<br>40<br>40 | 15                      | 500.00<br>800.00<br>550.00<br>400.00 |
| DUAL           | CR5950RC<br>(RI)<br>DR9065RC<br>(RI)   |   | 60   | 0.03                     | Yes   | 20-20                                       | 75                                     |                      | Yes                     |                                     | 16                              |                                       |  | 1.5                      | 0.1/0.15   | 75                                | 75/                              |                      | 28                      | 620.00                               |
|                |  |   | 60   | 0.03                     | Yes   |   | 70                                     |                      | Yes                     |                                     | 40                              |                                       |  |                          |  | 75                                | 70/                              |                      | 25                      | 480.00                               |



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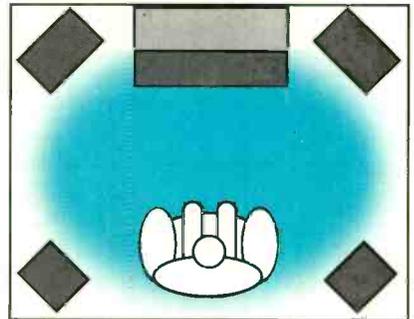
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# RECEIVERS

| MANUFACTURER                | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | AMPLIFIER SECTION   |  |                         |   |  |                                      |                      |               |                                     |                                 | TUNER SECTION                         |  |                   |  |                                   |                                 |                         |              |                      |  |
|-----------------------------|--|---|--|-------------------------|---|--|--------------------------------------|----------------------|---------------|-------------------------------------|---------------------------------|---------------------------------------|--|-------------------|--|-----------------------------------|---------------------------------|-------------------------|--------------|----------------------|--|
|                             |  | Number of Amplified Channels<br>(Line-Level Subwoofer Output = S) | Avg. Watts (Ch. into 8 Ohms,<br>Front/Rear/Center) | THD, %                  | Headphone Jack?<br>(Lack with Level Control = LC) | Rated Full-Power Bandwidth,<br>Hz to kHz | MM Phono S/N, dB,<br>A-Wid. re. 5 mV | Dynamic Headroom, dB | Video Inputs? | Surround/Ambience Type—<br>See Code | Total Number of Station Presets | Mono IFF (Usable)<br>Sensitivity, dbf | Signal Strength for<br>50-dB Quieting, dbf,<br>Mono/Stereo | Capture Ratio, dB | THD at 1 kHz, %<br>Mono/Stereo,<br>100% Modulation | Alternate-Channel Selectivity, dB | Maximum S/N, dB,<br>Mono/Stereo | Separation at 1 kHz, dB | Weight, Lbs. | Price, \$            |  |
| ELITE                       | VSX-97(RI)   | 5, S  | 70/45/70   | 0.005/<br>0.8/<br>0.005 | Yes   | 20-20                                    |                                      |                      | 5             | DP/O                                | 30                              | 11.2                                  | 16.4/38.2  | 1.0               | 0.08/0.15  | 65                                | 80/76                           | 50                      | 35           | 2250.00              |  |
|                             | VSX-95(RI)   | 5, S  | 125/40/<br>40                                      | 0.005/<br>0.08/<br>0.08 | Yes   | 20-20                                    |                                      |                      | 6             | DP/O                                | 30                              | 10.8                                  | 15.3/37  | 1.0               | 0.08/0.15  | 65                                | 80/76                           | 50                      | 36           | 1350.00              |  |
|                             | VSX-53(RI)   | 4   | 100/100/<br>100                                    | 0.05                    | Yes   | 20-20                                    |                                      |                      | 5             | DP/O                                | 30                              | 11.2                                  | 16.8/38.6  | 1.0               | 0.2/0.3  | 65                                | 80/76                           | 45                      | 28           | 900.00               |  |
|                             | VSX-52(RI)<br>SX-31(RI)                                    | 5<br>2  | 50/20/50<br>100                                    | 0.05<br>0.03            | Yes<br>Yes  | 20-20<br>20-20                           |                                      |                      | Yes<br>No     | DP/O<br>No                          | 30<br>30                        | 11.3                                  | 15.3/37<br>16.4/38.1                                       | 1.0<br>/0.3       | 0.2/0.3<br>/0.3                                    | 55<br>65                          | 76/80<br>78/73                  | 50<br>40                | 22<br>17     | 750.00<br>450.00     |  |
| FISHER                      | RS-737(RI)   | 5   | 80/20/80   | 0.05/<br>0.9            | Yes   | 20-20                                    | 70                                   |                      | Yes           | DP                                  | 40                              | 14.7                                  |  | 1.5               | 0.3/0.4  | 50                                | 73/66                           | 40                      | 27           | 449.95               |  |
|                             | RS-727(RI)   | 5   | 100/10/<br>20                                      | 0.08/<br>0.9            | Yes   | 20-20                                    | 70                                   |                      | Yes           | DP                                  | 40                              | 14.7                                  |  | 1.5               | 0.3/0.4  | 50                                | 73/66                           | 40                      | 26           | 349.95               |  |
|                             | RS-717(RI)   | 2   | 80   | 0.9                     | Yes   | 20-20                                    | 70                                   |                      | No            | DP                                  | 40                              | 14.7                                  |  | 1.5               | 0.3/0.4  | 50                                | 73/66                           | 40                      | 20           | 249.95               |  |
| HARMAN<br>KARDON            | HK 3350  | 2   | 30   | 0.09                    | Yes   | 20-20                                    |                                      |                      | No            |                                     | 30                              | 11.7                                  | /37.2  | 1.5               | 0.1/0.15   | 70                                | 78/70                           | 45                      | 14           | 399.00               |  |
|                             | HK 3550  | 2   | 50   | 0.09                    | Yes   | 20-20                                    | 78                                   |                      | No            |                                     | 30                              | 11.7                                  | /37.2  | 1.5               | 0.1/0.15   | 70                                | 78/70                           | 45                      | 18           | 529.00               |  |
|                             | AVR 20   | 5   | 50/25/50   | 0.09                    | Yes   | 20-20                                    | 74                                   |                      | Yes           | DP                                  | 30                              | 11.2                                  | /37.2  | 2.0               | 0.2/0.3  | 65                                | 74/70                           | 45                      | 23           | 529.00               |  |
|                             | AVR 25   | 5   | 65/25/65   | 0.09                    | Yes   | 20-20                                    | 74                                   |                      | Yes           | DP                                  | 30                              | 11.2                                  | /37.2  | 2.0               | 0.2/0.3  | 65                                | 74/70                           | 45                      | 27           | 769.00               |  |
|                             | AVR 30(RI)   | 5, S  | 50/20/50   | 0.09/<br>0.09/<br>0.09  | Yes   | 20-20                                    | 78                                   |                      | Yes           | DP/O                                | 16                              | 13.2                                  | /38.2  | 1.5               | 0.2/0.3  | 65                                | 80/70                           | 45                      | 30           | 1149.00              |  |
| JVC                         | RX1050VTN<br>(RI)  | 5, S  | 120/30/<br>70                                      | 0.007                   | Yes   | 20-20                                    | 80                                   |                      | Yes           | DP                                  | 40                              | 10.8                                  | 16.3/38.3  | 1.5               | 0.15/0.2   | 65                                | 81/73                           | 40                      | 28           | 1500.00              |  |
|                             | RX815VTN(RI)   | 5, S  | 70/20/70   | 0.007                   | Yes   | 20-20                                    | 71                                   |                      | Yes           | DP                                  | 40                              | 10.8                                  | 16.3/38.3  | 1.5               | 0.15/0.2   | 60                                | 80/73                           | 40                      | 25           | 629.00               |  |
|                             | RX715VTN(RI)   | 5, S  | 70/20/70   | 0.06                    | Yes   | 20-20                                    | 71                                   |                      | Yes           | DP                                  | 40                              | 10.8                                  | 16.3/38.3  | 1.5               | 0.15/0.2   | 60                                | 80/73                           | 40                      | 28           | 499.00               |  |
|                             | RX515VTN(RI)   | 5   | 60/20/60   | 0.06                    | Yes   | 20-20                                    | 71                                   |                      | Yes           | DP                                  | 40                              | 10.8                                  | 16.3/38.3  | 1.5               | 0.15/0.2   | 60                                | 80/73                           | 40                      | 25           | 379.00               |  |
|                             | RX315TN(RI)  | 2   | 105  | 0.8                     | Yes   | 40-20                                    | 70                                   |                      | No            | O                                   | 40                              | 10.8                                  | 16.3/38.3  | 1.5               | 0.15/0.2   | 60                                | 80/73                           | 40                      | 18           | 259.00               |  |
| KENWOOD                     | KR-V8060(RI)   | 5, S  | 100/25/<br>100                                     | 0.06                    | Yes   | 20-20                                    | 76                                   |                      | Yes           | DP/O                                | 20                              | 13.2                                  |  |                   | 0.6/0.06   |                                   | 75/68                           | 40                      | 26           | 549.00               |  |
|                             | KR-V7060(RI)   | 5, S  | 100/25/<br>100                                     | 0.06                    | Yes   | 20-20                                    | 76                                   |                      | Yes           | DP/O                                | 20                              | 13.2                                  | /41.2  |                   | 0.6/0.06   |                                   | 75/68                           | 40                      | 26           | 399.00               |  |
|                             | KR-V6060(RI)   | 5   | 70/20/70   | 0.06                    | Yes   | 20-20                                    | 76                                   |                      | Yes           | DP                                  | 20                              | 13.2                                  | /41.2  |                   | 0.6/0.06   |                                   | 75/68                           | 40                      | 21           | 359.00               |  |
|                             | KR-V5560(RI)   | 5   | 70/20/70   | 0.06                    | Yes   | 20-20                                    | 76                                   |                      | Yes           | DP                                  | 20                              | 13.2                                  | /41.2  |                   | 0.6/0.06   |                                   | 75/68                           | 40                      | 21           | 299.00               |  |
|                             | KR-A5060(RI)   | 2   | 100  | 0.09                    | Yes   | 20-20                                    | 73                                   |                      | No            |                                     | 30                              | 13.2                                  |  | 2.0               |  |                                   |                                 | 20                      | 249.00       |                      |  |
|                             | KR-A4060(RI)   | 2   | 80   | 0.09                    | Yes   | 20-20                                    | 70                                   |                      | No            |                                     | 30                              | 13.2                                  |  | 2.0               |  |                                   |                                 | 18                      | 219.00       |                      |  |
| KR-A3060                    | 2  | 50  | 0.09   | Yes                     | 30-20   | 70                                       |                                      | No                   |               | 30                                  | 13.2                            |                                       | 2.0  |                   |  |                                   | 13                              | 179.00                  |              |                      |  |
| LIRPA LABS                  | Wide<br>(on steroids)                                      |   | 8.9 Yds.   |                         |   |  |                                      |                      |               | OB                                  |                                 |                                       |  |                   | 4 TD   |                                   |                                 |                         | 260          | 500.00               |  |
|                             | Wide<br>(off steroids)                                     |   | 0.2 Yd.  |                         |   |  |                                      |                      |               | OB                                  |                                 |                                       |  |                   | 0 TD   |                                   |                                 |                         | 97           | to 1<br>to<br>500.00 |  |
| LUXMAN                      | RV-371(RI)   | 5   | 75/55/55   | 0.04/<br>0.04/<br>0.04  | Yes   | 20-20                                    | 80                                   | 1.8                  | Yes           | D/DP                                | 20                              | 10.8                                  | 13.5/37  | 1.25              | 0.15/0.2   | 65                                | 80/75                           | 45                      | 44           | 2000.00              |  |
| MARANTZ                     | SR-92 MK2<br>(RI)  | 5, S  | 110/35/<br>75                                      | 0.09                    | Yes   | 20-20                                    | 76                                   | 1.2                  | Yes           | DP                                  | 30                              | 13.5                                  | 17.5/40  | 1                 | 0.2/0.5  | 70                                | 76/68                           | 45                      | 34           | 1149.00              |  |
|                             | SR-82 MK2<br>(RI)  | 5, S  | 75/35/75   | 0.09                    | Yes   | 20-20                                    | 76                                   | 1.2                  | Yes           | DP                                  | 30                              | 13.5                                  | 17.5/40  | 1                 | 0.2/0.5  | 70                                | 76/68                           | 45                      | 30           | 899.00               |  |
|                             | SR-73(RI)  | 5   | 75/35/75   | 0.09                    | Yes   | 20-20                                    | 76                                   | 1.2                  | Yes           | DP                                  | 30                              | 13.5                                  | 17.5/40  | 2                 | 0.2/0.5  | 70                                | 76/68                           | 45                      | 21           | 699.00               |  |
|                             | SR-63(RI)  | 2   | 70   | 0.05                    | Yes   | 20-20                                    | 80                                   | 1.2                  | Yes           | DP                                  | 30                              | 10.8                                  | 11.2/35.2  | 1.0               | 0.2/0.5  | 65                                | 78/75                           | 45                      | 18           | 399.00               |  |
|                             | SR-53(RI)  | 2   | 45   | 0.05                    | Yes   | 20-20                                    | 80                                   | 1.2                  | No            |                                     | 30                              | 10.8                                  | 11.2/35.2  | 1.0               | 0.2/0.5  | 65                                | 78/75                           | 45                      | 16           | 349.00               |  |
| SR-1020(RI)                 | 2  | 45  | 0.05   | Yes                     | 20-20   | 78                                       | 1.2                                  | No                   |               | 30                                  | 10.8                            | 11.2/35.2                             | 1.0  | 0.2/0.5           | 65   | 78/75                             | 45                              | 14                      | 399.00       |                      |  |
| NAD                         | 701(RI)  | 2   | 25   | 0.03                    | Yes   | 20-20                                    | 75                                   | 4                    | No            |                                     | 60                              | 11.3                                  | 15/37  | 1.6               | 0.1/0.1  | 58                                | 80/74                           | 45                      | 13           | 349.00               |  |
|                             | 705(RI)  | 2   | 40   | 0.03                    | Yes   | 20-20                                    | 76                                   | 3.5                  | No            |                                     | 39                              | 10                                    | 14/35  | 1.6               | 0.08/0.1   | 60                                | 82/76                           | 50                      | 14           | 499.00               |  |
|                             | 716  | 5   | 55/20/55   | 0.08/<br>0.08           | No  | 20-20                                    | 80                                   |                      | No            | DP/O                                | 40                              | 11.3                                  |  |                   | 0.15/0.25  | 60                                | 73/67                           | 45                      | 15           | 749.00               |  |
| NAKAMICHI                   | RE-1(RI)   |   | 80   | 0.1                     | Yes   | 5-40                                     | 78                                   |                      | No            | No                                  | 10                              | 11.0                                  | 14.7/37.5  | 2.0               | 0.07/0.07  | 55                                | 79/74                           | 50                      | 24           | 899.00               |  |
|                             | RE-2(RI)   |   | 55   | 0.1                     | Yes   | 5-40                                     | 78                                   |                      | No            | No                                  | 10                              | 12.0                                  | 15.7/38.5  | 2.0               | 0.1/0.1  | 55                                | 79/74                           | 50                      | 19           | 649.00               |  |
|                             | RE-3(RI)   |   | 37   | 0.1                     | Yes   | 10-40                                    | 78                                   |                      | No            | No                                  | 10                              | 12.0                                  | 15.7/38.5  | 2.0               | 0.2/0.25   | 55                                | 72/67                           | 38                      | 13           | 429.00               |  |
|                             | AV-1(RI)   |   | 100/30/<br>50                                      | 0.1/0.1/<br>0.1         | Yes   |  | 73                                   |                      | Yes           | DP/O                                | 30                              | 12.0                                  | 17.0/38.5  |                   | 0.2/0.3  |                                   | 76/70                           | 31                      | 1200.00      |                      |  |
|                             | AV-2(RI)   |   | 70/20/<br>35                                       | 0.1/0.1/<br>0.1         | Yes   |  | 73                                   |                      | Yes           | DP/O                                | 30                              | 12.0                                  | 17.0/38.5  |                   | 0.2/0.3  |                                   | 76/70                           | 29                      | 850.00       |                      |  |
| ONKYO                       | TX-910(RI)   | 2   | 45   | 0.3                     | Yes   | 40-20                                    | 80                                   |                      | No            | Yes                                 | 40                              | 12.4                                  | 18.2/38.2  | 1.5               | 0.15/0.3   | 55                                | 70/65                           | 40                      | 16           | 240.00               |  |
|                             | TX-V940(RI)  | 2   | 100  | 0.2                     | Yes   | 40-20                                    | 80                                   |                      | Yes           |                                     | 40                              | 11.2                                  | 18.2/38.2  | 1.5               | 0.15/0.25  | 55                                | 73/67                           | 45                      | 21           | 340.00               |  |
|                             | TX-SV414PRO<br>(RI)  | 5, S  | 50/15/50   | 0.08/<br>0.03           | Yes   | 20-20                                    | 80                                   |                      | Yes           | DP                                  | 40                              | 11.2                                  | 18.2/38.2  | 1.5               | 0.15/0.25  | 55                                | 73/67                           | 45                      | 23           | 400.00               |  |
|                             | TX-SV515PRO<br>(RI)  | 5   | 55/20/55   | 0.08/<br>0.8/<br>0.08   | Yes   | 20-20                                    | 80                                   |                      | Yes           | DP/O                                | 40                              | 11.2                                  | 18.0/37.2  | 1.5               | 0.15/0.2   | 55                                | 73/67                           | 45                      | 30           | 540.00               |  |
|                             | TX-SV717PRO<br>(RI)  | 5, S  | 85/30/85   | 0.02/<br>0.03/<br>0.02  | Yes   | 20-20                                    | 80                                   |                      | Yes           | DP/O                                | 40                              | 11.2                                  | 17.2/37.2  | 1.5               | 0.1/0.2  | 55                                | 76/70                           | 45                      | 31           | 970.00               |  |
|                             | Integra TX-<br>SV909PRO(RI)                                | 7, S  | 110/30/<br>110                                     | 0.04/<br>0.08/<br>0.04  | Yes   | 20-20                                    | 80                                   |                      |               | A/DP/O                              | 40                              | 11.2                                  | 17.2/37.2  | 1.5               | 0.1/0.2  | 55                                | 76/70                           | 45                      | 49           | 1880.00              |  |
| Integra TX-<br>SV919THX(RI) | 5, S   | 100/50/<br>100  | 0.08/<br>0.08/<br>0.03                             | Yes                     | 20-20   | 80                                       |                                      | Yes                  | DP/THX        | 40                                  | 11.2                            | 17.2/37.2                             | 1.5  | 0.1/0.2           | 55   | 76/70                             | 45                              | 49                      | 2000.00      |                      |  |
| OPTIMUS                     | STA-3180(RI)   |   | 70   | 0.08                    | Yes   | 40-20                                    | 72                                   |                      | Yes           |                                     | 30                              | 11.2                                  | 16.8/38.6  |                   | /0.5   | 60                                | 73/70                           | 40                      | 12           | 219.99               |  |
|                             | STA-3190(RI)   |   | 100  | 0.08                    | Yes   | 40-20                                    | 72                                   |                      | Yes           |                                     | 30                              | 11.2                                  | 16.8/38.6  |                   | /0.5   | 60                                | 73/70                           | 40                      | 15           | 249.99               |  |
|                             | STAV-3280(RI)  |   | 65   | 0.8                     | Yes   | 20-20                                    | 72                                   |                      | Yes           | DP                                  | 30                              | 11.2                                  | 16.8/38.6  |                   | /0.5   | 60                                | 73/70                           | 40                      | 16           | 299.99               |  |
|                             | STAV-3350(RI)  |   | 100  | 0.8                     | Yes   | 20-20                                    | 72                                   |                      | Yes           | DP                                  | 30                              | 11.2                                  | 16.8/38.6  |                   | /0.5   | 60                                | 73/70                           | 40                      | 18           | 349.99               |  |
|                             | STAV-3450(RI)  |   | 110  | 0.9                     | Yes   | 20-20                                    | 72                                   |                      | Yes           | DP                                  | 30                              | 11.2                                  | 16.8/38.6  |                   | /0.05  | 60                                | 73/70                           | 40                      | 20           | 499.99               |  |
|                             | STA-795  | 2   | 50   | 0.5                     | Yes   | 40-20                                    | 66                                   |                      | No            |                                     | 18                              | 10                                    |  | 2.0               | /0.3   |                                   | /68                             | 40                      |              | 180.00               |  |
|                             | STA-300  | 2   | 15   | 0.5                     | Yes   | 40-20                                    | 66                                   |                      | No            |                                     | 18                              | 10                                    |  | 2.0               | /0.4   |                                   | /64                             | 33                      |              | 140.00               |  |
| STA-20                      | 2  | 5   | 0.05   | Yes                     | 40-20   | 70                                       |                                      | No                   |               | 0                                   |                                 |                                       |  |                   |  |                                   | 35                              |                         | 100.00       |                      |  |
| PHILIPS                     | FR911(RI)  | 2   | 50   | 0.3                     | Yes   | 40-20                                    | 75                                   |                      | No            | O                                   | 30                              | 15                                    | /40  |                   | 0.25/0.45  | 60                                | 73/65                           | 41                      | 13           | 179.95               |  |
|                             | FR931(RI)  | 5   | 50/10/10   | 0.3                     | Yes   | 40-20                                    | 85                                   |                      | Yes           | DP                                  | 30                              | 15                                    | /50  |                   | 0.2/0.4  | 60                                | 73/65                           | 41                      | 18           | 279.95               |  |
|                             | FR951(RI)  | 5   | 65/20/65   | 0.3                     | Yes   | 20-20                                    | 88                                   |                      | Yes           | DP                                  | 30                              | 13.5                                  | /39.8  |                   | 0.2/0.4  | 60                                | 76/68                           | 45                      | 18           | 399.95               |  |

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# RECEIVERS

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|---------------|--|--|---|--------------------------|--|---------------------------------------|------------------------------------|----------------------|---------------|---------------------------------|---------------------------------|------------------------------------|--|-------------------|--|-----------------------------------|------------------------------|-------------------------|--------------|----------|--|--|
|               |  |  | Avg. Watts/Ch. into 8 Ohms, Front/Rear/Center | THD, % Front/Rear/Center | Headphone Jack? (Jack with Level Control = LC) | Rated Full-Power Bandwidth, Hz to kHz | MM Phono S/N, dB "4" Wtd. re. 5 mV | Dynamic Headroom, dB | Video Inputs? | Surround/Ambience Type—See Code | Total Number of Station Presets | Mono I/F (Usable) Sensitivity, dBf | Signal Strength for 50-dB Quieting, dBf, Mono/Stereo | Capture Ratio, dB | THD at 1 kHz, % Mono/Stereo, 100% Modulation | Alternate-Channel Selectivity, dB | Maximum S/N, dB, Mono/Stereo | Separation at 1 kHz, dB | Weight, Lbs. | Price \$ |  |  |
| PIONEER       | VSX-D2S(RI)  | 5, S   | 70/45/70                                      | 0.005/0.8/0.005          | Yes  | 20-20                                 | 82                                 |                      | 5             | DP/O                            | 30                              | 11.2                               | 16.4/38.2  | 1.0               | 0.8/0.15                                     | 65                                | 80/76                        | 50                      | 35           | 2000.00  |  |  |
|               | VSX-D903S(RI)  | 4  | 100/100/100                                   | 0.8/0.8/0.8              | Yes  | 20-20                                 | 76                                 |                      | 5             | DP/O                            | 30                              | 11.2                               | 16.8/38.6  | 1.0               | 0.2/0.3                                      | 65                                | 80/76                        | 45                      | 28           | 1200.00  |  |  |
|               | VSX-D703S(RI)  | 4  | 100/100/100                                   | 0.8/0.8/0.8              | Yes  | 20-20                                 | 76                                 |                      | 5             | DP/O                            | 30                              | 11.2                               | 16.8/38.6  | 1.0               | 0.2/0.3                                      | 65                                | 80/76                        | 45                      | 28           | 810.00   |  |  |
|               | VSX-D603S(RI)  | 4  | 100/100/100                                   | 0.8/0.8/0.8              | Yes  | 20-20                                 | 76                                 |                      | 5             | DP/O                            | 30                              | 11.2                               | 16.8/38.6  | 1.0               | 0.2/0.3                                      | 65                                | 80/76                        | 45                      | 28           | 710.00   |  |  |
|               | VSX-D503S(RI)  | 4  | 75/40/75                                      | 0.8/0.8/0.8              | Yes  | 20-20                                 | 72                                 |                      | 2             | DP/O                            | 30                              | 11.2                               | 16.8/38.6  | /0.5              |  | 60                                | 73/70                        | 40                      | 21           | 500.00   |  |  |
|               | VSX-453(RI)  | 4  | 60/40/60                                      | 0.8/0.8/0.8              | Yes  | 20-20                                 | 72                                 |                      | 2             | DP                              | 30                              | 11.2                               | 16.8/38.6  | /0.5              |  | 60                                | 73/70                        | 40                      | 19           | 375.00   |  |  |
|               | VSX-403(RI)  | 4  | 45/40/45                                      | 0.8/0.8/0.8              | Yes  | 20-20                                 | 72                                 |                      | 2             | DP                              | 30                              | 11.2                               | 16.8/38.6  | /0.5              |  | 60                                | 73/70                        | 40                      | 17           | 345.00   |  |  |
|               | SX-303R(RI)  | 2  | 100   | 0.9                      | Yes  | 40-20                                 | 72                                 |                      | No            | No                              | 30                              | 11.2                               | 16.8/38.6  | /0.5              |  | 60                                | 73/70                        | 40                      | 16           | 285.00   |  |  |
| SX-253R(RI)   | 2  | 70   | 0.9   | Yes                      | 40-20  | 72                                    |                                    | No                   | No            | 30                              | 11.2                            | 16.8/38.6                          | /0.5   |                   | 60   | 73/70                             | 40                           | 13                      | 260.00       |          |  |  |
| SX-203        | 2  | 70   | 0.9   | Yes                      | 40-20  | 72                                    |                                    | No                   | No            | 30                              | 11.2                            | 16.8/38.6                          | /0.5   |                   | 60   | 73/70                             | 40                           | 12                      | 225.00       |          |  |  |
| RCA           | RV3791(RI)   | 7, S   | 60/25/60                                      | 0.05/0.09/0.05           | Yes  | 20-20                                 |                                    | 1.2                  | Yes           | DP                              | 30                              | 12.5                               | 20/42  | 2                 | /0.5   | 55                                | 75/65                        | 45                      |              | 799.00   |  |  |
|               | RV3681(RI)   | 5, S   | 60/15/60                                      | 0.09/0.07/0.09           | Yes  | 40-20                                 |                                    | 1.0                  | Yes           | DP                              | 30                              | 14.2                               | 23.2/40.2  | 2                 | /0.4   | 55                                | 70/65                        | 40                      |              | 449.00   |  |  |
| ROTEL         | RX-950AX(RI)   | 2  | 50  | 0.03                     | Yes  | 20-20                                 | 82                                 |                      | Yes           | No                              | 16                              | 10.8                               | 14.8/37.2  | 1.0               | 0.07/0.25                                    | 63                                | 80/75                        | 46                      | 20           | 599.90   |  |  |
|               | RART-930AX Unreceiver                                | 2  | 30  | 0.03                     | Yes  | 20-20                                 | 80                                 |                      | No            | No                              | 20                              | 12.5                               | 11.0/34.5  | 1.5               | 0.08/0.3                                     | 63                                | 75/70                        | 40                      | 20           | 499.00   |  |  |
| SANSUI        | RZ1900   | 2  | 30  | 0.05                     | Yes  | 20-20                                 | 73                                 | 1.4                  | No            | No                              | 24                              | 13.2                               | 18.0/40.0  | 1.5               | 0.3/0.5                                      | 50                                | 87/70                        | 40                      | 12           | 199.95   |  |  |
|               | RZ2900(RI)   | 2  | 50  | 0.05                     | Yes  | 20-20                                 | 73                                 | 1.5                  | No            | D                               | 24                              | 13.2                               | 18.0/40.0  | 1.5               | 0.3/0.5                                      | 50                                | 76/70                        | 40                      | 15           | 219.95   |  |  |
| SHERWOOD      | RV-6030R(RI)   | 5  | 75/25/75                                      | 0.5                      | Yes  | 20-20                                 |                                    |                      | 4             | DP                              | 30                              | 10.8                               | 15.2/36.2  | 1.25              | 0.15/0.3                                     | 55                                | 80/73                        | 45                      | 25           | 475.00   |  |  |
|               | RV-5030R(RI)   | 5  | 65/10/65                                      | 0.5                      | Yes  | 20-20                                 |                                    |                      | 3             | DP                              | 30                              | 10.8                               | 15.2/36.2  | 1.25              | 0.2/0.3                                      | 55                                | 78/72                        | 45                      | 22           | 370.00   |  |  |
|               | RX-4030R(RI)   | 2  | 65  | 0.05                     | Yes  | 20-20                                 |                                    |                      | 0             | 0                               | 30                              | 10.8                               | 15.2/36.2  | 1.25              | 0.2/0.3                                      | 55                                | 78/72                        | 45                      | 16           | 225.00   |  |  |
|               | RX-2030R(RI)   | 2  | 40  | 0.08                     | Yes  | 20-20                                 |                                    |                      | 0             | 0                               | 30                              | 10.8                               | 16.2/38.1  | 2                 | 0.2/0.3                                      | 52                                | 77/71                        | 45                      | 13           | 195.00   |  |  |
|               | RX-1010  | 2  | 35  | 0.08                     | Yes  | 20-20                                 |                                    |                      | 0             | 0                               | 30                              | 10.8                               | 16.2/38.1  | 2                 | 0.2/0.3                                      | 52                                | 77/71                        | 45                      | 12           | 150.00   |  |  |
| SONY          | STR-D315(RI)   | 2  | 100   | 0.8                      | Yes  | 40-20                                 | 75                                 |                      | Yes           | No                              | 30                              | 11.2                               | 18.3/38.3  | 1.2               | 0.3/0.5                                      | 60                                | 80/74                        | 45                      | 15           | 250.00   |  |  |
|               | STR-D515(RI)   | 3  | 70/20/20                                      | 0.8/0.8/0.8              | Yes  | 40-20                                 | 75                                 |                      | Yes           | DP                              | 30                              | 11.2                               | 18.3/38.3  | 1.2               | 0.3/0.5                                      | 60                                | 80/74                        | 45                      | 14           | 300.00   |  |  |
|               | STR-D615(RI)   | 3  | 70/25/70                                      | 0.8/0.8/0.8              | Yes  | 40-20                                 | 75                                 |                      | Yes           | DP                              | 30                              | 11.2                               | 18.3/38.3  | 1.2               | 0.3/0.5                                      | 60                                | 80/74                        | 45                      | 16           | 350.00   |  |  |
|               | STR-D715(RI)   | 3  | 80/25/80                                      | 0.8/0.8/0.8              | Yes  | 20-20                                 | 75                                 |                      | Yes           | DP                              | 30                              | 11.2                               | 18.3/38.3  | 1.2               | 0.3/0.5                                      | 60                                | 80/74                        | 45                      | 21           | 430.00   |  |  |
|               | STR-D915(RI)   | 3  | 100/25/100                                    | 0.8/0.8/0.8              | Yes  | 20-20                                 | 75                                 |                      | Yes           | DP                              | 30                              | 11.2                               | 18.3/38.3  | 1.2               | 0.3/0.5                                      | 60                                | 80/74                        | 45                      | 22           | 500.00   |  |  |
| STR-D1015(RI) | 3  | 100/25/100   | 0.8/0.8/0.8                                   | Yes                      | 20-20  | 75                                    |                                    | Yes                  | DP            | 30                              | 11.2                            | 18.3/38.3                          | 1.2  | 0.3/0.5           | 60   | 80/74                             | 45                           | 29                      | 620.00       |          |  |  |
| SONY ES       | STR-GX800ES (RI)                                     | 4, S   | 90/30/90                                      | 0.04/0.04/0.04           | Yes  | 20-20                                 | 87                                 |                      | Yes           | DP                              | 30                              | 11.2                               | 18.3/38.3  | 1.2               | 0.3/0.5                                      | 60                                | 80/74                        | 45                      | 30           | 700.00   |  |  |
|               | STR-GX900ES (RI)                                     | 4, S   | 100/30/100                                    | 0.04/0.04/0.04           | Yes  | 20-20                                 | 87                                 |                      | Yes           | DP                              | 30                              | 11.2                               | 18.3/38.3  | 1.2               | 0.3/0.5                                      | 60                                | 80/74                        | 45                      | 30           | 850.00   |  |  |
|               | STR-G1ES (RI)  | 4, S   | 80/20/80                                      | 0.04/0.04/0.04           | Yes  | 20-20                                 | 87                                 |                      | Yes           | DP                              | 30                              | 11.2                               | 18.3/38.3  | 1.2               | 0.3/0.5                                      | 60                                | 80/74                        | 45                      | 30           | 1700.00  |  |  |
| TEAC          | TR-SV7000 (RI)                                       | 5, S   | 70/24/70                                      | 0.01/0.7                 | Yes  | 20-20                                 | 73                                 |                      | Yes           | DP                              | 30                              | 10.8                               | 18/38  | 1.5               | 0.2/0.4                                      |                                   | 78/70                        |                         | 29           | 499.00   |  |  |
|               | AG-V3050(RI)   | 5, S   | 70/24/70                                      | 0.01/0.7                 | Yes  | 20-20                                 | 73                                 |                      | Yes           | DP                              | 30                              | 10.8                               | 18/38  | 1.5               | 0.2/0.4                                      |                                   | 78/70                        |                         | 29           | 499.00   |  |  |
|               | AG-V2050(RI)   | 4  | 100/15  | 0.08/0.04                | Yes  | 20-20                                 | 65                                 |                      | Yes           | D                               | 30                              | 12                                 | 20/42  | 1.5               | 0.2/0.4                                      |                                   | 75/68                        | 40                      | 24           | 379.00   |  |  |
|               | AG-V1050   | 2  | 100   | 0.08                     | Yes  | 20-20                                 | 70                                 |                      | Yes           | No                              | 30                              | 10.8                               | 18/38  | 1.5               | 0.2/0.4                                      |                                   | 78/70                        | 40                      | 20           | 319.00   |  |  |
| AG-750        | 2  | 50   | 0.08  | Yes                      | 20-20  | 70                                    |                                    | No                   | No            | 30                              | 10.8                            | 18/38                              | 1.5  | 0.2/0.4           |  | 78/70                             | 40                           | 16                      | 259.00       |          |  |  |
| TECHNICS      | SA-TX1000  | 5  | 120/55/120                                    |                          | Yes  |                                       |                                    |                      | Yes           | DP/THX                          | 30                              |                                    |  |                   |  |                                   |                              |                         |              | 1199.95  |  |  |
|               | SA-GX770   | 4  | 100/100/100                                   | 0.05                     | Yes  |                                       | 70                                 | 2                    | Yes           | DP                              | 30                              | 11.2                               | 18.3/38.3  |                   | 0.2/0.3                                      | 65                                |                              | 40                      | 22           | 499.95   |  |  |
|               | SA-GX670   | 4  | 80/80/80                                      | 0.05                     | Yes  |                                       | 70                                 | 2                    | Yes           | DP                              | 30                              | 11.2                               | 18.3/38.3  |                   | 0.2/0.3                                      | 65                                |                              | 40                      | 21           | 399.95   |  |  |
|               | SA-GX470   | 4  | 55/30/55                                      | 0.05                     | Yes  |                                       | 70                                 | 2                    | Yes           | DP                              | 30                              | 11.2                               | 18.3/38.3  |                   | 0.2/0.3                                      | 65                                |                              | 40                      | 18           | 299.95   |  |  |
|               | SA-GX170   | 2  | 100   | 0.8                      | Yes  |                                       | 68                                 | 2                    | No            | No                              | 30                              | 11.2                               | 18.3/38.3  |                   | 0.2/0.3                                      | 65                                |                              | 40                      | 14           | 199.95   |  |  |
| YAMAHA        | RX-V1070(RI)   | 5, S   | 110/30/110                                    | 0.015/0.08/0.015         | Yes  |                                       | 86                                 | 1.6                  | Yes           | DP/O                            | 40                              | 9.3                                | 15.1/37.7  | 1.5               | 0.1/0.2                                      | 85                                | 81/76                        | 50                      | 41           | 1349.00  |  |  |
|               | RX-V870(RI)  | 5, S   | 80/25/80                                      | 0.015/0.08/0.015         | Yes  |                                       | 86                                 | 1.4                  | Yes           | DP/O                            | 40                              | 9.3                                | 15.1/37.7  | 1.5               | 0.1/0.2                                      | 85                                | 81/76                        | 50                      | 33           | 949.00   |  |  |
|               | RX-V670(RI)  | 5  | 70/25/70                                      | 0.03/0.3/0.08            | Yes  |                                       | 86                                 | 1.09                 | Yes           | DP/O                            | 40                              | 9.3                                | 15.1/37.7  | 1.5               | 0.1/0.2                                      | 85                                | 81/76                        | 50                      | 23           | 749.00   |  |  |
|               | RX-V480(RI)  | 5  | 65/15/65                                      | 0.04/0.5                 | Yes  | 20-20                                 | 82                                 |                      | Yes           | DP/O                            | 40                              | 9.3                                | 15.1/37.7  | 1.5               | 0.1/0.2                                      | 85                                | 80/75                        | 50                      | 18           | 399.00   |  |  |
|               | RX-770(RI)   | 2  | 85  | 0.019                    | Yes  | 10-50                                 | 88                                 |                      | Yes           | Yes                             | 40                              | 9.3                                | 15.1/37.7  | 1.5               | 0.1/0.2                                      | 85                                | 81/76                        | 50                      | 20           | 549.00   |  |  |
|               | RX-570(RI)   | 2  | 70  | 0.019                    | Yes  | 10-50                                 | 88                                 |                      | No            | No                              | 40                              | 9.3                                | 15.1/37.7  | 1.5               | 0.1/0.2                                      | 85                                | 81/76                        | 50                      | 20           | 399.00   |  |  |
|               | RX-485(RI)   | 2  | 65  | 0.04                     | Yes  | 20-20                                 | 82                                 |                      | No            | No                              | 40                              | 9.3                                | 15.1/37.7  | 1.5               | 0.1/0.2                                      | 85                                | 80/75                        | 50                      | 15           | 299.00   |  |  |
|               | RX-385(RI)   | 2  | 45  | 0.04                     | Yes  | 20-20                                 | 82                                 |                      | No            | No                              | 40                              | 9.3                                | 15.1/37.7  | 1.5               | 0.1/0.2                                      | 85                                | 80/75                        | 50                      | 13           | 249.00   |  |  |



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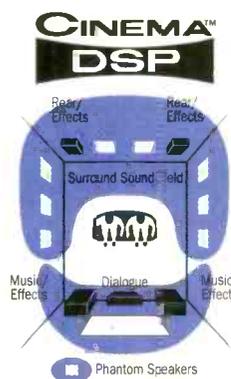
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# TURNTABLES

| SPEED CODE<br>A—33½<br>B—33½, 45<br>C—33½, 45, 78<br>D—Continuously Variable | MANUFACTURER           | Model<br>(R) = Remote Included,<br>(RO) = Remote Optional                                  | Speeds—See Code       | Wow & Flutter, %<br>DIN 45-507         | Rumble, -dB, DIN 45-539-B  | Drive System                               | Speed Inaccuracy, ±%                 | Speed Adjustment Range, ±% | Controls Outside Dustcover? | Multi-Play? Number of Discs | TONEARM   |                                  |                                 |   |                                 |                               |   |   |  |   | Dimensions, Inches,<br>Including Dustcover<br>(To Nearest Inch) | Price, \$ |
|--|------------------------|--|-----------------------|--|----------------------------|--|--------------------------------------|----------------------------|-----------------------------|-----------------------------|---|----------------------------------|---------------------------------|---|---------------------------------|-------------------------------|---|---|--|---|---|-----------|
|  |                        |  |                       |  |                            |  |                                      |                            |                             |                             | Type: Pivoted-P Linear=L,<br>Servo-S, Air-Bearing=A | Pivot-to-Stylus Distance, Inches | Auto Cue=C, Auto Return=R       | Recommended Tracking Force Range, Grams | Anti-Skating Adjustment?        | Cartridge Weight Range, Grams | Total Cable Capacitance, pF   | Cartridge Mount: Fixed=F,<br>Removable Shell=R, P-Mount=P               |  |   |   |           |
|  | AUDIOMECA              | Romance J1   | B<br>B                |  |                            | Belt<br>Belt                               |                                      | Yes<br>Yes                 | 1<br>1                      | P                           |   |                                  |                                 |   | Yes                             |                               |   | F   | 19 x 16 x 8<br>20 x 18 x 8                               | 1995.00<br>3600.00                      |   |           |
|  | AUDIO "78"             | The Archivist  | D                     | 0.03                                   | 75                         | Belt                                       | 0.01                                 |                            | No                          |                             |   |                                  |                                 |   |                                 |                               |   |   | 6 x 24 x 20  | 2395.00                                 |   |           |
|  | BANG & OLUFSEN         | Beogram 7000   | B                     | 0.06                                   | 80                         | Belt                                       | 0.2                                  | Yes                        | No                          | L/S                         | 4%  | C/R                              | 1.0-1.5                         | No                                      | 1.6                             | 240                           | F   | 17 x 3 x 13   | 650.00   |   |   |           |
|  | BASIS AUDIO            | Debut Gold MKIII   | B                     | 0.02                                   | 90                         | Belt                                       | 0.02                                 |                            |                             |                             |   |                                  |                                 |   |                                 |                               |   |   | 23 x 17 x 7  | 8200.00                                 |   |           |
|  |                        | Debut Gold Vacuum MKII   | B                     | 0.02                                   | 90                         | Belt                                       | 0.02                                 |                            |                             |                             |   |                                  |                                 |   |                                 |                               |   |   | 23 x 17 x 7  | 10,600.                                 |   |           |
|  |                        | Ovation MKII   | B                     | 0.02                                   | 90                         | Belt                                       | 0.02                                 |                            |                             |                             |   |                                  |                                 |   |                                 |                               |   |   | 23 x 17 x 5  | 5400.00                                 |   |           |
|  | CHADWICK MODIFICATIONS | Turntable Modifications  |                       |  |                            |  |                                      |                            |                             |                             |   |                                  |                                 |   |                                 |                               |   |   |  | From 180.00                             |   |           |
|  | DENON                  | DP-47F<br>DP-23F<br>DP-7F  | B<br>B<br>B           | 0.01<br>0.02<br>0.018                  | 78<br>75<br>75             | Direct<br>Direct<br>Direct                 | 0.002<br>0.002<br>0.01               | Yes<br>Yes<br>Yes          | No<br>No<br>No              | P/S<br>P/S<br>P/S           | 8.7<br>8.7<br>8.7                                   | C/R<br>C/R<br>C/R                | 0-3<br>0-3<br>1.25              | Yes<br>Yes<br>Yes                       | 3-12<br>4-9<br>6                |                               | R<br>R<br>P   | 17 x 7 x 17<br>17 x 5 x 15<br>15 x 4 x 15                               | 500.00<br>325.00<br>250.00                               |   |   |           |
|  | DUAL                   | Golden-1<br>CS-750<br>CS-505-4<br>CS-450<br>CS-431   | C<br>C<br>B<br>B<br>B | 0.023<br>0.023<br>0.06<br>0.07<br>0.08 | 80<br>80<br>75<br>70<br>70 | Belt<br>Belt<br>Belt<br>Belt<br>Belt       |                                      | No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No  | P<br>P<br>P<br>P<br>P       | C<br>C<br>C<br>C<br>C                               | 0.3-10<br>1-4<br>1-4<br>1-4      | Yes<br>Yes<br>Yes<br>Yes<br>Yes | 3-12<br>3-13<br>3-10<br>3-10<br>3-10    | 150<br>130<br>150<br>150<br>150 | R<br>R<br>R<br>R<br>R         | 18 x 6 x 15<br>18 x 6 x 15<br>18 x 6 x 15<br>18 x 6 x 15<br>18 x 6 x 15 | 1195.00<br>750.00<br>520.00<br>375.00<br>270.00                         |  |   |   |           |
|  | ESOTERIC SOUND         | RA-6 (w/Cartridge)<br>Vintage  | C<br>C                | 0.045<br>0.045                         | 70<br>70                   | Direct<br>Belt                             | 0.02<br>0.02                         | 7<br>6                     | No<br>No                    | No<br>No                    | P<br>P  | 8%<br>9%                         | R<br>R                          | 2-5<br>1.25-3.5                         | Yes<br>No                       | 2-10<br>6                     | 250<br>250  | R<br>P  | 17 x 14 x 5<br>17 x 15 x 4                               | 245.00<br>265.00                        |   |           |
|  |                        | V-2  | C                     | 0.025                                  | 75                         | Direct                                     | 0.01                                 | 8                          | No                          | No                          | P   | 8%                               | C                               | 2-5                                     | Yes                             | 2-10                          | 200   | R   | 17 x 14 x 5  | 375.00                                  |   |           |
|  |                        | Isis   | D                     | 0.025                                  | 75                         | Direct                                     | 0.01                                 | 45                         | No                          | No                          | P   | 8%                               | C                               | 2-5                                     | Yes                             | 2-10                          | 200   | R   | 17 x 14 x 5  | 420.00                                  |   |           |
|  |                        | Ramses (w/Cartridge)   | C                     | 0.025                                  | 75                         | Belt                                       | 0.02                                 | 8                          | No                          | No                          | P   | 9%                               | C                               | 1.25-5                                  | Yes                             | 2-10                          | 200   | R   | 18 x 14 x 6  | 425.00                                  |   |           |
|  |                        | V-3B   | C                     | 0.025                                  | 72                         | Direct                                     | 0.01                                 | 8                          | No                          | No                          | P   | 9%                               | C                               | 1.25-5                                  | Yes                             | 2-10                          | 200   | R   | 18 x 14 x 6  | 495.00                                  |   |           |
|  |                        | BES  | C                     | 0.1                                    | 65                         | Belt                                       | 0.02                                 | 0                          | No                          | No                          | P   | 9                                | C                               | 1.25-5                                  | Yes                             | 2-10                          | 180   | R   | 19 x 15 x 7  | 665.00                                  |   |           |
|  |                        | Osiris   | C                     | 0.04                                   | 80                         | Belt                                       | 0.01                                 | 7                          | No                          | No                          | P   | 9                                | C                               | 1.25-5                                  | Yes                             | 2-10                          | 180   | R   | 21 x 17 x 8  | 1225.00                                 |   |           |
|  | FISHER                 | MT 420   | B                     | 0.2 wrms                               | 58                         | Belt                                       | 0.9                                  | Yes                        | 1                           | P                           | 8%  | R                                | 3                               |   |                                 | 380                           | F   | 16 x 14 x 4   | 99.95  |   |   |           |
|  | GEMINI SOUND PRODUCTS  | XL-BD10<br>XL-DD20<br>XL-BD40<br>XL-DD50II<br>XL-18000II                                   | B<br>B<br>B<br>B<br>B | 0.25<br>0.2<br>0.15<br>0.15            |                            | Belt<br>Direct<br>Belt<br>Direct<br>Direct |                                      | 6<br>8<br>8<br>8<br>8      | No<br>No<br>No<br>No<br>No  | No<br>No<br>No<br>No<br>No  |   | R<br>R<br>R<br>P<br>P            |                                 | Yes<br>Yes<br>Yes<br>Yes<br>Yes         |                                 |                               | R<br>R<br>R<br>R<br>R   | 17 x 15 x 5<br>17 x 15 x 5<br>18 x 15 x 6<br>18 x 15 x 6<br>18 x 15 x 6 | 180.00<br>275.00<br>300.00<br>380.00<br>480.00           |   |   |           |
|  | JVC                    | ALA155TN<br>ALA151BK   | B<br>B                | 0.04<br>0.04                           |                            | Belt<br>Belt                               |                                      | Yes<br>Yes                 | No<br>No                    | P/S<br>P/S                  |   | C/R<br>C/R                       | 1.25<br>1.25                    |   |                                 |                               | P<br>P  | 5 x 18 x 15<br>5 x 18 x 15  | 119.95<br>119.95   |   |   |           |
|  | KAB ELECTRO-ACOUSTICS  | OD-1700M   | C                     | 0.09                                   | 75                         | Direct                                     | 0.01                                 | 8                          | No                          | No                          | P   | 9%                               | No                              | 1-7                                     | Yes                             | 3-9.5                         | 200   | R   | 18 x 15 x 7  | 269.00                                  |   |           |
|  | KENWOOD                | KD-492FC<br>KD-291FC<br>P-100  | B<br>B<br>B           | 0.05<br>0.05<br>0.05                   | 68<br>68<br>68             | Belt<br>Belt<br>Belt                       |                                      | Yes<br>Yes<br>Yes          | 1<br>1<br>1                 |                             | 8%<br>8%<br>8%                                      | C/R<br>R                         |                                 | No<br>No<br>No                          |                                 |                               | F<br>F<br>F   | 18 x 5 x 16<br>18 x 5 x 16<br>11 x 5 x 13                               | 129.00<br>89.00<br>129.00                                |   |   |           |
|  | KUZMA                  | Stabi Reference<br>Stabi   | B<br>B                | 0.05<br>0.05                           | 83                         | Belt<br>Belt                               | 0.08                                 | 0.2<br>0.2                 | Yes<br>Yes                  |                             |   |                                  |                                 |   |                                 |                               |   |   | 19 x 16 x 6<br>20 x 17 x 7                               | 5500.00<br>2200.00                      |   |           |
|  | LINN                   | LP12/Lingo<br>LP12/Valhalla<br>LP12/Basik<br>Basik   | B<br>A<br>A<br>A      |  |                            | Belt<br>Belt<br>Belt<br>Belt               | 0.01<br>0.03<br>0.1<br>0.1           |                            | No<br>No<br>No<br>Yes       | No<br>No<br>No<br>No        |   | 8%                               |                                 | 0-3                                     | Yes                             | 2-10                          | 100   | F   | 18 x 14 x 6<br>18 x 14 x 6<br>18 x 14 x 6<br>18 x 14 x 6 | 2645.00<br>1745.00<br>1395.00<br>595.00 |   |           |
|  | MANLEY LABS            | Zarathustra S8   | B                     |  |                            | Belt                                       |                                      | Yes                        | No                          | P                           | 9.18  |                                  |                                 | Yes                                     |                                 |                               |   | F   | 16 x 10 x 5  | 5750.00                                 |   |           |
|  | MERRILL AUDIO          | Heirloom III   | B                     | 0.01                                   | 100                        | Belt                                       | 0.01                                 | Yes                        |                             |                             |   |                                  |                                 |   |                                 |                               |   |   | 19 x 15 x 5  | 1950.00                                 |   |           |
|  | J. A. MICHELL          | Gyrodec MkIII<br>Gyrodec MkIII<br>QC PSU<br>Gyrodec MkIII LE<br>Gyrodec MkIII LE<br>QC PSU | B<br>B<br>B<br>B<br>B | 0.05<br>0.05<br>0.05<br>0.05<br>0.05   | 80<br>80<br>80<br>80<br>80 | Belt<br>Belt<br>Belt<br>Belt<br>Belt       | 0.01<br>0.01<br>0.01<br>0.01<br>0.01 |                            | No<br>No<br>No<br>No<br>No  | No<br>No<br>No<br>No<br>No  |   |                                  |                                 |   |                                 |                               |   | 20 x 6 x 16<br>20 x 6 x 16<br>20 x 6 x 16<br>20 x 6 x 16<br>20 x 6 x 16 | 1795.00<br>2545.00<br>1995.00<br>2745.00                 |   |   |           |
|  | ONKYO                  | CP-101A  | B                     | 0.045                                  |                            | Belt                                       |                                      | Yes                        | 6                           | P                           |   | C/R                              |                                 | Yes                                     |                                 |                               |   | R   | 17 x 6 x 15  | 170.00                                  |   |           |
|  | OPTIMUS                | LAB-2250<br>LAB-340  | B<br>B                | 0.10<br>0.15                           | 55<br>45                   | Belt<br>Belt                               |                                      | Yes<br>No                  | No<br>No                    | L/S<br>P/S                  |   | R<br>R                           | 2-3<br>2.5                      | Yes<br>Yes                              |                                 |                               |   | R<br>F  | 4 x 15 x 14<br>4 x 14 x 14                               | 100.00<br>150.00                        |   |           |
|  | ORACLE AUDIO           | Paris<br>Delphi V<br>Alexandria IV<br>Premiere V   | B<br>B<br>B<br>B      | 0.015<br>0.015<br>0.015                | 99<br>99<br>99             | Belt<br>Belt<br>Belt<br>Belt               | 0.047<br>0.047<br>0.047              | 5<br>5<br>5                | Yes<br>Yes<br>Yes           | 1<br>1<br>1                 |   |                                  |                                 |   |                                 |                               |   | 15 x 19<br>15 x 19<br>15 x 19<br>15 x 20                                | 995.00<br>2795.00<br>1595.00<br>3995.00                  |   |   |           |
|  | PINK TRIANGLE          | Anniversary<br>Export  | C<br>B                | 0.05<br>0.05                           | 80<br>72                   | Belt<br>Belt                               | 0.05<br>0.05                         | 1<br>1                     | Yes<br>Yes                  | No<br>No                    |   |                                  |                                 |   |                                 |                               |   |   | 7 x 18 x 18<br>7 x 18 x 18                               | 3995.00<br>1895.00                      |   |           |

# TURNTABLES

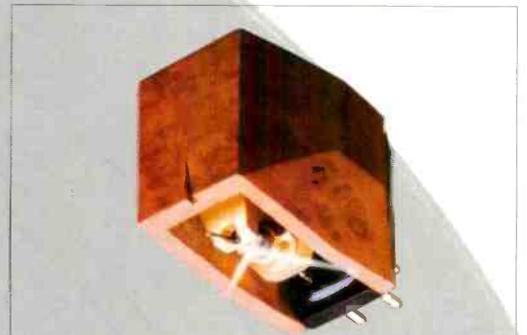
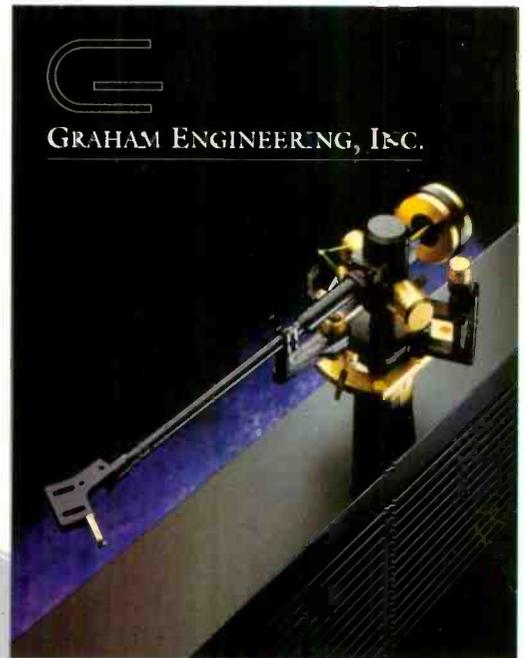
| MANUFACTURER             | Model<br>(R)=Remote Included,<br>(RO)=Remote Optional  | Speeds—See Code                 | Wow & Flutter,<br>DIN 45-507                                | Rumble—dB, DIN 45-539-B                | Drive System   | Speed Inaccuracy, ±%                                 | Speed Adjustment Range, ±%             | Controls Outside Dustcover?                  | Multi-Play? Number of Discs             | TONE ARM   |                                      |  |   |   |   |  |   |   |  | Price, \$ |
|--------------------------|--|---------------------------------|---|--|--|--|--|--|---|--|--------------------------------------|--|---|---|---|--|---|---|--|-----------|
|                          |  |                                 |   |  |  |  |  |  |   | Type: Pivoted=P, Linear=L,<br>Servo=S, Air-Bearing=A | Pivot-to-Stylus Distance, Inches     | Auto Cue=C, Auto Return=R              | Recommended Tracking Force Range, Grams               | Anti-Skating Adjustment?                | Cartridge Weight Range, Grams               | Total Cable Capacitance, pF            | Cartridge Mount: Fixed=F,<br>Removable Shell=R, P-Mount=P   | Dimensions, Inches,<br>Including Dustcover<br>(To Nearest Inch)                                       |  |           |
| PIONEER                  | PL-600/KUC<br>PL-203AZ   |                                 |   |  | Belt<br>Belt   |  |  |  | P<br>P                                  |  | C/R<br>R                             |  |   |   |   |  |   | 17 x 4 x 14<br>20 x 6 x 17  | 150.00<br>100.00   |           |
| REGA<br>RESEARCH         | Planar 3<br>w/RB300 Arm<br>Planar 2<br>w/RB250 Arm<br>Planar 78<br>w/RB250 Arm                                     | B<br>B<br>†                     |   |  | Belt<br>Belt   |  |  |  | P<br>P<br>P                             |  |                                      |  |   |   |   |  | F<br>F<br>F   | 178 rpm   | 775.00<br>575.00<br>575.00   |           |
| ROCKPORT<br>TECHNOLOGIES | Capella<br>System II<br>Sirius L E   | A<br>B                          | 0.02<br>0.01  | 96                                     | Belt<br>Belt   | 0.02<br>0.01   | Yes<br>Yes                             |  | A<br>A                                  | 6½<br>6¼   |                                      | 0.5-3.5<br>0.5-3.0                     | 2-15<br>3-15  |   |   | F<br>F                                 | 18 x 24 x 12<br>24 x 19 x 32  | 20,000<br>30,000  |  |           |
| ROKSAN                   | Radius<br>T.M.S.   | B<br>B                          | 0.04<br>0.02  | 79<br>80                               | Belt<br>Belt   |  | Yes<br>Yes                             |  |   |  |                                      |  |   |   |   |  |   | 18 x 14 x 5<br>18 x 15 x 5  | 1050.00<br>5500.00   |           |
| ROTEL                    | RP-900   | C                               | 0.08  | 70                                     | Belt   | 0.02   | No                                     | No   | P                                       |  |                                      |  | Yes   |   |   | F                                      | 19 x 14 x 6   | 499.90  |  |           |
| SONY                     | PS-LX56<br>PS-LX150  | B<br>B                          |   |  | Belt<br>Belt   |  | 2<br>2                                 | Yes<br>Yes                                   | P<br>P                                  |  | R<br>R                               |  |   |   |   |  |   | 17 x 14 x 5<br>14 x 14 x 4  | 100.00<br>100.00   |           |
| SOTA                     | Moonbeam<br>Comet<br>Satellite<br>Sapphire<br>Star<br>Nova<br>Cosmos   | B<br>B<br>B<br>C<br>B<br>B<br>B | 0.1<br>0.1<br>0.1<br>0.03<br>0.03<br>0.03<br>0.025          | 65<br>65<br>65<br>87<br>87<br>87<br>87 | Belt<br>Belt<br>Belt<br>Belt<br>Belt<br>Belt<br>Belt         | 0.1<br>0.1<br>0.1<br>0.02<br>0.02<br>0.02<br>0.02    | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No       | P<br>P<br>P<br>Opt.<br>Opt.<br>No<br>No | 8½<br>9  |                                      | Yes<br>Yes                             | 2.5-10<br>2.5-10                                      | 150<br>150                              | F<br>F                                      |  | 6 x 18 x 14<br>6 x 19 x 15<br>8 x 21 x 17<br>8 x 21 x 17<br>8 x 21 x 17<br>8 x 21 x 17<br>8 x 21 x 17 | 379.00<br>549.00<br>749.00<br>1395.00<br>2095.00<br>2695.00<br>4400.00                                |  |           |
| SUMIKO                   | Project 6<br>(w/Cartridge)<br>Project One<br>(w/Cartridge)   | B<br>B                          | 0.06<br>0.09  | 70<br>75                               | Belt<br>Belt   | 0.9<br>0.1   | Yes<br>Yes                             |  | P<br>P                                  | 9½<br>9¾   |                                      | 0.75-<br>3.0<br>0.75-<br>3.0           | Yes<br>Yes  | 4-12<br>4-12                            | 270<br>270                                  | F<br>F                                 | 18 x 14 x 6   | 695.00<br>350.00  |  |           |
| SUMIKO/SME               | 20<br>30   | C<br>C                          | 0.05  | 85                                     | Belt<br>Belt   |  | 3<br>Yes                               | Yes<br>No                                    | Opt.<br>P                               | 9½<br>9½   | No                                   |  | Yes   | 4-18                                    |   | F                                      | 17 x 13 x 7   | 6000.00<br>15,000   |  |           |
| SYMPHONIC<br>LINE        | RG 6 System  | B                               | 0.01  |  | Belt   | 0.01   | 12                                     | Yes  |   |  |                                      |  |   |   |   |  | 250 lbs.  | 19,500  |  |           |
| TEAC                     | P-595  | B                               | 0.1<br>wrms   | 55                                     | Belt   |  |  | Yes  | No                                      |  | R                                    | 1.0-<br>1.50                           |   |   |   | F                                      | 17 x 4 x 1  | 119.00  |  |           |
| TECHNICS                 | SL-1200MK2<br>SL-QD33K(RO)<br>SL-DD33<br>SL-DD22<br>SL-BD22K<br>SL-BD20<br>SL-BD20A                                | B<br>B<br>B<br>B<br>B<br>B<br>B | 0.025<br>0.025<br>0.025<br>0.025<br>0.045<br>0.045<br>0.045 | 78<br>78<br>78<br>78<br>70<br>70<br>70 | Direct<br>Direct<br>Direct<br>Direct<br>Belt<br>Belt<br>Belt |  | 8.0<br><br><br><br>6                   | No<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes | No<br>No<br>No<br>No<br>No<br>No<br>No  | P<br>P<br>P<br>P<br>P<br>P<br>P                      | 9½<br>9½<br>C<br>9½<br>R<br>R<br>R   | C/R<br>C<br>C<br>C<br>R<br>R<br>R      | 0-2.5<br>1.25<br>1.25<br>1.25<br>1.25<br>1.25<br>1.25 | Yes<br>No<br>No<br>No<br>No<br>No<br>No | 3-9.5<br>6<br>6<br>6<br>6<br>6<br>6         | 90<br>90<br>90<br>90<br>90<br>90<br>90 | R<br>P<br>P<br>P<br>P<br>P<br>P   | 18 x 7 x 15<br>17 x 4 x 15 | 549.95<br>269.95<br>189.95<br>179.95<br>169.95<br>139.95<br>149.95 |           |
| THORENS                  | TD-180 MkIII<br>TD-280 MkIV<br>TD-290<br>TD-318-III<br>TD-320-III<br>TD-520<br>w/SME 312 Arm                       | C<br>B<br>B<br>B<br>B<br>B<br>C | 0.045<br>0.045<br>0.045<br>0.04<br>0.035<br>0.035           | 70<br>70<br>72<br>70<br>72<br>72       | Belt<br>Belt<br>Belt<br>Belt<br>Belt<br>Belt                 |  |  | No<br>No<br>No<br>No<br>No<br>No             | 1<br>1<br>1<br>1<br>1<br>1              | P<br>P<br>P<br>P<br>P<br>P                           | 9½<br>9½<br>C/R<br>1-3<br>1-3<br>C/R | C/R<br>C/R<br>C/R<br>C/R<br>C/R<br>C/R | 1-3<br>1-3<br>1-3<br>1-3<br>1-3<br>1-3                | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes  | 4-10<br>4-10<br>4-8<br>4-10<br>4-10<br>4-10 | 150<br>150<br>150<br>120<br>120<br>120 | R<br>R<br>R<br>R<br>R<br>R  | 17 x 6 x 13<br>17 x 6 x 13<br>17 x 6 x 13<br>18 x 7 x 14<br>18 x 7 x 14<br>18 x 7 x 14                | 429.95<br>469.95<br>489.95<br>699.95<br>869.95<br>4000.00          |           |
| TOWNSHEND<br>AUDIO       | MK III Rock  | B                               | 0.07  | 82                                     | Belt   | 0.1  | 0                                      | Yes  |   |  |                                      |  |   |   |   |  |   | 17 x 15 x 4   | 1600.00  |           |
| J. C. VERDIER            | La Platine<br>Verdier  | B/<br>D                         |   |  | String   | .0025  | 8                                      | Yes  | No                                      |  |                                      |  |   |   |   |  |   | 17 x 15 x 9   | 7500.00  |           |
| VOYD                     | Voyd Plus<br>Voyd Reference<br>Voyd  |                                 | 0.004<br>0.004<br>0.004                                     | 80<br>80<br>80                         | Belt<br>Belt<br>Belt   | 0.001<br>0.001<br>0.001                              |  | Yes<br>Yes<br>Yes                            |   |  |                                      |  |   |   |   |  |   | 20 x 17 x 7<br>20 x 17 x 7<br>20 x 17 x 7   | 4500.00<br>12,000<br>3300.00                                       |           |
| VPI                      | HW-19 Jr.<br>HW-19 Jr. Plus<br>HW-19 MKIII<br>HW-19 MKIV<br>T.N.T. Junior<br>T.N.T. Series 2<br>T.N.T. Series 3    | B<br>B<br>B<br>B<br>D<br>D<br>D | 0.03<br>0.03<br>0.03<br>0.03<br>0.02<br>0.02<br>0.01        | 79<br>81<br>79<br>81<br>88<br>86<br>90 | Belt<br>Belt<br>Belt<br>Belt<br>Belt<br>Belt<br>Dual<br>Belt | 0.05<br>0.03<br>0.05<br>0.05<br>0.01<br>0.01<br>0.01 | No<br>No<br>No<br>No<br>No<br>No<br>No | No<br>No<br>No<br>No<br>No<br>No<br>No       | P<br>P<br>P<br>P<br>P<br>P<br>P         | 9  |                                      | 1-3                                    | Yes   | 3-12                                    | 71  | F                                      | 22 x 17 x 6<br>22 x 17 x 7<br>22 x 17 x 7<br>22 x 17 x 7<br>21 x 19 x 8<br>21 x 19 x 8<br>21 x 19 x 8 | 600.00<br>1800.00<br>1200.00<br>1800.00<br>2800.00<br>3500.00<br>5000.00                              |  |           |
| WELL<br>TEMPERED LAB     | Well Tempered<br>Record Player<br>Well Tempered<br>Classic<br>Well Tempered<br>Super<br>Well Tempered<br>Reference | B<br>B<br>B<br>B                | 0.01<br>0.01<br>0.01<br>0.01                                | 84<br>84<br>84<br>84                   | Belt<br>Belt<br>Belt<br>Belt                                 | 0.001<br>0.001<br>0.001<br>0.001                     |  | No<br>No<br>No<br>No                         | 1<br>1<br>1<br>1                        | P<br>P<br>P<br>P                                     | 9<br>9<br>9<br>9                     |  | Yes<br>Yes<br>Yes<br>Yes                              |   |   | F<br>F<br>F<br>F                       | 19 x 15 x 7<br>19 x 15 x 8<br>19 x 15 x 8<br>19 x 15 x 8  | 1495.00<br>2495.00<br>2995.00<br>4495.00  |  |           |
| YAMAHA                   | TT-400U  | B                               | 0.045   | 70                                     | Belt   |  |  | Yes  | No                                      | P  | 9½                                   | C/R                                    | 0-3   | Yes                                     | 4-9   | R                                      | 17 x 4 x 15   | 249.00  |  |           |

4

# TO NEARMS

| MANUFACTURER             | Model                                 | Type: Air-Bearing = A,<br>Pivoted = P, Linear = L | Cartridge Mount: Fixed = F,<br>Removable Shell = R,<br>Changeable Wand = W | Cueing?    | Anti-Skating Adjustment? | Adjustable Vertical Tracking Angle? | Pivot-to-Stylus Distance, Inches | Overall Length, Inches | Maximum Tracking Error,<br>Degrees per Inch | Recommended<br>Tracking Force Range, Grams | Cartridge Weight Range, Grams | Total Cable Capacitance, pF | Mounting Hole Diameter, Inches | Price, \$        | Notes  |
|--------------------------|---------------------------------------|---|--|------------|--------------------------|-------------------------------------|----------------------------------|------------------------|---|--|-------------------------------|-----------------------------|--------------------------------|------------------|--|
| AIRTANGENT               | Reference (RI)                        | A/L   | W  | Yes        |                          | Yes                                 |                                  |                        | 0   | 0.5-5.0                                    | 4-20                          |                             | 1/2                            | 12,900.          | Remote cueing and adjustment of VTA.   |
|                          | 10B                                   | A/L   | W  | Yes        |                          | Yes                                 |                                  |                        | 0   | 0.5-5.0                                    | 4-20                          |                             | 1/2                            | 7900.00          |  |
| AUDIOMECA                | SL5                                   | L   | R  | Yes        |                          | Yes                                 | 8                                | 9.8                    |   |  |                               |                             |                                | 2850.00          |  |
| AUDIO NOTE               | AN-0/c-A                              | P   | F  | Yes        | Yes                      | Yes                                 | 10                               |                        |   | 0.5-5.0                                    | 5-20                          |                             |                                | 995.00           | Bimetallic self-damping armtube.   |
|                          | AN-1/s-V                              | P   | F  | Yes        | Yes                      | Yes                                 | 10                               |                        |   | 0.5-5.0                                    | 5-20                          |                             |                                | 1995.00          |  |
| AUDIOQUEST               | AQ PT-6                               | P   | F  | Yes        | Yes                      | Yes                                 | 9                                | 12                     |   | 0-3  | 3-12                          | 71                          | 1/4                            | 450.00           | Optional viscous damping. As above. As above.  |
|                          | AQ PT-7                               | P   | F  | Yes        | Yes                      | Yes                                 | 9                                | 12                     |   | 0-3  | 3-12                          | 71                          | 1/4                            | 550.00           |  |
|                          | AQ PT-8                               | P   | F  | Yes        | Yes                      | Yes                                 | 9                                | 12                     |   | 0-3  | 3-12                          | 71                          | 1/4                            | 650.00           |  |
| AUDIO "78"/SME           | SME 3012-R                            | P   | R  | Yes        | Yes                      | Yes                                 | 12.16                            |                        |   | 1.25-5                                     | 1.5-26                        |                             |                                | 689.00           | For LPs, 78s, 16-inch transcriptions, and hill-and-dale recordings; optional fluid damper. As above.   |
|                          | SME 3009-R<br>SME III                 | P<br>P  | R<br>W   | Yes<br>Yes | Yes<br>Yes               | Yes<br>Yes                          | 9.18<br>9.18                     |                        |   | 1.25-5<br>2.5 Max.                         | 1.5-26<br>0-12                |                             |                                | 649.00<br>479.00 |  |
| CLEARAUDIO/<br>SOUTHER   | Souther TQ-1<br>Tri-Quartz            | L   | R/W  | Yes        |                          | Yes                                 | 2                                |                        | 0   |  |                               |                             | †                              | 2200.00          | † Two 1/4-inch holes, 3 inches on center.  |
| DENNESEN                 | ABLT-1                                | A   | W  | Yes        |                          | Yes                                 | Adj.                             | 12                     | 0   | Adj.                                       | Any                           | 100                         |                                | 2000.00          |  |
| EMINENT<br>TECHNOLOGY    | Two                                   | A   | W  | Yes        |                          | Yes                                 | 7%                               | 10%                    | 0   | 0-5  | 0-16                          | 22                          |                                | 2000.00          | Includes air pump; optional fluid damping, \$95.00.  |
| GRAHAM<br>ENGINEERING    | 1.5                                   | P   | W  | Yes        | Yes                      | Yes                                 | 9/4                              | 11 1/2                 | 1   | 0.90-3.0                                   | 4-20                          | 140                         |                                | 2350.00          | Includes cartridge alignment gauge; brass side weights; SME-compatible mounting; upgradable to model below. Includes cartridge and azimuth alignment gauges; tungsten side weights; SME-compatible mounting. |
|                          | 1.5t                                  | P   | W  | Yes        | Yes                      | Yes                                 | 9/4                              | 11 1/2                 | 1.0   | 0.90-3.0                                   | 4-20                          | 140                         |                                | 2750.00          |  |
| KUZMA                    | Stogi Reference                       | P   | F  | Yes        | Yes                      | Yes                                 | 9%                               | 10%                    | 2   | 1-3  |                               | 300                         | 1/4                            | 1600.00          |  |
|                          | Stogi                                 | P   | F  | Yes        | Yes                      | Yes                                 | 9%                               | 10%                    | 2   | 1-3  |                               |                             |                                | 950.00           |  |
| LINN                     | Ekos                                  | P   | F  | Yes        | Yes                      | Yes                                 | 8%                               | 9                      |   | 0-3  | 4-9                           | 220                         | 1/4                            | 2495.00          |  |
|                          | Akito                                 | P   | F  | Yes        | Yes                      | Yes                                 | 8%                               | 9                      |   | 0-3  | 2-10                          | 100                         | 1/4                            | 395.00           |  |
| LONDON (DECCA)           | International                         | P   | R  | No         | Yes                      | Yes                                 | 8%                               | 10%                    | 0.2   | 0.75-3                                     | 4-12                          | 200                         | 1 1/8                          | 225.00           | Damped unipivot with spirit level.   |
| MANLEY LABS              | Zarathustra S3                        | P   | R  | Yes        | Yes                      | No                                  | 9.18                             | 12                     |   |  |                               |                             |                                | 750.00           | Unipivot design.   |
| MØRCH                    | UP-4                                  | P   | W  | Yes        | Yes                      | Yes                                 | 9%                               | 11%                    |   | 0.75-3                                     | 3-15                          | 128                         | 7/8                            | †                | † With copper wire, \$695.00; with silver wire, \$795.00. Choice of six armtubes; unipivot; viscous damping. Armtube choice and damping as above; dual bearings.   |
|                          | DP-6                                  | P   | W  | Yes        | Yes                      | Yes                                 | 9%                               | 11%                    |   | 0.75-3                                     | 3-15                          | 128                         | 7/8                            | From 1150.00     |  |
|                          | DP-6T                                 | P   | W  | Yes        | Yes                      | Yes                                 | 12%                              | 14%                    |   | 1.0-3.5                                    | 2-15                          | 128                         | 7/8                            | From 1950.00     |  |
|                          | DP-6X                                 | P   | W  | Yes        | Yes                      | Yes                                 | 9%                               | 11%                    |   | 0.75-3                                     | 3-15                          |                             | 7/8                            | From 2250.00     |  |
| NAIM AUDIO               | ARO                                   | P   | F  | Opt.       | Yes                      | Yes                                 | 9                                | 11 1/2                 |   |  | 5.5-12                        |                             | 3/4                            | 1695.00          | Unipivot design; optional Aro-matic cueing lever.  |
| ORACLE AUDIO             | Beta Plus                             | P   |  | Yes        | Yes                      | Yes                                 | 8.92                             | 9.56                   |   |  | 4-20                          |                             |                                | 450.00           |  |
|                          | SME 345                               | P   | R  | Yes        | Yes                      | Yes                                 | 12                               |                        | 0.01  | 0-3  | 5-14                          |                             |                                | 1795.00          |  |
| REGA RESEARCH            | RB300                                 | P   | F  | Yes        | Yes                      | No                                  |                                  |                        |   |  |                               |                             | 7/8                            | 425.00           | Continuous cable to preamp; hand-selected bearings. Continuous cable to preamp.  |
|                          | RB250                                 | P   | F  | Yes        | Yes                      | No                                  |                                  |                        |   |  |                               |                             |                                | 250.00           |  |
| ROCKPORT<br>TECHNOLOGIES | 6000 Series                           | A   | F  | Yes        |                          | Yes                                 | 6 1/2                            | 9                      |   | 0.5-3.5                                    | 2-15                          |                             |                                | 4500.00          | Azimuth adjustable; viscous damping.   |
| ROKSAN                   | Tabriz                                | P   | F  | Yes        | Yes                      | Yes                                 | 9.45                             |                        |   | 1.2-3                                      | 5-12                          | 150                         | 0.91                           | 600.00           |  |
|                          | Tabriz-Zi                             | P   | F  | Yes        | Yes                      | Yes                                 | 9.45                             |                        |   | 1.2-3                                      | 5-12                          | 150                         | 0.91                           | 850.00           |  |
|                          | Artemiz                               | P   | F  | Yes        | Yes                      | Yes                                 | 9.45                             |                        |   | 1.2-3.0                                    | 5-12                          | 150                         | 0.91                           | 1550.00          |  |
| SUMIKO/SME               | Series 309                            | P   | R  | Yes        | Yes                      | Yes                                 | 9%                               | 11%                    |   | 0-3  | 4-18                          | 140                         | 1 1/8 x 2 3/4                  | 1195.00          | ABEC-3 bearings; damped aluminum casting. ABEC-7 bearings; damped magnesium casting; adjustable static tracking. Bearings and casting as above; adjustable dynamic and static tracking.                      |
|                          | Series IV.Vi                          | P   | F  | Yes        | Yes                      | Yes                                 | 9%                               | 11%                    |   | 0-3  | 4-18                          | 140                         |                                | 1995.00          |  |
|                          | Series V                              | P   | F  | Yes        | Yes                      | Yes                                 | 9%                               | 11%                    |   | 0-3  | 4-18                          | 140                         |                                | 2550.00          |  |
| TOWNSHEND AUDIO          | Excalibur                             | P   | F  | Yes        | Yes                      | Yes                                 | 8.58                             | 8.66                   | 1.85  | 0.5-5                                      | 4-20                          | 300                         | 1                              | 1600.00          | Front outrigger damping; for Townshend Audio Rock turntables.  |
| WELL TEMPERED<br>LAB     | Well Tempered<br>Record Player<br>Arm | P   | F  | No         | Yes                      | Yes                                 | 9                                | 11%                    |   |  |                               |                             | 7/8                            | 695.00           | Variable viscous damping.  |
|                          | Well Tempered<br>Classic Arm          | P   | F  | No         | Yes                      | Yes                                 | 9                                | 11%                    |   |  |                               |                             | 1/4                            | 995.00           | As above.  |
|                          | Well Tempered<br>Reference Arm        | P   | F  | No         | Yes                      | Yes                                 | 9                                | 11%                    |   |  |                               |                             | 1/4                            | 1595.00          | As above.  |

# For the Record...



BENZ  MICRO



MUSICAL  
SURROUNDINGS

5856 College Avenue, Suite 146  
Oakland, California 94618  
510.420.0379  
Fax 510.420.0392

Enter No. 76 on Reader Service Card

Clockwise from upper left:  
Harbeth Compact 7, HL-P3 and BBC LS5/1 2a loudspeakers  
Graham 1.5' tonearm  
Benz Micro wood body phono cartridge  
Benz Micro Lukaschek PP-1 phono preamplifier  
Basis Gold Debut Standard turntable

# PHONO CARTRIDGES

| MANUFACTURER  | Model   | Frequency Response, Hz to kHz, ±dB  | Principle: Moving Iron=MI, Induced Magnet=IM, Moving Coil=MC, Moving Magnet=MM | Individual Response Curve Supplied?                                      | Channel Separation at 1 kHz, dB  | Channel Separation at 10 kHz, dB   | Output at 1 kHz, mV, 5 cm/Sec. rms Lateral Velocity                      | Recommended Tracking Force Range, Grams  | Recommended Load Capacitance, pF   | Stylus Type—See Code  | Stylus Radius (Radius), Mils  | Dynamic Compliance, µm/mml, Vertical/Lateral | Stylus Replacement: User=U, Factory=F                        | Mounting: Integral Shell=I, P-Mount=P, Standard=S                      | Weight, Grams   | Price, \$   | Replacement Stylus Price, \$              |
|---|---|---|--|--|--|--|--|--|--|---|---|--|--|--|---|---|---|
| ARCAM   | E77MG<br>P77MG  |   | MM<br>MM   | No<br>No   |  |  | 1.6-2<br>1.6-2   | 200-400<br>200-400   | E<br>X   |   | 20/   | U<br>U                                       | S<br>S   | 6.3<br>6.3   | 150.00<br>185.00  | 95.00<br>125.00   |   |
| AUDIO BY VAN ALSTINE                                      | Longhorn Z  | 10-55 ±1.5  | IM   | No   | 30   | 25   | 5.6  | 1.5-2.0  |  | E   | 0.3 x 0.6   |  | U/F  | S  | 8   | 99.00   | 45.00                                     |
| AUDIO NOTE  | io-2<br>io-Ltd<br>Soara   | 10-50 ±3<br>10-50 ±2  | MC<br>MC<br>MC   | No<br>No   | 25<br>30   |  | 0.05<br>0.04<br>0.06   | 1.3-3.5<br>1.5-4.0<br>1.5  | V<br>V<br>V  |   | 15/10<br>15/10  | F<br>F<br>F                                  | S<br>S<br>S  | 18<br>19<br>11   | 2695.00<br>4995.00<br>1395.00   | 1495.00<br>1995.00  |   |
| AUDIOQUEST  | AQ M-1<br>AQ MC-3<br>AQ MC-5<br>AQ 404I-MH<br>AQ 404I-L<br>AQ B-200MH<br>AQ B-200L<br>AQ 7000NSX  | 15-30<br>15-35<br>10-40<br>10-50<br>10-50<br>10-50<br>10-50<br>10-50  | IM<br>MC<br>MC<br>MC<br>MC<br>MC<br>MC<br>MC                                   | No<br>No<br>No<br>Yes<br>Yes<br>Yes<br>Yes<br>No                         | 25<br>20<br>25<br>30<br>25<br>25<br>25<br>25                             | 20<br>25<br>25<br>1.4<br>1.9<br>1.9<br>1.9<br>0.3                        | 3.0<br>2.5<br>2.0<br>1.4<br>1.8<br>1.9<br>1.9<br>1.9                     |  |  | E<br>E<br>X<br>X<br>X<br>X<br>X<br>X                              | 0.3 x 0.7<br>0.3 x 0.7<br>0.3 x 1.6<br>0.3 x 1.6<br>0.3 x 1.6<br>0.3 x 1.6<br>0.3 x 1.6<br>0.3 x 1.6  |  | U<br>F<br>F<br>F<br>F<br>F<br>F                              | S<br>S<br>S<br>S<br>S<br>S<br>S<br>S                                   | 99.00<br>195.00<br>395.00<br>695.00<br>695.00<br>995.00<br>995.00<br>1795.00                  | 50.00<br>135.00<br>335.00<br>595.00<br>595.00<br>750.00<br>750.00<br>1295.00  |   |
| AUDIO "78"  | Cartridges and styli for vintage sources  |   | MM   |  |  |  |  |  |  | C/<br>E   |   |  | U  | S  |   |   | 69.00                                     |
| AUDIO-TECHNICA  | AT300P<br>AT301EP<br>AT311EP<br>AT316EP<br>AT331LP<br><br>AT132EP<br>AT70<br>AT71E<br>AT120 E/T<br>AT44OML<br>ATP-2<br>ATP-2XN<br>(w/2 Styli) | 20-22 ±1<br>15-25 ±1<br>15-27 ±1<br>10-27 ±1<br>10-30 ±1<br><br>10-30 ±1<br>20-20 ±1.5<br>20-22 ±1.5<br>15-25 ±1<br>5-32 ±1<br>15-22 ±1.5<br>15-22 ±1.5 | MM<br>MM<br>MM<br>MM<br>MM<br><br>MM<br>MM<br>MM<br>MM<br>MM<br>MM<br>MM       | No<br>No<br>No<br>No<br>No<br><br>No<br>No<br>No<br>No<br>No<br>No<br>No | 26<br>26<br>29<br>29<br>31<br><br>30<br>20<br>22<br>29<br>30<br>23<br>23 | 16<br>17<br>18<br>20<br>21<br><br>20<br>15<br>17<br>17<br>17<br>17<br>17 | 5<br>5<br>5<br>5<br>5<br><br>5.0<br>3.5<br>3.5<br>5.0<br>5<br>5.3<br>5.3 | 1.0-1.5<br>1.0-1.5<br>1.0-1.5<br>1.0-1.5<br>1.0-1.5<br><br>1.0-1.5<br>1.5-2.5<br>1-2<br>1.0-1.8<br>0.8-1.6<br>3-5<br>3-5 | 100-200<br>100-200<br>100-200<br>100-200<br>100-200<br><br>100-200<br>100-200<br>100-200<br>100-200<br>100-200<br>200<br>200 | C<br>E<br>E<br>E<br>E<br><br>E<br>C<br>E<br>E<br>E<br>M<br>E<br>E | 0.6<br>0.4 x 0.7<br>0.3 x 0.7<br>0.3 x 0.7<br>Linear<br><br>0.2 x 0.7<br>C.6<br>0.4 x 0.7<br>0.3 x 0.7<br>0.4 x 0.7<br>0.4 x 0.7<br>0.4 x 0.7 |  | U<br>U<br>U<br>U<br>U<br><br>U<br>U<br>U<br>U<br>U<br>U<br>U | P/S<br>P/S<br>P/S<br>P/S<br>P/S<br><br>P<br>S<br>S<br>S<br>S<br>S<br>S | 6<br>6<br>6<br>6<br>6<br><br>6<br>6<br>6<br>6<br>6<br>7.2<br>7.2                              | 55.00<br>65.00<br>75.00<br>100.00<br>145.00<br><br>150.00<br>45.00<br>55.00<br>35.00<br>95.00<br>195.00<br>60.00<br>90.00 | 25.00<br>30.00<br>35.00<br>50.00<br>65.00 |
| BANG & OLUFSEN  | MMC 1<br>MMC 2<br>MMC 4   | 20-20 ±1<br>20-20 ±1.5<br>20-20 ±2.5  | MI<br>MI<br>MI   | Yes<br>Yes<br>Yes  | 30<br>25<br>22   | 22<br>22<br>17   | 2.12<br>2.12<br>2.12   | 1<br>1<br>1.2  | 200-400<br>200-400<br>200-400  | X<br>X<br>E   | 0.1 x 0.1<br>0.12 x 0.12<br>0.2 x 0.2   |  | No<br>No<br>No   | I<br>I<br>I  | 1.6<br>1.6<br>1.6   | 500.00<br>270.00<br>100.00  |   |
| BENZ-MICRO  | MC Ruby<br>MC Reference<br>MC H20<br>MC MO.9<br>MC LO.4<br>Glider<br>MC Gold<br>MC Silver<br>MC 20E II  | 10-50 ±0.5<br>10-50 ±0.5<br>10-50 ±0.5<br>10-50 ±0.5<br>10-50 ±0.5<br>10-50 ±0.5<br>20-40 ±0.5<br>20-40 ±0.5<br>15-40 ±0.5                              | MC<br>MC<br>MC<br>MC<br>MC<br>MC<br>MC<br>MC<br>MC                             | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>No<br>No<br>No                 | 40<br>40<br>40<br>40<br>40<br>40<br>30<br>30<br>25                       | 30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>25                       | 0.3<br>0.4<br>2.0<br>0.9<br>0.4<br>1<br>0.4<br>2.0<br>2.5                | 2-2.5<br>2-2.5<br>2-2.5<br>2-2.5<br>2-2.5<br>2-2.5<br>1.8-2.2<br>1.8-2.2<br>1.7-2.3                                      |  | M<br>M<br>M<br>M<br>M<br>M<br>E<br>E<br>E                         | 15/15<br>15/15<br>15/15<br>15/15<br>15/15<br>15/15<br>15/15<br>15/15<br>15/15   | F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>U    | S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S                    | 8.6<br>8.6<br>8.6<br>8.6<br>8.6<br>6.2<br>5.7<br>5.7<br>4              | 3000.00<br>2500.00<br>1800.00<br>1500.00<br>1200.00<br>750.00<br>325.00<br>325.00<br>125.00   | 500.00<br>500.00<br>500.00<br>500.00<br>500.00<br>400.00<br>175.00<br>175.00<br>75.00                                     |   |
| CHADWICK MODIFICATIONS                                    | X-5 Super<br>A-1 Super  | 15-45<br>20-28  | MC<br>IM   | No<br>No   | 30<br>30   | 28<br>24   | 2<br>3.5   | 2<br>2   | M<br>E   |   | 20/18<br>23/23  | F<br>F                                       | S<br>P/S   | 5<br>5   |   | 375.00<br>175.00  |   |
| CLEARAUDIO  | Gamma<br>Gamma-S<br>Delta<br>Delta-S<br>Veritas<br>Veritas-S<br>Signature<br>Accurate<br>Insider  | 20-20 ±2<br>20-20 ±2<br>20-20 ±2<br>20-20 ±2<br>20-30 ±2<br>20-30 ±2<br>20-30 ±2<br>20-40 ±2<br>20-50 ±2  | MC<br>MC<br>MC<br>MC<br>MC<br>MC<br>MC<br>MC<br>MC                             | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes              | 35<br>35<br>35<br>35<br>35<br>35<br>35<br>40<br>40                       | 35<br>35<br>35<br>35<br>35<br>35<br>35<br>40<br>40                       | 0.6<br>0.6<br>0.6<br>0.6<br>0.6<br>0.6<br>0.7<br>0.7<br>0.7              | 1.6-2.2<br>1.6-2.2<br>1.6-2.2<br>1.6-2.2<br>1.6-2.2<br>1.6-2.2<br>1.6-2.2<br>1.6-2.2<br>1.6-2.2                          |  |   | 15/15<br>15/15<br>15/15<br>15/15<br>15/15<br>15/15<br>15/15<br>15/15<br>15/15   | F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F    | S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S                    | 10<br>10.3<br>11.6<br>10<br>10.5<br>11.5                               | 600.00<br>760.00<br>1040.00<br>1230.00<br>1460.00<br>1800.00<br>2100.00<br>3920.00<br>7320.00 |   |   |
| CREDO   | Pro 81MC  | 10-35   | MC   | Yes  | 30   | 25   | 3.5  | 1.8-2.0  | 350  | X   |   | 15/15  | F  | S  | 9   | 990.00  | 450.00                                    |
| DENON   | DL-160<br>DL-110  | 20-50<br>20-46  | MC<br>MC   |  | 28<br>25   |  | 1.6<br>1.6   | 1.5-2.1<br>1.5-2.1   |  |   |   |  | F<br>F   | S<br>S   | 4.8<br>4.8  | 125.00<br>95.00   | 75.00<br>57.00                            |
| DESKADEL  | MC1 Eco<br>MC1S MkII<br>MC2 Finish  | 10-50 ±1.0<br>5-80 ±1.0<br>3-100 ±1.0   | MC<br>MC<br>MC   | Yes<br>Yes<br>Yes  | 38<br>50<br>60   | 38<br>60<br>60   | 0.25<br>0.2<br>0.18  | 1.9-2.1<br>1.9-2.1<br>1.7-1.9  | 150<br>150<br>845  | X<br>X<br>X   | 0.3 x 0.7<br>0.3 x 0.7<br>0.3 x 0.7   |  | F<br>F<br>F  | S<br>S<br>S  | 12<br>10<br>10  | 1595.00<br>2995.00<br>5500.00   | 750.00<br>1500.00<br>2500.00              |
| DYNAVECTOR  | XX-1L<br>XX-1<br>17D2 Mk II<br>23RS Mk II<br>10x4 Mk II<br>50x4 Mk II   | 20-50 ±2<br>20-50 ±2<br>20-100 ±2<br>20-80 ±2<br>20-20 ±2<br>20-20 ±2   | MC<br>MC<br>MC<br>MC<br>MC<br>MC   | Yes<br>Yes<br>Yes<br>Yes<br>No<br>No                                     | 30<br>30<br>25<br>25<br>25<br>25   | 38<br>30<br>0.15<br>0.15<br>2.0<br>2.0                                   | 0.25<br>2.0<br>1.8-2.0<br>1.7-1.9<br>1.5-1.9<br>1.5-1.7                  |  |  | M<br>X<br>M<br>M<br>M<br>E  |   | F<br>F<br>F<br>F<br>F<br>F                   | S<br>S<br>S<br>S<br>S<br>S                                   | 12<br>12<br>5.3<br>5.3<br>4.6<br>4.5                                   | 1100.00<br>1100.00<br>620.00<br>470.00<br>260.00<br>210.00                                    | 880.00<br>880.00<br>496.00<br>376.00<br>208.00<br>168.00  |   |
| ESOTERIC SOUND (Replacement styli for Stanton 500 series) | ES30T<br>ES35T<br>ES40T<br>ES80S  | 20-17<br>20-17<br>20-16<br>20-15  | MI<br>MI<br>MI<br>MI   | No<br>No<br>No<br>No   |  |  |  | 2-5<br>2-5<br>2-5<br>2-5   |  | C<br>C<br>C<br>S  | 3.0, truncated<br>3.5, truncated<br>4.0, truncated<br>8.0   | 10/10<br>10/10<br>10/10<br>10/10             | U<br>U<br>U<br>U   |  |   | 75.00<br>75.00<br>75.00<br>75.00  |   |

# PHONO CARTRIDGES

| MANUFACTURER                     | Model           | Frequency Response, Hz to kHz, ±dB | Principle: Moving Iron=MI, Induced Magnet=IM, Moving Coil=MC, Moving Magnet=MM | Individual Response Curve Supplied? | Channel Separation at 1 kHz, dB | Channel Separation at 10 kHz, dB | Output at 1 kHz, mV, 5 cm/Sec. rms Lateral Velocity | Recommended Tracking Force Range Grams | Recommended Load Capacitance, pF | Stylus Type—See Code | Stylus Radius (Radius), Mils | Dynamic Compliance, µm/mN, Vertical/Lateral | User=L, Factory=F, Mounting: Integral Shell=L, P-Mount=P, Standard=S | Weight, Grams | Price, \$ | Replacement Stylus Price, \$ |
|----------------------------------|-----------------|------------------------------------|--|-------------------------------------|---------------------------------|----------------------------------|---|--|----------------------------------|----------------------|------------------------------|---|--|---------------|-----------|------------------------------|
| GOLDRING                         | Elite           | 20-30 ±2                           | MC   | Yes                                 | 25                              | 0.5                              | 1.5-2.0   | 100-500                                | V                                | GYGER I              | 18/18                        | F   | S  | 5.7           | 575.00    | 400.00                       |
|                                  | Eroica Low Out  | 20-30 ±2                           | MC   | No                                  | 25                              | 0.5                              | 1.5-2.0   | 200-1000                               | V                                | GYGER II             | 18/18                        | F   | S  | 5.5           | 350.00    | 250.00                       |
|                                  | Eroica High Out | 20-22 ±3                           | MC   | No                                  | 25                              | 2.5                              | 1.5-2.0   | 100-500                                | V                                | GYGER II             | 18/18                        | F   | S  | 5.5           | 300.00    | 200.00                       |
|                                  | G1042           | 20-20 ±2                           | MM   | No                                  | 25                              | 6.5                              | 1.5-2.5   | 150-200                                | V                                | GYGER S              | 24/16                        | U   | S  | 6.3           | 275.00    | 175.00                       |
|                                  | G1022GX         | 20-20 ±2                           | MM   | No                                  | 25                              | 6.5                              | 1.5-2.5   | 150-200                                | V                                | GYGER II             | 24/16                        | U   | S  | 6.3           | 200.00    | 130.00                       |
|                                  | G1012GX         | 20-20 ±2                           | MM   | No                                  | 25                              | 6.5                              | 1.5-2.5   | 150-200                                | V                                | GYGER I              | 24/16                        | U   | S  | 6.3           | 150.00    | 90.00                        |
|                                  | G1012 78rpm     | 20-20 ±2                           | MM   | No                                  | 25                              | 6.5                              | 1.5-2.5   | 150-200                                | V                                | GYGER I              | 24/16                        | U   | S  | 6.3           | 150.00    | 90.00                        |
|                                  | G1006           | 20-20 ±3                           | MM   | No                                  | 20                              | 5.0                              | 1.5-2.5   | 150-400                                | F                                | 0.7 x 0.3            | 24/16                        | U   | S  | 6.3           | 100.00    | 70.00                        |
|                                  | Elektra         | 20-20 ±3                           | MM   | No                                  | 20                              | 5.0                              | 1.75  | 150-400                                | S                                | 0.6                  | 20/16/                       | U   | S  | 4.2           | 70.00     | 70.00                        |
|                                  | Elan            | 20-20 ±3                           | MM   | No                                  | 20                              | 5.0                              | 1.5-3.0   | 150-400                                | S                                | 0.6                  | 20/16/                       | U   | S  | 4.2           | 50.00     | 50.00                        |
| GRADO LABORATORIES               | Z2+             | 10-60                              | MI   | No                                  | 25                              | 1.4                              | 1.5   |  |                                  | 0.15 x 0.9           |                              | U   | P/S  | 5             | 265.00    | 110.00                       |
|                                  | Z1+             | 10-60                              | MI   | No                                  | 25                              | 1.4                              | 1.5   |  |                                  | 0.2 x 0.2            |                              | U   | P/S  | 5             | 180.00    | 75.00                        |
|                                  | Z+              | 10-55                              | MI   | No                                  | 25                              | 4.0                              | 1-2   |  |                                  |                      |                              | U   | P/S  | 5.5           | 130.00    | 55.00                        |
|                                  | ZF1+            | 10-55                              | MI   | No                                  | 25                              | 4.0                              | 1-2   |  |                                  |                      |                              | U   | P/S  | 5.5           | 110.00    | 45.00                        |
|                                  | ZF2+            | 10-55                              | MI   | No                                  | 25                              | 4.0                              | 1-2   |  |                                  |                      |                              | U   | P/S  | 5.5           | 86.00     | 36.00                        |
|                                  | ZF3E+           | 10-55                              | MI   | No                                  | 25                              | 4.0                              | 1-2   |  |                                  |                      |                              | U   | P/S  | 5.5           | 69.00     | 33.00                        |
|                                  | ZCE+1           | 10-50                              | MI   | No                                  | 20                              | 4.0                              | 1-2   |  |                                  |                      |                              | U   | P/S  | 5.5           | 55.00     | 30.00                        |
|                                  | ZTE+1           | 10-50                              | MI   | No                                  | 20                              | 4.0                              | 1-2   |  |                                  |                      |                              | U   | P/S  | 5.5           | 33.00     | 20.00                        |
|                                  | ZCE+            | 10-50                              | MI   | No                                  | 20                              | 4.0                              | 2-3   |  |                                  |                      |                              | U   | S  | 5.5           | 45.00     | 28.00                        |
|                                  | ZTE+            | 10-50                              | MI   | No                                  | 25                              | 4.0                              | 2-3   |  |                                  |                      |                              | U   | S  | 5.5           | 38.00     | 21.00                        |
| DJ 100 (w/2 Styli) Signature Jr. | 10-60           | Flux Bridge                        | No   | 35                                  | 25                              | 5                                | 1.5   |  |                                  | 0.2 x 0.2            |                              | U   | S  | 5             | 125.00    | 62.50                        |
| JOSEPH GRADO SIGNATURE PRODUCTS  | XTZV            | 10-50                              | Flux Bridge  | No                                  | 35                              | 25                               | 3.5   | 1.5                                    |                                  | 0.15 x 0.9           | 20/                          | U   | S  | 5             | 750.00    | 375.00                       |
|                                  | TLZV            | 10-50                              | Flux Bridge  | No                                  | 35                              | 25                               | 3.5   | 1.5                                    |                                  | 0.15 x 0.9           | 20/                          | U   | S  | 5             | 500.00    | 250.00                       |
|                                  | MCZV            | 10-50                              | Flux Bridge  | No                                  | 35                              | 25                               | 3.5   | 1.5                                    |                                  | 0.15 x 0.9           | 20/                          | U   | S  | 5             | 300.00    | 150.00                       |
|                                  | 8MZV            | 10-50                              | Flux Bridge  | No                                  | 35                              | 25                               | 5.5   | 1.5                                    |                                  | 0.2 x 0.2            | 20/                          | U   | S  | 5             | 200.00    | 100.00                       |
| IKEDA                            | 9C III          | 10-45 ±1.5                         | MC   | No                                  | 27                              | 0.2                              | 2.0-2.5   |  | X                                | 0.25 x 0.8           | 6/10                         | F   | S  | 14.5          | 1050.00   |                              |
|                                  | 9R              | 10-45 ±1.5                         | MC   | No                                  | 27                              | 0.2                              | 2.0-2.5   |  | X                                | 0.25 x 0.8           | 6/10                         | F   | S  | 15.7          | 1895.00   |                              |
|                                  | Kiwame          | 10-45 ±1.5                         | MC   | No                                  | 27                              | 0.17                             | 1.8-2.3   |  | X                                | 0.25 x 0.8           | 6/10                         | F   | S  | 16.2          | 2495.00   |                              |

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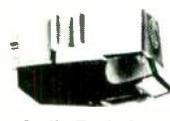
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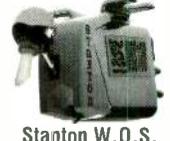
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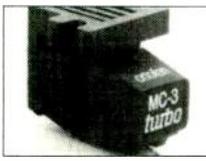
# PHONO CARTRIDGES

| MANUFACTURER                    | Model                      | Frequency Response,<br>Hz to kHz, ±dB | Principle: Moving Iron—MI,<br>Induced Magnet—IM,<br>Moving Magnet—MM | Individual Response Curve Supplied? | Channel Separation at 1 kHz, dB | Channel Separation at 10 kHz, dB | Output at 1 kHz, mV,<br>5 cm/Sec. rms Lateral Velocity | Recommended Tracking Force Range, Grams | Stylus Type—See Code | Stylus Radius (Radius), Mils | Dynamic Compliance, µm/mHz,<br>Vertical/Lateral | Stylus Replacement:<br>Use=U, Factory=F | Mounting: Integral Shell=I,<br>P-Mount=P, Standard=S | Weight, Grams | Price, \$ | Replacement Stylus Price, \$ |             |
|---------------------------------|----------------------------|---------------------------------------|--|-------------------------------------|---------------------------------|----------------------------------|--|---|----------------------|------------------------------|---|---|--|---------------|-----------|------------------------------|-------------|
|                                 |                            |                                       |  |                                     |                                 |                                  |  |   |                      |                              |   |   |  |               |           |                              | Stylus Type |
| KAB ELECTRO-ACOUSTICS           | KS500-27 (78-rpm only)     | 10-17                                 | MM   | No                                  | 25                              |                                  |  |   | S                    | 2.7 x 2.7                    | 10/10   | U                                       | S  | 6             | 42.95     | 30.00                        |             |
| LINN                            | K5                         | 20-20 ±2                              | MM   | No                                  | 20                              |                                  | 4.5  | 1.7                                     | 200                  | E                            | 12/12   | U                                       | S  | 6             | 150.00    | 90.00                        |             |
|                                 | K9                         | 20-20 ±2                              | MM   | No                                  | 20                              |                                  | 4.5  | 1.7                                     | 200                  | U                            | 12/12   | U                                       | S  | 7             | 295.00    | 177.00                       |             |
|                                 | K18H                       | 20-20 ±1                              | MM   | No                                  | 30                              |                                  | 4.5  | 1.7                                     | 200                  | U                            | 14/14   | U                                       | S  | 7.8           | 595.00    | 357.00                       |             |
|                                 | Klyde                      | 20-20 ±1                              | MC   | No                                  | 30                              |                                  | 0.15   | 1.7                                     |                      | m                            | 10/10   |   | S  | 8             | 1095.00   |                              |             |
|                                 | Arkiv                      | 20-20 ±1                              | MC   | No                                  | 30                              |                                  | 0.15   | 1.7                                     |                      | m                            | 10/10   |   | S  | 8             | 2195.00   |                              |             |
| LONDON (DECCA)                  | Jubilee                    | 20-22 ±3                              | IM   | No                                  | 25                              |                                  | 5  | 1.8-2.2                                 | 220                  | X                            | 10/15   | F                                       | S  | 10            | 1600.00   | 450.00                       |             |
|                                 | Super Gold                 | 20-22 ±3                              | IM   | No                                  | 25                              |                                  | 5  | 1-2                                     | 220                  | V                            | 10/15   | F                                       | S  | 6.7           | 650.00    | 240.00                       |             |
|                                 | Gold                       | 20-22 ±3                              | IM   | No                                  | 25                              |                                  | 5  | 1-2                                     | 220                  | F                            | 10/15   | F                                       | S  | 6.7           | 525.00    | 200.00                       |             |
|                                 | Maroon                     | 20-22 ±3                              | IM   | No                                  | 25                              |                                  | 5  | 1.6-2.2                                 | 220                  | S                            | 10/15   | F                                       | S  | 6.7           | 450.00    | 165.00                       |             |
| JOHN MARDVSKIS                  | JMAS MIT-1                 | 10-10 ±1.0                            | MC   | No                                  | 25                              | 20                               | 0.25   | 2.25-2.5                                | 500                  | V                            | 0.2 x Line                                      | /16                                     | F  | S             | 5.5       | 650.00                       | 325.00      |
| MØRCH                           | DACAPO                     | 10-40 ±1                              | MC   | No                                  | 30                              | 25                               | 0.25   | 1.8-2                                   |                      | X                            |   | 14/14                                   | F  | S             | 6.8       | 1200.00                      | 850.00      |
| ORACLE AUDIO                    | Reference                  | 20-20 ±1                              | MC   |                                     | 30                              |                                  | 0.2@<br>3.54<br>cm/S                                   | 1.5-2.3                                 | 100                  | M                            |   | 60/3                                    | F  | I             |           | 1995.00                      |             |
|                                 | Standard                   | 20-20 ±1                              | MC   |                                     | 25                              |                                  | 0.4@<br>3.54<br>cm/S                                   | 1.5-2.3                                 | 100                  | E                            |   | 15/8                                    | F  | I             |           | 795.00                       |             |
| ORTOFON                         | MC7500                     | 20-20 ±2                              | MC   | Yes                                 | 25                              | 18                               | 0.13   | 2-3                                     |                      | X                            | 0.45 x 0.10                                     | 12/12                                   | F  | S             |           | 2800.00                      | 1960.00     |
|                                 | MC20SII                    | 20-20 +4,-1                           | MC   | No                                  | 25                              |                                  | 0.2  | 1.6-2                                   |                      | X                            | 0.5 x 0.80                                      |   | F  | S             |           | 650.00                       | 390.00      |
|                                 | FF15XEII                   | 20-20                                 | MM   | No                                  | 20                              |                                  | 6  | 1-1.5                                   | 200-400              | E                            | 0.8 x 0.18                                      | 15/15                                   | U  | S             |           | 50.00                        | 20.00       |
|                                 | MC5000                     | 20-20                                 | MC   | No                                  | 25                              |                                  | 0.14   | 2.2-2.7                                 |                      | X                            | 0.5 x 0.10                                      | 12/12                                   | F  | S             | 9.5       | 2000.00                      | 1400.00     |
|                                 | MC3000MII                  | 20-20<br>+2.5-0                       | MC   | No                                  | 25                              |                                  | 0.15   | 1.7-2.2                                 |                      | X                            | 0.5 x 0.10                                      | 13/13                                   | F  | S             | 9.5       | 1600.00                      | 1120.00     |
|                                 | MC10 Super                 | 10-30 +5,-1                           | MC   | No                                  | 25                              |                                  | 0.3  | 1.3-1.8                                 |                      | E                            |   | 14/14                                   | F  | S             | 7         | 140.00                       | 100.00      |
|                                 | MC305II                    | 20-20 +4,-1                           | MC   | No                                  | 25                              |                                  | 0.2  | 1.6-2.0                                 |                      | X                            | 0.5 x 0.8                                       | 16/16                                   | F  | S             | 10        | 650.00                       | 455.00      |
|                                 | MC103II                    | 20-20 +4,-1                           | MC   | No                                  | 25                              |                                  | 0.2  | 1.6-2.0                                 |                      | X                            | 0.5 x 0.7                                       | 15/15                                   | F  | S             | 10        | 450.00                       | 315.00      |
|                                 | MC3 Turbo                  | 20-40 +3,-1                           | MC   | No                                  | 25                              |                                  | 3.3  | 1.8-2.2                                 |                      | X                            |   | 13/13                                   | F  | S             | 5         | 200.00                       | 150.00      |
|                                 | MC1 Turbo                  | 20-30 +3,-1                           | MC   | No                                  | 25                              |                                  | 3.3  | 1.8-2.2                                 |                      | X                            |   | 13/13                                   | F  | S             | 5         | 150.00                       | 117.00      |
|                                 | X5 MC                      | 15-35 +4,-1                           | MC   | No                                  | 25                              |                                  | 2.2  | 1.7-2.2                                 |                      | X                            |   | 12/12                                   | F  | S             | 5         | 300.00                       | 228.00      |
|                                 | X3 MC                      | 20-40 +3,-1                           | MC   | No                                  | 25                              |                                  | 2.2  | 1.7-2.2                                 |                      | X                            |   | 13/13                                   | F  | S             | 5         | 175.00                       | 127.00      |
|                                 | X1 MC                      | 20-30 +3,-1                           | MC   | No                                  | 25                              |                                  | 2.2  | 1.7-2.2                                 |                      | X                            |   | 13/13                                   | F  | S             | 5         | 125.00                       | 92.00       |
|                                 | OM30 Super                 | 20-20 +2,-0                           | MM   | No                                  | 25                              |                                  | 4  | 1.0-1.5                                 | 300                  | X                            | 0.40 x 0.8                                      | 40/35                                   | U  | P/S           | 5         | 225.00                       | 90.00       |
|                                 | OM20 Super                 | 20-20 +2,-1                           | MM   | No                                  | 25                              |                                  | 4  | 1.0-1.5                                 | 300                  | E                            | 0.18 x 0.8                                      | 35/30                                   | U  | P/S           | 5         | 150.00                       | 60.00       |
|                                 | OM10 Super                 | 20-20 +3,-1                           | MM   | No                                  | 22                              |                                  | 4  | 1.25-1.75                               | 300                  | E                            | 0.18 x 0.8                                      | 30/25                                   | U  | P/S           | 5         | 75.00                        | 30.00       |
|                                 | OM5E                       | 20-20<br>+3,-1.5                      | MM   | No                                  | 22                              |                                  | 4  | 1.25-1.75                               | 300                  | E                            |   | 25/25                                   | U  | P/S           | 5         | 50.00                        | 20.00       |
| OM3E                            | 20-20 +3,-2                | MM                                    | No   | 20                                  |                                 | 4                                | 1.25-1.75  | 300                                     | E                    |                              | 25/25   | U                                       | P/S  | 5             | 35.00     | 12.00                        |             |
| TM20UD                          | 20-20 +3,-1                | MM                                    | No   | 25                                  |                                 | 3.5                              | 1.0-1.5  | 400                                     | X                    |                              | 35/35   | U                                       | P/S  | 6             | 129.00    | 75.00                        |             |
| TM14U                           | 20-20                      | MM                                    | No   | 20                                  |                                 | 4.5                              | 1.0-1.5  | 400                                     | X                    |                              | 30/30   | U                                       | P/S  | 6             | 89.00     | 30.00                        |             |
| TM7                             | 20-20                      | MM                                    | No   | 20                                  |                                 | 5                                | 1.0-1.5  | 400                                     | E                    |                              | 30/30   | U                                       | P/S  | 6             | 60.00     | 25.00                        |             |
| PICKERING                       | XSV/5000                   | 10-50                                 | MM   | No                                  | 35                              |                                  | 3.8  | 0.75-1.5                                | 275                  | X                            | 0.3 x 2.8                                       |   | U  | S             | 5.6       | 330.00                       | 96.00       |
|                                 | TL-3S                      | 10-25                                 | IM   | No                                  | 35                              |                                  | 4.4  | 0.75-1.5                                | 275                  | X                            | 0.3 x 2.8                                       |   | U  | S             | 5.6       | 185.00                       | 52.80       |
|                                 | TLE                        | 10-20                                 | MM   | No                                  | 28                              |                                  | 4.4  | 1-1.5                                   | 275                  | X                            | 0.3 x 2.8                                       |   | U  | S             | 5.9       | 72.60                        | 26.40       |
|                                 | XV-15/625E                 | 10-25                                 | IM   | No                                  | 35                              |                                  | 4.4  | 0.75-1.5                                | 275                  | F                            | 0.3 x 0.7                                       |   | U  | P/S           | 6.3       | 146.30                       | 39.60       |
|                                 | XV-150DJ                   | 10-20                                 | IM   | No                                  | 28                              |                                  | 8.0  | 2-4                                     | 275                  | F                            | 0.3 x 0.7                                       |   | U  | S             | 6.3       | 140.00                       | 21.80       |
|                                 | V-15/DJ                    | 20-20                                 | IM   | No                                  | 30                              |                                  | 4.4  | 2-5                                     | 275                  | F                            | 0.7   |   | U  | S             | 6.3       | 56.75                        | 16.95       |
|                                 | XV-15/625DJ                | 20-20                                 | IM   | No                                  | 30                              |                                  | 4.4  | 1-4                                     | 275                  | F                            | 0.7   |   | U  | S             | 5.5       | 108.35                       | 106.98      |
|                                 | V-15/DJP                   | 20-20                                 | IM   | No                                  | 30                              |                                  | 4.4  | 2-5                                     | 275                  | F                            | 0.7   |   | U  | S             | 5.5       | 85.00                        | 48.00       |
|                                 | (w/3 Stylus)               |                                       |  |                                     |                                 |                                  |  |   |                      | S                            | 0.7   |   | U  | S             | 5.5       |                              | Pair        |
|                                 | XV-15/150DJP               | 10-20                                 | IM   | No                                  | 28                              |                                  |  |   | 275                  | S                            | 0.7   |   | U  | S             | 5.5       | 140.00                       | 60.00       |
|                                 | (w/3 Stylus)               |                                       |  |                                     |                                 |                                  |  |   |                      | S                            |   |   | U  | S             | 5.5       |                              | Pair        |
| REALISTIC                       | Realistic/Shure V15        | 5-30                                  | MM   | Yes                                 | 30                              |                                  |  | 1.25-1.75                               |                      | E                            | 1.5 x 2.0                                       |   | U  | S             |           | 50.00                        |             |
|                                 | Realistic/Shure R25XT      | 20-20                                 | MM   | Yes                                 | 20                              |                                  |  | 2.5-3.5                                 |                      | E                            | 0.4 x 0.7                                       |   | U  | S             |           | 20.00                        | 14.95       |
|                                 | Realistic/Shure R47XT      | 20-20                                 | MM   | Yes                                 | 25                              |                                  |  | 1.75-2.25                               |                      | E                            | 0.4 x 0.7                                       |   | U  | S             |           | 27.00                        | 17.95       |
|                                 | Realistic/Shure RXP3       | 20-20                                 | MM   | Yes                                 | 29                              |                                  |  | 1.25-1.75                               |                      | E                            | 0.2 x 0.7                                       |   | U  | P             |           | 30.00                        | 19.95       |
|                                 | Realistic/Stanton RS5000DJ | 20-20                                 | MM   | Yes                                 | 28                              |                                  |  | 2.5                                     |                      | S                            |   |   | U  | S             |           | 30.00                        | 19.95       |
| Realistic/Audio-Technica RX1500 | 15-25                      | MM                                    | No   | 29                                  |                                 |                                  | 1.0-1.5  |   | E                    |                              |   | U                                       | S  |               | 35.00     | 19.95                        |             |
| REGA RESEARCH                   | Elys                       |                                       | MM   |                                     |                                 |                                  |  | 1.75                                    |                      |                              |   | F                                       | S  |               |           | 199.00                       |             |
|                                 | Bias                       |                                       | MM   |                                     |                                 |                                  |  | 1.75                                    |                      |                              |   | F                                       | S  |               |           | 99.00                        |             |
|                                 | Super Bias                 |                                       | MM   |                                     |                                 |                                  |  | 1.75                                    |                      |                              |   | F                                       | S  |               |           | 150.00                       |             |
|                                 | RB78                       |                                       | MM   |                                     |                                 |                                  |  | 1.75                                    |                      |                              |   | F                                       | S  |               |           | 99.00                        |             |
| ROKSAN                          | Corus Black                | 20-20                                 | MM   | No                                  | 25                              |                                  | 6.5  | 1.8-2.2                                 | 270                  | X                            |   |   | U  | S             | 6.5       | 400.00                       | 300.00      |
|                                 | Shiraz                     | 20-20                                 | MC   | Yes                                 | 25                              |                                  | 1.0  | 2.0-2.5                                 |                      | X                            |   |   | F  | S             | 8.2       | 1775.00                      | 1300.00     |
| SHURE                           | V15 Type V-MR              | 20-28 ±0.75                           | MM   | Yes                                 | 25                              | 18                               | 3.2  | 1.0-1.25                                | 250                  | M                            | 0.15 x 3.0                                      |   | U  | S             | 6.6       | 175.00                       | 115.50      |
|                                 | M110HE                     | 20-20                                 | MM   | No                                  | 25                              |                                  | 4.0  | 1.25                                    | 250                  | X                            | 0.2 x 1.5                                       |   | U  | P/S           | 5.9       | 69.95                        | 46.20       |
|                                 | M104E                      | 20-20                                 | MM   | No                                  | 20                              |                                  | 5.0  | 1.25                                    | 250                  | E                            | 0.2 x 0.7                                       |   | U  | P/S           | 5.9       | 39.95                        | 26.40       |
|                                 | M92E                       | 20-18                                 | MM   | No                                  | 20                              |                                  | 5.0  | 1.25                                    | 250                  | E                            | 0.4 x 0.7                                       |   | U  | P/S           | 5.9       | 24.95                        | 16.50       |
|                                 | M55E                       | 20-20                                 | MM   | No                                  | 20                              |                                  | 6.2  | 0.75-2                                  | 450                  | E                            | 0.2 x 0.7                                       |   | U  | S             | 6.7       | 54.95                        | 22.50       |
|                                 | M44C                       | 20-20                                 | MM   | No                                  | 20                              |                                  | 9.5  | 3.0-5.0                                 | 450                  | E                            | 0.7   |   | U  | S             | 6.7       | 49.95                        | 18.95       |
|                                 | M44G                       | 20-20                                 | MM   | No                                  | 20                              |                                  | 6.2  | 0.75-1.5                                | 450                  | S                            | 0.6   |   | U  | S             | 6.7       | 49.95                        | 18.95       |
|                                 | M44-7                      | 20-20                                 | MM   | No                                  | 20                              |                                  | 9.5  | 1.5-3                                   | 450                  | S                            | 0.7   |   | U  | S             | 6.7       | 49.95                        | 18.95       |

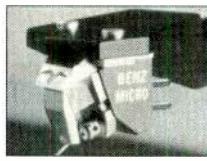
(Continued)

# PHONO CARTRIDGES

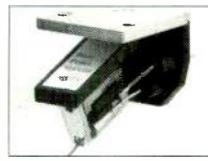
| STYLUS TYPE<br>C—Conical<br>S—Spherical<br>E—Elliptical<br>M—MicroLine,<br>MicroRidge, or similar<br>V—van den Hul<br>X—Hyper-Elliptical,<br>Stereohedron, Fine Line,<br>Line Contact, Long Line,<br>Line Trace, or similar | MANUFACTURER                   | Model | Frequency Response,<br>Hz to kHz, ±dB | Principle:<br>Induced Moving Iron=MI,<br>Moving Magnet=MM,<br>Moving Coil=MC | Individual Response Curve Supplied? | Channel Separation at 1 kHz, dB | Channel Separation at 10 kHz, dB | Output at 1 kHz, mV,<br>5 cm/Sec. rms Lateral Velocity | Recommended<br>Tracking Force Range, Grams | Recommended Load Capacitance, pF | Stylus Type—See Code | Stylus Radius (Radii), Mils | Dynamic Compliance, µm/mN,<br>Vertical/Lateral | Stylus Replacement:<br>User=L, Factory=F | Mounting: Integral Shell=I,<br>P-Mount=PM, Standard=S | Weight, Grams | Price, \$ | Replacement<br>Stylus Price, \$ |
|---|--------------------------------|-------|---------------------------------------|--|-------------------------------------|---------------------------------|----------------------------------|--|--|----------------------------------|----------------------|-----------------------------|--|--|---|---------------|-----------|---------------------------------|
| SHURE<br>(Continued)  | ME97HE                         | 20-20 | MM                                    | No   | 25                                  | 4.0                             | 0.75-1.5                         | 250  | X  | 0.2 x 1.5                        |                      | U                           | S  | 6.6                                      | 79.95   | 52.75         |           |                                 |
|   | ME95ED                         | 20-20 | MM                                    | No   | 25                                  | 4.7                             | 0.75-1.5                         | 250  | E  | 0.2 x 0.7                        |                      | U                           | S  | 5.8                                      | 59.95   | 39.60         |           |                                 |
|   | ME70B                          | 20-20 | MM                                    | No   | 20                                  | 6.0                             | 1.5-3.0                          | 250  | S  | 0.6                              |                      | U                           | S  | 6.5                                      | 19.95   | 13.20         |           |                                 |
|   | SC35C                          | 20-20 | MM                                    | No   | 20                                  | 10                              | 5.0                              | 4-5  | 450  | S                                | 0.6                  |                             | U  | S  | 6.2   | 44.95         | 18.95     |                                 |
| SIGNET  | AM40                           | 5-35  | MM                                    | Yes  | 33                                  | 23                              | 5                                | 0.8-1.6  | X  |                                  | 8/                   | U                           | S  | 6  | 275.00  | 200.00        |           |                                 |
|   | AM30                           | 5-30  | MM                                    | Yes  | 30                                  | 20                              | 5                                | 0.8-1.6  | E  | 0.3 x 0.7                        | 8/                   | U                           | S  | 6  | 225.00  | 115.00        |           |                                 |
|   | AM10                           | 15-25 | MM                                    | No   | 27                                  | 17                              | 5                                | 1.3-2.3  | E  | 0.3 x 0.7                        |                      | U                           | S  | 6  | 125.00  |               |           |                                 |
|   | 103                            | 15-25 | MM                                    | No   | 25                                  | 17                              | 5                                | 1.6  | F  | 0.4 x 0.7                        |                      | U                           | S  | 6  | 90.00   | 45.00         |           |                                 |
|   | 101                            | 20-20 | MM                                    | No   | 24                                  | 15                              | 5                                | 1.6  | F  | 0.6                              |                      | U                           | S  | 6  | 60.00   | 30.00         |           |                                 |
|   | 100                            | 20-22 | MM                                    | No   | 22                                  | 15                              | 4.2                              | 1.5-2.5  | E  | 0.4 x 0.7                        |                      | U                           | S  | 6  | 60.00   | 30.00         |           |                                 |
|   |                                |       |                                       |  |                                     |                                 |                                  |  |  |                                  |                      |                             |  |  |   |               |           |                                 |
| STANTON   | Trackmaster<br>EL-1(w/2 Styli) | 20-20 | MM                                    | No   | 30                                  |                                 | 5.2                              | 2-5  | 275  | E                                | 0.4 x 0.7            |                             |  |  |   | 258.00        | 60.00     |                                 |
|   | Trackmaster<br>EL-2(w/3 Styli) | 20-20 | MM                                    | No   | 30                                  |                                 | 5.2                              | 2-5  | 275  | E                                | 0.4 x 0.7            | U                           | S  |  |   | 325.00        |           |                                 |
|   | Trackmaster<br>AL-1(w/2 Styli) | 20-20 | MM                                    | No   | 30                                  |                                 | 5.2                              | 2-5  | 275  | S                                | 0.7                  | U                           | S  |  |   | 205.00        | 52.00     |                                 |
|   | Trackmaster<br>AL-2(w/3 Styli) | 20-20 | MM                                    | No   | 30                                  |                                 | 5.2                              | 2-5  | 275  | S                                | 0.7                  | U                           | S  |  |   | 245.00        |           |                                 |
|   | 881 MKIIS                      | 10-25 | MM                                    | Yes  | 35                                  |                                 | 3.5                              | 0.75-1.5   | 275  | S                                | 0.3 x 2.8            | 30/                         | U  | S  | 5.5   | 244.00        | 104.00    |                                 |
|   | 681EEE MKIII                   | 10-25 | IM                                    | Yes  | 35                                  |                                 | 3.5                              | 0.75-1.5   | 275  | S                                | 0.3 x 2.8            | 25/                         | U  | S  | 6.3   | 176.00        | 63.00     |                                 |
|   | L747S                          | 10-30 | MM                                    | Yes  | 35                                  |                                 | 3.0                              | 0.75-1.5   | 275  | S                                | 0.3 x 2.8            |                             | U  | P/S                                      | 5.9   | 197.00        | 55.00     |                                 |
|   | L727E                          | 10-20 | MM                                    | No   | 32                                  |                                 | 4.4                              | 0.75-1.5   | 275  | S                                | 0.3 x 0.7            |                             | U  | P/S                                      | 5.7   | 129.00        | 34.00     |                                 |
|   | L725E                          | 10-22 | MM                                    | No   | 28                                  |                                 | 3.0                              | 0.75-1.5   | 275  | S                                | 0.4 x 0.7            |                             | U  | P/S                                      | 5.7   | 93.00         | 30.00     |                                 |
|   | L720EE                         | 10-20 | MM                                    | No   | 28                                  |                                 | 3.2                              | 0.75-1.5   | 275  | S                                | 0.4 x 0.7            |                             | U  | P/S                                      | 5.7   | 81.00         | 30.00     |                                 |
|   | L680EL                         | 20-18 | IM                                    | No   | 28                                  |                                 | 4.5                              | 0.75-1.5   | 275  | S                                | 0.4 x 0.7            |                             | U  | P/S                                      | 5.4   | 156.00        | 30.00     |                                 |
|   | 680EL                          | 20-18 | IM                                    | No   | 30                                  |                                 | 4.5                              | 0.75-1.5   | 275  | S                                | 0.4 x 0.7            |                             | U  | P/S                                      | 5.4   | 156.00        | 42.00     |                                 |
|   | 680AL                          | 20-18 | IM                                    | No   | 30                                  |                                 | 4.5                              | 0.75-1.5   | 275  | S                                | 0.4 x 0.7            |                             | U  | P/S                                      | 5.5   | 136.00        | 35.00     |                                 |
|   | 500AL                          | 20-17 | MM                                    | No   | 35                                  |                                 | 3.5                              | 0.75-1.5   | 275  | S                                | 0.7                  | 10/                         | U  | S  | 5.5   | 83.00         | 25.00     |                                 |
|   | 500AL-MP                       | 20-17 | MM                                    | No   | 35                                  |                                 | 3.5                              | 0.75-1.5   | 275  | S                                | 0.7                  | 10/                         | U  | S  | 5   | 176.00        | 50.00     |                                 |
|   | L500AL                         | 20-17 | MM                                    | No   | 28                                  |                                 | 4.0                              | 3.5-4  | 275  | S                                | 0.7                  |                             | U  | S  | 8.4   | 83.00         | 25.00     |                                 |
|   | 500AL-DP                       | 20-17 | MM                                    | No   | 28                                  |                                 | 4.0                              | 3.5-4  | 275  | S                                | 0.7                  |                             | U  | S  | 6.3   | 108.00        | 72.00     |                                 |
|   | 680EE                          | 20-20 | IM                                    | No   | 35                                  |                                 | 3.5                              | 0.75-1.5   | 275  | S                                | 0.3 x 0.7            | 18/13                       | U  | S  | 6.3   | 115.00        | 43.00     |                                 |
|   | 680EL-MP                       | 20-18 | IM                                    | No   | 30                                  |                                 | 4.5                              | 2-5  | 275  | E                                | 0.4 x 0.7            | 13.5                        | U  | S  | 5.5   | 217.00        | 76.00     |                                 |
|   | 500E MKII                      | 10-22 | MM                                    | No   | 35                                  |                                 | 0.8                              | 0.75-1.5   | 275  | E                                | 0.4 x 0.7            | 14/                         | U  | S  | 5.5   | 81.00         | 21.00     |                                 |
| STC-710   | 10-20                          | MM    | No                                    | 28   |                                     | 3.0                             | 0.75-1.5                         | 275  | E  | 0.4 x 0.7                        |                      | U                           | P/S  | 5.9                                      | 40.00   | 30.00         |           |                                 |



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| STYLUS TYPE<br>C—Conical<br>S—Spherical<br>E—Elliptical<br>M—MicroLine,<br>MicroRidge, or similar<br>V—van den Hul<br>X—Hyper-Elliptical,<br>Stereohedron, Fine Line,<br>Line Contact, Long Line,<br>Line Trace, or similar | MANUFACTURER  | Model      | Frequency Response,<br>Hz to kHz, ±dB | Principle: Moving Iron—MI,<br>Inducible Magnet—IM, Moving Coil—MC,<br>Moving Magnet—MM | Individual Response Curve Supplied? | Channel Separation at 1 kHz, dB | Channel Separation at 10 kHz, dB | Output at 1 kHz, mV,<br>5 cm/Sec. rms Lateral Velocity | Recommended<br>Tracking Force Range, Grams | Recommended Load Capacitance, pF | Stylus Type—See Code | Stylus Radius (Radii), Mils | Dynamic Compliance, $\mu\text{m}/\text{mV}$ ,<br>Vertical/Lateral | Stylus Replacement:<br>User—U, Factory—F | Mounting: Integral Shell—I,<br>P-Mount—P, Standard—S | Weight, Grams | Price, \$ | Replacement<br>Stylus Price, \$ |
|---|---|------------|---------------------------------------|--|-------------------------------------|---------------------------------|----------------------------------|--|--|----------------------------------|----------------------|-----------------------------|---|--|--|---------------|-----------|---------------------------------|
| STANTON<br>(Continued)  | 890AL<br>680AL<br>Collectors Series<br>100  | 20-20      | MM                                    | No   | 30                                  |                                 | 3.0                              | 2-7  | 275  | 5                                | 0.7                  |                             |   |  |  |               | 183.00    | 51.00                           |
|   |   | 20-18      | MI                                    | No   | 28                                  |                                 | 1.1                              | 2-5  | 275  | 5                                | 0.7                  |                             |   |  |  |               | 136.00    | 35.00                           |
|   |   | 20-20 ±1   | MM                                    | No   | 35                                  |                                 | 3.2                              | 0.75-1.5   | 275  | 5                                | 0.3 x 2.8            |                             | 10/   | U  | S  | 5.5           | 407.00    | 152.00                          |
| SUMIKO  | Reference SHO<br>Blue Point<br>Special<br>Blue Point<br>Pearl<br>Black Pearl<br>Oyster  | 10-45      | MC                                    | No   | 35                                  | 30                              | 2.3                              | 2.0  |  | M                                |                      | 15/15                       | F   | S  | 8  | 1500.00       |           |                                 |
|   |   | 10-35      | MC                                    | No   | 35                                  | 35                              | 2.3                              | 1.7-2.1  |  | E                                | 0.3 x 0.7            | 15/15                       | F   | S  | 9  | 295.00        | 195.00    |                                 |
|   |   | 15-30      | MC                                    | No   | 32                                  | 32                              | 2.3                              | 1.5-1.9  |  | E                                | 0.3 x 0.7            | 15/15                       | F   | P  | 6  | 195.00        | 90.00     |                                 |
|   |   | 15-25      | MM                                    | No   | 30                                  | 30                              | 5                                | 1.5-1.6  |  | E                                | 0.2 x 0.8            | 17/17                       | U   | S  | 6  | 90.00         | 50.00     |                                 |
|   |   | 18-22      | MM                                    | No   | 28                                  | 28                              | 5                                | 1.5-1.6  |  | S                                | 0.5                  | 17/17                       | U   | S  | 6  | 60.00         | 35.00     |                                 |
| 20-20   | MM  | No         | 25                                    | 25   | 4                                   | 2-2.5                           |                                  | S  | 0.5  | 12/12                            | U                    | S                           | 5   | 40.00                                    | 25.00  |               |           |                                 |
| SYMPHONIC<br>LINE   | RG 8 The Source<br>RG 8 Gold  | 10-50 ±3   | MC                                    | Yes  | 40                                  | 40                              | 2.0                              | 1.5-1.7  |  | X                                | 0.1 x 0.3            |                             | F   | S  | 18   | 4000.00       | 300.00    |                                 |
|   |   | 10-60 ±3   | MC                                    | Yes  | 40                                  | 40                              | 0.45                             | 1.5-1.7  |  | X                                | 0.1 x 0.3            |                             | F   | S  | 18   | 5000.00       | 300.00    |                                 |
| TUBE RESEARCH<br>LABS   | RPC   | 20-20      | MC                                    |  | 30                                  | 20                              | 0.9                              |  |  | V                                |                      |                             | F   | S  | 10   | 2400.00       | 500.00    |                                 |
| VAN DEN HUL   | MM-1<br>MM-2<br>MC-10<br>MC-One<br>MC-One Super<br>MC-Two<br>Grasshopper IIIIL<br>Grasshopper III<br>Gold-Neodymium<br>Grasshopper III<br>Gold-Alnico | 10-30 ±1.5 | MM                                    | No   | 30                                  | 25                              | 5.6                              | 0.75-1.25  | 300  | V                                | 0.14 x 3.2           | 20/18                       | U   | S  | 6.5  | 450.00        | 150.00    |                                 |
|   |   | 10-30 ±1.5 | MM                                    | No   | 30                                  | 28                              | 5.6                              | 0.75-1.25  | 300  | V                                | 0.10 x 3.2           | 20/18                       | U   | S  | 6.5  | 500.00        | 150.00    |                                 |
|   |   | 5-50 ±1.5  | MC                                    | Yes  | 35                                  | 30                              | 0.35                             | 1.0-1.5  |  | V                                | 0.1 x 3.2            | 12/12                       | F   | S  | 7.6  | 1100.00       | 250.00    |                                 |
|   |   | 5-50 ±1.5  | MC                                    | Yes  | 35                                  | 30                              | 0.35                             | 1.0-1.5  |  | V                                | 0.1 x 3.2            | 12/12                       | F   | S  | 7.6  | 1500.00       | 250.00    |                                 |
|   |   | 5-50 ±1.5  | MC                                    | Yes  | 35                                  | 30                              | 1.0                              | 1.0-1.5  |  | V                                | 0.1 x 3.2            | 12/12                       | F   | S  | 7.6  | 1600.00       | 250.00    |                                 |
|   |   | 5-50 ±1.5  | MC                                    | Yes  | 35                                  | 30                              | 2.0                              | 1.0-1.5  |  | V                                | 0.1 x 3.2            | 12/12                       | F   | S  | 7.6  | 1775.00       | 250.00    |                                 |
|   |   | 5-60 ±1.5  | MC                                    | Yes  | 35                                  | 32                              | 0.75                             | 1.0-1.5  |  | V                                | 0.1 x 3.2            | 14/14                       | F   | S  | 12.5   | 3125.00       | 250.00    |                                 |
|   |   | 5-60 ±1.5  | MC                                    | Yes  | 35                                  | 32                              | 0.75                             | 1.0-1.5  |  | V                                | 0.1 x 3.2            | 14/14                       | F   | S  | 12.5   | 4150.00       | 250.00    |                                 |
|   |   | 5-60 ±1.5  | MC                                    | Yes  | 35                                  | 32                              | 0.40                             | 1.0-1.5  |  | V                                | 0.1 x 3.2            | 14/14                       | F   | S  | 12.5   | 4150.00       | 250.00    |                                 |
|   |   | 5-50       | FET                                   | Yes  | 30                                  | 20                              | 1V                               | 0.75-1.50  |  |                                  | X                    |                             |   | F  | S  | 8             | 2500.00   |                                 |



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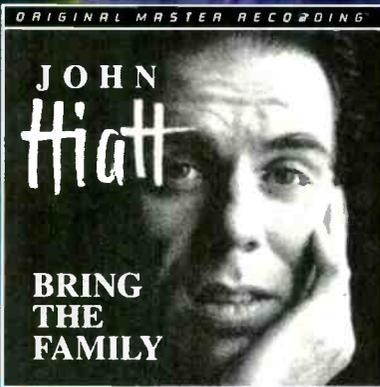
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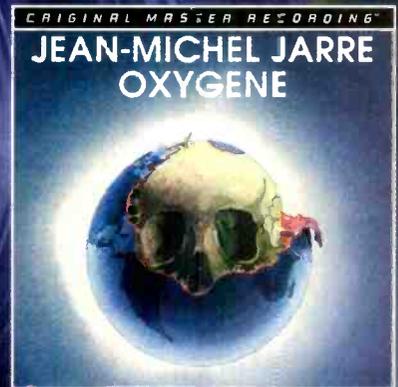
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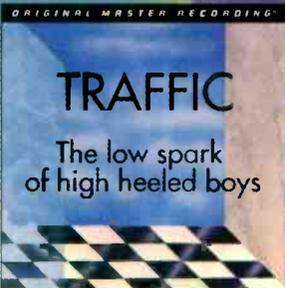


**NEW RELEASE**



MFSL 1-212

**LISTEN...**



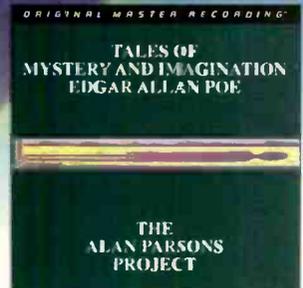
MFSL 1-209



MFSL 1-208



MFSL 1-205



MFSL 1-204



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# HEADPHONES

| MANUFACTURER       | Model    | Operating Principle | Frequency Range, Hz to kHz | Impedance, Ohms | Sensitivity, dB SPL for 1 mW input | Maximum Input, mV | THD at 95 dB SPL, % | Cord Length, Feet | Cord Style: Flat=F, Coiled=C, Round=R | Plug Type: 3.5-mm Mini=M, 1/8-inch Phone=P, Adaptor Included=A | Individual Volume Controls? | Circumaural=C, supra-Aural=S, Open-Air Design=O, In-Ear=I, Adjustable=Adj, Folding=F=N, Cover Material on Ear Cup | Weight, Ounces | Price, \$ | Notes  |   |  |
|--------------------|----------|---------------------|----------------------------|-----------------|------------------------------------|-------------------|---------------------|-------------------|---------------------------------------|--|-----------------------------|---|----------------|-----------|--------|---|--|
| AIWA               | HP-A360  | Dynamic             | 7-20                       | 40              | 103                                | 200mW             |                     | 6.7               | F                                     | A  | No                          | C/O   | A              | Foam      | 3.3    | 30.00   |  |
|                    | HP-A260  | Dynamic             | 20-20                      | 32              | 97                                 | 100mW             |                     | 3.6               | F                                     | M  | No                          | C/O   | A              | Foam      | 1.9    | 22.00   |  |
|                    | HP-A160  | Dynamic             | 20-20                      | 32              | 92                                 | 100mW             |                     | 3.6               | F                                     | M  | No                          | C/O   | A              | Foam      | 1.4    | 15.00   |  |
|                    | HP-J6    | Dynamic             | 8-25                       | 16              | 105                                | 40mW              |                     | 4                 | F                                     | M  | No                          | S/I   | A              | Plastic   | 0.9    | 50.00   |  |
|                    | HP-J3    | Dynamic             | 8-25                       | 16              | 105                                | 40mW              |                     | 4                 | F                                     | M  | No                          | S/I   | A              | Plastic   | 0.5    | 35.00   |  |
|                    | HP-JB33  | Dynamic             | 10-25                      | 16              | 105                                | 40mW              |                     | 4                 | F                                     | M  | No                          | S/I   | A              | Plastic   | 0.5    | 15.00   |  |
|                    | HP-J9    | Dynamic             | 8-25                       | 16              | 105                                | 40mW              |                     | 4                 | R                                     | M  | No                          | I   | N              | Plastic   | 0.2    | 70.00   |  |
|                    | HP-X800  | Dynamic             | 5-30                       | 40              | 105                                | 1.5W              |                     | 10                | R                                     | A  | No                          | C   | A              | Sim.      | 8      | 140.00  |  |
|                    | HP-X500  | Dynamic             | 5-27                       | 40              | 105                                | 1.5W              |                     | 10                | F                                     | A  | No                          | C   | A              | Leather   |        |   |  |
|                    | HP-X705  | Dynamic             | 5-20                       | 40              | 102                                | 500mW             |                     | 5                 | F                                     | A  | No                          | C   | F              | Vinyl     | 4.6    | 80.00   |  |
|                    | HP-XV303 | Dynamic             | 5-23                       | 32              | 102                                | 500mW             |                     | 16.4              | F                                     | A  | No                          | C   | A              | Vinyl     | 8      | 70.00   |  |
|                    | HP-X301  | Dynamic             | 5-23                       | 32              | 102                                | 500mW             |                     | 10                | F                                     | A  | No                          | C   | A              | Vinyl     | 8      | 55.00   |  |
|                    | HP-X201  | Dynamic             | 15-20                      | 32              | 100                                | 500mW             |                     | 10                | F                                     | A  | No                          | C   | A              | Vinyl     | 7      | 28.00   |  |
|                    | HP-A560  | Dynamic             | 7-20                       | 40              | 103                                | 200mW             |                     | 16                | F                                     | A  | No                          | C/O   | A              | Vinyl     | 3      | 40.00   |  |
|                    | HP-V68   | Dynamic             | 7-25                       | 16              | 109                                | 50mW              |                     | 4                 | F                                     | M  | No                          | I   | N              | Plastic   | 0.2    | 40.00   |  |
|                    | HP-V65   | Dynamic             | 7-25                       | 16              | 109                                | 50mW              |                     | 4                 | F                                     | M  | No                          | I   | N              | Plastic   | 0.2    | 35.00   | Cord winds into case.                                    |
|                    | HP-V28   | Dynamic             | 7-25                       | 16              | 109                                | 50mW              |                     | 4                 | F                                     | M  | No                          | I   | N              | Plastic   | 0.2    | 28.00   | Mono/stereo switch.                                      |
|                    | HP-V16   | Dynamic             | 7-25                       | 16              | 109                                | 50mW              |                     | 4                 | F                                     | M  | No                          | I   | N              | Plastic   | 0.2    | 20.00   |  |
| HP-V147            | Dynamic  | 10-25               | 16                         | 105             | 40mW                               |                   | 4                   | F                 | M                                     | No   | I                           | N   | Plastic        | 0.2       | 22.00  |   |  |
| HP-V145            | Dynamic  | 10-25               | 16                         | 105             | 40mW                               |                   | 4                   | F                 | M                                     | No   | I                           | N   | Plastic        | 0.2       | 21.00  | Cord winds into case.   |  |
| HP-V141            | Dynamic  | 10-25               | 16                         | 105             | 40mW                               |                   | 4                   | F                 | M                                     | No   | I                           | N   | Plastic        | 0.2       | 15.00  |   |  |
| AKG                | K500     | Dynamic             | 15-27                      | 120             | 94                                 | 200mW             |                     | 9%                | R                                     | M/P/A  | No                          | C/O   | A              | Fabric    | 7.8    | 229.00  |  |
|                    | K400     | Dynamic             | 20-26                      | 120             | 96                                 | 200mW             |                     | 9%                | R                                     | M/P/A  | No                          | C/O   | A              | Fabric    | 7.8    | 189.00  |  |
|                    | K1000    | Dynamic             | 30-25                      | 120             | 74                                 |                   | 0.5                 | 10                | F                                     | †  | No                          | C/O   | A              | Vinyl     | 9.5    | 999.00  | †Stripped and tinned leads.                              |
|                    | K270S    | Dynamic             | 20-20                      | 75              | 92                                 | 200mW             |                     | 9%                | R                                     | P  | No                          | C   | A              | Vinyl     | 9.5    | 209.00  |  |
|                    | K2400F   | Dynamic             | 15-20                      | 600             | 88                                 | 200mW             |                     | 9%                | R                                     | P  | No                          | C   | A              | Vinyl     | 8.5    | 169.00  |  |
|                    | K240M    | Dynamic             | 15-20                      | 600             | 88                                 | 200mW             |                     | 9%                | R                                     | M/P/A  | No                          | C   | A              | Vinyl     | 8.5    | 139.00  |  |
|                    | K141/2   | Dynamic             | 20-20                      | 600             | 97.5                               | 200mW             |                     | 9%                | R                                     | M/P/A  | No                          | S   | A              | Vinyl     | 8.0    | 119.00  |  |
| AUDIO-TECHNICA     | ATH-M3X  | Dynamic             | 20-21                      | 4-16            | 100                                |                   |                     | 11.5              | F                                     | M/A  | No                          | C   | A              | Vinyl     | 5      | 39.95   |  |
|                    | ATH-M2X  | Dynamic             | 20-20                      | 4-16            | 100                                |                   |                     | 11.5              | F                                     | M/A  | No                          | C   | A              | Vinyl     | 4      | 29.95   |  |
|                    | ATH-P5   | Dynamic             | 20-20                      | 40              | 100                                | 100mW             |                     | 3.3               | F                                     | M/A  | No                          | O   | A              | Foam      | 2.5    | 29.95   |  |
|                    | ATH-P3   | Dynamic             | 20-20                      | 22              | 98                                 | 100mW             |                     | 3.3               | F                                     | M/A  | No                          | O   | A              | Foam      | 3.2    | 24.95   |  |
|                    | ATH-P1   | Dynamic             | 30-20                      | 24              | 93                                 | 50mW              |                     | 3.3               | F                                     | M/A  | No                          | O   | A              | Foam      | 2      | 19.95   |  |
| BANG & OLUFSEN     | Form 1   | Dynamic             | 20-20                      | 35              | 94                                 |                   |                     | 10                | C                                     | M/A  | No                          | O   | A              | Foam      | 5.5    | 130.00  |  |
|                    | Form 2   | Dynamic             | 40-20                      | 30              | 94                                 |                   |                     | 10                | F                                     | M/A  | No                          | O   | A              | Foam      | 2.4    | 85.00   |  |
| BEYERDYNAMIC       | DT-911   | Dynamic             | 5-35                       | 250             | 115                                | 50                | 0.2†                | 10                | C                                     | P  | No                          | C/O   | A              | Velvet    | 10     | 429.00  | †At 115 dB. Diffuse-field EQ; replaceable cushion cover. |
|                    | DT-901   | Dynamic             | 5-30                       | 250             | 115                                | 50                | 0.25†               | 10                | C                                     | P  | No                          | C   | A              | Velvet    | 10     | 389.00  | †At 115 dB. As above, closed back.                       |
|                    | OT-811   | Dynamic             | 5-35                       | 250             | 114                                | 100               | 0.2†                | 10                | C                                     | P  | No                          | C/O   | A              | Velvet    | 9      | 339.00  | †At 114 dB. Diffuse-field EQ; replaceable cushion cover. |
|                    | DT-801   | Dynamic             | 5-30                       | 250             | 114                                | 100               | 0.2†                | 10                | C                                     | P  | No                          | C   | A              | Velvet    | 9      | 299.00  | †At 114 dB. As above, closed back.                       |
|                    | DT-531   | Dynamic             | 10-30                      | 250             | 115                                | 100               | 0.2                 | 8%                | F                                     | M/A  | No                          | C   | A              | Cloth     | 8.6    |   |  |
|                    | DT-511   | Dynamic             | 10-22                      | 250             | 114                                | 100               | 0.2†                | 10                | C                                     | P  | No                          | C/O   | A              | Velvet    | 7      | 199.00  | †At 114 dB. Diffuse-field EQ; replaceable cushion cover. |
|                    | DT-431   | Dynamic             | 15-20                      | 40              | 106                                | 100               | 0.3                 | 8%                | F                                     | M/A  | No                          | C   | A              | Cloth     | 7.4    | 169.00  |  |
|                    | DT-411   | Dynamic             | 15-20                      | 250             | 122                                | 100               | 0.2†                | 10                | F                                     | P/A  | No                          | S/O   | A              | Cloth     | 5      | 149.00  | †At 122 dB.  |
|                    | DT-311   | Dynamic             | 20-20                      | 40              | 118                                | 100               | 0.3†                | 10                | F                                     | P/A  | No                          | S/O   | A              | Cloth     | 5      | 99.00   | †At 118 dB.  |
|                    | DT-211   | Dynamic             | 30-18                      | 40              | 118                                | 100               | 0.3†                | 10                | F                                     | P/A  | No                          | S/O   | A              | Cloth     | 5      | 59.00   | †At 118 dB.  |
| DT-211TV           | Dynamic  | 30-18               | 40                         | 118             | 100                                | 0.3†              | 20                  | F                 | P/A                                   | Yes  | S/O                         | A   | Cloth          | 5         | 69.00  | †At 118 dB. Stereo/mono switch.                                     |  |
| IRS-890            | Dynamic  | 5-35                | 250                        | 115             | 50                                 | 0.2               |                     |                   |                                       | Yes  | C/O                         | A   | Cloth          | 11        | 369.00 | Cordless, includes IS-790 infrared transmitter; stereo/mono switch. |  |
| IRS-790            | Dynamic  | 20-23               | 40                         | 116             | 100                                | 0.3               |                     |                   |                                       | Yes  | C/O                         | A   | Cloth          | 11        | 299.00 | As above.   |  |
| DT-770 PRO         | Dynamic  | 5-35                | 600                        | 116             | 100                                | 0.2†              | 10                  | C                 | P                                     | No   | C                           | A   | Cloth          | 9         | 299.00 | †At 116 dB. Diffuse-field EQ; closed back.                          |  |
| DT-990 PRO         | Dynamic  | 5-35                | 600                        | 116             | 100                                | 0.2†              | 10                  | C                 | P                                     | No   | C/O                         | A   | Cloth          | 9         | 339.00 | †At 116 dB. Diffuse-field EQ.                                       |  |
| CALRAD             | 15-115   | Dynamic             | 20-20                      | 32              | 93                                 | 3.1V              |                     | 6                 | R                                     | P  | Yes                         | C/O   | A              |           | 8.5    | 99.00   |  |
|                    | 15-118   | Dynamic             | 20-20                      | 4-16            | 102                                |                   |                     | 6                 | C                                     | P  | Yes                         | C   | A              |           | 11     | 20.00   |  |
|                    | 15-135   | Dynamic             | 20-20                      | 4-16            | 102                                |                   |                     | 10                | C                                     | P  | Yes                         | C   | A              |           | 11     | 15.00   |  |
|                    | 15-145   | Dynamic             | 20-20                      | 4-32            | 100                                |                   |                     | 4                 | C                                     | M  | Yes                         | O   | A              |           | 0.9    | 5.00  |  |
|                    | 15-148   | Dynamic             | 18-22                      | 600             | 105                                |                   |                     | 7                 | R                                     | P  | Yes                         | C/O   | A              |           | 6.5    | 70.00   |  |
|                    | 15-116   | Dynamic             | 25-20                      | 32              | 95                                 |                   |                     | 7                 | F                                     | P  | Yes                         | C/O   | A              |           | 4      | 29.00   |  |
|                    | 15-120   | Dynamic             | 20-22                      | 40              | 105                                |                   |                     | 7                 | F                                     | P  | Yes                         | C/O   | A              |           | 5.6    | 33.00   |  |
| CHASE TECHNOLOGIES | WH 550   | Dynamic             | 50-18                      |                 | 95                                 |                   |                     |                   |                                       |  | Yes                         | C   | A              | Plastic   | 14     | 139.00  | Wireless.  |
| DENON              | AH-D950  | Dynamic             | 2-31                       | 30              | 106                                | 6.7V              |                     | 10                | F                                     | M/A  | No                          | C   | A              | Vinyl     | 9      | 150.00  |  |
|                    | AH-D750  | Dynamic             | 2-30                       | 30              | 106                                | 6.7V              |                     | 10                | F                                     | M/A  | No                          | C   | A              | Vinyl     | 9      | 125.00  |  |
|                    | AH-D650  | Dynamic             | 3-29                       | 35              | 106                                | 6.5V              |                     | 10                | F                                     | M/A  | No                          | C   | A              | Vinyl     | 7      | 100.00  |  |
|                    | AH-O550  | Dynamic             | 3-28                       | 35              | 106                                | 6.5V              |                     | 10                | F                                     | M/A  | No                          | C   | A              | Vinyl     | 7      | 75.00   |  |
|                    | AH-O350  | Dynamic             | 3-26                       | 32              | 104                                | 5V                |                     | 10                | F                                     | M/A  | No                          | C   | A              | Vinyl     | 7.5    | 60.00   |  |
|                    | AH-O210  | Dynamic             | 5-26                       | 32              | 104                                | 5V                |                     | 10                | F                                     | M/A  | No                          | C   | A              | Vinyl     | 5.6    | 50.00   |  |
| DISCWASHER         | Micro 30 |                     |                            |                 |                                    |                   |                     |                   |                                       |  | I                           | N   |                |           | 4.49   |   |  |
|                    | Micro 40 |                     |                            |                 |                                    |                   |                     |                   |                                       |  | I                           | N   |                |           | 7.99   |   |  |
|                    | Micro 50 |                     |                            |                 |                                    |                   |                     |                   |                                       |  | I                           | N   |                |           | 9.99   |   |  |
|                    | DR 60    |                     |                            |                 |                                    |                   |                     |                   |                                       |  | I                           | N   |                |           | 17.99  |   |  |
|                    | DR 70    |                     |                            |                 |                                    |                   |                     |                   |                                       |  | I                           | N   |                |           | 27.99  |   |  |
|                    | HP 110   |                     |                            |                 |                                    |                   |                     |                   |                                       |  | I                           | N   |                |           | 3.99   |   |  |
|                    | PRO 410  |                     |                            |                 |                                    |                   |                     |                   |                                       |  | I                           | N   |                |           | 9.99   |   |  |
|                    | HP 310   |                     |                            |                 |                                    |                   |                     |                   |                                       |  | I                           | N   |                |           | 11.99  |   |  |
|                    | PRO 510  |                     |                            |                 |                                    |                   |                     |                   |                                       |  | I                           | N   |                |           | 17.99  |   |  |

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HD 520 II  
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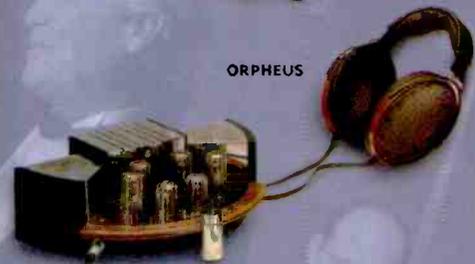
HD 580



HE 60  
HEV 70



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# HEADPHONES

| MANUFACTURER                    | Model                               | Operating Principle | Frequency Range, Hz to kHz | Impedance, Ohms | Sensitivity, dB SPL, for 1 mW Input | Maximum Input, mW | THD at 85 dB SPL, % | Cord Length, Feet | Cord Style: Flat=F, Coiled=C, Round=R | Plug Type: 3.5-mm Mini=M, 1/8-inch Phone=P, Adaptor Included=A | Individual Volume Controls? | Circumaural=C, Supra-Aural=S, Open-Air Design=O, In-Ear=I | Headband: None (Fits in Ear)=N, Adjustable=A, Folding=F | Cover Material on Ear Cup | Weight, Ounces                         | Price, \$   | Notes |
|---------------------------------|-------------------------------------|---------------------|----------------------------|-----------------|-------------------------------------|-------------------|---------------------|-------------------|---------------------------------------|--|-----------------------------|---|---|---------------------------|--|---|-------|
| MAXELL<br>(Continued)           | HP-2000<br>Studio Series<br>Digital | Dynamic             | 20-20                      | 32              | 102                                 | 150mW             | 8                   | R                 | M/A                                   |  | C                           | A   | Sim. Leather  | 9.5                       | 24.99                                  |   |       |
|                                 | HP-1000<br>Studio Series<br>Digital | Dynamic             | 20-20                      | 32              | 103                                 | 100mW             | 6                   | R                 | M/A                                   |  | S                           | A   | Foam  | 5.1                       | 19.99                                  | Single cord entry.  |       |
|                                 | HP-800<br>Digital                   | Dynamic             | 14-24                      | 32              | 120                                 | 100mW             | 6                   | R                 | M                                     | Yes  | O                           | A   | Foam  | 2.2                       | 16.99                                  | As above.   |       |
|                                 | HP-700<br>Digital                   | Dynamic             | 16-22                      | 32              | 120                                 | 100mW             | 6                   | R                 | M                                     |  | O                           | A   | Foam  | 2                         | 14.99                                  | As above.   |       |
|                                 | HP-300<br>Digital                   | Dynamic             | 20-20                      | 32              | 101                                 | 100mW             | 6                   | R                 | M                                     |  | O                           | A   | Foam  | 2.1                       | 9.99                                   |   |       |
|                                 | HP-200<br>Digital                   | Dynamic             | 16-20                      | 32              | 101                                 | 100mW             | 6                   | R                 | M                                     |  | O                           | A   | Foam  | 1.6                       | 5.99                                   |   |       |
|                                 | HB-350<br>Digital                   | Dynamic             | 14-24                      | 16              | 92                                  | 30mW              | 4                   | R                 | M                                     |  | I                           | A/F   | Plastic   | 0.8                       | 16.99                                  | Includes carrying pouch.                                      |       |
|                                 | HBS-250<br>Action Sports            | Dynamic             | 18-22                      | 32              | 95                                  | 100mW             | 4                   | R                 | M                                     |  | J                           | A/F   | Plastic   | 1                         | 14.99                                  | As above.   |       |
|                                 | HBS-150<br>Action Sports            | Dynamic             | 20-20                      | 32              | 96                                  | 20mW              | 4                   | R                 | M                                     |  | I                           | A   | Plastic   | 0.9                       | 9.99                                   |   |       |
|                                 | EB-425<br>Digital                   | Dynamic             | 16-23                      | 32              | 105                                 | 40mW              | 4                   | R                 | M                                     |  | I                           | N   | Plastic   | 0.5                       | 16.99                                  | Cord winds into case.   |       |
|                                 | EB-325<br>Action Sports             | Dynamic             | 18-22                      | 32              | 104                                 | 40mW              | 4                   | R                 | M                                     |  | I                           | N   | Plastic   | 0.5                       | 14.99                                  | As above.   |       |
|                                 | EB-225<br>Action Sports             | Dynamic             | 20-20                      | 21              | 100                                 | 60mW              | 4                   | R                 | M                                     |  | I                           | N   | Foam & Plastic  | 1.6                       | 9.99                                   | As above.   |       |
| EB-125                          | Dynamic                             | 20-20               | 32                         | 96              | 60mW                                | 4                 | R                   | M                 |                                       | I  | N                           | Foam & Plastic  | 0.5   | 4.99                      |  |   |       |
| MB QUART<br>ELECTRONICS         | QP 1X                               | Dynamic             | 24-22                      | 35              | 110                                 |                   | 6                   | F                 | M/A                                   | No   | S                           | A   | Foam  | 1.4                       | 29.00                                  |   |       |
|                                 | QP 35X                              | Dynamic             | 24-20                      | 100             | 97                                  |                   | 10                  | C                 | M/A                                   | No   | C                           | A   | Weave   | 5.6                       | 99.00                                  |   |       |
|                                 | QP 45X                              | Dynamic             | 24-20                      | 100             | 98                                  |                   | 10                  | C                 | P                                     |  | C                           | A   | Foam  | 7.8                       | 119.00                                 |   |       |
|                                 | QP 55X                              | Dynamic             | 10-22                      | 100             | 98                                  |                   | 10                  | C                 | P                                     |  | C                           | A   | Foam  | 7.8                       | 139.00                                 |   |       |
|                                 | QP 75X                              | Dynamic             | 20-20                      | 100             | 97                                  |                   | 10                  | C                 | P                                     |  | C                           | A   | Foam  | 8.1                       | 159.00                                 |   |       |
|                                 | QP 95X                              | Dynamic             | 16-23                      | 300             | 96                                  |                   | 10                  | C                 | P                                     |  | C                           | A   | Foam  | 7.6                       | 199.00                                 |   |       |
|                                 | QP 400                              | Dynamic             | 14-24                      | 300             | 93                                  |                   | 10                  | C                 | P                                     | No   | C                           | A   | Weave   | 8.3                       | 299.00                                 |   |       |
|                                 | MEMOREX                             | DLX 200             | Dynamic                    | 16-20           | 32                                  | 100               | 100mW               | 6½                | F                                     | M/A  | No                          | C   | A   | Sim. Leather              | 6.4                                    | 29.99   |       |
| DL 101V                         |                                     | Dynamic             | 20-20                      | 32              | 104                                 | 100mW             | 5                   | F                 | M                                     | Yes  | S/O                         | A   | Foam  | 2.5                       | 21.99                                  |   |       |
| DL 100                          |                                     | Dynamic             | 18-22                      | 32              | 102                                 | 100mW             | 5                   | F                 | M/A                                   | No   | S                           | A   | Foam  | 2.5                       | 19.99                                  |   |       |
| DL 94                           |                                     | Dynamic             | 50-18                      | 40              | 100                                 | 100mW             | 6                   | F                 | M/A                                   | No   | S                           | A   | Foam  | 5                         | 17.99                                  |   |       |
| DL 92                           |                                     | Dynamic             | 16-22                      | 24              | 103                                 | 30mW              | 4                   | F                 | M                                     | No   | I                           | N   | Foam  | 1.5                       | 16.99                                  |   |       |
| SL 90V                          |                                     | Dynamic             | 20-20                      | 32              | 103                                 | 70mW              | 6                   | F                 | M                                     | Yes  | I                           | S   | A   | Foam                      | 2.5                                    | 14.99   |       |
| SL 88V                          |                                     | Dynamic             | 20-20                      | 32              | 100                                 | 30mW              | 3¾                  | F                 | M                                     | Yes  | I                           | S   | A   | Foam                      | 1.25                                   | 14.99   |       |
| SL 80                           |                                     | Dynamic             | 20-20                      | 32              | 110                                 | 50mW              | 4                   | F                 | M                                     | No   | I                           | S   | A   | Foam                      | 1.75                                   | 12.99   |       |
| SL 78                           |                                     | Dynamic             | 20-20                      | 32              | 97                                  | 50mW              | 4                   | F                 | M/A                                   | No   | I                           | S   | A   | Foam                      | 1.0                                    | 11.99   |       |
| SL 60V                          |                                     | Dynamic             | 20-20                      | 32              | 96                                  | 100mW             | 6                   | F                 | M                                     | Yes  | I                           | S   | A   | Foam                      | 1.75                                   | 9.99  |       |
| SL 55                           |                                     | Dynamic             | 20-20                      | 32              | 92                                  | 20mW              | 4                   | F                 | M                                     | No   | I                           | S   | A   | Foam                      | 1.25                                   | 7.99  |       |
| Flair Fones                     |                                     | Dynamic             | 50-20                      | 32              | 92                                  | 25mW              | 3¾                  | F                 | M                                     | No   | I                           | N   | Foam  | 1.0                       | 6.99                                   |   |       |
| SL 40                           |                                     | Dynamic             | 50-18                      | 32              | 80                                  | 50mW              | 3¾                  | F                 | M                                     | No   | S                           | A   | Foam  | 1.5                       | 4.99                                   |   |       |
| Color Phones                    |                                     | Dynamic             | 50-18                      | 32              | 88                                  | 100mW             | 3¾                  | F                 | M                                     | No   | S                           | A   | Foam  | 1.5                       | 5.99                                   |   |       |
| Ear Buds                        |                                     | Dynamic             | 100-16                     | 32              | 94                                  | 25mW              | 3¾                  | F                 | M                                     | No   | S                           | N   | Foam  | 1.0                       | 3.99                                   |   |       |
| 2-Fer                           |                                     |                     |                            |                 |                                     |                   |                     |                   |                                       |  |                             |   |   | 9.99                      | Includes headphone and earphone below. |   |       |
| Headphone                       | Dynamic                             | 50-18               | 32                         | 88              | 100mW                               | 3¾                | F                   | M                 | No                                    | S  | A                           | Foam  | 1.5   |                           |  |   |       |
| Earphone                        | Dynamic                             | 100-20              | 32                         | 94              | 25mW                                | 3¾                | F                   | M                 | No                                    | I  | N                           | Foam  | 1.75  |                           |  |   |       |
| MXC                             | MDR-CD73                            | Dynamic             | 20-20                      | 32              | 102                                 |                   |                     |                   | M/A                                   | No   | C                           | A   |   |                           | 29.99                                  |   |       |
|                                 | MDR-2100                            | Dynamic             | 20-20                      | 32              | 95                                  |                   |                     |                   | M/A                                   | Yes  | C                           | A   |   |                           | 19.99                                  |   |       |
| NADY                            | WH-95                               |                     |                            |                 |                                     |                   |                     |                   |                                       |  |                             |   |   |                           | 249.95                                 | Radio-frequency wireless system.                              |       |
|                                 | WH-90                               |                     |                            |                 |                                     |                   |                     |                   |                                       |  |                             |   |   |                           | 124.95                                 | Wireless; includes transmitter; extra headsets, \$69.95 each. |       |
| NAKAMICHI                       | SP-7                                | Dynamic             | 20-20                      | 45              | 98                                  | 100               | 10                  | F                 | P                                     | No   | O                           | A   | Foam  | 4.8                       | 100.00                                 | Includes extra earpads.                                       |       |
| NIKKO AUDIO                     | NH10BV                              | Dynamic             | 20-20                      | 32              | 97                                  | 100mW             | 3.6                 |                   | M/A                                   | Yes  | I                           | N   | Foam  | 0.4                       | 8.29                                   |   |       |
|                                 | NH35                                | Dynamic             | 20-20                      | 32              | 96                                  | 100mW             | 6.6                 |                   | M/A                                   |  | C/O                         | A   | Foam  | 1.3                       | 7.95                                   |   |       |
|                                 | NH45                                | Dynamic             | 20-20                      | 32              | 98                                  | 100mW             | 9.8                 |                   | M/A                                   |  | C/O                         | A   | Foam  | 1.5                       | 12.99                                  |   |       |
|                                 | NH120                               | Dynamic             | 20-20                      | 32              | 100                                 | 100mW             |                     |                   |                                       |  | C                           | A   | Leather   | 5.6                       | 26.95                                  |   |       |
|                                 | NH150                               | Dynamic             | 15-22                      | 40              | 98                                  | 100mW             |                     |                   |                                       |  | C/O                         | A   | Cloth   | 4.9                       | 35.95                                  |   |       |
|                                 | NH650IR                             | Dynamic             | 20-23                      | 32              | 116                                 | 100mW             |                     |                   |                                       | Yes  | C                           | A   | Leather   | 9.9                       | 119.95                                 | Wireless; includes transmitter.                               |       |
| NOISE CANCELLATION TECHNOLOGIES | Noise-Buster<br>NB-DX               |                     | 20-20                      | 44              |                                     |                   | 3                   | R                 | A                                     | Yes  | O                           | A   | Foam  | 16                        | 149.00                                 | Active noise cancellation.                                    |       |
| ONKYO                           | DP-200                              | Dynamic             | 20-22                      | 40              | 97                                  |                   | 8                   | R                 | P                                     | No   | O                           | A   | Foam  | 2                         | 40.00                                  |   |       |
|                                 | DP-400                              | Dynamic             | 4-28                       | 35              | 106                                 |                   | 10                  | R                 | P                                     | No   | I                           | A   | Plastic   | 7                         | 70.00                                  |   |       |
|                                 | DP-600                              | Dynamic             | 4-28                       | 600             | 92                                  |                   | 10                  | R                 | P                                     | No   | I                           | A   | Plastic   | 7                         | 110.00                                 |   |       |
| OPTIMUS                         | PRO-90                              | ES                  | 10-22                      |                 |                                     |                   | 8                   | C                 | P                                     | No   | S                           | A   | Plastic   |                           | 70.00                                  |   |       |
|                                 | PRO-60                              | ES                  | 15-25                      |                 |                                     |                   | 8                   | R                 | P                                     | No   | C/O                         | A   | Plastic   |                           | 50.00                                  |   |       |
|                                 | LV-20                               | ES                  | 20-20                      |                 |                                     |                   | 8                   | R                 | P                                     | No   | C/O                         | A   | Plastic   |                           | 40.00                                  |   |       |
|                                 | Nova-67                             | ES                  | 20-20                      |                 |                                     |                   | 8                   | R                 | P                                     | No   | C/O                         | A   | Plastic   |                           | 35.00                                  |   |       |
|                                 | Nova-56                             | ES                  | 20-20                      |                 |                                     |                   | 10                  | R                 | P                                     | No   | C/O                         | A   | Plastic   |                           | 30.00                                  |   |       |
|                                 | Nova-44                             | ES                  | 30-18                      |                 |                                     |                   | 10                  | C                 | P                                     | No   | C/O                         | A   | Plastic   |                           | 25.00                                  |   |       |
|                                 | Nova-28                             | ES                  | 20-20                      |                 |                                     |                   | 9                   | R                 | P                                     | No   | C/O                         | A   | Plastic   |                           | 20.00                                  |   |       |
|                                 | PRO-25                              | ES                  | 15-25                      |                 |                                     |                   | 4½                  | R                 | P                                     | No   | C/O                         | A   | Plastic   |                           | 40.00                                  |   |       |
| PICKERING<br>(Continued)        | CD-5                                | Dynamic             | 20-20                      | 35              | 100                                 | 100mW             | 0.5                 | 7½                | C                                     | P  | No                          | O   | A   | Foam                      | 8.8                                    | 79.95   |       |
|                                 | CD-4                                | Dynamic             | 20-20                      | 32              | 105                                 | 100mW             | 0.5                 | 7½                | C                                     | P  | No                          | O   | A   | Foam                      | 3                                      | 66.00   |       |



# HEADPHONES

| MANUFACTURER           | Model                | Operating Principle | Frequency Range, Hz to kHz | Impedance, Ohms | Sensitivity, dB SPL for 1 mW Input | Maximum Input, mV | THD at 95 dB SPL, % | Cord Length, Feet | Cord Style: Flat=F, Coiled=C, Round=R | Plug Type: 3.5-mm Mini=M, 1/4-inch Phone=P, Adaptor Included=I | Individual Volume Controls? | Circumaural=C, supra-Aural=S, Open-Air=O, Design=O, In-Ear=I, Adjustable=A, Foldings=F, N | Cover Material on Ear-Cup | Weight, Ounces | Price, \$ | Notes                                |                                     |             |
|------------------------|----------------------|---------------------|----------------------------|-----------------|------------------------------------|-------------------|---------------------|-------------------|---------------------------------------|--|-----------------------------|---|---------------------------|----------------|-----------|--------------------------------------|-------------------------------------|-------------|
| SONY<br>(Continued)    | MDR-A12L             | Dynamic             | 12-22                      | 16              | 104                                | 50mW              | 3.9                 | R                 | M                                     | No   | I                           | F   | Plastic                   | 0.7            | 19.95     |                                      |                                     |             |
|                        | MDR-A009             | Dynamic             | 18-20                      | 18              | 98                                 | 100mW             | 5                   | R                 | M                                     | No   | O                           | F   | Foam                      | 1.5            | 19.95     |                                      |                                     |             |
|                        | MDR-84               | Dynamic             | 10-24                      | 24              | 107                                | 100mW             | 6.6                 | R                 | A                                     | No   | O                           | F   | Foam                      | 3.5            | 49.95     |                                      |                                     |             |
|                        | MDR-65               | Dynamic             | 12-24                      | 24              | 106                                | 100mW             | 6.6                 | R                 | A                                     | No   | O                           | A   | Foam                      | 3              | 39.95     |                                      |                                     |             |
|                        | MDR-55               | Dynamic             | 14-20                      | 24              | 105                                | 100mW             | 6.6                 | R                 | A                                     | No   | O                           | A   | Foam                      | 1.8            | 29.95     |                                      |                                     |             |
|                        | MDR-35               | Dynamic             | 16-20                      | 24              | 104                                | 100mW             | 6.6                 | R                 | A                                     | No   | O                           | A   | Foam                      | 1.9            | 24.95     |                                      |                                     |             |
|                        | MDR-25               | Dynamic             | 16-20                      | 24              | 102                                | 100mW             | 6.6                 | R                 | A                                     | No   | O                           | A   | Foam                      | 1.8            | 19.95     |                                      |                                     |             |
|                        | MDR-15               | Dynamic             | 18-20                      | 24              | 100                                | 100mW             | 6.6                 | R                 | A                                     | No   | O                           | A   | Foam                      | 1.8            | 14.95     |                                      |                                     |             |
|                        | MDR-009L             | Dynamic             | 18-20                      | 18              | 98                                 | 100mW             | 5                   | R                 | M                                     | No   | O                           | A   | Foam                      | 1.4            | 9.95      |                                      |                                     |             |
|                        | MDR-CD3000           | Dynamic             | 20-20                      | 32              | 104                                | 1W                | 9.8                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 14             | 599.95    |                                      |                                     |             |
|                        | MDR-CD1000           | Dynamic             | 20-20                      | 32              | 104                                | 1W                | 9.8                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 10.5           | 299.95    |                                      |                                     |             |
|                        | MDR-CD950            | Dynamic             | 20-20                      | 32              | 102                                | 1W                | 9.8                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 10.5           | 249.95    |                                      |                                     |             |
|                        | MDR-CD850            | Dynamic             | 20-20                      | 32              | 102                                | 1W                | 9.8                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 10.5           | 199.95    |                                      |                                     |             |
|                        | MDR-CD750            | Dynamic             | 20-20                      | 45              | 100                                | 500mW             | 9.8                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 10.2           | 159.95    |                                      |                                     |             |
|                        | MDR-CD6              | Dynamic             | 2-25                       | 45              | 110                                | 500mW             | 9.8                 | R                 | A                                     | No   | O                           | A   | Foam                      | 3.9            | 119.95    |                                      |                                     |             |
|                        | MDR-CD550            | Dynamic             | 20-20                      | 45              | 100                                | 500mW             | 9.8                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 9.5            | 109.95    |                                      |                                     |             |
|                        | MDR-CD450            | Dynamic             | 20-20                      | 24              | 100                                | 500mW             | 9.8                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 9.1            | 89.95     |                                      |                                     |             |
|                        | MDR-CD350            | Dynamic             | 20-20                      | 24              | 100                                | 500mW             | 9.8                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 6.7            | 69.95     |                                      |                                     |             |
|                        | MDR-CD250            | Dynamic             | 20-20                      | 24              | 98                                 | 500mW             | 9.8                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 7              | 49.95     |                                      |                                     |             |
|                        | MDR-CD50             | Dynamic             | 20-20                      | 24              | 98                                 | 500mW             | 6.6                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 7.4            | 39.95     |                                      |                                     |             |
|                        | MDR-CD30             | Dynamic             | 20-20                      | 18              | 96                                 | 500mW             | 6.6                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 7              | 29.95     |                                      |                                     |             |
|                        | MDR-CD10             | Dynamic             | 20-20                      | 32              | 96                                 | 100mW             | 6.6                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 7              | 19.95     |                                      |                                     |             |
|                        | MDR-V900             | Dynamic             | 5-30                       | 24              | 107                                | 3W                | 9.8                 | C                 | A                                     | No   | O                           | A/F   | Vinyl                     | 10.5           | 199.95    |                                      |                                     |             |
|                        | MDR-V600             | Dynamic             | 5-30                       | 45              | 106                                | 1W                | 9.8                 | C                 | A                                     | No   | O                           | A/F   | Vinyl                     | 9.1            | 99.95     |                                      |                                     |             |
|                        | MDR-V400             | Dynamic             | 10-25                      | 24              | 104                                | 500mW             | 9.8                 | R                 | A                                     | No   | O                           | A/F   | Vinyl                     | 5.6            | 79.95     |                                      |                                     |             |
|                        | MDR-V200             | Dynamic             | 16-20                      | 24              | 100                                | 500mW             | 9.8                 | R                 | A                                     | No   | O                           | A/F   | Vinyl                     | 4.6            | 49.95     |                                      |                                     |             |
|                        | MDR-V100 Mk2         | Dynamic             | 20-20                      | 32              | 98                                 | 100mW             | 6.6                 | R                 | A                                     | No   | O                           | A   | Vinyl                     | 4.9            | 29.95     |                                      |                                     |             |
|                        | MDR-D77              | Dynamic             | 5-30                       | 45              | 106                                | 1W                | 4.9                 | R                 | A                                     | No   | O                           | A/F   | Vinyl                     | 4.9            | 199.95    |                                      |                                     |             |
|                        | MDR-D55              | Dynamic             | 10-25                      | 45              | 104                                | 500mW             | 4.9                 | R                 | A                                     | No   | O                           | A/F   | Vinyl                     | 4.2            | 149.95    |                                      |                                     |             |
|                        | MDR-D33              | Dynamic             | 10-25                      | 45              | 104                                | 500mW             | 4.9                 | R                 | A                                     | No   | O                           | A/F   | Vinyl                     | 4.2            | 99.95     |                                      |                                     |             |
|                        | STANTON              | SRS-275             | Dynamic                    | 5-22            | 100                                | 101               | 100mW               | 0.5               | 10                                    | C  | A                           | No  | †                         | A              | Fabric    | 8.6                                  | 192.00                              | †Semi-open. |
|                        |                      | SRS-265             | Dynamic                    | 5-22            | 100                                | 96                | 100mW               | 0.5               | 10                                    | F  | P                           | No  | O                         | A              | Vinyl     | 8.6                                  | 162.00                              |             |
|                        |                      | SRS-225             | Dynamic                    | 10-22           | 100                                | 94                | 100mW               | 0.5               | 10                                    | F  | P                           | No  | O                         | A              | Vinyl     | 8.5                                  | 96.00                               |             |
| SRS-215                |                      | Dynamic             | 20-20                      | 50              | 98                                 | 100mW             | 0.5                 | 10                | F                                     | M/P  | No                          | O   | A                         | Vinyl          | 2.1       | 72.00                                |                                     |             |
| ST-1                   |                      | Dynamic             | 25-20                      | 32              | 110                                | 100mW             | 0.5                 | 7½                | F                                     | M  | No                          | O   | A                         | Foam           | 3.2       | 29.95                                |                                     |             |
| ST Surround            |                      | Dynamic             | 20-20                      | 32              | 103                                | 100mW             | 0.5                 | 7½                | C                                     | P  | No                          | O   | A                         | Foam           | 9.8       | 83.95                                |                                     |             |
| ST-10                  |                      | Dynamic             | 10-20                      | 50              | 98                                 | 100mW             | 0.5                 | 7                 | F                                     | M/P  | No                          | O   | A                         | Vinyl          | 9.3       | 132.00                               | Dual driver; closed back.           |             |
| LS-1                   |                      | Dynamic             | 20-20                      | 32              | 92                                 | 100mW             | 0.5                 | 5                 | F                                     | M/P  | No                          | O   | A                         | Foam           | 1         | 17.95                                |                                     |             |
| 30M/SR                 |                      | Dynamic             | 20-22                      | 100             | 110                                | 250mW             | 0.25                | 12                | C                                     | P  | No                          | O   | N                         | Foam           | 3.8       | 69.00                                |                                     |             |
| 35M/HB                 |                      | Dynamic             | 20-22                      | 100             | 110                                | 250mW             | 0.25                | 12                | C                                     | P  | No                          | O   | A                         | Foam           | 3.8       | 79.00                                |                                     |             |
| DJ-PRO 1000            | Dynamic              | 20-20               | 30                         | 100             | 500mW                              | 0.25              | 10                  | F                 | P                                     | No   | O                           | A   | Foam                      | 3.8            | 89.95     |                                      |                                     |             |
| STAX                   | SR-84 Pro            | ES                  | 20-25                      | 8               | 95                                 |                   | 0.02                | 7                 | F                                     | A  | No                          | C/O   | A                         | Vinyl          | 7.5       | 299.95                               | Includes SRD-4 Pro adaptor.         |             |
|                        | SR-34 Pro            | ES                  | 20-25                      | 8               | 95                                 |                   | 0.02                | 7                 | F                                     | A  | No                          | C/O   | A                         | Vinyl          | 8         | 199.95                               | As above.                           |             |
|                        | SR-5NB               | ES                  | 15-25                      | 8               | 97                                 |                   | 0.05                | 7                 | F                                     | A  | No                          | C/O   | A                         | Vinyl          | 13        | 349.95                               | Includes SRD-6SB adaptor.           |             |
|                        | SR-Gamma             | ES                  | 10-35                      | 8               | 97                                 |                   | 0.05                | 7                 | F                                     | A  | No                          | C/O   | A                         | Vinyl          | 7.5       | 399.95                               | As above.                           |             |
|                        | SR-Lambda            | ES                  | 8-35                       | 8               | 102                                |                   | 0.005               | 7                 | F                                     | A  | No                          | C/O   | A                         | Vinyl          | 11.8      | 599.95                               | As above.                           |             |
|                        | SR-Gamma             | ES                  | 10-35                      | 8               | 100                                |                   | 0.005               | 7                 | F                                     | A  | No                          | C/O   | A                         | Vinyl          | 7.5       | 699.95                               | Includes SRD-7 Pro adaptor.         |             |
|                        | Pro 1                |                     |                            |                 |                                    |                   |                     |                   |                                       |  |                             |   |                           |                |           |                                      |                                     |             |
|                        | SR-Lambda Pro 1      | ES                  | 8-35                       | 8               | 108                                |                   | 0.005               | 7                 | F                                     | A  | No                          | C/O   | A                         | Vinyl          | 11.8      | 799.95                               | As above.                           |             |
|                        | SR-Lambda Pro 2      | ES                  | 8-35                       | 12.5k           | 108                                |                   | 0.005               | 7                 | F                                     | A  | Yes                         | C/O   | A                         | Vinyl          | 11.8      | 799.95                               | Includes SRD-P adaptor.             |             |
|                        | SR-Sigma Pro 1       | ES                  | 25-38                      | 8               | 110                                |                   | 0.001               | 7                 | F                                     | A  | No                          | C/O   | A                         | Vinyl          | 18.2      | 1299.95                              | Includes SRD-7 Pro adaptor.         |             |
|                        | SR-Lambda Classic MX | ES                  | 8-35                       | 50k             | 108                                |                   | 0.001               | 7                 | F                                     | A  | Yes                         | C/O   | A                         | Vinyl          | 11.8      | 999.95                               | Includes SRM-XH direct drive amp.   |             |
|                        | SR-Lambda Pro 3      | ES                  | 8-35                       | 50k             | 108                                |                   | 0.001               | 7                 | F                                     | A  | Yes                         | C/O   | A                         | Vinyl          | 11.8      | 1199.95                              | Includes SRM-1/MK2 Pro Class-A amp. |             |
| SR-Lambda Signature MX | ES                   | 7-41                | 50k                        | 108             |                                    | 0.001             | 7                   | F                 | A                                     | Yes  | C/O                         | A   | Vinyl                     | 11.8           | 1499.95   | Includes SRM-X Pro direct drive amp. |                                     |             |
| SR-Lambda Signature T1 | ES                   | 7-41                | 50k                        | 108             |                                    | 0.001             | 7                   | F                 | A                                     | Yes  | C/O                         | A   | Vinyl                     | 11.8           | 1999.95   | Includes SRM-T1 tube amp.            |                                     |             |
| SR-Omega T1            | ES                   | 6-41                | 50k                        | 108             |                                    | 0.001             | 7                   | F                 | A                                     | Yes  | C/O                         | A   | Vinyl                     | 13.4           | 3999.95   | As above.                            |                                     |             |
| SR-Omega T1S           | ES                   | 6-41                | 50k                        | 108             |                                    | 0.001             | 7                   | F                 | A                                     | Yes  | C/O                         | A   | Vinyl                     | 13.4           | 4499.95   | Includes SRM-T1S balanced tube amp.  |                                     |             |
| TELEX                  | V-200                | Dynamic             | 10-20                      | 600             | 85                                 | 11V               | 0.3                 | 5                 | R                                     | Opt.   | No                          | C   | A                         | †              |           | †Moleskin.                           |                                     |             |
|                        | V-210                | Dynamic             | 10-20                      | 160             | 90                                 | 11V               | 0.3                 | 5                 | R                                     | Opt.   | No                          | C   | A                         | †              |           |                                      |                                     |             |
|                        | V-220                | Dynamic             | 10-20                      | 80              | 90                                 | 11V               | 0.3                 | 5                 | R                                     | Opt.   | No                          | C   | A                         | †              |           |                                      |                                     |             |



# ANALOG CASSETTE DECKS

| MANUFACTURER   | Model (R) = Remote Included, (RO) = Remote Optional | Frequency Response with Best Tape, Hz to kHz, ±dB | Monitoring Off Tape During Recording? | Wow & Flutter, Wtd. Peak, % | S/N without Noise Reduction, "A" Wtd., dB | S/N with Noise Reduction, "A" Wtd., dB | Noise Reduction Circuit: Dolby B=B, Dolby C=C, Dolby S=S, FX Pro=H | Bias Fine Tuning: Auto=A, Manual=M | Number of Preset Bias/EQ Positions | Program Search? | Intro Scan?       | Level Indicators: Average=A, Peak=P, Peak-Hold=PH | Counter Indicators: No. of Turns=T, Elapsed Time=E, Remaining Time=R | Auto Reverse?   | Number of Mike Inputs | Dual Wells? | Weight, Lbs.   | Price, \$        | Notes   |   |
|----------------|---|---|---------------------------------------|-----------------------------|---|--|--|------------------------------------|------------------------------------|-----------------|-------------------|---|--|-----------------|-----------------------|-------------|----------------|------------------|---|---|
| AIWA           | AD-F850(RI)   | 15-21 ±3  | Yes                                   | 0.035                       | 60  | 78                                     | B/C/H  | A/M                                | 3                                  | Yes             | No                | P/PH  | E/R  | No              | 0                     | No          | 10             | 400.00           | Dual capstan; record calibration.   |   |
|                | AD-F450(RI)<br>AD-WX727                             | 20-19 ±3<br>20-18                                 | No<br>No                              | 0.065<br>0.09               | 59<br>57                                  | 78<br>78                               | B/C/H<br>B/C/H   | A/M<br>A                           | 3<br>3                             | Yes<br>Yes      | No<br>No          | P/PH<br>P/PH                                      | T<br>T   | No<br>No        | 0<br>0                | No<br>No    | 8<br>11        | 250.00<br>300.00 | Logic controls. Anti-modulation tape stabilizer.                                  |   |
| ARCAM          | Delta 100(RO)                                       | 20-20 ±3  |                                       | 0.07                        | 66  | 88                                     | B/C/S  | M                                  | 3                                  | No              | No                | PH  | E  | No              | 0                     | No          | 17             | 1800.00          |   |   |
| BANG & OLUFSEN | Beocord 7000  | 30-18 ±3  | No                                    | 0.09                        | 55  | 74                                     | B/C/H  | A                                  | 3                                  | Yes             | No                | P/PH  | T  | Yes             | 1                     | No          | 18             | 1250.00          |   |   |
| CARVER         | TDR-1550(RI)  | 40-19 ±3  | No                                    | 0.06                        |   | 73                                     | B/C/H  | M                                  | 3                                  | Yes             | No                | P   | E  | Yes             | 0                     | No          | 12             | 500.00           | CD sync.  |   |
| DENON          | DRW-840   | 20-18 ±3  | No                                    | 0.06                        |   | 74                                     | B/C/H  | M                                  | 3                                  | Yes             | No                | P   | T  | Yes             | 0                     | Yes         |                | 400.00           | High-speed dubbing; twin and relay record; relay play.                            |   |
|                | DRW-660   | 20-18 ±3  | No                                    | 0.07                        |   | 74                                     | B/C/H  | M                                  | 3                                  | Yes             | No                | P   | T  | Yes             | 0                     | Yes         |                | 300.00           | High-speed dubbing; relay play.   |   |
|                | DRR-730   | 20-19 ±3  | No                                    | 0.06                        |   | 74                                     | B/C/H  | M                                  | 3                                  | Yes             | No                | P   | T  | Yes             | 0                     | No          |                | 300.00           | Horizontal loading; dual capstan.   |   |
|                | DRS-810   | 20-20 ±3  | Yes                                   | 0.038                       |   | 75                                     | B/C/H  | M                                  | 3                                  | Yes             | No                | P/PH  | E/R  | No              | 0                     | No          |                | 500.00           |   |   |
|                |   | DRM-740(RO)<br>DRS-640(RO)<br>DRM-540             | 20-20 ±3<br>25-18 ±3<br>25-18 ±3      | Yes<br>No<br>No             | 0.038<br>0.055<br>0.055                   |  | 75<br>74<br>74   | B/C/H<br>B/C/H<br>B/C/H            | M<br>M<br>M                        | 3<br>3<br>3     | Yes<br>Yes<br>Yes | No<br>No<br>No                                    | P/PH<br>P<br>P   | E/R<br>E/R<br>T | No<br>No<br>No        | 0<br>0<br>0 | No<br>No<br>No | 11<br>12<br>12   | 400.00<br>300.00<br>250.00  | CD sync.  |
| DUAL           | CC 5850 RC(RI)                                      | 25-19   | Yes                                   | 0.05                        | 65  | 75                                     | B/C/H  | A                                  |                                    | Yes             |                   | PH  | E/R  |                 |                       |             | 13             | 505.00           | Two motors. As above.   |   |
|                | CC 8065 RC(RI)                                      | 25-15   | Yes                                   | 0.06                        | 65  | 73                                     | B/C/H  | A                                  |                                    |                 |                   | PH  | E/R  |                 |                       |             | 12             | 440.00           |   |   |
| ELITE          | CT-43   | 15-21   | Yes                                   | 0.023                       | 60  |  | B/C/S/H  | A                                  |                                    | Yes             |                   | A/PH  | E/R  | Yes             | 0                     | No          | 16             | 650.00           |   |   |
|                | CT-W54  | 20-19   |                                       | 0.08                        | 57  | 79                                     | B/C/S/H  | A                                  |                                    | No              |                   | PH  | E  | Yes             | 1                     | Yes         |                | 475.00           |   |   |
| FISHER         | CRW983  | 50-17 ±3  | Yes                                   | 0.12                        | 54  | 70                                     | B/C/H  | A                                  | 3                                  | Yes             | No                | P   | E  | Yes             | 0                     | Yes         | 9              | 179.95           | High-speed dubbing. As above.   |   |
|                | CRW683  | 50-15 ±3  | Yes                                   | 0.18                        | 54  | 62                                     | B  | A                                  | 3                                  | No              | No                | P   | E  | Yes             | 0                     | Yes         | 9              | 129.95           |   |   |
| HARMAN KARDON  | TD420   | 20-19 ±3  | No                                    | 0.06                        | 56  | 73                                     | B/C/H  | M                                  | 3                                  | Yes             | Yes               | PH  | E  | No              | 0                     | No          | 10             | 359.00           |   |   |
|                | TD4200  | 20-20 ±3†   | No                                    | 0.05                        | 57  | 73                                     | B/C  | M                                  | 3                                  | No              | No                | P   | E  | No              | 0                     | No          | 12             | 349.00           | †At 0 VU.<br>One-touch normal and high-speed dubbing; sync dub with auto reverse. |   |
|                | TD4400  | 20-20 ±3†   | No                                    | 0.05                        | 57  | 73                                     | B/C/H  | M                                  | 3                                  | No              | No                | P   | E  | No              | 0                     | No          | 12             | 469.00           |   |   |
|                | DC5300  | 20-18 ±3  | No                                    | 0.06                        | 57  | 73                                     | B/C  | M                                  | 3                                  | No              | No                | P   | E  | Yes             | 0                     | Yes         | 17             | 569.00           |   |   |
| JVC            | TDV1050TN   | 10-23   | Yes                                   | 0.022                       | 61  |  | B/C/H  | A/M                                | 3                                  | Yes             | No                | A/PH  | E/R  | No              | 0                     | No          | 17             | 700.00           |   |   |
|                | TDV661TN  | 10-21   | Yes                                   | 0.035                       | 59  |  | B/C/H  | A/M                                | 3                                  | Yes             | No                | A/PH  | E  | No              | 0                     | No          | 12             | 419.95           |   |   |
|                | DR461TN   | 20-17   | No                                    | 0.08                        | 58  |  | B/C/H  | A/M                                | 3                                  | Yes             | No                | A/PH  | E  | Yes             | 0                     | No          | 10             | 279.95           |   |   |
|                | TDW709TN  | 20-17   | No                                    | 0.08                        | 58  |  | B/C/H  | A                                  | 3                                  | Yes             | No                | A   | E  | Yes             | 1                     | Yes         | 12             | 349.95           |   |   |
|                | TDW309TN  | 20-17   | No                                    | 0.08                        | 58  |  | B/C/H  | A                                  | 3                                  | Yes             | No                | A   | T  | Yes             | 1                     | Yes         | 11             | 279.95           |   |   |
|                | TDW209TN  | 20-17   | No                                    | 0.08                        | 58  |  | B/C/H  | A                                  | 3                                  | No              | No                | A   | T  | Yes             | 0                     | Yes         | 11             | 229.95           |   |   |
|                | TDW315TN  | 20-17   | No                                    | 0.08                        | 58  |  | B/C/H  | A                                  | 3                                  | Yes             | No                | A   | E  | Yes             | 0                     | Yes         | 11             | 259.95           |   |   |
|                | TDW215TN  | 20-17   | No                                    | 0.08                        | 58  |  | B/C/H  | A                                  | 3                                  | No              | No                | A   | E  | No              | 0                     | Yes         | 11             | 199.95           |   |   |
| KENWOOD        | KX-W8060  | 20-18   | Yes                                   | 0.06                        | 57  | 65                                     | B/C/H  | A                                  |                                    | Yes             | Yes               | A/P   | E/R  | Yes             | 0                     | Yes         | 11             | 329.00           | High-speed dubbing; simultaneous recording in both wells; timer record and play.  |   |
|                | KX-W6060  | 30-17   | Yes                                   | 0.08                        | 58  | 67                                     | B/C/H  | A/M                                |                                    | Yes             | Yes               | A/P   | A/P  | Yes             | 0                     | Yes         | 9              | 239.00           | High-speed dubbing. As above.   |   |
|                | KX-W4060<br>KX-W1060                                | 30-17<br>30-13                                    | Yes<br>Yes                            | 0.08<br>0.3                 | 58<br>57                                  | 67<br>66                               | B/C/H<br>B   |                                    |                                    |                 |                   | A/P<br>A/P  | A/P<br>A/P   | Yes<br>Yes      | 0<br>0                | Yes<br>Yes  | 9<br>9         | 229.00<br>119.00 |   |   |
| LUXMAN         | K-373   | 15-20 ±3  | Yes                                   | 0.045                       | 58  | 74                                     | B/C/H  | A/M                                | 3                                  | Yes             | Yes               | P   | E/R  | No              | 2                     | No          | 17             | 750.00           |   |   |
| MARANTZ        | SD-72(RI)   | 15-21 ±3  | Yes                                   | 0.03                        | 62  |  | B/C/H  | M                                  | 3                                  | Yes             | Yes               | PH  | T/E  | No              | No                    |             | 23             | 599.00           | Dual capstan; three inputs.   |   |
|                | SD-725(RI)  | 20-19 ±3  | No                                    | 0.06                        | 60  |  | B/C/H  | M                                  | 3                                  | Yes             | Yes               | PH  | T/E  | Yes             | Yes                   |             | 21             | 599.00           | Recording in both wells.  |   |
|                | SD-63(RI)   | 20-19 ±3  | Yes                                   | 0.05                        | 58  |  | B/C/H  | M                                  | 3                                  | No              | No                | PH  | T/E  | No              | No                    |             | 18             | 349.00           |   |   |
|                | SD-535(RI)  | 20-18 ±3  | No                                    | 0.06                        | 58  |  | B/C/H  | M                                  | 3                                  | No              | Yes               | A   | T/E  | Yes             | Yes                   |             | 14             | 349.00           |   |   |
|                | SD-1020(RI)   | 20-18 ±3  | No                                    | 0.06                        | 58  |  | B/C/H  | M                                  | 3                                  | No              | Yes               | A   | T/E  | Yes             | No                    |             | 14             | 349.00           | Auto reverse in both wells.   |   |
| NAD            | 602   | 35-16 ±3  | No                                    | 0.06                        | 56  | 66                                     | B/C  | No                                 | 3                                  | No              | No                | P   | T  | No              | 0                     | No          | 10             | 299.00           |   |   |
| NAKAMICHI      | DR-1(RO)  | 20-21 ±3  | Yes                                   | 0.06                        |   | 72                                     | B/C  | M                                  | 3                                  | No              | No                | P   | T  | No              | 0                     | No          | 13             | 929.00           | Manual playback azimuth adjustment.   |   |
|                | DR-2(RO)  | 20-21 ±3  | Yes                                   | 0.06                        |   | 72                                     | B/C  | M                                  | 3                                  | No              | No                | P   | T  | No              | 0                     | No          | 13             | 749.00           |   |   |
|                | DR-3(RO)  | 20-20 ±3  | No                                    | 0.11                        |   | 70                                     | B/C  | M                                  | 3                                  | No              | No                | P   | T  | No              | 0                     | No          | 12             | 429.00           |   |   |
| ONKYO          | TA-201(RO)  | 30-18 ±3  | No                                    | 0.07                        | 58  | 78                                     | B/C/H  | M                                  | 3                                  | No              | No                | PH  | T  | No              | 0                     | No          | 11             | 250.00           | CD sync. As above.  |   |
|                | TA-R301(RO)   | 30-18 ±3  | No                                    | 0.07                        | 58  | 78                                     | B/C/H  | M                                  | 3                                  | No              | No                | PH  | T  | Yes             | 0                     | No          | 11             | 300.00           |   |   |
|                | TA-R401(RI)   | 30-18 ±3  | No                                    | 0.07                        | 58  | 78                                     | B/C/H  | M                                  | 3                                  | Yes             | Yes               | PH  | E/R  | No              | 0                     | No          | 11             | 385.00           |   |   |
|                | TA-RW313  | 30-16 ±3  | No                                    | 0.07                        | 58  | 78                                     | B/C/H  | A                                  | 3                                  | No              | No                | P   | T  | Yes             | 0                     | Yes         | 12             | 250.00           | High-speed dubbing. Recording in both wells.                                      |   |
|                | TA-RW414  | 30-16 ±3  | No                                    | 0.07                        | 58  | 78                                     | B/C/H  | A                                  | 3                                  | Yes             | No                | P   | E/R  | Yes             | 0                     | Yes         | 13             | 355.00           |   |   |
|                | TA-RW505  | 20-17   | Yes                                   | 0.065                       | 58  | 78                                     | B/C/H  | A/M                                |                                    | Yes             | No                | A/P   | T  | Yes             | 0                     | Yes         | 13             | 410.00           |   |   |
|                | Integra   | TA-RW909  | 20-17                                 | Yes                         | 0.065                                     | 58                                     | 78   | B/C/H                              | A/M                                |                 | Yes               | No  | A/PH   | E/R             | Yes                   | 0           | Yes            | 18               | 710.00  | Record and quick reverse in both wells; separate power supply; power loading. |

# ANALOG CASSETTE DECKS

| MANUFACTURER | Model (R) - Remote Included, (RD) - Remote Optional | Frequency Response with Best Tape, Hz to kHz, $\pm$ dB | Morphing Off Tape During Recording? | Wow & Flutter, Wtd. Peak, % | S/N without Noise Reduction, "A" Wtd., dB | S/N with Noise Reduction, "A" Wtd., dB | Noise-Reduction Circuit: Dolby B-B, Dolby C-C, Dolby S-S, TX Pro-H | Bias Fine Tuning: Auto-A, Manual-M | Number of Preset Bias EQ Positions | Program Search? | Intro Scan? | Level Indicators: Average=A, Peak=P, Peak-Hold=PH | Counter Indications: No of Turns=T, Elapsed Time=E, Remaining Time=R, Auto Reverse? | Number of Mike Inputs | Dual Wells? | Weight, Lbs. | Price, \$                                 | Notes            |   |
|--------------|---|--|-------------------------------------|-----------------------------|---|--|--|------------------------------------|------------------------------------|-----------------|-------------|---|---|-----------------------|-------------|--------------|---|------------------|---|
| OPTIMUS      | SCT-53  | 25-16  | No                                  | 0.15                        | 54  | 63                                     | B  | No                                 | 2                                  | No              | P           | No  | 0   | Yes                   | 7           | 129.99       | Auto level control. Blank skip. As above. |                  |   |
|              | SCT-54  | 40-17  | No                                  | 0.07                        | 55  | 65                                     | B/C/H  | No                                 | 3                                  | No              | P           | 0   | Yes   | 8                     | 199.99      |              |   |                  |   |
|              | SCT-55  | 40-17  | Yes                                 | 0.07                        | 55  | 65                                     | B/C/H  | No                                 | 3                                  | Yes             | P           | 0   | Yes   | 9                     | 249.99      |              |   |                  |   |
|              | SCT-5500  |  |                                     |                             |   |  | B  | No                                 | 3                                  | No              | P           | 0   | Yes   | 9                     | 150.00      |              |   |                  |   |
|              | SCT-86  | 250-10 $\pm$ 3   | No                                  | 0.15                        | 52  | 57                                     | B  | No                                 | 3                                  | No              | P           | 0   | Yes   | 2                     | 90.00       |              |   |                  |   |
| PHILIPS      | FC911   | 40-16  | No                                  | 0.1                         | 58  | 76                                     | B/C  |                                    | 3                                  | No              | A/PH        | T   | Yes   | 0                     | Yes         | 11           | 199.95                                    |                  |   |
|              | FC931   | 40-16  | No                                  | 0.1                         | 58  | 76                                     | B/C/H  | A                                  | 3                                  | Yes             | A/PH        | E/R   | Yes   | 0                     | Yes         | 11           | 249.95                                    |                  |   |
| PIONEER      | CT-WM62R(RI)  | 20-19  |                                     | 0.09                        | 58  |  | B/C/H  |                                    |                                    | Yes             | No          | PH  | E/R   | Yes                   | 0           | †            | 16  | 525.00           | †One well, six-cassette changer; other well, normal. Dynamic playback EQ. Dynamic playback EQ. As above; automatic noise-reduction selection in playback. |
|              | CT-W703RS   | 20-20  |                                     | 0.09                        | 57  |  | B/C/S/H  | A                                  | 1                                  | No              | PH          | E   | Yes   | 1                     | Yes         | 9            | 350.00                                    |                  |   |
|              | CT-W603RS   | 20-16.5  |                                     | 0.09                        | 57  |  | B/C/S/H  | A                                  | 1                                  | No              | PH          | E   | Yes   | 0                     | Yes         | 9            | 290.00                                    |                  |   |
|              | CT-W503R  | 20-16.5  |                                     | 0.09                        | 57  |  | B/C/H  |                                    |                                    |                 | No          | PH  | E   | Yes                   | 0           | Yes          | 9   | 260.00           |   |
|              | CT-W403R<br>CT-W103                                 | 20-16.5<br>30-16                                       | 0.09<br>0.09                        | 57<br>56                    |   | B/C/H<br>B                             |  |                                    |                                    |                 | No<br>No    | PH<br>PH  | E<br>E  | Yes<br>No             | 0<br>0      | Yes<br>Yes   | 9<br>8                                    | 225.00<br>150.00 |   |
| ROTEL        | RD-965BX  | 30-18 $\pm$ 3  | No                                  | 0.06                        | 55  | 73                                     | B/C/H  | M                                  | 3                                  | Yes             | No          | P   | T   | No                    | 0           | No           | 13  | 399.90           |   |
| SANSUI       | D-X519HXR   | 30-17 $\pm$ 3  | No                                  | 0.06†                       | 50  | 70                                     | B/C/H  | A                                  | 3                                  | Yes             | No          | P/PH  | T   | Yes                   | 0           | No           | 10  | 250.00           |   |
|              | D-X119W   | 30-13 $\pm$ 3  |                                     | 0.15                        | 50  | 60                                     | B  | A                                  | 3                                  | No              | A/P         | T   | Yes   | 0                     | Yes         | 9            | 124.95                                    |                  |   |
|              | D-X219WR  | 30-13 $\pm$ 3  |                                     | 0.09                        | 58  | 65                                     | B  | A                                  | 3                                  | Yes             | A/P         | T   | Yes   | 0                     | Yes         | 10           | 199.95                                    |                  |   |
| SHERWOOD     | DD-6030C  | 20-19 $\pm$ 3  |                                     | 0.06                        |   | 76                                     | B/C/H  |                                    |                                    | Yes             | No          | A   | E   | Yes                   | 1           | Yes          | 12  | 325.00           | Remote control via Sherwood receivers. As above. As above. Remote pause via Sherwood receivers. As above.   |
|              | DD-4030C  | 25-18 $\pm$ 3  |                                     | 0.06                        |   | 74                                     | B/C/H  |                                    |                                    | Yes             | No          | A   | E   | Yes                   | 1           | Yes          | 11  | 250.00           |   |
|              | DD-3010C  | 35-16.5 $\pm$ 3  |                                     | 0.07                        |   | 73                                     | B/C/H  |                                    |                                    | Yes             | No          | A   | E   | Yes                   | 1           | Yes          | 11  | 225.00           |   |
|              | DD-2010C  | 35-16 $\pm$ 3  |                                     | 0.08                        |   | 72                                     | B/C  |                                    |                                    | Yes             | No          | A   | E   | Yes                   | 9           | Yes          | 9   | 140.00           |   |
| SONY         | TC-RX311(RO)  | 30-15 $\pm$ 3  | No                                  | 0.07                        | 58  | 73                                     | B/C/H  | A                                  | 3                                  | Yes             | No          | A/P   | E   | Yes                   | 0           | No           | 9   | 250.00           |   |
|              | TC-K615S(RO)  | 15-21 $\pm$ 3  | Yes                                 | 0.045                       | 61  | 76                                     | B/C/S/H  | A/M                                | 3                                  | Yes             | No          | A/P   | E   | No                    | 0           | No           | 12  | 349.00           |   |
|              | TC-W345   | 30-15 $\pm$ 3  | No                                  | 0.11                        | 58  | 73                                     | B/C  | A                                  | 3                                  | Yes             | No          | A/P   | T   | Yes                   | 0           | Yes          | 10  | 119.00           |   |
|              | TC-WR44S(RO)  | 30-18 $\pm$ 3  | No                                  | 0.11                        | 58  | 73                                     | B/C/H  | A                                  | 3                                  | Yes             | No          | A/P   | E   | Yes                   | 0           | Yes          | 10  | 169.00           |   |
|              | TC-WR54S(RO)  | 30-18 $\pm$ 3  | No                                  | 0.08                        | 58  | 73                                     | B/C/H  | A                                  | 3                                  | Yes             | No          | A/P   | E   | Yes                   | 0           | Yes          | 11  | 199.00           |   |
| TC-WR64S(RO) | 30-18 $\pm$ 3                                       | No   | 0.07                                | 58                          | 73  | B/C/S/H                                | A  | 3                                  | Yes                                | No              | A/P         | E   | Yes   | 0                     | Yes         | 12           | 299.00                                    |                  |   |
| SONY ES      | TC-RX606ES  | 25-19 $\pm$ 3  | No                                  | 0.06                        | 61  | 76                                     | B/C/S/H  | A                                  | 3                                  | Yes             | No          | A/P   | E   | Yes                   | 2           | No           | 12  | 400.00           |   |
|              | TC-K717ES   | 20-15 +1,-3  | Yes                                 | 0.07                        | 61  | 76                                     | B/C/S/H  | M                                  | 3                                  | Yes             | No          | A/P   | E   | No                    | 0           | No           | 18  | 560.00           |   |
|              | TC-K909ES   | 15-22 $\pm$ 3  | Yes                                 | 0.022                       | 61  | 76                                     | B/C/S/H  | M                                  | 3                                  | Yes             | No          | A/P   | E   | No                    | 0           | No           | 19  | 790.00           |   |
|              | TC-WR801ES  | 20-17 +1,-3  | Yes                                 | 0.04                        | 61  | 76                                     | B/C/S/H  | A                                  | 3                                  | Yes             | No          | A/P   | E   | Yes                   | 0           | Yes          | 11  | 430.00           |   |
|              | TC-WR901ES  | 20-20 $\pm$ 3  | Yes                                 | 0.06                        | 61  | 76                                     | B/C/S/H  | A                                  | 3                                  | Yes             | No          | A/P   | E   | Yes                   | 0           | Yes          | 12  | 670.00           |   |
| TEAC         | V-8000S(RI)   | 15-21 $\pm$ 3  | Yes                                 | 0.022                       | 60  |  | B/C/S/H  | M                                  | 3                                  | No              | No          | P/PH  | E   | No                    | 0           | No           | 24  | 1300.00          | CD sync. As above. As above. Bidirectional record and play; auto reverse in both wells; auto fade in/out.   |
|              | V-7010(RI)  | 15-21 $\pm$ 3  | Yes                                 | 0.022                       | 60  |  | B/C/H  | M                                  | 3                                  | Yes             | No          | P/PH  | E   | No                    | 0           | No           | 20  | 1000.00          |   |
|              | V-5010(RI)  | 15-21 $\pm$ 3  | Yes                                 | 0.027                       | 60  |  | B/C/H  | M                                  | 3                                  | No              | No          | P   | E   | No                    | 0           | No           | 18  | 790.00           |   |
|              | V-3010(RI)  | 15-21 $\pm$ 3  | Yes                                 | 0.045                       | 60  |  | B/C/H  | M                                  | 3                                  | No              | No          | P   | T/E   | No                    | 0           | No           | 15  | 620.00           |   |
|              | V-2020S   | 15-21 $\pm$ 3  | Yes                                 | 0.045                       |   | 84                                     | B/C/S/H  | M                                  | 0                                  | No              | No          | P   | E   | No                    | 0           | No           | 11  | 650.00           |   |
|              | V-1010(RO)  | 15-21 $\pm$ 3  | Yes                                 | 0.045                       | 60  |  | B/C/H  | M                                  |                                    | No              | No          | P   | T   | No                    | 0           | No           | 13  | 400.00           |   |
|              | V-600(RO)   | 25-19  | No                                  | 0.06                        | 59  | 79                                     | B/C/H  | A                                  | 3                                  | Yes             | No          | PH  | T   | No                    | 0           | No           | 10  | 239.00           |   |
|              | V-375   | 30-16  | No                                  | 0.09                        | 55  | 65                                     | B  | A                                  | 3                                  | No              | Yes         | P   | T   | No                    | 0           | No           | 7   | 119.00           |   |
| W-6000R(RI)  | 25-19   | No   | 0.06                                | 59                          |   | B/C/H                                  | A  | 3                                  | Yes                                | No              | P           | T   | Yes   | 2                     | Yes         | 15           | 750.00                                    |                  |   |
| W-800R       | W-750R(RO)  | 25-19  | No                                  | 0.06                        | 59  | 79                                     | B/C/H  | A                                  | 0                                  | Yes             | Yes         | P/PH  | T   | Yes                   | 2           | Yes          | 11  | 369.00           |   |
|              | W-415   | 30-16  | No                                  | 0.09                        | 55  | 65                                     | B  | A                                  | 3                                  | No              | No          | PH  | T   | Yes                   | 0           | Yes          | 10  | 279.00           |   |
|              | R-550(RO)   | 25-19  | No                                  | 0.06                        | 59  | 79                                     | B/C/H  | A                                  | 3                                  | Yes             | Yes         | PH  | T   | Yes                   | 0           | No           | 10  | 289.00           |   |
| TECHNICS     | RS-TR979  | 20-18 $\pm$ 3  |                                     | 0.1                         | 56  | 74                                     | B/C/H  | A                                  |                                    | Yes             | Yes         |   |   | Yes                   | Yes         | 12           | 419.95                                    |                  |   |
|              | RS-TR575  | 20-18 $\pm$ 3  | Yes                                 | 0.1                         | 56  | 74                                     | B/C/H  | A                                  |                                    | Yes             | No          | PH  |   | Yes                   | Yes         | 10           | 249.95                                    |                  |   |
|              | RS-TR474  | 20-18 $\pm$ 3  | Yes                                 | 0.1                         | 56  | 74                                     | B/C/H  | A                                  |                                    | Yes             | No          | PH  |   | Yes                   | Yes         | 10           | 229.95                                    |                  |   |
|              | RS-TR373  | 20-18 $\pm$ 3  | Yes                                 | 0.1                         | 56  | 74                                     | B/C/H  | A                                  |                                    | No              | No          | PH  | T   | Yes                   | Yes         | 10           | 199.95                                    |                  |   |
| RS-TR232     | 20-17   | Yes  | 0.1                                 | 56                          | 74  | B/C/H                                  | A  |                                    | Yes                                | No              | P           |   | Yes   | 0                     | Yes         | 11           | 199.95                                    |                  |   |
| YAMAHA       | KX-380(RO)  | 20-19 $\pm$ 3  | No                                  | 0.07                        | 58  | 74                                     | B/C/H  | M                                  | 3                                  | Yes             | Yes         | P/PH  | E   | No                    | 0           | No           | 10  | 249.00           |   |
|              | KX-580(RO)  | 20-20 $\pm$ 3  | No                                  | 0.05                        | 60  | 80                                     | B/C/S/H  | A                                  | 3                                  | Yes             | Yes         | P/PH  | E   | No                    | 0           | No           | 10  | 399.00           |   |
|              | KX-670(RO)  | 20-21 $\pm$ 3  | Yes                                 | 0.07                        | 60  | 76                                     | B/C/H  | A/M                                | 3                                  | Yes             | Yes         | P/PH  | E/R   | No                    | 0           | No           | 12  | 499.00           |   |
|              | KX-R470(RO)   | 20-20 $\pm$ 3  | No                                  | 0.15                        | 58  | 74                                     | B/C/H  | M                                  | 3                                  | Yes             | Yes         | P/PH  | T   | Yes                   | 0           | No           | 11  | 379.00           |   |
|              | KX-W282(RO)   | 20-19 $\pm$ 3  | No                                  | 0.08                        | 58  | 74                                     | B/C  | M                                  | 3                                  | Yes             | No          | P   | T   | Yes                   | 0           | Yes          | 10  | 249.00           |   |
|              | KX-W382(RO)   | 20-20 $\pm$ 3  | No                                  | 0.08                        | 58  | 74                                     | B/C/H  | A                                  | 3                                  | Yes             | No          | P/PH  | E   | Yes                   | 0           | Yes          | 11  | 299.00           |   |
|              | KX-W582(RO)   | 20-20 $\pm$ 3  | No                                  | 0.08                        | 58  | 74                                     | B/C/H  | A                                  | 3                                  | Yes             | No          | P/PH  | E   | Yes                   | 0           | Yes          | 11  | 399.00           |   |
| KX-W952(RI)  | 20-20 $\pm$ 3                                       | No   | 0.08                                | 58                          | 74  | B/C/H                                  | A  | 3                                  | Yes                                | Yes             | P/PH        | R   | Yes   | 0                     | Yes         | 18           | 729.00                                    |                  |   |



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Some have a voice to match.**

# BLANK TAPES & DISCS

| ANALOG CASSETTE<br>TAPE TYPE CODE<br>I — Normal Ferric<br>II — Chrome/<br>Chrome Equivalent<br>IV — Metal Particle | MANUFACTURER | Brand  | ANALOG CASSETTE                        |   |                      |  |                                      |  |                | DCC   |       |               | DAT            |              |       | MD     |       | CDR  | Notes |
|--|--------------|--|--|---|----------------------|--|--------------------------------------|--|----------------|-------|-------|---------------|----------------|--------------|-------|--------|-------|--|-------|
|  |              |  | Tape Type—See Code                     |   |                      |  |                                      |  |                | D-60  | D-90  | R-60          | R-90           | R-120        | M-60  | M-74   | CDR   |  |       |
|  |              |  | C-45 or C-46                           | C-60  | C-74, C-75, or C-76  | C-90   | C-100                                | C-120  |                |       |       |               |                |              |       |        |       |  |       |
|  | BASF         | Ferro Extra I<br>Chrome Extra II<br>Chrome Super II<br>Reference Maxima II<br>DCC Maxima<br>DAT<br>MD Maxima | I<br>II<br>II<br>II                    | 1.45<br>1.89<br>3.79                              |                      | 1.59<br>2.29<br>2.99<br>3.99                 | 1.89<br>2.79<br>3.33<br>4.59         |  |                |       | 12.99 | 9.99          | 11.99          | 13.99        | 15.99 | 18.99  |       | D-75, \$10.99.   |       |
|  | DENON        | R-150<br>R-180<br>R-DT<br><br>MG-X<br>HDM<br>HD8<br>HD7<br>HD6<br>S-PORT<br>S-PDRT<br>DX1                    | IV<br>IV<br>II<br>II<br>II<br>IV<br>II |   | 3.75                 | 4.99<br>4.25<br>3.50<br>2.75                 | 5.50<br>4.75<br>4.00<br>3.25         | 8.99<br>5.99<br>4.99<br>4.25<br>3.50<br>3.49†<br>2.49† |                |       |       | 16.99<br>8.99 | 18.99<br>10.99 | 12.99        |       |        |       | 20-minute Demo-Master DAT \$7.99.<br><br>†Sold in two-pack only.   |       |
|  | DIC DIGITAL  | HO Series<br><br>R-DAT<br><br>CDR  |  |   |                      |  |                                      |  |                |       |       | 7.19<br>6.19  | 7.69<br>6.87   | 8.19<br>7.43 |       |        | 31.99 | R-10, \$4.59;<br>R-30, \$7.99;<br>R-10, \$3.95;<br>R-30, \$5.29.<br>†63 minutes, \$22.00;<br>74 minutes, \$25.00.  |       |
|  | FUJI         | DR-I<br>DR-II<br>FR-IIx<br>FR-IIx Pro<br>ZII<br>FR-Metal<br>DAT<br>DCC<br>MD-Z                               | I<br>II<br>II<br>II<br>II<br>IV        | 1.49<br>2.49<br>3.49<br>4.49<br>4.49<br>5.49      |                      | 1.99<br>2.99<br>3.99<br>4.99<br>4.99<br>5.99 | 3.49<br>4.49<br>5.49<br>5.49<br>6.49 |  |                | 8.99  | 9.99  | 10.95         | 11.95          | 12.95        | 11.99 | 14.99  |       |  |       |
|  | GREENCORP    | DAT<br>XDS<br>Music +<br>Genuine Chrome  | I<br>I<br>II                           | .77<br>83<br>93                                   | .84<br>92<br>1.01    | .98<br>1.05<br>1.20                          | 1.26                                 |  |                |       |       | 5.60          | 6.60           | 7.60         |       |        |       | R-15, \$5.00.<br>C-12, 64¢; C-32, 71¢.<br>C-12, 66¢; C-32, 77¢.<br>C-12, 74¢; C-32, 85¢.   |       |
|  | JVC          | GI<br>AFII<br>XFIV<br>R-XD   | I<br>II<br>IV                          | 1.29<br>2.19                                      |                      | 1.55<br>2.49<br>3.89                         |                                      |  |                |       |       | 7.99          | 9.50           | 10.95        |       |        |       | R-100, \$9.99.   |       |
|  | LORAN        | ESQ 90<br>Pro DAT  | II                                     |   |                      | 5.50   |                                      |  |                |       |       | 6.50          | 10.25          | 11.50        |       |        |       |  |       |
|  | MAXELL       | UR<br>XLI<br>XLII<br>XLII-S<br>MX<br>MX-S<br>DCC<br>DM<br>MD   | I<br>I<br>II<br>II<br>IV<br>IV         | 1.39<br>1.89<br>2.99                              | 1.39<br>1.89<br>2.99 | 1.69<br>2.39<br>3.49<br>4.39<br>3.99<br>5.29 | 3.29<br>4.00<br>4.89<br>5.89         |  |                | 11.49 | 12.79 | 11.49         | 12.49          | 13.89        | 16.89 | 21.49  |       | C-110, \$4.49.<br>R-46, \$9.79.  |       |
|  | MEMOREX      | dBS<br>CD2<br>CDX2<br>MRX<br>DRX-DCC   | I<br>II<br>IV<br>IV                    | 1.19  | 1.29<br>1.79         | 1.59<br>1.99<br>2.99<br>3.49                 | 1.99                                 |  |                | 7.99  | 9.99  |               |                |              |       |        |       | C-110, \$1.79.<br>C-110, \$2.39.<br>C-110, \$3.49.<br>C-110, \$3.99.   |       |
|  | PANASONIC    | Panasonic<br><br>Panasonic   |  |   |                      |  |                                      |  | 9.49           | 10.99 |       | 9.99          | 10.99          | 11.99        |       |        |       | D-45, \$8.99;<br>D-75, \$9.99;<br>R-46, \$8.99.  |       |
|  | RADIO SHACK  | Supertape MIV<br><br>Supertape<br>Premium MII<br>Supertape HD<br><br>Supertape<br>Premium XR<br>Supertape LN | IV<br><br>II<br>II<br><br>I<br>I       | 7.99†<br><br>6.99†<br>6.49†<br><br>3.99†<br>1.99† |                      | 8.99†<br><br>7.49†<br>7.99†                  | 7.99†<br>9.99†                       |  | 9.59†<br>3.49† |       |       |               |                |              |       |        |       | †Two-pack C-110,<br>two-pack, \$9.99.<br>†Two-pack.<br>Type II metal tape.<br>††Three-pack.<br>†††Three-pack,<br>five-pack, \$12.99.<br>†††Three-pack.<br>†Two-pack C-30,<br>two-pack, \$1.69. |       |
|  | RECOTON      | RC<br><br>SX<br>XR<br><br>XCD  | I<br><br>I<br>II<br><br>II             | 1.99†<br><br>3.99†                                |                      | 1.99††<br>4.49†<br>6.99†                     | 4.99†<br>7.99†                       |  | 2.69           |       |       |               |                |              |       |        |       | †Three-pack.<br>††Two-pack.<br>††Two-pack.<br>†Five-pack,<br>ten-pack, \$13.99.<br>†Two-pack.  |       |
|  | SONY         | DT-RN<br>MDW<br>CDO<br>HF<br>CDit<br><br>UX<br>UX Pro  | I<br>II<br><br><br><br>II<br>II        | 1.59<br>†<br><br><br><br>2.49<br>3.49             | 2.49                 | 1.69<br>††<br><br><br><br>3.19<br>3.99       | 3.49<br>3.69                         | 2.69   |                |       | 12.49 | 15.99         | 18.00          | 13.99        | 16.99 | 29.00† |       | †74 minutes.<br>†C-54, \$1.99.<br>††C-94, \$2.99.  |       |
| (Continued)  |              |  |  |   |                      |  |                                      |  |                |       |       |               |                |              |       |        |       |  |       |



# EQUALIZERS

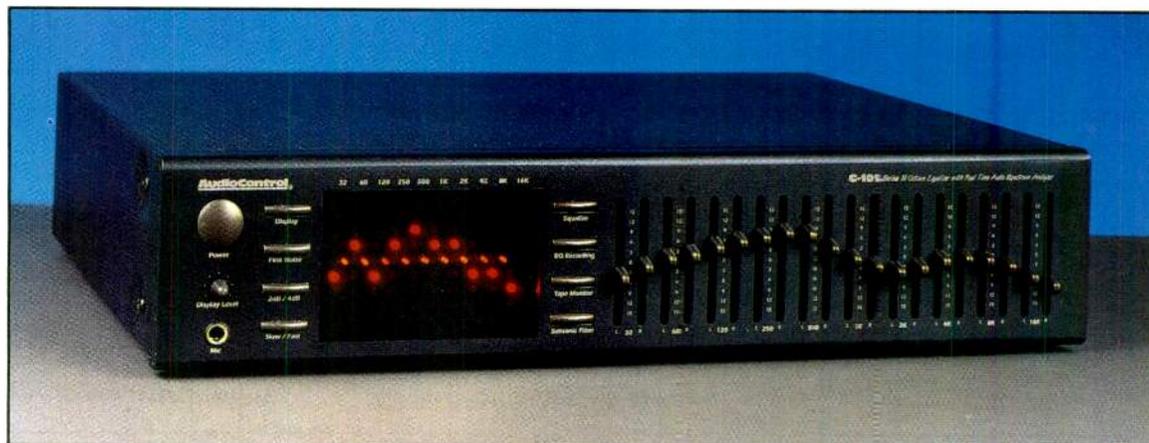
| MANUFACTURER                 | Model (R)=Remote Included (RO)=Remote Optional | Number of Channels | Number of Bands per Channel | Bandwidth, Octaves | Switched Tape EQ? | Unity Gain Control? | Rated Output, V rms | THD at Rated Output, % | S/N, dB, at Rated Output, "A" Wtd. | Variable Center Frequencies? | Variable Filter "Q"? | Boost/Cut Range, -dB | Real-Time or Spectrum Analyzer? | Test Generator? | Pink Noise=P, Warble Tone=W | With Calibrated Mike? | Number of Memories | Number of Tape Monitors | Subsonic Filter? | Video Inputs? | Price, \$  | Notes   |
|------------------------------|--|--------------------|-----------------------------|--------------------|-------------------|---------------------|---------------------|------------------------|------------------------------------|------------------------------|----------------------|----------------------|---------------------------------|-----------------|-----------------------------|-----------------------|--------------------|-------------------------|------------------|---------------|--|---|
| AB INTERNATIONAL ELECTRONICS | 131  | 1                  | 31                          | 1/2                | No                | Yes                 | 20                  | 0.01                   | 110                                | No                           | No                   | 6/12                 | No                              | No              | No                          | No                    | 0                  | 0                       | Yes              | No            | 339.00   |   |
|                              | 215  | 2                  | 15                          | 1/4                | No                | Yes                 | 20                  | 0.01                   | 110                                | No                           | No                   | 6/12                 | No                              | No              | No                          | No                    | 0                  | 0                       | Yes              | No            | 349.00   |   |
|                              | 231  | 2                  | 31                          | 1/2                | No                | Yes                 | 20                  | 0.01                   | 110                                | No                           | No                   | 6/12                 | No                              | No              | No                          | No                    | 0                  | 0                       | Yes              | No            | 599.00   |   |
| ANODYNE GROUP                | Turbo S.E.                                     | 2                  | 1                           |                    |                   |                     |                     |                        |                                    | Yes                          | Yes                  | +6                   |                                 |                 |                             |                       |                    |                         | Yes              |               | 799.00   | For B & W Matrix series speakers; balanced version, \$1099.00; mono version, balanced and unbalanced, \$1599.00 per pair. |
| AUDIO CENTRON                | AC-GE215                                       | 2                  | 15                          | 1/2                | No                | No                  | 15                  | 0.01                   | 95                                 | No                           | No                   | 12                   | No                              | No              | No                          | No                    | 0                  | 0                       | No               | No            | 365.00   |   |
|                              | AC-GE131                                       | 1                  | 31                          | 1/2                | No                | No                  | 15                  | 0.01                   | 95                                 | No                           | No                   | 12                   | No                              | No              | No                          | No                    | 0                  | 0                       | Yes              | No            | 365.00   |   |
| AUDIOCONTROL                 | C-131  | 1                  | 30                          | 1/2                | No                | Yes                 | 7.5                 | 0.002                  | 112                                | No                           | No                   | 15                   | No                              | No              | No                          | No                    | 0                  | 1                       | †                | No            | 529.00   | Constant Q; balanced and unbalanced inputs and outputs. †Variable subsonic filter.  |
|                              | R-130  | 2                  | 30                          | 1/2                | No                | Yes                 | 7.5                 | 0.002                  |                                    | No                           | No                   | 15                   | Yes                             | P               | Yes                         | 0                     | 1                  | No                      | No               | 649.00        | Real-time analyzer for model above; balanced and unbalanced inputs.  |   |
|                              | C-101 Series III                               | 2                  | 10                          | 1                  | Yes               | No                  | 7.5                 | 0.005                  | 120                                | No                           | Yes                  | 15                   | Yes                             | P               | Yes                         | 0                     | 1                  | Yes                     | No               | 459.00        |  |   |
|                              | Ten Plus Series II                             | 2                  | 10                          | 1                  | Yes               | No                  | 7.5                 | 0.005                  | 120                                | No                           | Yes                  | 15                   | Yes                             | W               | Yes                         | 0                     | 1                  | Yes                     | Yes              | 329.00        | Stepped warble generator: 0-dB indicator.  |   |
|                              | Ten Series II                                  | 2                  | 10                          | 1                  | Yes               | No                  | 7.5                 | 0.005                  | 120                                | No                           | Yes                  | 15                   | No                              | No              | No                          | 0                     | 1                  | Yes                     | Yes              | 229.00        |  |   |
|                              | Octave Architect Richter Scale Series III      | 2                  | 10                          | 1                  | Yes               | No                  | 7.5                 | 0.008                  | 118                                | No                           | Yes                  | 15                   | No                              | No              | No                          | 0                     | 1                  | Yes                     | No               | 159.00        |  |   |
| AUDIO DESIGN ASSOCIATES      | Bass-Only EQ                                   | 1                  | 1                           | Adj.               |                   |                     | 5                   | 0.001                  | 100                                | Yes                          | Yes                  | +30                  | No                              | No              | No                          | 1                     |                    | No                      | No               | 330.00        |  |   |
|                              |  | 2                  | 6                           | 1/2                | Yes               | No                  | 7.5                 | 0.005                  | 120                                | No                           | Yes                  | 12                   | Yes                             | W               | Yes                         | 0                     | 1                  | †                       | No               | 189.00        | For wall-mount speakers.   |   |
| AUDIO "78"/OWL               | Owl 1  | 2                  | 1                           |                    | No                | Yes                 | 5                   | 0.05                   |                                    | Yes                          | No                   |                      |                                 |                 |                             |                       |                    |                         | Yes              |               | 389.00   | For equalization of 78s, transcriptions, and mono LPs (see also "Preamps").   |
| AUDIOSOURCE                  | EQ 8/Series II                                 | 2                  | 10                          | 1                  | Yes               | No                  |                     | 0.03                   | 80                                 | No                           | No                   | 12                   | Yes                             | No              | No                          | 1                     | No                 | No                      | No               | 159.95        |  |   |
|                              | EQ Eleven                                      | 2                  | 10                          | 1                  | Yes               | Yes                 |                     | 0.03                   | 85                                 | No                           | No                   | 12                   | Yes                             | No              | No                          | 2                     | No                 | No                      | No               | 199.95        |  |   |
|                              | EQ Twelve                                      | 2                  | 10                          | 1                  | Yes               | Yes                 |                     | 0.015                  | 98                                 | No                           | No                   | 12                   | Yes                             | P               | Yes                         | 2                     | Yes                | No                      | No               | 299.95        |  |   |
| BRIGHT STAR AUDIO            | EFC  | 2                  |                             | 1/2                | No                | No                  | 10.5                | 0.02                   |                                    | No                           | No                   |                      | No                              | No              | No                          | 0                     | 0                  | Yes                     | No               | 399.00        | For Bright Star Altair series loudspeakers.  |   |
| CELLO LTD.                   | Audio Palette                                  | 2                  | 6                           |                    | No                | No                  | 15                  | 0.005                  | 80                                 | No                           | No                   |                      | No                              | No              | No                          | 0                     | 0                  | No                      | No               | 15,000.       | Requires external power supply, Master Supply, \$3000.00; with multiple inputs, Audio Palette MIV, \$17,000. |   |
|                              | Palette Preamplifier                           | 2                  | 6                           |                    | No                | No                  | 9                   | 0.005                  | 80                                 | No                           | No                   |                      | No                              | No              | No                          | 0                     | 2                  | No                      | No               | 6500.00       | Includes external power supply (see also "Preamps").   |   |
| DB SYSTEMS                   | DB-5   | 2                  | 6                           |                    |                   |                     | 4                   | .0008                  | 108                                | Yes                          |                      | 15                   |                                 |                 |                             |                       |                    |                         |                  | 470.00        | Model DB-2A power supply or DBP-1 cable required.  |   |
| ELECTRO-VOICE                | EQ-131   | 1                  | 31                          | 1/2                | No                | Yes                 | 7.75                | 0.01                   | 97                                 | No                           | Yes                  | 12                   | No                              | No              | No                          | 0                     | 0                  | Yes                     | No               | 482.00        | Balanced in and out.   |   |
|                              | EQ-215   | 2                  | 15                          | 1/4                | No                | Yes                 | 7.75                | 0.01                   | 97                                 | No                           | Yes                  | 12                   | No                              | No              | No                          | 0                     | 0                  | Yes                     | No               | 500.00        | As above.  |   |
|                              | EQ-231   | 2                  | 31                          | 1/2                | No                | Yes                 | 7.75                | 0.01                   | 97                                 | No                           | Yes                  | 12                   | No                              | No              | No                          | 0                     | 0                  | Yes                     | No               | 770.00        | As above.  |   |
| ESOTERIC SOUND               | Re-Equalizer                                   | 2                  | 2                           | 10                 | No                | No                  | 3.5                 | 0.02                   | 85                                 | No                           | No                   | 16                   | No                              | No              | No                          | 36                    | 0                  | No                      | No               | 310.00        | For replay of early LPs, 78s, and transcriptions.  |   |
| GEMINI SOUND PRODUCTS        | PVX-30   | 2                  | 15                          | 1/2                | No                | Yes                 | 5.5                 | 0.03                   | 90                                 |                              |                      | 12                   | No                              | No              | No                          | 0                     | 0                  | Yes                     | No               | 229.00        |  |   |
|                              | PVX-31   | 1                  | 31                          | 1/2                | No                | Yes                 | 5.5                 | 0.03                   | 90                                 |                              |                      | 12                   | No                              | No              | No                          | 0                     | 0                  | Yes                     | No               | 219.00        |  |   |
| HARMAN KARDON                | EQ-8   | 2                  | 10                          | 1/2                | Yes               | Yes                 | 2                   | 0.02                   | †                                  | No                           |                      | 12                   | No                              | No              | No                          | 0                     | 1                  | ††                      | No               | 329.00        | †105 dB re: 0.5 V out. ††Variable subsonic filter.   |   |
| HARRISON LABORATORIES        | SEM0D  | 2                  | †                           | 1/2                | No                | Yes                 | 2                   |                        | 90                                 | No                           | No                   | 12                   | Yes                             | P               | No                          | 0                     | 0                  | Yes                     | No               | 459.00        | †Selectable, 1 to 30. Parametric crossover routes bands to outputs.  |   |
| JRM                          | Remote Unit                                    | 2                  | 6                           | 1                  | Yes               | Yes                 | 7                   | 0.001                  | 110                                | No                           | No                   | 8                    |                                 |                 |                             |                       |                    |                         | Yes              | Yes           | 855.00   | JRM preamp or 3BPB crossover required; continuously variable loudness.  |
| KENWOOD                      | GE-7030  | 2                  | 14                          |                    | Yes               | No                  | 9                   | 0.006                  | 100                                | Yes                          | No                   | 12                   | Yes                             | No              | No                          | 11                    | 1                  | No                      | No               | 379.00        |  |   |
|                              | GE-4030  | 2                  | 7                           |                    | Yes               | No                  | 5.4                 | 0.006                  | 100                                | Yes                          | No                   | 12                   | Yes                             | No              | No                          | 10                    | 1                  | No                      | No               | 249.00        |  |   |
|                              | KE-2060  | 2                  | 7                           |                    | Yes               | No                  | 4.5                 | 0.01                   | 92                                 | Yes                          | No                   | 10                   | No                              | No              | No                          | 1                     | 1                  | No                      | No               | 149.00        |  |   |
| LANGEVIN                     | All-Discrete Pultec EQP1-A                     | 1                  | 18                          | Var.               | No                | Yes                 | 10                  | 1                      | 90                                 | Yes                          | Yes                  | 10                   | No                              | No              | No                          | 0                     | 0                  | No                      | No               | 1275.00       | Balanced in and out; polarity reversal.  |   |

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*Julian Hirsch, Stereo Review, July 1994*



“ I'm impressed by how little distortion and noise the C-101 produces ... it is outstanding in these regards. ”

*Edward Foster, Audio, August 1994*

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# EQUALIZERS

| MANUFACTURER          | Model<br>(RI)=Remote Included,<br>(RO)=Remote Optional | Number of Channels | Number of Bands per Channel | Bandwidth, Octaves | Switched Tape EQ? | Unity Gain Control? | Rated Output, V rms | THD at Rated Output, % | S/N, dB, at Rated Output, "A" Wtd. | Variable Center Frequencies? | Variable Filter "Q"? | Boost/Cut Range, ±dB | Real-Time or Spectrum Analyzer? | Test Generator?<br>Pink Noises-P | With Calibrated Mike? | Number of Memories | Number of Tape Monitors | Subsonic Filter? | Video Inputs? | Price, \$ | Notes   |
|-----------------------|--|--------------------|-----------------------------|--------------------|-------------------|---------------------|---------------------|------------------------|------------------------------------|------------------------------|----------------------|----------------------|---------------------------------|----------------------------------|-----------------------|--------------------|-------------------------|------------------|---------------|-----------|---|
| MANLEY LABS           | Enhanced Pultec EQP1-A                                 | 1                  | 18                          | Var.               | No                | Yes                 | 8                   | 1                      | 90                                 | Yes                          | Yes                  | 10                   | No                              | No                               | No                    | 0                  | 0                       | No               | No            | 2150.00   | Tube, balanced in; polarity reversal.   |
|                       | Mid Frequency EQ                                       | 1                  | 11                          | Var.               | No                | Yes                 | 8                   | 1                      | 90                                 | Yes                          | Yes                  | 10                   | No                              | No                               | No                    | 0                  | 0                       | No               | No            | 1750.00   | As above.   |
|                       | Contour Shelf EQ                                       | 1                  | 6                           | Var.               | No                | Yes                 | 8                   | 1                      | 90                                 | Yes                          | Yes                  | 10                   | No                              | No                               | No                    | 0                  | 0                       | No               | No            | 2000.00   | Tube.   |
|                       | Playback EQ  | 1                  | 6                           | Var.               | No                | Yes                 | 8                   | 1                      | 90                                 | Yes                          | Yes                  | 10                   | No                              | No                               | No                    | 0                  | 0                       | No               | No            | 1500.00   | As above; five line inputs; polarity reversal.  |
| MARCHAND              | WM8-AA   | 2                  | 1                           | 3                  | No                |                     | 8.8                 | 0.01                   | 110                                | Yes                          | Yes                  | +24                  | No                              | No                               | No                    | 0                  | 1                       | Yes              | No            | 399.00    | Bass correction and extension for acoustic-suspension speakers; kit, \$249.00.  |
| McINTOSH              | MQ108  | 2                  | 7                           | ½                  | No                | No                  | 2.5                 | 0.002                  | 95                                 | Yes                          | Yes                  | 10                   | No                              | No                               | No                    | 0                  | 0                       | No               | No            | 300.00    |   |
| MTX<br>SOUNDCRAFTSMEN | EQ440 Pro  | 2                  | 21                          | ½                  | Yes               | Yes                 | 10                  | 0.01                   | 114                                | No                           | No                   | 15                   | No                              | No                               | No                    | 0                  | 1                       | No               | No            | 549.00    | Differential comparator system; ISO center frequencies.   |
| NEI                   | 1520   | 2                  | 15                          | ¾                  | No                | Yes                 | 22                  | 0.003                  | 90                                 | No                           | Yes                  | 12                   | No                              | No                               | No                    | 0                  | 0                       | No               | No            | 299.00    | Balanced inputs and outputs.  |
|                       | 3111   | 1                  | 31                          | ½                  | No                | Yes                 | 22                  | 0.003                  | 90                                 | No                           | Yes                  | 12                   | No                              | No                               | No                    | 0                  | 0                       | Yes              | No            | 299.00    | As above; 18-dB Butterworth infrasonic filter.  |
| ONKYO                 | EQ-101   | 2                  | 7                           | 1                  | Yes               | No                  | 0.15                | 0.01                   | 100                                | No                           | No                   | 12                   | No                              | No                               | No                    | 0                  | 1                       | No               | No            | 165.00    |   |
|                       | EQ-201   | 2                  | 7                           | 1                  | Yes               | No                  | 0.15                | 0.01                   | 100                                | No                           | No                   | 12                   | Yes                             | No                               | No                    | 0                  | 1                       | No               | No            | 255.00    |   |
|                       | Integra EQ-35  | 2                  | 12                          | 1                  | Yes               | Yes                 | 0.15                | 0.01                   | 100                                | No                           | No                   | 12/6                 | No                              | P                                | No                    | 0                  | 2                       | No               | No            | 355.00    |   |
| OPTIMUS               | 31-2025  | 2                  | 10                          |                    | Yes               | Yes                 | 10                  | 0.015                  | 95                                 | No                           | No                   | 12                   | Yes                             | No                               | No                    | 0                  | 2                       | No               | No            | 120.00    |   |
| PIONEER               | GR-777(RI)   | 2                  | 10                          | ½                  | Yes               | Yes                 | 0.15                | 0.02                   | 110                                | No                           | No                   | 10                   | Yes                             | No                               | No                    | 5                  | 1                       | No               | No            | 410.00    |   |
|                       | GR-555   | 2                  | 7                           | ½                  | Yes               | Yes                 | 0.15                | 0.02                   | 104                                | No                           | No                   | 10                   | Yes                             | No                               | No                    | 0                  | 1                       | No               | No            | 260.00    |   |
|                       | GR-470(BK)   | 2                  | 7                           | ½                  | Yes               | Yes                 | 0.15                | 0.03                   | 106                                | No                           | No                   | 10                   | No                              | No                               | No                    | 0                  | 1                       | No               | No            | 135.00    |   |
| RANE                  | THX 44   | 4                  | 13                          | ½                  | No                | No                  | 3.5                 | 0.015                  | 120                                | Yes                          | Yes                  | 6                    | No                              | No                               | No                    | 0                  | 0                       | No               | No            | 1299.00   | 11-band graphic and 2-band parametric on left, center, and right channels; 2-band parametric on subwoofer channel. Unequalized stereo subwoofer output; includes crossover (see also "Crossovers").   |
|                       | SSE 35   | 3                  | 11                          | ¾                  | No                | No                  | 3.5                 | 0.015                  | 120                                | No                           | No                   | 6                    | No                              | No                               | No                    | 0                  | 0                       | No               | No            |           | Constant Q.   |
|                       | ME 60  | 2                  | 30                          | ½                  | No                | Yes                 | 1.2                 | 0.008                  | 94                                 | No                           | No                   | 12                   | No                              | No                               | No                    | 0                  | 0                       | Yes              | No            | 669.00    | As above.   |
|                       | ME 30  | 1                  | 30                          | ½                  | No                | Yes                 | 1.2                 | 0.009                  | 92                                 | No                           | No                   | 12/6                 | No                              | No                               | No                    | 0                  | 0                       | Yes              | No            | 389.00    | As above.   |
|                       | ME 15  | 2                  | 15                          | ¾                  | No                | Yes                 | 1.2                 | 0.009                  | 92                                 | No                           | No                   | 12/6                 | No                              | No                               | No                    | 0                  | 0                       | Yes              | No            | 399.00    | As above.   |
|                       | PE 17  | 1                  | 5                           | .03-2.0            | No                | Yes                 | 1.2                 | 0.005                  | 98                                 | Yes                          | Yes                  | +12, -15, +15, -20   | No                              | No                               | No                    | 0                  | 0                       | Yes              | No            | 499.00    | Parametric.   |
| FPE 13                | 1  | 3                  | .03-2.0                     | No                 | Yes               | 1.2                 | 0.015               | 92                     | Yes                                | Yes                          |                      | No                   | No                              | No                               | 0                     | 0                  | Yes                     | No               | 299.00        | As above. |   |
| RESONANCE             | Active Bass Circuit 1.0                                | 3                  | 1                           |                    | No                |                     | 4                   | 0.005                  | 87                                 | Sel.                         | No                   | 12                   | No                              | No                               | No                    | 0                  | 0                       | Yes              | No            | 349.00    | Parametric; center frequency (20 to 60 Hz), selectable via modules, shifts upward slightly at high signal levels; includes subwoofer crossover and limiter; balanced and unbalanced inputs and outputs (see also "Signal Processors" and "Crossovers"). |
| SESCOM                | R/S PA   | 1                  | 3                           | Var.               | Yes               | Yes                 |                     | 0.1                    | 80                                 | Yes                          | Yes                  | 12                   | No                              | No                               | No                    | 0                  | 0                       | No               | No            | 200.00    | Parametric; balanced inputs and outputs; unbalanced cable assembly available; half-rack size; kit, \$135.00.  |
|                       | PO-16  | 1                  | 1                           |                    | No                | No                  | 6                   | 0.1                    | 80                                 | Yes                          | No                   | 15                   | No                              | No                               | No                    | 0                  | 0                       | No               | No            | 91.50     | Parametric; requires PO-1 power supply.   |
|                       | PO-40  | 1                  | 5                           |                    | No                | No                  | 6                   | 0.1                    | 80                                 | No                           | No                   | 6                    | No                              | No                               | No                    | 0                  | 0                       | No               | No            | 104.00    | Requires PO-1 power supply.   |
| SONY                  | SEQ-711(RI)  | 2                  | 7                           |                    |                   |                     |                     |                        |                                    |                              |                      |                      |                                 |                                  |                       | 10                 |                         |                  | No            | 240.00    |   |
| SPL                   | Classic Vitalizer                                      | 2                  | 2                           |                    | No                | No                  |                     | 0.002                  | 82                                 | No                           | Yes                  |                      | No                              | No                               | No                    | 0                  | 0                       | †                | No            |           | †Variable subsonic filter.  |
|                       | Stereo Vitalizer                                       | 2                  | 2                           |                    | No                | No                  |                     | 0.002                  | 82                                 | No                           | Yes                  |                      | No                              | No                               | No                    | 0                  | 0                       | †                | No            |           | Parametric.   |
|                       | Optimizer  | 4                  | 4                           |                    | No                | No                  |                     | 0.007                  | 96                                 | No                           | Yes                  | 12                   | No                              | No                               | No                    | 0                  | 0                       | †                | No            |           |   |
| SYMETRIX              | SX201  | 1                  | 3                           | .05-3.0            | No                | Yes                 | 6                   | 0.025                  |                                    | Yes                          | Yes                  | +15, -30             | No                              | No                               | No                    | 0                  | No                      | No               | No            | 279.00    | Balanced inputs and outputs.  |
| TEAC                  | EQA-220  | 2                  | 10                          | ½                  | Yes               | No                  |                     | 0.01                   | 90                                 | No                           | No                   | 12                   | Yes                             | No                               | No                    | 0                  | 1                       | No               | No            | 139.00    | Line/tape input select; source/tape monitor.  |
|                       | EQA-110  | 2                  | 10                          | ½                  | No                | No                  |                     | 0.01                   | 90                                 | No                           | No                   | 12                   | No                              | No                               | No                    | 0                  | 1                       | No               | No            | 99.00     | Line/tape input select.   |
| TECHNICS              | SH-GE70  | 2                  | 7                           |                    |                   |                     | 1                   | 0.03                   | 105                                |                              |                      |                      | Yes                             |                                  |                       | 12                 | 1                       |                  | No            | 199.95    |   |
|                       | SH-8038  | 2                  | 7                           |                    |                   |                     | 1                   | 0.01                   | 110                                |                              |                      |                      | No                              |                                  |                       |                    | 1                       |                  | No            | 129.95    |   |
|                       | SH-8017  | 2                  | 7                           |                    |                   |                     | 1                   |                        | 110                                |                              |                      |                      | No                              |                                  |                       |                    | 1                       |                  | No            | 109.95    |   |
| YAMAHA                | EQ-70  | 2                  | 10                          | 1                  | Yes               | Yes                 | 5.4                 | 0.005                  | 105                                | No                           | No                   | 12                   | No                              | No                               | No                    | 0                  | 1                       | No               | No            | 199.00    |   |
|                       | EQ-550   | 2                  | 10                          |                    | Yes               | Yes                 | 1                   |                        | 105                                | No                           | No                   | 12                   | Yes                             | P                                | Yes                   | 0                  | 1                       | Yes              | No            | 399.00    |   |

# Nice Rear.



**CD, Tuner, 2 Audio Tape Loops, 2 VCR Tape Loops, Laser Disc, Video Inputs, Sub woofer crossover, 6 Channels of output with individual adjustment. What a rear! Take a look at the rest..**



Designed from the REAR to the front, our product team considered every simple and complex hook up needed for a serious Dolby Pro Logic pre-amplifier. Actually we designed it for ourselves, the most critical component necessary to put together a great Home Theater. Then we designed a remote control, so simple, that even your parents could use it. We took a look at those super theater systems and built in some of the same professional features like Sound Pressure Level (SPL) matching.

We added specifically-designed amplifiers and a powered sub woofer, small yet powerful enough to rattle your windows. Together these components are called System 2. We think our 25 years of passion and experience paid off.

**Here are a few serious design reasons why our System 2 should be your Home Theater choice..**

1. System Building Flexibility so unusual it guarantees your long term entertainment needs are met no matter how many components you buy.
2. Exceptional Audiophile Circuits offering high resolution (clear sound) with a dynamic range of greater than 115 dB (Enough to play the 1812 Overture loud)
3. Dolby Time Link Technology recently patented plus newly developed micro processors for steering sound effects to your speakers.

4. Dynamic Range Greater Than 100dB in Pro Logic combined with our Dolby circuit's super low distortion (listen to the center channel speaker) the dynamics are immediately felt.

5. Distributed Power using two audiophile quality amplifiers delivering 270 watts across your three front speakers with 45 watts for each surround speakers.

6. Low Distortion Bass delivered by our powered sub woofer using our unique Negative Output Impedance Amplifier circuit produces clean bass response down to 30Hz @ 102 dB.

7. Matching Sound Pressure Level Exactly for all six speakers is practically automatic using our external microphone and built-in SPL meter.

There's so much more to cover why not go down to your nearest AMC Dealer and bring your favorite movie or give us a call direct, at 1-800-321-6396. Find out for yourself what our System 2 is all about and

**...check out our rear.**



**System 2**

## AMC™



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Enter No. 120 on Reader Service Card

# AMBIENCE & SURROUND SOUND PROCESSORS

| MATRIX CODE<br>A—Ambisonics<br>D—Dolby Surround<br>DP—Dolby Pro Logic<br>THX—THX Certified<br>DM—Dynaco Matrix<br>SQ—SQ<br>O—Other | MANUFACTURER            | Model<br>(RI) = Remote Included,<br>(RO) = Remote Optional | Matrix—See Code | UNIT TYPE                                   |  |  | DELAY FUNCTIONS |                                 |  | THD, %                       | S/N Ratio, "A" Wid., dB | Channel Separation, dB | Stereo Simulation? | Number of Tape Monitors | Video Inputs? | Price, \$ | Notes   |   |
|--|-------------------------|--|-----------------|---|--|--|-----------------|---------------------------------|--|------------------------------|-------------------------|------------------------|--------------------|-------------------------|---------------|-----------|---|---|
|  |                         |  |                 | Time Manipulation:<br>Delay = D, Reverb = R | Other Manipulation Techniques:<br>Frequency Shaping = F, Comp Filter = C,<br>Phase Manipulation = P, Other = O | Number and Use of Outputs—<br>See Code | Delay Time, ms  | Number of Hall/Room Simulations | Hall/Room Adjustments, Volume = V,<br>Stage (Height/Width Ratio) = S |                              |                         |                        |                    |                         |               |           |   | Continuous Amp Power, Watts per Channel   |
|  | ACURUS                  | ACT 1  | DP              | D   |  | 3F, 2B, SW                             | 5-40            | 3                               |  |                              |                         |                        | No                 | 1                       | Yes           | 899.00    |   |   |
|  | ADCOM                   | GSP-560(RI)  | DP/O            | D/R   | F/P/O  | 3F, 2B, SW                             | 40-15           | 3                               |  | 80 x 1,<br>40 x 2            | 0.09                    | 100                    | Yes                | 1                       | No            | 600.00    |   |   |
|  |                         | GTP-550(RI)  | DP/O            | D/R   | F/P/O  | 3F, 2B, SW                             | 15-100          | 3                               |  |                              | 0.005                   | 95                     | Yes                | 4                       | Yes           | 800.00    | A/V tuner/preamp (see also "Tuners" and "Preamps").   |   |
|  |                         | GTP-600(RI)  | DP/O            | D/R   | F/P/O  | 3F, 2B, SW                             | 15-100          | 3                               |  |                              | 0.005                   | 95                     | Yes                | 4                       | Yes           | 1000.00   | As above; S-video and composite-video inputs.   |   |
|  | AMC                     | Pro 7  | DP              | D   | O  | 3F, 2B, SW                             |                 |                                 |  |                              |                         |                        |                    |                         |               |           |   |   |
|  | ARCAM                   | Theta One(RI)  | DP/O            |   |  | †                                      |                 | 1                               |  | 50 x 2,<br>25 x 3            |                         |                        | No                 | 2                       | 4             | 1900.00   | Dolby 3 Stereo; S-video and composite-video in and out. †Line, 3F, 2S, and SW; speaker, 3F and 2S.  |   |
|  | AUDIO DESIGN ASSOCIATES | SSD-66   | DP              | D   |  | 3F, 2B, SW                             | 0-40            |                                 |  |                              | 0.03                    | 35                     | Yes                |                         |               | 1799.00   |   |   |
|  |                         | SSD-66THX  | DP/THX          | D   |  | 3F, 2B, SW                             | 0-97.5          | 6                               |  |                              | 0.003                   | 35                     | Yes                |                         |               | 2999.00   |   |   |
|  | AUDIOFILE HOME THEATER  | MTVS-1(RI)   | DP              | D   |  | 3B, SW                                 | 30-50           | 4                               | V  | 30 x 3                       | 0.5                     | 90                     | Yes                | 1                       | Yes           | 229.99    |   |   |
|  | AUDIOSOURCE             | SS-Three Series II(RI)                                     | DP              | D   | C/P  | 3F, 2B, SW                             | 20 or 30        | 2                               |  | 30 x 2                       |                         | 90                     | 54                 | Yes                     | 1             | No        | 349.95  | With AudioSource VS-One center-channel speaker, LS Ten/A surround speakers, and cable, \$479.95 (SS-3001 System).   |
|  |                         | SS-Four(RI)  | DP              | D   | C/P  | 3F, 2B, SW                             | 30 or 50        | 2                               |  | 24 x 2                       |                         | 90                     | 54                 | Yes                     | 1             | No        | 299.95  | As above but \$429.95 (SS-4001 System).   |
|  | BANG & OLUFSEN          | AV-7000  | DP              |   | O  | 3F, 2B, SW                             | 20.4            |                                 |  | †                            | 0.2                     |                        | No                 |                         | Yes           | 1999.00   | †Center, 45 watts. Operated by B & O Beolink 1000 audio system remote; allows cable converter and video equipment to be controlled by Beolink 1000. |   |
|  | B & K COMPONENTS        | AVP1000(RI)  | DP              | D   |  | 3F, 2B, SW                             | 1-130           | 8                               | V  |                              | 0.02                    | 89                     | 70                 | No                      | 2             | 4         | 998.00  | A/V tuner/preamp (see also "Tuners" and "Preamps"); balanced outputs.   |
|  |                         | AVP2000(RI)  | DP              | D   |  | 3F, 2B, SW                             | 1-130           | 8                               | V  |                              | 0.02                    | 89                     | 70                 | No                      | 2             | 7         | 998.00  | Two-zone A/V preamp (see also "Preamps"); balanced outputs.   |
|  |                         | AVP3000(RI)  | DP/O            | D   |  | 3F, 2B, SW                             | 1-130           | 8                               | V  |                              | 0.02                    | 89                     | 70                 | Yes                     | 2             | 7         | 1498.00   | As above; cinema surround.  |
|  | CARVER                  | C-20V(RI)  | D/DP/O          | D/R   | F/C/P/O  | 3F, 2B                                 | 0-90            | 2                               | S  |                              | 0.01                    | 80                     | 75                 | Yes                     | 4             | Yes       | 1000.00   | A/V preamp (see also "Preamps"); DSP; on-screen TV display.   |
|  |                         | C-15V(RI)  | D/DP/O          | D/R   | F/C/P/O  | 3F, 2B, SW                             | 0-90            | 2                               | S  |                              | 0.01                    | 85                     | 75                 | Yes                     | 4             | Yes       | 800.00  | A/V multi-room preamp (see also "Preamps"); DSP; center-channel gain control.   |
|  |                         | CT-27V(RI)   | D/DP/O          | D/R   | F/C/P/O  | 3F, 2B, SW                             | 0-90            | 2                               | S  |                              | 0.01                    | 85                     | 75                 | Yes                     | 4             | Yes       | 850.00  | A/V tuner/preamp (see also "Tuners" and "Preamps"); DSP; center-channel gain control.   |
|  |                         | CT-29V(RI)   | D/DP/O          | D/R   | F/C/P/O  | 3F, 2B, SW                             | 0-90            | 2                               | S  |                              | 0.01                    | 85                     | 75                 | Yes                     | 4             | Yes       | 1200.00   | As above, multi-room, on-screen TV display.   |
|  |                         | CMV-1185 (RI)  | D/DP/O          | D/R   | F/C/P/O  | 3F, 2B, SW                             | 0-90            | 1                               | S  | 80 x 2,<br>90 x 1,<br>35 x 2 | 0.01                    | 85                     | 50                 | Yes                     | 2             | Yes       | 850.00  | A/V amp (see also "Amps"); center-channel gain control.   |
|  |                         | DPL-20(RI)   | D/DP/O          | D   | P/O  | 3F, 2B, SW                             | 20 or 30        | 2                               |  |                              | 0.5                     | 80                     | 30                 | Yes                     | 1             | No        | 300.00  |   |
|  | CHASE TECHNOLOGIES      | HTS-1  | O               |   |  | 3F, 2B                                 |                 |                                 |  |                              |                         | 50                     | No                 |                         |               | 99.95     | Passive surround matrix; center-channel line output; surround line and speaker outputs.   |   |
|  | COGENT RESEARCH         | PN1  | O               | No  | No   | 4F                                     |                 | 0                               |  |                              | 0.001                   | 112                    | No                 | 0                       | No            | 990.00    | Simultaneous Polyphonic Isolator, separates stereo into four front channels to re-create soundstage and ambience.                                   |   |
|  |                         | PN2  | O               | No  | No   | 4F                                     |                 | 0                               |  |                              | 0.002                   | 106                    | No                 | 0                       | No            | 750.00    | As above.   |   |
|  |                         | PN4  | O               | No  | No   | 4F                                     |                 | 0                               |  |                              | 0.002                   | 104                    | No                 | 0                       | No            | 399.00    | As above.   |   |
|  |                         | PN3  | O               | No  | No   | 3F                                     |                 | 0                               |  |                              | 0.002                   | 103                    | No                 | 0                       | No            | 299.00    | As above but three front channels with dual center-channel output.  |   |
|  | COUNTERPOINT            | HC-808(RI)   | DP              | D   | F/P/O  | 3F, 2B, 2SW                            | 20-50           |                                 |  |                              | 0.01                    | 90                     | 60                 | Yes                     | 1             | No        | 1295.00   | Motor-driven pots.  |
|  | DENON                   | AVR-800(RI)  | DP/O            | D   |  | 3F, 2B                                 | 15-30           | 2                               |  | 60 x 3,<br>15 x 2            |                         |                        | No                 | 1                       | Yes           | 500.00    | A/V receiver (see also "Receivers").  |   |
|  |                         | AVR-1000 (RI)  | DP/O            | D/R   |  | 3F, 2B                                 | 6-30            | 6                               |  | 70 x 3,<br>20 x 2            | 0.08,<br>0.1            |                        | No                 | 2                       | Yes           | 700.00    | As above. DSP for surround and ambience modes; adjustable parameters.   |   |
|  |                         | AVR-3000 (RI)  | DP/O            | D/R   | F/P  | 3F, 2B                                 | 0-150           | 9                               | V  | 110 x 3,<br>35 x 2           | 0.03,<br>0.05           |                        | No                 | 2                       | Yes           | 1400.00   | As above, two remotes.  |   |
|  |                         | AVR-1500 (RI)  | DP/O            | D/R   | F/P  | 3F, 2B                                 | 0-50            | 9                               | V  | 70 x 3,<br>20 x 2            | 0.08                    | 92                     |                    | No                      | 2             | Yes       | 750.00  | A/V receiver with RDS (see also "Receivers").   |
|  |                         | AVR-2500 (RI)  | DP/O            | D/R   | F/P  | 3F, 2B                                 | 0-50            | 9                               | V/S  | 80 x 3,<br>25 x 2            | 0.05                    | 92                     |                    | No                      | 2             | Yes       | 1000.00   | As above, on-screen TV display.   |
|  |                         | AVC-3030 (RI)  | DP/O            | D/R   | F/P  | 3F, 2B                                 | 0-150           | 9                               | V  | 110 x 3,<br>35 x 2           | 0.03,<br>0.05           |                        |                    |                         |               |           | 1350.00   | A/V amp (see also "Amps"); DSP for surround and ambience modes; adjustable parameters; on-screen TV display; two remotes.                                       |
|  |                         | AVP-5000 (RI)  | DP/O            | D/R   | F/P  | 3F, 2B, SW                             | 0-150           | 6                               | †  |                              | 0.005                   | 105                    |                    | No                      | 4             | Yes       | 2500.00   | Digital processing preamp (see also "Preamps") with two DSP units, two A/D converters, and six D/A converters; parametric EQ. †Volume and liveness adjustments. |
|  | DYNACO                  | QD-1/1IL   | DM              |   |  | 3F, 2B                                 |                 |                                 |  |                              |                         |                        |                    |                         |               | 89.95     | Passive unit; no additional amps required; with double banana jacks, QD-2, \$140.00.  |   |
|  | ELITE                   | SP-91D   | D/DP            | D   | F/P  | 3F, 2B, 2S, SW                         | 1-50            | 8                               | V/S  |                              |                         | 95                     | Yes                |                         | No            | 1000.00   | 18-bit D/A conversion.  |   |
|  | FOSGATE-AUDIONICS       | Three-A  | DP/THX/O        | D   | O  | 3F, 2B, 2S, 4SW                        | 15-70           |                                 |  |                              | 0.05                    | 100                    | 45                 | Yes                     | 1             | Yes       | 2799.00   | A/V preamp (see also "Preamps").  |
|  |                         | Four   | DP/O            | D   | O  | 3F, 2B, SW                             | 15-45           |                                 |  |                              | 0.05                    | 100                    | 45                 | Yes                     | 1             | Yes       | 999.00  | As above.   |
|  |                         | Five   | DP/O            | D   | O  | 3F, 2B, SW                             | 15-45           |                                 |  |                              | 0.05                    | 100                    | 45                 | Yes                     | 1             | No        | 599.00  |   |

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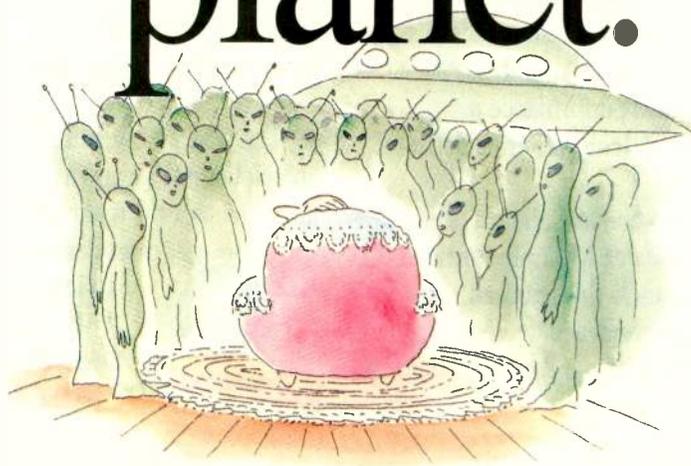
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# AMBIENCE & SURROUND SOUND PROCESSORS

| MANUFACTURER             | Model (R) = Remote Included, (RO) = Remote Optional | Matrix—See Code | UNIT TYPE                                |   |                                    |                | DELAY FUNCTIONS                 |   |                                |       | Continuous Amp Power, Watts per Channel | THD, %  | S/N Ratio, "A" Wtd., dB | Channel Separation, dB | Stereo Simulation? | Number of Tape Monitors   | Video Inputs?  | Price, \$ | Notes |
|--------------------------|---|-----------------|--|---|------------------------------------|----------------|---------------------------------|---|--------------------------------|-------|---|---------|-------------------------|------------------------|--------------------|---|--|-----------|-------|
|                          |   |                 | Time Manipulation: Delay = D, Reverb = R | Other Manipulation Techniques: Frequency Shaping = F, Comp. Filter = C, Phase Manipulation = P, Other = O | Number and Use of Outputs—See Code | Delay Time, ms | Number of Hall/Room Simulations | Hall/Room Adjustments: Volume = V, Shape (Height/Width Ratio) = S |                                |       |   |         |                         |                        |                    |   |  |           |       |
| HARMAN KARDON            | AVP-1A(RI)  | DP/THX/DM/O     | D/R                                      | F/C/P/O   | 3F, 2B, 2S, 4SW                    | 15-45          | 9                               | V/S   |                                | 0.05  | 95                                      | 50      | Yes                     | 1                      | 6                  | 2799.00   | Digital servo logic.   |           |       |
|                          | AVP-2(RI)   | DP/DM/O         | D/R                                      | F/C/P/O   | 3F, 2B, SW                         | 15-45          | 7                               | V/S   |                                | 0.05  | 90                                      | 50      | Yes                     | 1                      | 6                  | 1049.00   | As above.  |           |       |
|                          | AVR25   | DP              | D  |   | 3F, 2B                             | 15-30          | 1                               |   | 50 x 3, 25 x 2                 | 0.09  | 92                                      | 40      | Yes                     | 3                      | 3                  | 529.00  |  |           |       |
|                          | AVR30(RI)   | DP/O            | D  | F/O   | 3F, 2B, 2SW                        | 15-30          | 20                              | V   | 65 x 3, 25 x 2, 50 x 3, 20 x 2 | 0.09  | 98                                      | 40      | Yes                     | 4                      | 6                  | 1149.00   | On-screen TV display.  |           |       |
| JBL                      | The Director  | DP              |  |   | 3F, 2B                             | 20             |                                 |   | †                              | 0.1   | 85                                      |         |                         |                        |                    | 299.00  | †Center, 25 watts; rear, 25 watts x 2. Preamp out for all channels.  |           |       |
| JVC                      | XPA1010(RI)   | O               | D/R                                      | F/O   | 4F, 2B                             | 0-200          | 20                              | V/S   |                                | 0.002 | 110                                     |         | No                      | 1                      | No                 | 1200.00   | Compensation for listening room size and reverb, and source reverb.  |           |       |
|                          | SUA400(RI)  | D/O             | D  | F/P   | 2F, 2B                             | 15-30          | 2                               |   | 10 x 2                         | 0.5   | 85                                      |         | Yes                     | 1                      | No                 | 305.00  |  |           |       |
| KINERGETICS RESEARCH     | KSP-2(RI)   | DP/THX          | D  | O   | 3F, 2B, SW                         | 10-30          | 0                               |   |                                | 0.01  | †                                       |         | Yes                     | 0                      | No                 | 4500.00   | †90 dB in THX. External power supply; upgradable remote.   |           |       |
| LEXICON                  | CP-1 Plus(RI)                                       | D/DP/O          | D/R                                      | F/P/O   | 3F, 2B, 2S, SW                     | †              | 27                              | V/S   |                                | 0.05  | 85                                      | 40 Min. | Yes                     | 1                      | No                 | 1595.00   | †0 mS to 14 S. Auto azimuth; true digital Pro Logic.   |           |       |
|                          | CP-2(RI)  | D/DP/O          | D  | F/P/O   | 3F, 2B, SW                         | 16-32          |                                 |   |                                | 0.05  | 85                                      | 40 Min. | Yes                     | 0                      | No                 | 995.00  | As above.  |           |       |
|                          | CP-3 Plus(RI)                                       | D/DP/THX/O      | D/R                                      | F/P/O   | 3F, 2B, 2S, SW                     | †              | 9                               | V/S   |                                | 0.025 | 90                                      | 40 Min. | Yes                     | 1                      | Yes                | 3200.00   | As above; A/V preamp (see also "Preamps"); stereo surround; on-screen TV display; two remotes.   |           |       |
| LIRPA LABS               | U8-IT2  | D/O/B D/O/B D/O | D†                                       | O   | 3F, 2F, 2B, 3B, 16SW               | †              | ††                              |   | Var.                           | 50.3  | 2.5                                     | ½       | Var.                    | ½                      | Not                | 730.94  | †15 mins. inbound, 20 outbound (75 on L.I.E.). ††Presets include "Concert Hall, Coughs" and "Jazz Club, Drunks at Bar." Optional Nearly Almost Virtual Reality system, \$4.99. |           |       |
| MARANTZ                  | AV-600THX   | DP/THX          | D  |   | 3F, 2S, 2SW                        | 10-99          | 4                               |   |                                |       |   |         | Yes                     | 1                      | Yes                | 1099.00   | A/V preamp with AM/FM tuner.   |           |       |
|                          | EC-500  | DP              | D  |   | 3F, 2S                             | 10-30          | 3                               |   |                                |       |   |         | Yes                     | 1                      | Yes                | 1099.00   | As above; includes CD player.  |           |       |
|                          | AV-500  | DP              | D  |   | 3F, 2S                             | 10-90          | 4                               |   |                                |       |   |         | Yes                     | 1                      | Yes                | 699.00  | A/V preamp; color picture-in-picture.  |           |       |
| MERIDIAN                 | 565   | A/D/DP/THX/SQ/O | D  | F/C/P/O   | †                                  | ††             | V/S                             |   | 0.0001                         | 104   | 90                                      | Yes     | 0                       | Yes                    | 3600.00            | †16 user-configured outputs (eight analog, eight digital). ††0 mS to 1 S. On-screen TV display; 12-character alphanumeric display; DSP. |  |           |       |
| MORDAUNT-SHORT           | Decoder One   | DP              | D  |   | 3F, 2B, SW                         | 16             |                                 |   | †                              |       | 80                                      | 35      | Yes                     | 1                      | No                 | 549.00  | †Center, 30 watts; rear, 30 watts x 2. Alphanumeric display.   |           |       |
| NAD                      | 910(RI)   | DP/O            | D  |   | 3F, 2B, SW                         | 20-30          | 3                               |   |                                | 0.03  |   | 25      |                         | 2                      | 3                  | 599.00  |  |           |       |
|                          | 917(RI)   | DP/O            | D  |   | 3F, 2B, SW                         | 20-30          | 3                               |   |                                | 0.03  | 86                                      | 25      |                         | 2                      | 3                  | 799.00  | A/V preamp; AM/FM tuner with 40 presets; on-screen TV display; remote governs other NAD units.   |           |       |
| ONKYO                    | ES600PRO (RI)                                       | DP/O            | D  |   | 2B                                 | 20             | 2                               |   |                                | 0.9   | 79                                      |         | No                      | No                     |                    | 410.00  |  |           |       |
| PARAMOUNT PICTURES       | DPL-2(RI)   | DP              | D  |   | 3F, 2B, SW                         | 15-30          | 0                               |   |                                | 0.25  | 80                                      | 65      | Yes                     | 0                      | No                 | 259.95  |  |           |       |
|                          | DPL-3(RI)   | DP              | D  |   | 3F, 2B, SW                         | 15-30          | 0                               |   | †                              | 0.25  | 80                                      | 65      | Yes                     | 0                      | No                 | 329.95  | †Center, 25 watts; rear, 12.5 watts x 2.   |           |       |
| PARASOUND                | P/SP-1000 (RI)                                      | DP              | D  |   | 3F, 2B, SW                         | 15-30          | 4                               |   |                                | 0.005 | 105                                     | 60      | No                      | 2                      | 3                  | 750.00  | S-video inputs and outputs; auto and manual bypass.  |           |       |
|                          | P/SP-2000 (RI)                                      | DP/THX          | D  |   | 3F, 2B, SW                         | 15-30          | 5                               |   |                                | 0.005 | 105                                     | 60      | No                      | 2                      | 3                  | 1150.00   | As above.  |           |       |
| PROCEED                  | PAV(RI)   | DP/THX          | D  | F/P/O   | 3F, 2B, SW                         | 15-30          | 0                               |   |                                | 0.03  | 80                                      |         | Yes                     | 4                      | 4                  | 4195.00   | Multi-zone A/V preamp (see also "Preamps"); on-screen programming.   |           |       |
| PROTON                   | SD-1000(RI)   | O               |  | F/P   | 3F, 3B, SW                         |                |                                 | V   |                                | 0.008 | 100                                     | 58      | No                      | 1                      | No                 | 600.00  | Enhanced logic; four- to seven-channel surround.   |           |       |
| ROTEL                    | RSP-960AX   | DP              | D  |   | 3F, 2S, SW                         | 20 or 30       | 3                               | V   |                                | 0.025 | 125                                     | 35      | Yes                     | 1                      | 2                  | 599.90  | Adjustable subwoofer crossover frequency and level.  |           |       |
| SOUNDSTREAM TECHNOLOGIES | C 2THX(RI)  | DP/THX/DM/O     | D/R                                      | F/C/P/O   | 3F, 2B, 2S, 4SW                    | 15-30          | 9                               | V/S   |                                | 0.05  | 95                                      | 40      | Yes                     | 1                      | 6                  | 2795.00   | A/V preamp (see also "Preamps"); two S-video inputs.   |           |       |
| SRS LABS                 | AK-100 Retriever                                    | O               |  | †   | 2F                                 |                |                                 |   |                                |       |   |         | Yes                     |                        |                    | 299.00  | †Sound Retrieval System.   |           |       |
| SSI SURROUND SOUND       | System 3000 (RI)                                    | DP              | D  |   | 3F, 2B, SW                         | 15-30          | 3                               |   | 25 x 2                         | 0.25  | 80                                      | 65      | No                      | No                     |                    | 249.00  |  |           |       |
|                          | System 3200 (RI)                                    | DP              | D  |   | 3F, 2B, SW                         | 15-30          | 3                               |   | 25 x 2                         | 0.25  | 80                                      | 65      | No                      | No                     |                    | 299.00  |  |           |       |
|                          | System 4000II(RI)                                   | D/O             | D  |   | 3F, 4B, SW                         | 10-30          | 3                               |   | 45 x 2                         | 0.25  | 80                                      | 85      | No                      | 1                      | 4                  | 499.00  |  |           |       |
|                          | System 5000   | DP              | D  |   | 3F, 2B, SW                         | 5-40           | 3                               |   | 50 x 2                         | 0.25  | 80                                      | 65      | No                      | 1                      | Yes                | 449.00  | A/V preamp with multi-media input/output port (see also "Preamps"); S-video inputs.  |           |       |
| TECHNICS                 | SH-GE90   | O               |  |   |                                    |                | 6                               |   |                                | 0.08  | 86                                      |         |                         |                        |                    | 349.95  | Digital sound processor with parametric EQ, six additional "sound" presets, two mike inputs; karaoke/voice mute; spectrum analyzer.  |           |       |
| YAMAHA                   | DSP-A2070 (RI)                                      | DP/O            | D/R                                      | F/O   | 5F, 2B, 2SW                        | 1-49           | 24                              | V   | 80 x 3, 25 x 4                 | 0.015 | 96                                      | 60      | Yes                     | 1                      | Yes                | 1999.00   | Digital sound-field processing.  |           |       |
|                          | DSP-A970 (RI)                                       | DP/O            | D/R                                      | F/O   | 5F, 2B, SW                         | 1-49           | 23                              | V   | 65 x 3, 22 x 4                 | 0.015 | 96                                      | 60      | Yes                     | †                      | Yes                | 1299.00   | As above. †Selectable record out.  |           |       |
|                          | DSP-A780 (RI)                                       | DP/O            | D/R                                      | F/O   | 3F, 2B, SW                         | 1-49           | 16                              | V   | 65 x 3, 25 x 2                 | 0.015 | 96                                      | 60      | Yes                     | †                      | 3                  | 899.00  | As above.  |           |       |
|                          | DSP-E1000 (RI)                                      | DP/O            | D/R                                      | O   | 5F, 2B, SW                         | 1-49           | 23                              | V/S   | 80 x 1, 25 x 4                 | 0.015 | 96                                      | 65      | Yes                     | 1                      | 1                  | 999.00  | As above.  |           |       |
|                          | DSP-E580(RI)  | DP/O            | D/R                                      | O   | 3F, 2B, SW                         | 1-49           | 16                              | V   | 25 x 3                         | 0.03  | 98                                      | 65      | Yes                     | 1                      | 1                  | 699.00  | As above.  |           |       |

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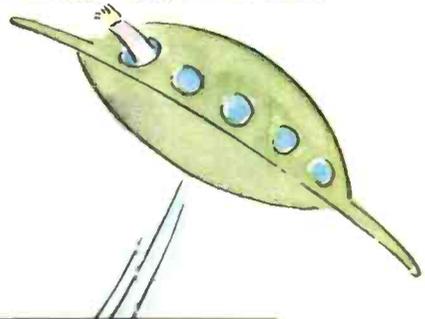
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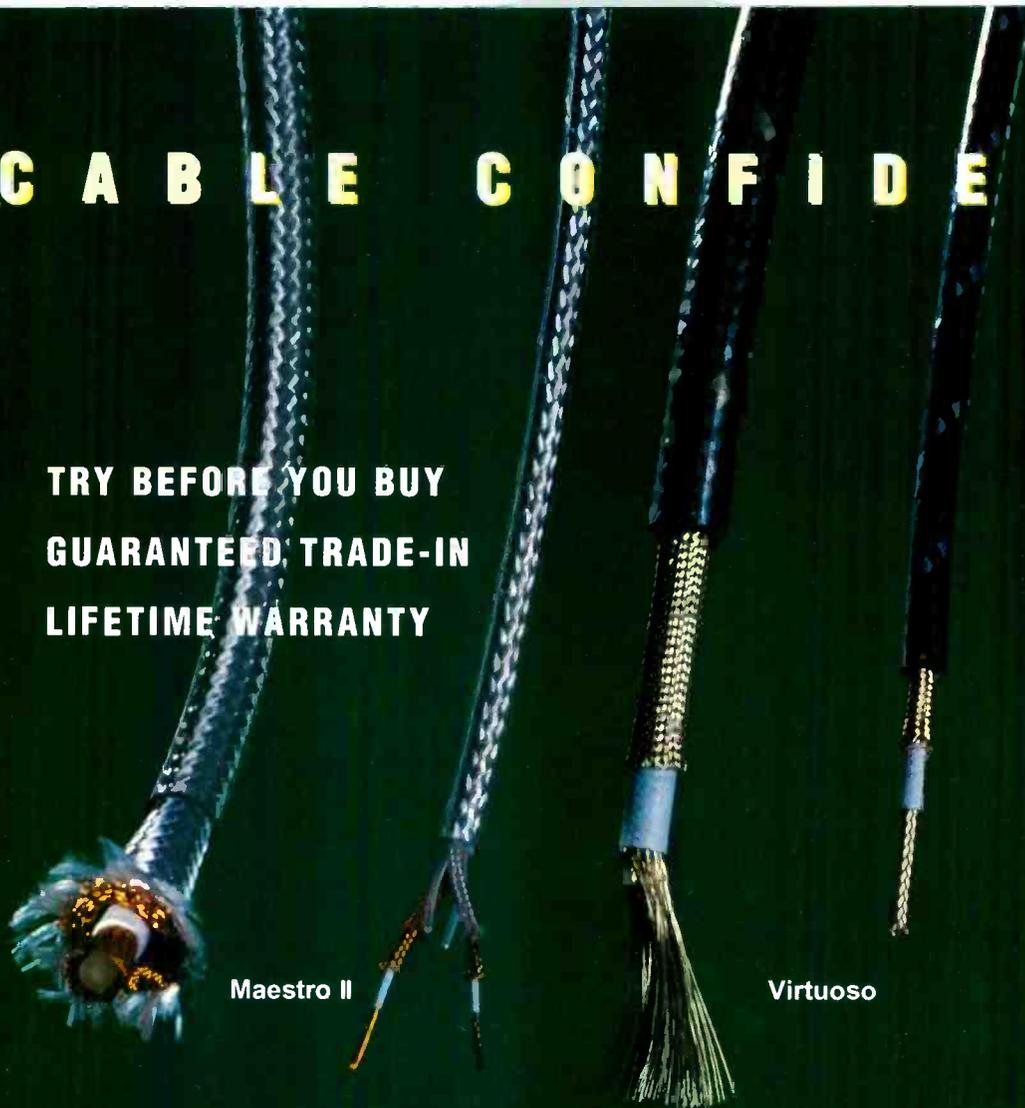
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# SIGNAL PROCESSORS

| MANUFACTURER           | Model (RI) = Remote Included, (RO) = Remote Optional | Type of Processing                   | Function: Closed Loop = C, Open Loop = O, Transient = T | Application: Tape Recording = R, Phono = P, FM = F, Universal = U | Simultaneous Encode/Decode? | Degree of Noise Reduction, dB @ Hz | Record = R, Play = P, Both = RP | THD, % | Frequency Response, Hz to kHz, ±dB | Price, \$     | Notes   |   |
|------------------------|--|--------------------------------------|---|---|-----------------------------|------------------------------------|---------------------------------|--------|------------------------------------|---------------|---|---|
| AUDIOCONTROL           | Phase Coupled Activator Series II                    | Proprietary Digital Bass Restoration | O   | U   | No                          |                                    | RP                              | 0.005  | 25-20 ±0.5                         | 299.00        | Speaker and line-level inputs (see also "Crossovers").  |   |
| BROOKLINE TECHNOLOGIES | VS201 Volume Stabilizer                              | Compressor/Limiter                   | O   | U   |                             |                                    | RP                              | 0.15   | 20-20 ±3                           | 119.50        | Increases low-level signals; 2:1 and 10:1 compression; external power supply. Increases low-level signals; threshold, -50 to +10 dBm; external power supply; with headphone jack and variable-level outputs, VS311, \$179.50.   |   |
|                        | VS301 Volume Stabilizer                              | Compressor/Limiter                   | O   | U   |                             |                                    | RP                              | 0.1    | 20-20 +0,-3                        | 149.50        |   |   |
| DB SYSTEMS             | DB-7   | Polarity Inverter/Subsonic Filter    | O   | U   |                             |                                    | RP                              | 0.003  | 20-20 +0,-0.2                      | 205.00        | Requires DB-2A power supply, \$125.00.  |   |
| DGX AUDIO              | DOA-1  | Phase Correcting Deconvolution       | O   | R/F   | No                          |                                    | P                               | 0.01   | 20-20 ±0.1                         | 2995.00       | Processor/amp with D/A conversion for loudspeaker correction (see also "Amps"); includes two DDL-1 speakers. As above but processor/preamp without speakers (see also "Preamps").   |   |
|                        | ODP-1  | Phase Correcting Deconvolution       | O   | R/F   | Yes                         |                                    | P                               | 0.01   | 20-20 ±0.1                         | 995.00        |   |   |
| DIGITAL DOMAIN         | VSP/S  | †                                    |   | U   |                             |                                    | RP                              | 0.001  | 0-22.5 ±0.05                       | 1495.00       | †Sampling-rate converter and jitter-reduction device. Six digital inputs and outputs; upgradable to model below. As above but nine digital outputs; external processor loop; status-bit conversion.   |   |
|                        | VSP/P  | †                                    |   | U   |                             |                                    | RP                              | 0.001  | 0-22.5 ±0.05                       | 1995.00       |   |   |
| KAB ELECTRO-ACOUSTICS  | Souvenir-STD   | †                                    | O   | P   |                             | Varies                             | P                               | 0.07   | 30-15                              | 295.00        | †For replay of 78s, eight selectable EQs; two-speed Dynamic NR; scratch filter; right or left groove-wall select; mono with stereo bypass; MM phono only (see also "Preamps").<br>†As above plus impulse noise limiting.  |   |
|                        | Souvenir-INL   | †                                    | O   | P   |                             | Varies                             | P                               | 0.07   | 30-15                              | 395.00        |   |   |
| LT SOUND               | VE3  | †                                    | O   | U   |                             |                                    | RP                              | 0.03   | 20-20 ±1.5                         | 1285.00       | †Vocal eliminator/enhancer. Upgradable DSP software.<br>†As above with key transposer. Upgradable DSP software.<br>†Vocal processor with parametric EQ, delay/reverb, compressor, and de-esser. Upgradable DSP software. Reduces hum, tape hiss, and LP noises; upgradable DSP software. Upgradable DSP software. |   |
|                        | VE3+   | †                                    |   | U   | Yes                         |                                    | RP                              | 0.03   | 20-20 ±1.5                         | 1995.00       |   |   |
|                        | UVP  | †                                    | C/O   | U   |                             | 15 @ 3k                            | RP                              | 0.03   | 20-20 ±1.5                         | 1149.00       |   |   |
|                        | CM-1   | Single-Ended NR                      | O   | U   |                             | 20 @ 3k                            | RP                              | 0.03   | 20-20 ±1.5                         | 795.00        |   |   |
|                        | DKT+   | Key Transposer/Harmonizer            | O   | U   |                             |                                    | RP                              | 0.03   | 20-20 ±1.5                         | 995.00        |   |   |
|                        | CLX-2  | Compressor/De-Esser/Expander         | O   | U   |                             |                                    | RP                              | 0.03   | 20-20 ±0.5                         | 995.00        |   |   |
| MARANTZ                | AX-1000  | Audio Computer                       |   | U   | Yes                         |                                    |                                 |        | 20-20 ±0.1                         | 15,000.       | Digital EQ, reverb, hall ambience, compander, LP scratch eliminator, tester, and spectrum analyzer; automatic digital room-acoustic compensation.   |   |
| PACKBURN               | 323 A  | Transient, Dynamic NR                | O/T   | U   | No                          | Varies                             | RP                              | 0.05   | Sel.                               | 2650.00       | Mono/stereo; has three NR processors.   |   |
| R/AUDIO                | PS-3010  | Compressor/Limiter                   | C   | U   |                             |                                    |                                 | 0.05   | 8-20 ±1.0                          | 139.95        | Stereo or dual mono operation; balanced inputs; versions for -10 dB or +4 dB input.   |   |
| RESONANCE              | Active Bass Circuit 1.0                              | †                                    | O   | U   |                             |                                    | P                               | 0.005  |                                    | 349.00        | †Line-level subwoofer processor. Up to 16-dB compression; crossover at 100 Hz; parametric EQ; balanced and unbalanced inputs and outputs (see also "Equalizers" and "Crossovers").  |   |
| SIGTECH                | TF 1100(RO)  | Time-Field Acoustic Correction       |   | U   |                             |                                    | P                               | 0.0014 | 20-20 ±0.5                         | 6000.00       | Room measurement and calibration by dealer; analog and digital inputs and outputs; optional 20-bit converters.  |   |
| SONOGY                 | Duette   | Line Balancer                        |   |   |                             |                                    |                                 | 0.05   | 10-20 ±0.1                         | 695.00        | Converts unbalanced signals to balanced; external power supply.   |   |
| SOUND CONCEPTS         | IR2100(RI)   | Image Enhancer                       | O   | U   |                             |                                    | RP                              | 0.01   | 20-25 +0.1                         | 360.00        | includes wired remote. Kit, Model KIR-1, \$95.00. Kit, Model KVSP-1, \$90.00.   |   |
|                        | IR2200   | Image Enhancer                       | O   | U   |                             |                                    | RP                              | 0.01   | 20-20 ±0.3                         | 199.00        |   |   |
|                        | VSP-1  | Stereo Synthesizer                   | O   | U   |                             |                                    | RP                              | 0.01   | 20-20 ±0.3                         | 169.00        |   |   |
| SYMETRIX               | 421  | AGC-Leveler/Limiter                  | O   | U   |                             |                                    |                                 | 0.05   | 20-50                              | 549.00        | Balanced and unbalanced inputs and outputs. As above; stereo or dual mono operation.  |   |
|                        | 425  | Compressor/Limiter/Expander          | O   | U   |                             |                                    |                                 | 0.02   | 10-60 +0,-3                        | 579.00        |   |   |
|                        | 501  | Compressor/Limiter                   | O   | U   |                             |                                    |                                 | 0.025  | 20-20 +0,-1                        | 349.00        | Balanced and unbalanced inputs and outputs; separate limiter. Balanced and unbalanced inputs and outputs.   |   |
|                        | SX208  | Compressor                           | O   | U   |                             |                                    |                                 | 0.03   | 20-20 +0,-1                        | 299.00        |   |   |
|                        | 402  | Digital Delay                        |   |   | U                           |                                    |                                 |        | 0.015                              | 12-20 ±1.5    | 695.00  | As above; one input, two outputs; maximum delay time, 885 mS. Balanced and unbalanced inputs and outputs; four channels; sidechain filters.         |
|                        | 564E   | Expander/Noise Gate                  | O   | U   |                             |                                    |                                 | 0.03   | 20-20 +0,-1                        | 989.00        |   |   |
|                        | 602  | †                                    |   |   | U                           |                                    |                                 |        | 0.01                               | 12-20 ±1.5    | 1995.00   | †Digital dynamics processor, parametric EQ, and delay. MIDI-controlled; analog and digital inputs and outputs.                                      |
|                        | 601  | Digital Voice Processor              |   |   | U                           |                                    |                                 |        | 0.01                               | 12-20 ±1.5    | 1995.00   | Digital parametric EQ, expander, de-esser, and delay; mike preamp; MIDI-controlled; balanced analog inputs and outputs; digital inputs and outputs. |
|                        | 528E   | Voice Processor                      |   |   | U                           |                                    |                                 |        | 0.05                               | 20-20 +0,-0.5 | 699.00  | Mike preamp; de-esser; compressor; expander; parametric EQ.   |
| TADDEO                 | Digital Antidote                                     | Time-Domain Filter                   |   | †   |                             |                                    |                                 |        | 0-17                               | 169.95        | †Corrects time-domain errors in CD playback; passive.   |   |

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# CROSSOVERS

| MANUFACTURER                     | Model   | Type: Active=A, Passive=P,<br>Combined Active & Passive=C | Mono=M, Stereo=S,<br>Other=O | Number of Frequency Bands per Channel | Crossover Frequencies, Hz            | Independent High- and Low-Pass<br>Frequency Selection? | Frequency Setting:<br>Fixed=F, Switchable=S,<br>Variable=V, Plug-in Modules=P | Subwoofer Outputs:<br>Stereo=S, Mono=M,<br>Inverted for Mono Bridging=B | Level Controls: High-Pass=H,<br>Mid-Range=M, Low-Pass=L,<br>(Or Total Number of Controls) | S/N Ratio, dB         | Distortion, %                  | Nominal Input Level, V | Input Impedance, Ohms | Output Impedance, Ohms   | Price, \$                       | Notes   |
|----------------------------------|---|---|------------------------------|---------------------------------------|--------------------------------------|--|---|---|---|-----------------------|--------------------------------|------------------------|-----------------------|--------------------------|---------------------------------|---|
| ACCUPHASE                        | F-25  | A   | M/S/X                        | 2                                     | 70-800, 1k-12.5k                     | Opt.   | P   | M   | H/L   | 100                   | 0.003                          | 1                      | †                     | 50                       | 7100.00                         | †Unbalanced, 20 kilohms; balanced, 40 kilohms. Upgradable to 4-way with optional boards (\$210.00 each).  |
| ACE AUDIO                        | 6500-DSB<br>6000<br>6000-6  | A<br>A<br>C   | M/S/X<br>S<br>S              | 2<br>2<br>2                           | 30-200<br>200-15k<br>30-18k          | Yes<br>Yes<br>Yes                                      | P<br>P<br>P   | S/M<br>S/M<br>S/M   | H or L<br>H or L<br>H or L  | 90<br>90<br>90        | 0.002<br>0.002<br>0.002        | 1.0<br>1.0<br>1.0      | 100k<br>100k<br>100k  | 100<br>100<br>100        | 185.00<br>185.00<br>195.00      | Optional subsonic filter, \$25.00. As above. As above; transient-perfect filter.  |
| AMERICAN POWER AND LIGHT         | Vacuum Tube<br>Complementary<br>Solid State                       | A<br>A  | S<br>S                       | 3<br>2                                | 40-200, 800-2k<br>40-100             | Yes<br>No  | S<br>S  | S/M/B<br>S  | H/M/L<br>L  | 95<br>95              | 0.001<br>0.001                 | 0.77<br>0.77           | 55k<br>55k            | 100<br>100               | 1200.00<br>800.00               | Tube First-order.   |
| ANALOG RESEARCH                  | Custom  | A   | S                            | 2                                     | Custom                               | Yes  | F   | S   | L   | 90                    | 0.01                           |                        | 10k                   | 500                      | From 600.00                     | External power supply required.   |
| ATHENA                           | DF-10   | A   | S                            | 2                                     | 15-15k                               | No   | V   | S   | H/L   | 96                    | 0.001                          | 1.0                    | 100k                  | 560                      | 1800.00                         |   |
| AUDIO CENTRON                    | AC-X32  | A   | S                            |                                       | 20-10k                               | Yes  | V   |   | H/M/L   | 95                    | 0.001                          | 1.0                    | 10k                   | 1k                       | 365.00                          |   |
| AUDIOCONTROL                     | Richter Scale Series III<br><br>Phase Coupled Activator Series II | A<br><br>A  | S/X<br><br>S                 | 2<br><br>2                            | 20-20k<br><br>20-20k                 | No<br><br>No   | P<br><br>P  | S/M/B<br><br>S  | L<br><br>L  | 120<br><br>118        | 0.005<br><br>0.005             | 1.0<br><br>1.0         | 100k<br><br>100k      | 150<br><br>150           | 349.00<br><br>299.00            | Linkwitz-Riley alignment; ½-octave bass EQ and analyzer (see also "Equalizers"). Linkwitz-Riley alignment; 24-dB/octave slope; proprietary bass-restoration circuits; bass time alignment; subsonic filter; speaker and line-level inputs (see also "Signal Processors"). |
| AUDIO RESEARCH                   | EC-22   | A   | S                            | 2                                     | Custom                               | Yes  | P   |   | L   | 120                   | 0.01                           | 1                      | 50k                   | 250                      | 2600.00                         | Frequency and slope (6, 12, or 18 dB/octave) selected by changing circuit cards; bypass outputs; mute switch.   |
| THE A.W.S. GROUP/<br>PRO SYSTEMS | 9402<br>9415<br>9425  | P<br>P<br>P   |                              | 2<br>2<br>2                           | 2.5k<br>2.5k<br>2.5k                 | No<br>Yes<br>Yes                                       | F<br>F<br>F   |   |   |                       |                                |                        | 8<br>8<br>8           | 8<br>8<br>8              | 39.00<br>55.00<br>55.00         |   |
| BAG END                          | ELF-1<br><br>ELF-M  | A<br><br>A  | S<br><br>X                   | 2<br><br>2                            | 50-205<br><br>60-200                 | Yes<br><br>Yes   | S<br><br>P  | S<br><br>M  | H/L<br><br>L  | 110<br><br>85         | 0.005<br><br>0.005             | 0.75<br><br>0.75       | 25k<br><br>25k        | 50<br><br>100            | 2460.00<br><br>798.00           | For Bag End S10E-1, S18E-1, S18E-0, and D10E-0 and other ELF-type subwoofers; response rises 12 dB/octave as frequency goes down. As above.   |
| BRYSTON                          | 10B-SUB<br><br>10B-Standard                                       | A<br><br>A  | S<br><br>S                   | †<br><br>†                            | 40-500<br><br>70-4.5k                | Yes<br><br>Yes   | S<br><br>S  | S<br><br>S  | H<br><br>H  | 90<br><br>90          | 0.005<br><br>0.005             | 1<br><br>1             | 20k<br><br>20k        | 100<br><br>100           | 1195.00<br><br>1195.00          | †Usable as stereo 2-way or mono 3-way. Optional Linkwitz-Riley alignment. As above.   |
| CALIBRATION STANDARD INSTRUMENTS | HLE-2   | A   | S/O                          | 2                                     | 30-200                               | Yes  | S/P   | S/M/B   | 12  | 92                    | 0.02                           | 0.50                   | 10k                   | 600                      | 2490.00                         | ELF system.   |
| CURCIO AUDIO ENGINEERING         | MP-D2X0   | A   | S                            | 2                                     | 60-4k                                | Yes  | V   | S   | H/L   | 73                    | 0.008                          | 0.1                    | 100k                  | 300                      | 3000.00                         | Hybrid tube design; kit, \$1350.00.   |
| DANA AUDIO                       | XO-1  | A   | X                            | 2                                     | Custom                               | No   | F   | M   | L   | 100                   | 0.005                          | 0.75                   | 100k                  | 1                        | 300.00                          | Fourth-order Linkwitz-Riley alignment.  |
| DB SYSTEMS                       | DB-3-18<br><br>DB-3-24<br>DB-3-36                                 | A<br><br>A<br>A   | S/X<br><br>S/X<br>S/X        | 2, 3<br><br>2<br>2                    | Optional<br><br>Optional<br>Optional | Yes<br><br>Yes<br>Yes                                  | F<br><br>F<br>F   | S/M/B<br><br>S/M/B<br>S/M/B   | H/M/L<br><br>H/L<br>H/L   | 100<br><br>100<br>100 | 0.0008<br><br>0.0008<br>0.0008 | 1<br><br>1<br>1        | 90k<br><br>90k<br>90k | 1.4k<br><br>1.4k<br>1.4k | From 450.00<br>615.00<br>690.00 | 18-dB/octave slope, 6 or 12 dB available. Linkwitz-Riley alignment. 36-dB/octave slope.   |
| ELECTRO-VOICE                    | EX-18<br>EX-24  | A   | M/S                          | †                                     | 80-6.3k                              | Yes  | F/P   | S/M   | H/M/L   | 96                    | 0.05                           | .775                   | 15k                   | 100                      | 444.00<br>664.00                | †Usable as stereo 2-way or mono 3-way. Balanced and unbalanced inputs and outputs; balanced impedance, 30 kilohms in and 200 ohms out; EQ for constant-directivity horn.  |
| ENTEC                            | 1000  | P   | S                            | 1                                     | Selectable                           |  | S   | S   | H   |                       |                                |                        |                       |                          | 125.00                          | High-pass only; for Entec 1000 Series subwoofers.   |
| ESSENCE                          | Jasper  | P   | M                            | †                                     | Adjustable                           | Yes  | P   | M   | †   | 120                   | 0.001                          |                        | Adj.                  | Adj.                     | ††                              | †2 to 6 bands per channel, with plug-in level control for each band. ††\$1385.00 to \$4850.00. Optimized for Essence Reference 12 system (Amethyst 10A and Reference subwoofer).  |
| FM ACOUSTICS<br>(Continued)      | 236-X100<br>MK II   | A   | S                            | 2                                     | 60-1.6k                              | Yes  | P   | S   | H/L   | 110                   | 0.008                          | .775                   | 30k                   | 1                        | 11.980.                         | Balanced inputs; with balanced inputs and outputs, \$14,800.  |

# CROSSOVERS

| MANUFACTURER                | Model                          | Type: Active=A, Passive=P<br>Combined Active & Passive=C | Mono=M, Stereo=S<br>Stereo with Mono Subwoofer Output=X,<br>Other=O | Number of Frequency Bands per Channel | Crossover Frequencies, Hz     | Independent High- and Low-Pass<br>Frequency Selection? | Frequency Setting:<br>Fixed=F, Variable=V,<br>Variable-V, Switchable=S | Subwoofer Outputs:<br>Stereo=S, Mono=M,<br>Inverted for Mono Bridging=B | Level Controls: High-Pass=H,<br>Midrange=M, Low-Pass=L<br>(Or Total Number of Controls) | S/N Ratio, dB | Distortion, % | Normal Input Level, V | Input Impedance, Ohms | Output Impedance, Ohms | Price, \$                 | Notes  |
|-----------------------------|--------------------------------|--|---|---------------------------------------|-------------------------------|--|--|---|---|---------------|---------------|-----------------------|-----------------------|------------------------|---------------------------|--|
| FM ACOUSTICS<br>(Continued) | 236-X1000<br>MK II             | A  | S   | 2                                     | 600-16k                       | Yes  | P  | S   | H/L   | 110           | 0.008         | .775                  | 30k                   | 1                      | 11,980.                   | As above.  |
|                             | 236/4-3 MK II                  | A  | M   | 3                                     | 60-16k                        | Yes  | P  | M   | H/M/L   | 110           | 0.009         | .775                  | 40k                   | 5                      | 10,720.                   | Balanced inputs and outputs.   |
|                             | 236/4-4 MK II                  | A  | M   | 4                                     | 60-16k                        | Yes  | P  | M   | H/M/L   | 110           | 0.009         | .775                  | 40k                   | 5                      | 12,900.                   | As above.  |
| GOLD SOUND                  | GS224                          | A  | S   | 2                                     | 40-4.2k                       | No   | V  | S   | 6   | 108           | 0.01          | 2                     | 20k                   | 300                    | 424.00                    | 24-dB/octave slope; Linkwitz-Riley alignment.  |
|                             | GS224EQ                        | A  | X   | 2                                     | 40-4.2k                       | No   | V  | M   | 6   | 108           | 0.01          | 2                     | 20k                   | 300                    | 499.00                    | As above; bass EQ and subsonic filter.   |
|                             | GS224SEQ                       | A  | S   | 2                                     | 40-4.2k                       | No   | V  | S   | 6   | 108           | 0.01          | 2                     | 20k                   | 300                    | 549.00                    | As above.  |
|                             | GS424                          | A  | S/O   | †                                     | 40-9k                         | No   | V  | S   | 12  | 108           | 0.01          | 2                     | 20k                   | 300                    | 524.00                    | †Usable as stereo 3-way or four-channel 2-way. 24-dB/octave slope.   |
|                             | GS424EQ                        | A  | X/O   | †                                     | 40-9k                         | No   | V  | M   | 12  | 108           | 0.01          | 2                     | 20k                   | 300                    | 609.00                    | As above; bass EQ and subsonic filter.   |
| GS424SEQ                    | A                              | S/O  | †   | 40-9k                                 | No                            | V  | S  | 12  | 108   | 0.01          | 2             | 20k                   | 300                   | 659.00                 | As above.                 |  |
| HARRISON<br>LABORATORIES    | SEMOD                          | A  | O   |                                       | Selectable                    | Yes  | S  | S   | 30  | 90            |               | 2.0                   | 20k                   | 1k                     | 459.00                    | Usable as 2-, 3-, or 4-way; third-octave EQ, pink-noise generator. Independent left/right channel selection. †Passive, line level. Four-channel.   |
|                             | PFMOD 2W-1                     | †  | S   |                                       | Selectable                    | Yes  | S  | S   |   | 120           |               | 10<br>Max.            | 10k                   | 10k                    | 59.95                     |  |
|                             | PFMOD<br>4-Channel<br>LP-1     | †  | X   |                                       | Selectable                    | Yes  | S  | S/M   |   | 120           |               | 10<br>Max.            | 10k                   | 10k                    | 99.95                     |  |
|                             | 2W-2/BP-1                      | P  | S   | 1                                     | 50-200                        |  | S  | S   | No  | 130           | 0.005         | 10<br>Max.            | Var.                  | Var.                   | 49.95                     |  |
|                             | 2W-2/BP-1                      | P  | S   | 3                                     | 50-200, 3.5k-8k               | Yes  | S  | S   | No  | 130           | 0.005         | 10<br>Max.            | Var.                  | Var.                   | 99.95                     |  |
|                             | FMOD LP/HP                     | P  | M   | 1                                     | Selectable                    |  | F  | M   |   | 130           | 0.005         | 10<br>Max.            | Var.                  | Var.                   | 29.95<br>Pair             | Color-coded.   |
| FMOD Cable                  | P                              | S  | 1   | Selectable                            |                               | †  | S  |   | 130   | 0.005         | 10<br>Max.    | Var.                  | Var.                  | 24.95                  | As above. †Reverse plugs. |  |
| JANIS                       | Interphase 3a†                 | A  | X   | 2                                     | 100                           | No   | F  | M   | L   | 98            | 0.01          | 0.6                   | 200k                  | 100                    | 600.00                    | 18-dB/octave Butterworth filters; independent low-pass filter output with continuous phase-shift capability.   |
| JRM                         | 3BPB/X8                        | A  | S/X   | †                                     | 75-600, 180-1.5k,<br>1.2k-10k | Yes  | P  | S/M/B   | 8††   | 110           | 0.001         | Sel.                  | 10k                   |                        | 1575.00                   | †Usable as stereo 2-, 3-, or 4-way. ††0.5-dB steps. Cascaded 18-dB/octave filters; stereo and bridging outputs for all sections; infrasonic and ultrasonic filters; optional EQ for each band. †0.5-dB steps. As above but 2-way only. |
|                             | 3BPB/X4                        | A  | S/X   | 2                                     | Optional                      | Yes  | P  | S/M/B   | 4†  | 110           | 0.001         | Sel.                  | 10k                   |                        | 1035.00                   |  |
| KINERGETICS<br>RESEARCH     | SW-800C                        | C  | S   |                                       | 60-120                        | Yes  | S  | S   | L   | 90            | 0.03          | 0.6                   | 100k                  | 75                     | 995.00                    | Optional balanced inputs and outputs.  |
| KINETIC AUDIO               | Three-Point                    | P  | M   | †                                     | 60/90/180                     | Yes  | S  | M   | H/M   |               |               |                       | 8                     | Var.                   | 250.00                    | †High-pass only.   |
|                             | Four-Point                     | P  | M   | †                                     | 60/90/180/350                 | Yes  | S  | M   | H/M   |               |               |                       | 8                     | Var.                   | 250.00                    | †Low-pass only.  |
| LINN                        | Keiligh Aktamp<br>Kaber Aktamp | A<br>A   | S<br>S  | 2<br>3                                |                               |  | F<br>F   |   | H<br>H/L  |               |               |                       |                       |                        | 950.00<br>1425.00         | For Linn Keiligh loudspeaker. For Linn Kaber loudspeaker.  |
| MADISOUND                   | 24CX-2                         | A  | M/S   | †                                     | 60-7k                         | No   | V  | S/M   | H/L   | 108           | 0.01          | 1.95                  | 20k                   | 300                    | 425.00                    | †Usable as stereo 2-way or mono 3-way. Linkwitz-Riley alignment.   |
|                             | 24CX-4                         | A  | M/S   | †                                     | 60-700, 600-7k                | No   | V  | S/M   | H/M/L   | 108           | 0.01          | 1.95                  | 20k                   | 300                    | 525.00                    | †Usable as stereo 3-way, mono 5-way, or four-channel 2-way. Alignment as above.  |
| MARCHAND                    | XM1-A                          | A  | M   | 2                                     | 20-5k                         | No   | P  |   | H/L   | 100           | 0.001         | 5                     | 25k                   | 50                     | 30.00                     | 24-dB/octave slope.  |
|                             | XM9-AA                         | A  | S   | 2                                     | 20-5k                         | No   | P  | S/M   | H/L   | 110           | 0.001         | 5                     | 25k                   | 50                     | 299.00                    | As above; 3-way version, \$399.  |
|                             | XM6-AA                         | A  | S   | 2                                     | 20-5k                         | No   | V  | S/M   | H/L   | 110           | 0.001         | 5                     | 25k                   | 50                     | 495.00                    | 24-dB/octave slope.  |
|                             | XM16-AA                        | A  | S   | 2                                     | 20-5k                         | Yes  | P  | S/M   | H/L   | 110           | 0.001         | 5                     | 25k                   | 50                     | 349.00                    | 48-dB/octave slope; kit available; 3-way version, \$499.00.  |
|                             | XM26                           | A  | S   | 2                                     | 20-5k                         | Yes  | P  | S/M   | H/L   | 110           | 0.01          | 5                     | 25k                   | 200                    | 599.00                    | Tube; 24-dB/octave slope; kit available.   |
| MILBERT                     | TC-2R                          | C  | X   | 2                                     | 60/70/80/100                  | Yes  | S  | M   | H/L   | 90            | 1             | 15<br>Max.            | 50k                   | †                      | 670.00                    | Tube; custom frequencies available. †50 ohms at 10 V.  |
|                             | TC-4R                          | C  | X   | 2                                     | 60/70/80/100                  | Yes  | S  | M   | H/L   | 90            | 1             | 15<br>Max.            | 50k                   | †                      | 830.00                    | As above.  |
| MIRAGE                      | LFX-2                          | A  | S/X   | 2                                     | 50/63/80/100                  | No   | S  | S/M   | L   | 90            | 0.001         | 0.75                  | 100k                  | 180                    |                           | †Three-channel. Independent center-channel frequency selection.  |
|                             | LFX-3                          | A  | O   | 2                                     | 50/63/80/100                  | No   | S  | †   | L   | 90            | 0.001         | 0.75                  | 100k                  | 180                    |                           |  |
| M & K SOUND                 | LP-1S                          | P  | S   | †                                     | 100                           | No   | F  | S   | H/L   |               |               |                       |                       |                        | 375.00                    | †High-pass only, to match low-pass filter in M & K powered subwoofers. Line level.   |
|                             | VF-100<br>VF-80                | P<br>P   | S<br>S  | †<br>†                                | 100<br>80                     | No<br>No   | F<br>F   | S<br>S  |   |               |               |                       |                       |                        | 50.00<br>75.00            | As above; three-channel version available.   |
| MUSIC<br>REFERENCE          | RM-3                           | A  | S   | 2                                     | Optional                      | Yes  | P  | S   | H/L   |               | 0.005         |                       | 50k                   | 600                    | 1200.00                   | Frequency and slope selected by changing circuit cards.  |

# CROSSOVERS

| MANUFACTURER            | Model                   | Type: Active=A, Passive=P<br>Combined Active & Passive=C | Mono=M, Stereo=S,<br>Stereo with Mono Subwoofer Output=X,<br>Other=O | Number of Frequency Bands per Channel | Crossover Frequencies, Hz  | Independent High- and Low-Pass<br>Frequency Selection? | Frequency Setting:<br>Fixed=F, Switchable=S,<br>Variable=V, Plug-in Modules=P | Subwoofer Outputs:<br>Stereo=S, Mono=M,<br>Invented for Mono Bridging=B | Level Controls: High-Pass=H,<br>Midrange=M, Low-Pass=L,<br>(O= Total Number of Controls) | S/N Ratio, dB | Distortion, % | Nominal Input Level, V | Input Impedance, Ohms | Output Impedance, Ohms | Price, \$ | Notes   |
|-------------------------|-------------------------|--|--|---------------------------------------|----------------------------|--|---|---|--|---------------|---------------|------------------------|-----------------------|------------------------|-----------|---|
| NAIM AUDIO              | NAXO 3-6                | A  | S  | 3                                     | Custom                     | Yes  | F   |   | H/M/L  | 90            | 0.01          | 1                      | 20k                   | 47                     | 1125.00   | Requires Naim Hi-Cap power supply, \$1235.00. As above.   |
|                         | NAXO 2-4                | A  | S  | 2                                     | Custom                     | Yes  | F   |   | H/L  | 90            | 0.01          | 1                      | 20k                   | 47                     | 1125.00   |   |
| NEI                     | 321                     | A  | M/S  | 2                                     | 100-2k, 1k-20k             | No   | V   |   | H/L  | 102           | 0.003         | 1.4                    | †                     | †                      | 249.00    | †Unbalanced, 10 kilohms in and 300 ohms out; balanced, 20 kilohms in and 600 ohms out.  |
| NELSON-REED             | AC-1204                 | C  | S  | 2                                     | 62                         | No   | F   | S/M   | L  | 118           | 0.007         | 1.0                    | 22k                   | 100                    | 850.00    | For Nelson-Reed 1204/P subwoofer. Bass EQ, ±10 dB; contour.   |
|                         | Bass Exchange           | A  | S  | 2                                     | 60-120                     | No   | P   | S   | L  | 90            | 0.01          |                        | 50k                   | 100                    | 650.00    |   |
| NESTOROVIC LABORATORIES | NL12A                   | A  | S  | 2                                     | 200                        | No   | F   | S   | H/L  | 90            | 0.01          | 1                      | 50k                   | 100                    | 935.00    | For Nestorovic System 12A.  |
| N.E.W.                  | X-10                    | A  | S  |                                       |                            |  | S   | S   |  |               |               |                        |                       |                        | 898.00    |   |
| NOBIS TECHNOLOGIES      | EC-1                    | C  | S  | 2                                     | 80                         | No   | F   | S/B   | L  | 92            | 0.01          | .775                   | 50k                   | 600                    | 399.00    |   |
| RANE                    | AC 22                   | A  | M/S/X  | †                                     | 70-3.6k                    | No   | V   | S/M   | H/M/L  | 92            | 0.02          | 1                      | 20k                   | 100                    | 399.00    | †Usable as stereo 2-way or mono 3-way.<br>†Usable as stereo 3-way or mono 4- or 5-way. Balanced inputs; with balanced in/out (output impedance, 200 ohms), \$529.00. Includes EQ (see "Equalizers").                          |
|                         | AC 23                   | A  | M/S  | †                                     | 70-1k, 190-7k              | No   | V   | S/M   | 6  | 92            | 0.02          | Max.<br>1<br>Max.      | 20k                   | 100                    | 499.00    |   |
|                         | SSE 35                  | A  | S/X  | 2                                     | 80/125                     | No   | S   | S/M   |  |               |               |                        |                       |                        |           |   |
| RESONANCE               | Active Bass Circuit 1.0 | A  | X  | 2                                     | 100                        | No   | F   |   |  | 87            | 0.005         |                        |                       |                        | 349.00    | Includes limiting compressor and parametric bass EQ (see also "Signal Processors" and "Equalizers"); 24-dB/octave low-pass and 18-dB/octave high-pass at 100 Hz; subsonic filter; balanced and unbalanced inputs and outputs. |
| SESCOM                  | PO-51                   | A  | M  | 3                                     | 20-200, 200-2k, 2k-20k     | Yes  | P   |   |  | 80            | 0.01          | 0.75                   | 10k                   | 100                    | 190.60    | Requires PO-1 power supply.   |
|                         | R/S CO                  | A  | S  | 3                                     | 50-1k, 1k-10k              | Yes  | V   | No  | H/L  | 85            | 0.01          | 1                      | 15k                   | 600                    | 200.00    | Balanced inputs and outputs; kit, \$135.00.   |
| SIGNATURE TECHNOLOGIES  | LPI-2                   | C  | S  | 2                                     | 80                         | No   | F   | S/B   | L  | 92            | 0.01          | .775                   | 50k                   | 600                    | 399.00    |   |
| SNELL ACOUSTICS         | EC 200                  | A  | X  | 2                                     | 80                         | No   | F   | S/M   | 5  | 92            | 0.01          |                        | 15k                   | 100                    | 299.00    | 12-dB/octave high-pass, 24-dB/octave low-pass.  |
| SNELL MULTIMEDIA        | EC 300                  | A  | X  | 2                                     | 80                         | No   | F   | S/M   | 6  | 92            | 0.01          |                        | 15k                   | 100                    | 299.00    | 12-dB/octave high-pass, 24-dB/octave low-pass; high-pass output for center channel.   |
| SOUNDOLIER              | ThundraPro CXA          | A  | X  | 2                                     | HP: 100/150/200 LP: 80-200 | Yes  | S/V   | M   | L  |               | 0.1           | 1.0                    |                       |                        | 498.75    | Subwoofer crossover with mono amp (see also "Amps"); reverse-polarity switching; input sensing; subsonic filter.  |
| SUMO                    | Deillah II              | A  | S/X/O  | 2                                     | 50/63/80/100/125           | Yes  | S   | S/M/B   | L  | 95            | 0.007         | 2                      | 47k                   | 75                     | 599.00    | Bypassable Class-A high-pass section.   |
| SYMETRIX                | 524E                    | A  | M/S/O  | †                                     | 70-10k                     | Yes  | P   |   | 4  | 109           | 0.03          | 1.23                   | 10k                   | 200                    | 1095.00   | †Usable as stereo 2-way, mono 3-way, or mono 4-way. Balanced inputs and outputs; phase controls; outputs have independent limiters.   |
| TC SOUNDS               | TCX                     | A  | S  | 2                                     | 30-10k                     | Yes  | P   | S   | L  | 96            | 0.01          | 1.0                    | 20k                   | 100                    | 1195.00   | Balanced and unbalanced inputs and outputs.   |
| UNITY AUDIO             | Unity PARM              | C  | S  | 2                                     | 40-300                     | Yes  | P   | S   | L  | 115           | 0.001         | 1                      | 600                   | 600                    | 2750.00   | Fully balanced differential circuits.   |
| WELBORNE LABS           | ACT 1                   | A  | S  | 2                                     | 50-5k                      | Yes  | P   | S   | H/L  | 110           | 0.002         | 2                      | 50k                   | 100                    | 1435.00   | Choice of frequencies and slopes (6 to 24 dB/octave); discrete Class-A buffers; kit, \$1035.00. As above but \$1245.00 for kit; balanced inputs and outputs. As above but \$1960.00 for kit.                                  |
|                         | ACT 4                   | A  | S  | 2                                     | 50-5k                      | Yes  | P   | S   | H/L  | 110           | 0.002         | 2                      | 50k                   | 100                    | 1645.00   |   |
|                         | ACT 10                  | A  | S  | 3                                     | 50-5k, 4k-8k               | Yes  | P   | S   | H/L  | 110           | 0.002         | 2                      | 50k                   | 100                    | 2360.00   |   |

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# LOUDSPEAKERS

| MANUFACTURER       | Model                    | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W Midrange-M, Tweeter-T, Super Tweeter-ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms, Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish         | Grille Color and Material | Weight, Lbs. Each | Price, \$            |             |
|--------------------|--------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|---|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|----------------|---------------------------|-------------------|----------------------|-------------|
| ACCLAIM            | Eight-0-Two Series II    | Air Spring (AS)   | 8                       |                           |               | ¾                        | Dome         |   | 49-25 ±4                                    | 91                      | 25   |                           | 6/4                              | 10 x 8 x 16                          | Lacq. Oak      | Blk. Knit                 | 18                | 500.00 Pair          |             |
|                    | Twelve-0-Two Subwoofer   | Pressure Release Subwoof.                               | 12                      |                           |               |                          |              |   | 29-100 ±3                                   | 92                      | 30   | 100                       | 6/4                              | 14 x 12 x 25                         | Lacq. Oak      | Blk. Knit                 | 30                | 1100.00 Pair         |             |
|                    | Twelve-0-Three Series II | AS Sat. & Pressure Release Subwoof. Sealed AS           | 12                      | 6                         | Cone          | ¾                        | Dome         |   | 29-25 ±4                                    | 91                      | 30   |                           | 6/4                              | Three Pieces                         | Lacq. Oak      | Blk. Knit                 | 66                | 1200.00 Sys.         |             |
|                    | Ribbon Monitor           |   | 6                       |                           |               |                          | Ribbon       |   | 39-30 ±3                                    | 90                      | 30   |                           | 5/4                              | 10 x 12 x 19                         | Dak Lacq. Wal. | Blk. Knit Sys. 30         | 2000.00 Pair      |                      |             |
| ACI                | LV Satellite             | Sealed Sat.   | 5¼                      |                           |               | 1                        | Dome         |   | 80-20 ±3                                    | 89                      | 30   |                           | 8/6                              | 11 x 17 x 10                         |                | Blk. Knit                 | 14                | 599.00 Pair          |             |
|                    | LV Subwoofer             | Aperiodic Subwoof.                                      | 12                      |                           |               | 1                        | Dome         |   | 35-100 ±3                                   | 89                      | 60   | 100                       | 8/6                              | 25 x 14 x 15                         | Opt.           | Blk. Knit                 | 28                | 649.00 Each          |             |
|                    | Sapphire III             | Aperiodic   | 7                       |                           |               |                          |              |   | 64-20 ±3                                    | 90                      | 30   |                           | 6/4                              | 16 x 10 x 10                         | Opt.           | Blk. Knit                 | 63                | 1699.00 Pair         |             |
|                    | Sub 1                    | Bandpass Subwoof.                                       | 12                      |                           |               |                          | W            |   | 30-90 ±3                                    | 89                      | 40   | 90                        | 4/3                              | 25 x 14 x 15                         | Opt.           | Blk. Knit                 | 63                | 1599.00 Pair         |             |
| Titan              | Powered Subwoof.         | 12  |                         |                           |               | W                        |              | 20-150 ±3   | 250   | 250                     | 50-180                                       | 8/6                       | 27 x 14 x 16                     | Opt.                                 | Blk. Knit      | 70                        | 1299.00 Each      |                      |             |
| B-Flat             | In-Wall                  |   | 6½                      |                           |               | 1                        | Dome         |   | 60-20 ±3                                    | 89                      | 20   |                           | 8/6                              | 12 x 9 x 3                           | Wht.           | Wht. Mtl.                 | 7                 | 349.00 Pair          |             |
| ACOUSTIC ARTS      | Messenger 303A           | Trans. Line Towers & Basspass Subwoof.                  | (2)15                   | (2)4                      | Cones         | 1                        | Dome         | M,T   | 15-22                                       | 92                      | 30, 70                                       | 85                        | 5/3                              | Three Pieces                         | Blk. Paint     | Blk. Mesh                 | 193               | 4900.00 Sys. w/Xover |             |
| ACOUSTIC ENERGY    | AE-1                     | Bass Ref.   | 4                       |                           |               | 1                        | Dome         |   | 80-17 ±1.5                                  | 88                      | 50   | 3k                        | 8/                               | 7 x 10 x 12                          | Satin Blk.     | Blk. Knit                 | 18                | 1695.00 Pair         |             |
|                    | AE-2a                    | Bass Ref.   | (2)4                    |                           |               | 1                        | Dome         |   | 50-22 ±4                                    | 91                      | 50   | 3k                        | 8/5.5                            | 9 x 15 x 13                          | Satin Blk.     | Blk. Knit                 | 38                | 2425.00 Pair         |             |
|                    | Aegis 1                  | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         |   | 50-18 ±2.5                                  | 86                      | 50   | 3k                        | 8/6                              | 9 x 11 x 16                          | Blk. Ash       | Blk. Knit                 | 20                | 895.00 Pair          |             |
|                    | Aegis 2                  | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         |   | 45-18 ±2.5                                  | 87                      | 50   | 3.3k                      | 8/6                              | 9 x 11 x 38                          | Blk. Ash       | Blk. Knit                 | 73                | 1895.00 Pair         |             |
| Aegis 3            | Home Th.; Bass Ref.      | 6½  |                         |                           | 1             | Dome                     |              |   |   |                         |  |                           |                                  | Blk. Ash                             | Blk. Knit      |                           | 595.00 Each       |                      |             |
| ACOUSTIC INTERFACE | Angstrom                 | Ac. Sus.  | 6½                      |                           |               | 1                        | Dome         |   | 78-20 ±2.5                                  | 90                      | 15   | 5k                        | 8/6                              | 13 x 7 x 6                           | Blk. Enam.     | Blk. Cloth                | 10                | 150.00 Each          |             |
|                    | Tremor                   | Vented Subwoof.   | (2)12                   |                           |               |                          |              | M,T   | 29-200 ±2.5                                 | 95                      | 15   | 100                       | 8/6                              | 62 x 26 x 16                         | Oil. Wal.      | Blk. Cloth                | 150               | 1290.00 Each         |             |
|                    | Shadow                   | Ac. Sus.  | 8                       |                           |               | 1                        | Dome         |   | 69-20 ±2.5                                  | 91                      | 15   | 5k                        | 8/6                              | 25 x 9 x 9                           | Blk. Cloth     | Blk. Cloth                | 18                | 190.00 Each          |             |
|                    | Intimate                 | Ac. Sus.  | 10                      |                           |               | 1                        | Dome         | T   | 49-20 ±2.5                                  | 93                      | 15   | 5k                        | 8/6                              | 24 x 12 x 10                         | Oil. Oak       | Blk. Cloth                | 29                | 290.00 Each          |             |
|                    | Transcendant             | Vented  | 12                      | 1¼                        | Dome          | 1¼                       | Dome         | M,T   | 38-20 ±2.5                                  | 94                      | 15   | 1.9k                      | 8/6                              | 32 x 16 x 12                         | Oil. Wal.      | Blk. Cloth                | 51                | 490.00 Each          |             |
|                    | Professional Series II S | Vented  | 12                      | 2                         | Dome          | 1                        | Dome         | M,T   | 29-20 ±2.5                                  | 95                      | 15   | 800,5k                    | 8/6                              | 48 x 16 x 14                         | Oil. Oak       | Blk. Cloth                | 80                | 890.00 Each          |             |
|                    | Professional Series III  | Vented  | 12                      | 3,1½                      | Domes         | ¾                        | Dome         | T, (2)M   | 25-20 ±2.5                                  | 95                      | 15   | 600,2k,6k                 | 8/6                              | 48 x 16 x 14                         | Oil. Wal.      | Blk. Cloth                | 90                | 1490.00 Each         |             |
|                    | Studio Reference         | Vented  | 12                      | 4x15                      | Horn          | 2x5½                     | Horn         | (2)M  | 22-20 ±2.5                                  | 98                      | 15   | 880,5k                    | 8/6                              | 60 x 16 x 14                         | Oil. Wal.      | Blk. Cloth                | 102               | 2190.00 Each         |             |
|                    | Sound Portal             | Horn Triamped, Horn                                     | 24x52                   | 24                        | Horn          | 6½                       | Horn         | M,T   | 15-20 ±2.5                                  | 101                     | 15   | 550,5k                    | 8/6                              | 80 x 27 x 36                         | Oil. Oak       | None                      | 400               | 7500.00 Each         |             |
|                    | Sound Prism              |   | 24x52                   | 24                        | Horn          | 6½                       | Horn         | M,T   | 10-20 ±1                                    | 105                     | 100, 300, 1.5k Inc.                          | 550,5k                    | 8/6                              | 80 x 27 x 36                         | Oil. Wal.      | None                      | 500               | 30,000.00 Pair       |             |
|                    | Center Channel           | Ctr. Ch.; Ac. Sus.                                      | 6½                      |                           |               | 1                        | Dome         |   | 78-20 ±2.5                                  | 90                      | 15   | 5k                        | 8/6                              | 13 x 7 x 6                           | Blk. Enam.     | Blk. Cloth                | 10                | 175.00 Each          |             |
|                    | Center Channel           | Ctr. Ch.; Ac. Sus.                                      | 8                       |                           |               | 1                        | Dome         |   | 69-20 ±2.5                                  | 91                      | 15   | 5k                        | 8/6                              | 25 x 9 x 9                           | Blk. Cloth     | Blk. Cloth                | 18                | 250.00 Each          |             |
|                    | Center Channel           | Ctr. Ch.; Ac. Sus.                                      | 6½                      |                           |               | 1                        | Dome         | T   | 78-20 ±2.5                                  | 93                      | 15   | 5k                        | 8/6                              | 13 x 7 x 6                           | Oil. Oak       | Blk. Cloth                | 10                | 215.00 Each          |             |
|                    | Center Channel           | Ctr. Ch.; Vented  | 6½                      | 1¼                        | Dome          | 1¼                       | Dome         | M,T   | 78-20 ±2.5                                  | 94                      | 15   | 1.9k                      | 8/6                              | 13 x 7 x 6                           | Oil. Wal.      | Blk. Cloth                | 12                | 350.00 Each          |             |
|                    | Center Channel           | Ctr. Ch.; Vented  | 8                       | 2                         | Dome          | 1                        | Dome         | M,T   | 49-20 ±2.5                                  | 95                      | 15   | 800,5k                    | 8/6                              | 24 x 12 x 10                         | Oil. Oak       | Blk. Cloth                | 35                | 950.00 Each          |             |
|                    | Center Channel           | Ctr. Ch.; Vented  | 10                      | 3,1½                      | Domes         | ¾                        | Dome         | M,T, ST   | 49-20 ±2.5                                  | 95                      | 15   | 600,2k,6k                 | 8/6                              | 24 x 12 x 10                         | Oil. Oak       | Blk. Cloth                | 40                | 950.00 Each          |             |
|                    | Center Channel           | Ctr. Ch.; Vented  | 8                       | 4x15                      | Horn          | 2x5½                     | Horn         | M,T   | 38-20 ±2.5                                  | 98                      | 15   | 880,5k                    | 8/6                              | 32 x 16 x 12                         | Oil. Wal.      | Blk. Cloth                | 60                | 1550.00 Each         |             |
|                    | Center Channel           | Ctr. Ch.; Vented  | 12                      | 24                        | Horn          | 6½                       | Horn         | M,T   | 29-20 ±2.5                                  | 101                     | 15   | 550,5k                    | 8/6                              | 48 x 27 x 16                         | Oil. Wal.      | Blk. Cloth                | 200               | 5000.00 Each         |             |
|                    | Center Channel           | Triamped, Ctr. Ch.; Vented                              | 15                      | 24                        | Horn          | 6½                       | Horn         | M,T   | 29-20 ±2.5                                  | 105                     | 100, 300, 1.5k Inc.                          | 550,5k                    | 8/6                              | 60 x 27 x 16                         | Oil. Oak       | Blk. Cloth                | 250               | 8000.00 Each         |             |
|                    | Center Channel           | Ac. Sus.  | 6½                      |                           |               | 1                        | Dome         |   | 78-20 ±2.5                                  | 90                      | 15   | 5k                        | 8/6                              | 9 x 14 x 4                           | Wht. Cloth     | Wht. Cloth                | 10                | 200.00 Each          |             |
|                    | Center Channel           | In-Wall; Ac. Sus.                                       | 8                       |                           |               | 1                        | Dome         |   | 59-20 ±2.5                                  | 93                      | 15   | 5k                        | 8/6                              | 18 x 24 x 4                          | Wht. Cloth     | Wht. Cloth                | 19                | 290.00 Each          |             |
|                    | Center Channel           | In-Wall; Vented   | 8                       | 1¼                        | Dome          | 1¼                       | Dome         |   | 49-20 ±2.5                                  | 94                      | 15   | 1.9k                      | 8/6                              | 18 x 36 x 4                          | Wht. Cloth     | Wht. Cloth                | 30                | 490.00 Each          |             |
|                    | Center Channel           | In-Wall; Vented   | 10                      | 2                         | Dome          | 1                        | Dome         | M,T   | 39-20 ±2.5                                  | 95                      | 15   | 800,5k                    | 8/6                              | 18 x 48 x 4                          | Wht. Cloth     | Wht. Cloth                | 60                | 790.00 Each          |             |
|                    | Center Channel           | In-Wall; Vented   | 10                      | 3,1½                      | Domes         | ¾                        | Dome         | M,T, ST   | 32-20 ±2.5                                  | 95                      | 15   | 600,2k,6k                 | 8/6                              | 18 x 60 x 4                          | Wht. Cloth     | Wht. Cloth                | 80                | 1190.00 Each         |             |
|                    | Center Channel           | In-Wall; Vented   | 12                      | 4x15                      | Horn          | 2x5½                     | Horn         | M,T   | 29-20 ±2.5                                  | 98                      | 15   | 880,5k                    | 8/6                              | 18 x 96 x 6                          | Wht. Cloth     | Wht. Cloth                | 90                | 1990.00 Each         |             |
|                    | ACOUSTIC PROFILES        | PSL-0.5   | Bass Ref.; Sat.         | 4                         |               |                          | ¾            | Dome  |   | 55-21                   | 88   | 3                         |                                  | 8/                                   | 7 x 5 x 5      | Blk. Plst.                | Mtl.              | 5                    | 110.00 Pair |
|                    |                          | PSL-52B   | Bass Ref.; Sat.         | 6                         |               |                          | ¾            | Dome  |   | 50-20                   | 87   | 5                         |                                  | 8/                                   | 14 x 8 x 10    | Blk. Vnl.                 | Blk. Knit         | 12                   | 229.00 Pair |
| PSL-FX4            |                          | Bass Ref.; Rear Ch.                                     | 4½                      |                           |               | ¾                        | Dome         |   | 65-20                                       | 87                      | 5  |                           | 8/                               | 10 x 7 x 6                           | Blk. Vnl.      | Blk. Knit                 | 6                 | 179.00 Pair          |             |
| PSL-C4             |                          | Bass Ref.; Ctr. Ch.                                     | 4½                      |                           |               | ¾                        | Dome         |   | 60-20                                       | 87                      | 5  |                           | 8/                               | 7 x 10 x 8                           | Blk. Vnl.      | Blk. Knit                 | 7                 | 129.00 Each          |             |
| PSL-C2             |                          | Bass Ref.; Ctr. Ch.                                     | (2)4½                   |                           |               | ¾                        | Dome         |   | 55-20                                       | 88                      | 5  |                           | 8/                               | 6 x 17 x 8                           | Blk. Vnl.      | Blk. Knit                 | 12                | 199.00 Each          |             |
| PSL-6.1A           |                          | Bass Ref.   | 6                       |                           |               | 1                        | Dome         |   | 45-20                                       | 87                      | 5  |                           | 8/                               | 15 x 8 x 12                          | Blk. Vnl.      | Blk. Knit                 | 15                | 399.00 Pair          |             |
| PSL-66.2           |                          | Bass Ref.   | (2)6                    |                           |               | 1                        | Dome         |   | 28-20                                       | 87                      | 5  |                           | 8/                               | 32 x 8 x 12                          | Blk. Vnl.      | Blk. Knit                 | 28                | 749.00 Pair          |             |
| PSL-7.5            |                          | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |   | 35-20                                       | 90                      | 5  |                           | 8/                               | 24 x 10 x 12                         | Blk. Vnl.      | Blk. Knit                 | 16                | 429.00 Pair          |             |
| PSL-8.4            |                          | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |   | 35-20                                       | 91                      | 5  |                           | 8/                               | 32 x 10 x 15                         | Blk. Vnl.      | Blk. Knit                 | 41                | 529.00 Pair          |             |
| PSL-88.4           |                          | Bass Ref.   | (2)8                    |                           |               | 1                        | Dome         |   | 30-20                                       | 91                      | 5  |                           | 8/                               | 40 x 10 x 15                         | Blk. Vnl.      | Blk. Knit                 | 55                | 699.00 Pair          |             |
| PSL-SUB10P         |                          | Powered Subwoof.  | 10                      |                           |               |                          |              |   | 30-100                                      |                         |  |                           | 8/                               | 29 x 16 x 11                         | Blk. Vnl.      | Blk. Knit                 | 60                | 499.00 Each          |             |
| PSL-625            |                          | Bass Ref.   | 6                       |                           |               | 1                        | Dome         |   | 50-20                                       | 87                      | 5  |                           | 8/                               | 15 x 9 x 12                          | Blk. Vnl.      | Blk. Knit                 | 15                | 330.00 Pair          |             |

(Continued)

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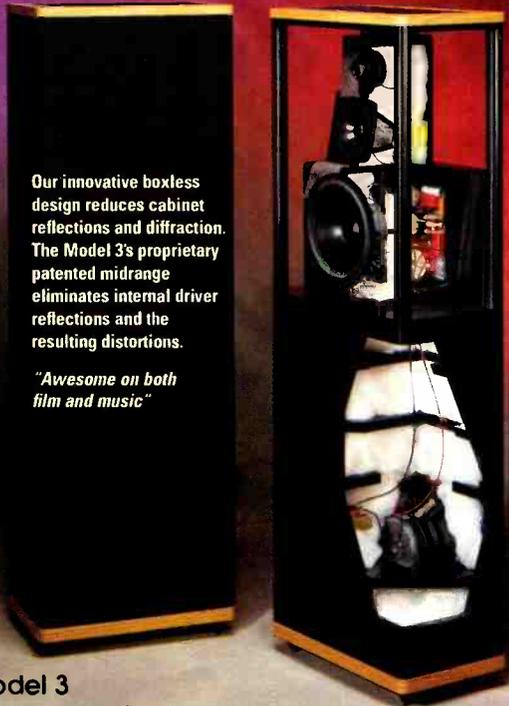
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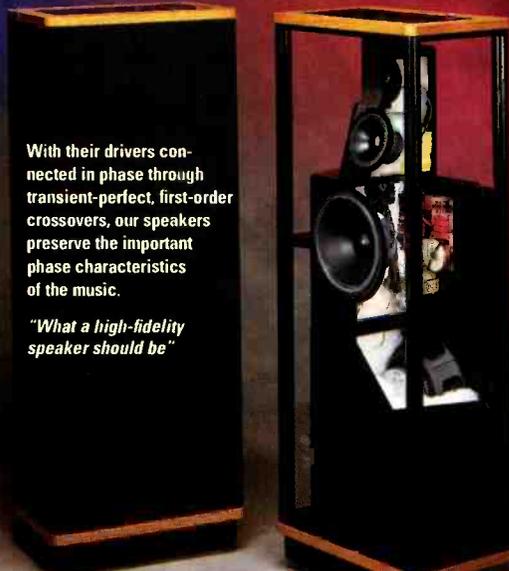
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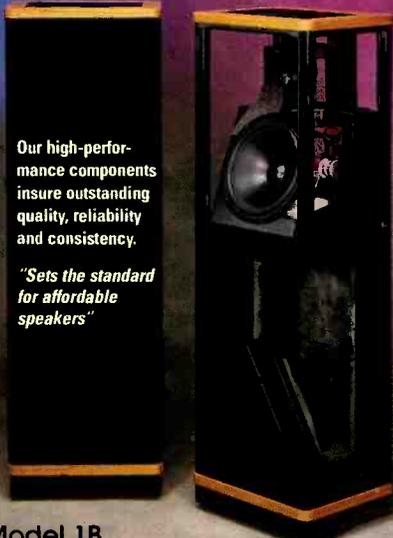


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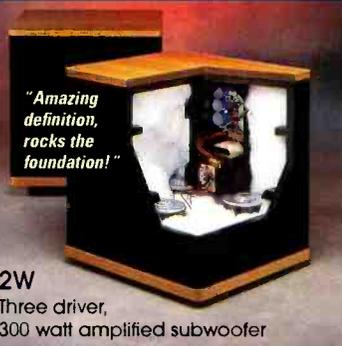


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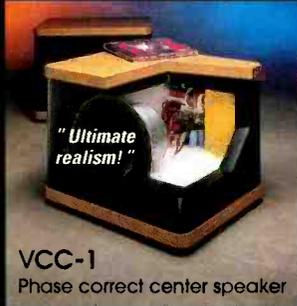
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# LOUDSPEAKERS

| MANUFACTURER                     | Model                           | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Superwoofer=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish            | Grille Color and Material | Weight, Lbs. Each | Price, \$      |
|----------------------------------|---------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-------------------|---------------------------|-------------------|----------------|
| ACOUSTIC PROFILES (Continued)    | PSL-825                         | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 35-20                                       | 90                      | 5  | 8/                        | 20 x 10 x 12                     | Blk. Vnl.                            | Blk. Knit         | 17                        | 400.00 Pair       |                |
|                                  | PSL-8205                        | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 35-20                                       | 91                      | 5  | 8/                        | 35 x 10 x 12                     | Blk. Vnl.                            | Blk. Knit         | 44                        | 500.00 Pair       |                |
|                                  | PSL-8305                        | Bass Ref.   | 8                       | 5                         | Cone          | 1                        | Dome         |  | 35-20                                       | 91                      | 5  | 8/                        | 35 x 10 x 12                     | Rswd. Blk. Vnl.                      | Blk. Knit         | 44                        | 700.00 Pair       |                |
|                                  | PSL-8825                        | Bass Ref.   | (2)8                    |                           |               | 1                        | Dome         |  | 35-20                                       | 92                      | 5  | 8/                        | 42 x 10 x 14                     | Vnl. Blk. Vnl.                       | Blk. Knit         | 58                        | 800.00 Pair       |                |
|                                  | PSL-8835                        | Bass Ref.   | (2)8                    | 5                         | Cone          | 1                        | Dome         |  | 35-20                                       | 92                      | 5  | 8/                        | 42 x 10 x 14                     | Rswd. Vnl.                           | Blk. Knit         | 58                        | 1000.00 Pair      |                |
| A/D/S/                           | AVT 148                         | Home Th.; Vented  | 8                       | (2)4                      | Cones         | 1                        | Dome         |  | 28-23 ±3                                    | 89                      | 20   | 8/                        | 43 x 10 x 17                     | Blk.                                 | Blk. Steel        | 67                        | 1499.00 Pair      |                |
|                                  | AVF 144                         | Home Th.; Ctr. Ch.                                      |                         | (2)4                      | Cones         | 1                        | Dome         |  | 70-23 ±3                                    | 89                      | 10   | 8/                        | 5 x 13 x 6                       | Blk.                                 | Blk. Steel        | 10                        | 449.00 Each       |                |
|                                  | AVS 140                         | Home Th.; Surr.; Pas. Rad.                              | 4                       |                           | Cone          | 1                        | Dome         |  | 50-23 ±3                                    | 88                      | 10   | 8/                        | 5 x 13 x 6                       | Blk.                                 | Blk. Steel        | 8                         | 649.00 Pair       |                |
|                                  | SubSat 2                        | Sat. & Subwoof.   | 6                       | 4                         | Cone          | 1                        | Dome         |  | 42-20 ±3                                    | 89                      | 20   | 8/                        | Three Pieces                     | Opt.                                 | Steel Opt., Steel | 33                        | 699.00 Sys.       |                |
|                                  | SubSat 3                        | Sat. & Subwoof.   | 6                       | 5 1/4                     | Cone          | 1                        | Dome         |  | 42-20 ±3                                    | 89                      | 20   | 8/                        | Three Pieces                     | Opt.                                 | Steel Opt., Steel | 41                        | 799.00 Sys.       |                |
|                                  | Sub 6                           | Bandpass Subwoof.                                       | 6                       |                           |               |                          |              |  | 42-150 ±3                                   | 89                      | 15   | 8/                        | 10 x 23 x 10                     | Opt.                                 | Steel             | 21                        | 279.00 Each       |                |
|                                  | MS1                             | Powered Bandpass Subwoof.                               | 7                       |                           |               |                          |              |  | 38-100 ±3                                   | 65                      | 85   | 8/                        | 10 x 12 x 14                     | Opt.                                 | Steel             | 25                        | 599.00 Each       |                |
|                                  | MS2                             | Powered Bandpass Subwoof.                               | 8                       |                           |               |                          |              |  |   | 85                      | 150  | 8/                        | 12 x 17 x 14                     | Opt.                                 | Steel             | 40                        | 799.00 Each       |                |
|                                  | MS3                             | Powered Bandpass Subwoof.                               | 10                      |                           |               |                          |              |  |   | 150                     | Inc.   | 8/                        | 17 x 17 x 17                     | Opt.                                 | Steel             | 75                        | 999.00 Each       |                |
|                                  | SW2                             | In-Floor/Ceiling Subwoof.                               | 10                      |                           |               |                          |              |  | 32-100 ±3                                   | 87                      | 20   | 8/                        |                                  | Blk.                                 | Steel             | 48                        | 449.00 Each       |                |
|                                  | S500                            | Ac. Sus.  | 5                       |                           |               | 1                        | Dome         |  | 60-23 ±3                                    | 88                      | 20   | 8/                        | 10 x 6 x 7                       | Satin Blk.                           | Blk. Steel        | 12                        | 529.00 Pair       |                |
|                                  | S600                            | Ac. Sus.  | 6                       |                           |               | 1                        | Dome         |  | 50-23 ±3                                    | 88                      | 20   | 8/                        | 13 x 7 x 8                       | Satin Blk.                           | Blk. Steel        | 14                        | 649.00 Pair       |                |
|                                  | S700                            | Ac. Sus.  | 7 3/4                   |                           |               | 1                        | Dome         |  | 40-23 ±3                                    | 88                      | 20   | 8/                        | 17 x 9 x 10                      | Satin Blk.                           | Blk. Steel        | 22                        | 799.00 Pair       |                |
|                                  | L200e                           | Ac. Sus.  | 4                       |                           |               | 1                        | Dome         |  | 85-23 ±3                                    | 88                      | 10   | 8/                        | 7 x 4 x 5                        | Blk. Opt.                            | Steel Opt., Steel | 6                         | 399.00 Pair       |                |
|                                  | L300e                           | Ac. Sus.  | 5 1/4                   |                           |               | 1                        | Dome         |  | 68-23 ±3                                    | 90                      | 10   | 8/                        | 9 x 6 x 6                        | Opt.                                 | Steel Opt., Steel | 10                        | 499.00 Pair       |                |
|                                  | L400e                           | Ac. Sus.  | 7                       |                           |               | 1                        | Dome         |  | 60-23 ±3                                    | 90                      | 10   | 8/                        | 12 x 8 x 8                       | Opt.                                 | Steel Opt., Steel | 13                        | 599.00 Pair       |                |
|                                  | AW4                             | Indoor/Outdoor; Ac. Sus.                                | 4                       |                           |               | 1                        | Dome         |  | 85-23 ±3                                    | 87                      | 15   | 8/                        | 8 x 4 x 5                        | Opt.                                 | Steel Opt., Steel | 5                         | 379.00 Pair       |                |
|                                  | C300i/s                         | In-Wall; Inf. Baf.                                      | 5 1/4                   |                           |               | 1                        | Dome         |  | 50-23 ±3                                    | 88                      | 10   | 8/                        | 9 x 7 x 3                        | Wht.                                 | Wht. Steel        | 6                         | 399.00 Pair       |                |
|                                  | C400i/s                         | In-Wall; Inf. Baf.                                      | 6 1/2                   |                           |               | 1                        | Dome         |  | 42-23 ±3                                    | 90                      | 10   | 8/                        | 11 x 7 x 3                       | Wht.                                 | Wht. Steel        | 6                         | 499.00 Pair       |                |
|                                  | 750i/L                          | In-Wall; Inf. Baf.                                      | 7 3/4                   | 1 1/2                     | Dome          | 1                        | Dome         |  | 40-23 ±3                                    | 91                      | 15   | 8/                        | 18 x 10 x 4                      | Wht.                                 | Wht. Steel        | 16                        | 999.00 Pair       |                |
| 500i/r                           | In-Wall                         | 6 1/2   |                         |                           | 5             | Ribbon                   |              |  |   |                         | 8/   | 11 x 14                   | Wht.                             | Wht. Steel                           |                   | 749.00 Pair               |                   |                |
| 700i/r                           | In-Wall                         | 8   |                         |                           | 7             | Ribbon                   |              |  |   |                         | 8/   | 13 x 16                   | Wht.                             | Wht. Steel                           |                   | 849.00 Pair               |                   |                |
| ADVANCED AKUSTIC                 | 101 MkIV Micro Reference        | QB3 Vented  | 5                       |                           |               | 1 1/2                    | Dome         | No   | 50-24 ±2                                    | 87                      | 50   | 2.7k                      | 8/4                              | 13 x 7 x 9                           | Opt., Wood        | Blk. Mtl.                 | 25                | 1600.00 Pair   |
|                                  | 201 MkIV Compact Monitor        | Aperiodic   | 7                       |                           |               | 1 1/2                    | Dome         | No   | 45-20 ±2                                    | 86                      | 50   | 3.15k                     | 8/6                              | 15 x 9 x 11                          | Opt., Wood        | Blk. Mtl.                 | 35                | 1400.00 Pair   |
|                                  | 401 MkIV Akustic Monitor        | Aperiodic   | (2)7                    |                           |               | 1 1/2                    | Dome         | No   | 40-24 ±2                                    | 90                      | 50   | 3.15k                     | 4/3                              | 37 x 9 x 11                          | Opt., Wood        | Blk. Mtl.                 | 65                | 2400.00 Pair   |
|                                  | 701 MkIV Reference Monitor      | QB3 Vented  | 9                       |                           |               | 1 1/2                    | Dome         | No   | 35-24 ±2                                    | 90                      | 50   | 2.25k                     | 8/6                              | 40 x 10 x 13                         | Opt., Wood        | Blk. Mtl.                 | 75                | 2600.00 Pair   |
|                                  | 801 MkIV Reference Monitor      | B6 Vented   | (2)9                    |                           |               | 1 1/2                    | Dome         | No   | 30-24 ±2                                    | 92                      | 50   | 2.25k                     | 4/3                              | 50 x 11 x 16                         | Opt., Wood        | Blk. Mtl.                 | 110               | 3800.00 Pair   |
|                                  | 1001 MkIV Akustic Reference     | Aperiodic   | (2)12                   | (2)5                      | Cones         | 1 1/2                    | Dome         | No   | 25-24 ±2                                    | 92                      | 100  | 115,2.7k                  | 4/2                              | 62 x 14 x 22                         | Opt., Wood        | Blk. Mtl.                 | 250               | 8000.00 Pair   |
|                                  | 1001 MkIV PPIS Reference        | Push-Pull Isobarik                                      | (4)12                   | (2)5                      | Cones         | 1 1/2                    | Dome         | No   | 20-24 ±2                                    | 92                      | 100  | 115,2.7k                  | 4/2                              | 62 x 14 x 22                         | Opt., Wood        | Blk. Mtl.                 | 350               | 11,000.00 Pair |
|                                  | Standard MkIV Compact Subwoofer | B6 Vented Subwoof.                                      | 9                       |                           |               |                          |              | W  | 30-200 ±2                                   | 90                      | 50   | 115, Opt.                 | 8/6                              | 24 x 11 x 16                         | Opt., Wood        | Blk. Mtl.                 | 75                | 1400.00 Pair   |
|                                  | MkIV Reference Subwoofer        | Aperiodic Subwoof.                                      | 12                      |                           |               |                          |              | W  | 25-200 ±2                                   | 90                      | 100  | 115, Opt.                 | 8/6                              | 26 x 14 x 22                         | Opt., Wood        | Blk. Mtl.                 | 110               | 2400.00 Pair   |
|                                  | MkIV PPIS Reference Subwoofer   | Push-Pull Isobarik Subwoof.                             | (2)12                   |                           |               |                          |              | W  | 20-200 ±2                                   | 90                      | 100  | 115, Opt.                 | 4/3                              | 26 x 14 x 22                         | Opt., Wood        | Blk. Mtl.                 | 150               | 3600.00 Pair   |
|                                  | Dynaudio Gemini                 | QB3 Vented  | (2)5                    |                           |               | 1 1/2                    | Dome         | No   | 50-24 ±3                                    | 90                      | 50   | 2.7k                      | 4/2                              | 22 x 7 x 10                          | Opt., Wood        | Blk. Mtl.                 | 50                | 2400.00 Pair   |
|                                  | Dynaudio Foccus                 | Vented  | 7                       |                           |               | 1 1/2                    | Dome         | No   | 45-20 ±3                                    | 88                      | 50   | 3.15k                     | 6/3                              | 16 x 9 x 11                          | Opt., Wood        | Blk. Mtl.                 | 30                | 1500.00 Pair   |
|                                  | Dynaudio Twynn                  | Aperiodic   | (2)7                    |                           |               | 1 1/2                    | Dome         | No   | 40-24 ±3                                    | 90                      | 50   | 3.15k                     | 4/3                              | 40 x 9 x 12                          | Opt., Wood        | Blk. Wood                 | 65                | 2200.00 Pair   |
|                                  | Dynaudio Aries                  | Sealed  | 8                       |                           |               | 1 1/2                    | Dome         | No   | 40-20 ±3                                    | 88                      | 50   | 2.7k                      | 6/3                              | 40 x 9 x 11                          | Opt., Wood        | Blk. Wood                 | 50                | 1800.00 Pair   |
|                                  | Dynaudio Myrage                 | Vented  | (2)10                   | (2)3                      | Domes         | 1 1/2                    | Dome         | No   | 35-24 ±3                                    | 92                      | 100  | 500,2.5k                  | 4/2                              | 51 x 11 x 11                         | Opt., Wood        | Blk. Mtl.                 | 120               | 5600.00 Pair   |
| ADVANCED ELECTRO-DYNAMIC SYSTEMS | Cybele DLS73                    | Bass Ref.   | 8                       |                           |               | 2                        | Cyl.         |  | 35-22 ±3                                    | 86                      | 30   | 1.5k                      | 8/7                              | 44 x 15 x 11                         | Blk. Cloth        | Blk. Knit                 | 60                | 1200.00 Pair   |

# LOUDSPEAKERS

| MANUFACTURER          | Model                                 | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Super Tweeter=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish         | Grille Color and Material | Weight, Lbs. Each | Price, \$    |             |
|-----------------------|---------------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|----------------|---------------------------|-------------------|--------------|-------------|
| ADVANCED SOUND        | Bi Polar Satellite                    | Bipolar Sat.  | (2)8                    | 4½                        | Cone          | 1,1¼                     | Domes        | No   | 150-22 ±3                                   | 94                      | 200  | 150,1k, 5k,12k 150        | 6/4                              | 50 x 30 x 6                          | Opt., Wood     | Opt., Knit                | 180               | 9000.00 Pair |             |
|                       | Bi Polar Amplified Subwoofer Ziggurat | Powered Subwoof.  | (4)10                   |                           |               |                          | W            |  | 30-150 ±3                                   | 94                      | 160 Inc.                                     | 3/4                       | 50 x 20 x 28                     | Opt., Wood                           | Opt., Knit     | 300                       | 6500.00 Pair      |              |             |
|                       | Campanile I                           | Time Aligned, Tuned Port                                | 12                      | 8                         | Cone          | 3                        | Dome         | M/T  | 32-20 ±3                                    | 91                      | 200  | 900,6k                    | 6/8                              | 41 x 17 x 15                         | Opt., Wood     | Opt., Knit                | 150               | 3500.00 Pair |             |
|                       | Campanile II                          | Tuned Port  | (2)8                    | 4½                        | Cone          | 3                        | Dome         | M/T  | 38-20 ±3                                    | 92                      | 100  | 300,2.5k                  | 6/4                              | 36 x 13 x 13                         | Opt., Wood     | Opt., Knit                | 95                | 2000.00 Pair |             |
|                       | Monolith 12P                          | Powered Tuned Port, Subwoof.                            | (2)10                   | 8                         | Cone          | 3                        | Dome         | M/T  | 35-22 ±3                                    | 93                      | 200  | 300,2.5k                  | 4/3                              | 49 x 13 x 20                         | Opt., Wood     | Opt., Knit                | 130               | 4000.00 Pair |             |
|                       | Monolith 12                           | Tuned Port, Subwoof.                                    | 12                      |                           |               |                          | W            |  | 32-150 ±3                                   | 91                      | 100 Inc.                                     | 150                       | 6/8                              | 22 x 20 x 20                         | Opt., Wood     | Opt., Knit                | 130               | 2000.00 Pair |             |
|                       | Monolith 10P                          | Powered Tuned Port, Subwoof.                            | 12                      |                           |               |                          | No           |  | 32-150 ±3                                   | 91                      | 100  | 150                       | 6/8                              | 22 x 20 x 20                         | Opt., Wood     | Opt., Knit                | 110               | 1200.00 Pair |             |
|                       | Monolith 10                           | Tuned Port, Subwoof.                                    | 10                      |                           |               |                          | W            |  | 32-150 ±3                                   | 91                      | 100 Inc.                                     | 150                       | 6/8                              | 22 x 20 x 20                         | Opt., Wood     | Opt., Knit                | 125               | 1800.00 Pair |             |
|                       | Cornerstone Bookshelf                 | Sat.  | (2)4½                   |                           |               | 3                        | Dome         | No   | 120-20 ±3                                   | 94                      | 35   | 6k                        | 4/6                              | 18 x 8 x 12                          | Opt., Wood     | Opt., Knit                | 30                | 600.00 Pair  |             |
|                       | Cornerstone 12SP                      | Powered Tuned Port, Stereo Subwoof.                     | 12                      |                           |               |                          | (2)W         |  | 38-150 ±3                                   | 89                      | (2) 80 Inc.                                  | 150                       | 4/3                              | 22 x 20 x 20                         | Opt., Wood     | Opt., Knit                | 130               | 1200.00 Each |             |
| Cornerstone 4/8SP     | Powered Tuned Port, Stereo Subwoof.   | (4)8  |                         |                           |               | (2)W                     |              | 45-150 ±3  | 94  | (2) 80 Inc.             | 150  | 4/3                       | 22 x 20 x 20                     | Opt., Wood                           | Opt., Knit     | 145                       | 1350.00 Each      |              |             |
| Cornerstone 12S       | Tuned Port, Stereo Subwoof.           | 12  |                         |                           |               | No                       |              | 38-150 ±3  | 89  | 100                     | 150  | 4/3                       | 22 x 20 x 20                     | Opt., Wood                           | Opt., Knit     | 115                       | 800.00 Each       |              |             |
| Cornerstone 4/8S      | Tuned Port, Stereo Subwoof.           | (4)8  |                         |                           |               | No                       |              | 45-150 ±3  | 94  | 100                     | 150  | 4/3                       | 22 x 20 x 20                     | Opt., Wood                           | Opt., Knit     | 115                       | 800.00 Each       |              |             |
| ADVENT                | Heritage                              | Ac. Sus.  | (2)8                    |                           |               | 1                        | Dome         |  | 42-23 ±3                                    | 89.5                    | 10   | 3.5k                      | 8/4                              | 38 x 10 x 13                         | Oil, Pecan     | Brn. Knit                 | 45                | 699.95 Pair  |             |
|                       | Legacy III                            | Ac. Sus.  | 10                      |                           |               | 1                        | Dome         |  | 40-23 ±3                                    | 90                      | 10   | 2.5k                      | 8/6                              | 32 x 14 x 10                         | Oil, Pecan     | Bk. Cloth                 | 42                | 450.00 Pair  |             |
|                       | Mini Advent                           | Ac. Sus.  | 5¼                      |                           |               | ½                        | Dome         |  | 110-21 ±3                                   | 88                      | 10   | 4.5k                      | 6/4                              | 11 x 6 x 5                           | Pecan          | Brn. Knit                 | 10                | 179.00 Pair  |             |
|                       | Mini Advent Subwoofer III             | Ac. Sus.; Subwoof.                                      | (2)6½                   |                           |               |                          |              |  | 50-180 ±3                                   | 91                      | 10   | 180                       | 6/4                              | 13 x 15 x 8                          | Pecan Bk. Vnl. | Brn. Knit                 | 20                | 199.00 Each  |             |
|                       | Baby III                              | Ac. Sus.  | 6½                      |                           |               | ½                        | Dome         |  | 60-21 ±3                                    | 89                      | 10   | 4.5k                      | 8/4                              | 16 x 11 x 6                          | Oak            | Brn. Knit                 | 13                | 229.00 Pair  |             |
|                       | Video Shielded                        | A/V; Ac. Sus.   | 8                       |                           |               | ¾                        | Dome         |  | 45-23 ±3                                    | 89                      | 10   | 3k                        | 8/6                              | 28 x 10 x 9                          | Bk. Oak        | Bk. Cloth                 | 25                | 379.00 Pair  |             |
|                       | Prodigy Tower                         | Ac. Sus.  | 8                       |                           |               | ½                        | Dome         |  | 45-23 ±3                                    | 89                      | 10   | 3k                        | 8/4                              | 28 x 10 x 9                          | Pecan          | Brn. Knit                 | 25                | 349.95 Pair  |             |
|                       | Prodigy Tower II                      | Ac. Sus.  | 5¼                      |                           |               | ½                        | Dome         |  | 110-21 ±3                                   | 88                      | 10   | 4.5k                      | 8/4                              | 11 x 6 x 5                           | Pecan          | Brn. Knit                 | 10                | 179.00 Pair  |             |
|                       | Indoor/Outdoor                        | Ac. Sus.  | 5¼                      |                           |               | ½                        | Dome         |  | 45-23 ±3                                    | 89                      | 10   | 3k                        | 8/4                              | 28 x 10 x 9                          | Pecan          | Brn. Knit                 | 25                | 349.95 Pair  |             |
|                       | Mini II                               | Ac. Sus.  | 5¼                      |                           |               | ½                        | Dome         |  | 110-21 ±3                                   | 88                      | 10   | 4.5k                      | 8/4                              | 11 x 6 x 5                           | Pecan          | Brn. Knit                 | 10                | 179.00 Pair  |             |
|                       | Laureate                              | Ac. Sus.  | (2)6½                   |                           |               | 1                        | Dome         |  | 42-23 ±3                                    | 90                      | 10   | 3k                        | 8/4                              | 38 x 9 x 12                          | Bk./Pecan      | Brn. Knit                 | 46                | 549.95 Pair  |             |
|                       | Bookshelf I                           | Bass Ref.   | 5¼                      |                           |               | ½                        | Dome         |  | 80-20 ±3                                    | 89                      |  | 4.5k                      | 8/6                              | 13 x 8 x 8                           | Wood           | Bk. Knit                  |                   | 129.00 Pair  |             |
|                       | In-Wall Gallery Series                | In-Wall   | 6½                      |                           |               | ½                        | Dome         |  | 60-21 ±3                                    | 89                      | 10   | 4.5k                      | 6/4                              | 13 x 9                               |                | Bk.                       |                   |              | 299.00 Pair |
|                       | In-Wall Mini Gallery Series           | In-Wall   | 5¼                      |                           |               | ½                        | Dome         |  | 80-21 ±3                                    | 87                      | 10   | 4.5k                      | 8/6                              | 12 x 9                               | Wht.           |                           |                   |              | 199.00 Pair |
|                       | Audio Focus                           | Ctr. Ch.  | (2)4                    |                           |               | ½                        | Dome         |  | 80-20 ±3                                    | 92                      | 10   | 8/                        | 8/                               | 6 x 13 x 6                           | Bk. Vnl.       | Bk.                       | 6                 | 129.00 Each  |             |
|                       | Audio Cinema                          | Ctr. Ch.  | (2)5¼                   |                           |               | ½                        | Dome         |  | 60-20 ±3                                    | 91                      | 10   | 8/                        | 8/                               | 6 x 18 x 6                           | Bk. Vnl.       | Bk.                       | 10                | 189.00 Each  |             |
|                       | Powered Partner AV22                  | Powered Ac. Sus.  | 2½                      |                           |               |                          |              |  | 100-20 ±3                                   | 95                      | Inc.   | 20k                       | 20k                              | 6 x 4 x 3                            | Opt.           | Opt.                      |                   | 109.00 Pair  |             |
| Powered Partner AV42  | Powered Ac. Sus.                      | (2)2½   |                         |                           |               |                          |              | 80-20 ±3   | 102   | Inc.                    | 20k  | 20k                       | 9 x 4 x 3                        | Opt.                                 | Opt.           |                           | 229.00 Pair       |              |             |
| Powered Partner AV570 | Powered Ac. Sus.                      | 5   |                         |                           | 1             | Dome                     |              | 40-25 ±3   | 109   | Inc.                    | 20k  | 20k                       | 11 x 6 x 8                       | Opt.                                 | Opt.           |                           | 399.00 Pair       |              |             |
| Powered Partner AV522 | Powered Ac. Sus.; Subwoof.            | 6   |                         |                           |               |                          |              | 50-200 ±3  | 106   | Inc.                    | 20k  | 20k                       | 6 x 16 x 14                      |                                      |                |                           | 249.00 Each       |              |             |
| Powered Partner AV622 | Powered Ac. Sus.; Sat. & Subwoof.     | 6   |                         |                           | 2½            |                          |              | 50-20 ±3   | 106   | Inc.                    | 20k  | 20k                       | Three Pieces                     | Bk.                                  | Bk.            |                           | 349.00 Sys.       |              |             |
| Powered Subwoofer     | Powered Subwoof.                      | 10  |                         |                           |               |                          |              | 35-200 ±3  |   | Inc.                    | Var.   |                           | 15 x 15 x 15                     | Opt.                                 |                |                           | 449.00 Each       |              |             |
| AERIAL ACOUSTICS      | 10T                                   | Vented  | 10½                     | 5¼                        | Cone          | 1                        | Dome         |  | 28-22 ±2                                    | 86                      | 100  | 360,2.7k                  | 4/3                              | 42 x 13 x 19                         | Opt., Wood     | Bk. Foam                  | 110               | 4995.00 Pair |             |
|                       | 7                                     | Vented  | 9                       |                           |               | 1                        | Dome         |  | 35-22 ±2                                    | 86                      | 50   | 2.2k                      | 4/3                              | 41 x 10 x 14                         | Opt., Wood     | Bk. Cloth                 | 80                | 2795.00 Pair |             |
|                       | 5                                     | Ac. Sus.  | 7                       |                           |               | 1                        | Dome         |  | 60-22 ±3                                    | 85                      | 50   | 2.5k                      | 4/3                              | 13 x 8 x 10                          | Opt., Wood     | Bk. Foam                  | 25                | 1595.00 Pair |             |
| AES                   | AES-25M                               | In-Wall   | 5¼                      |                           |               |                          |              |  | 70-18                                       | 88                      | 10   |                           | 16/8                             | 12 x 8 x 3                           | Wht. Plast.    | Wht. Steel                | 5                 | 79.95 Each   |             |
|                       | AES-30R                               | In-Wall   | 5¼                      |                           |               |                          |              |  | 70-18                                       | 88                      | 10   |                           | 16/8                             | 12 x 8 x 3                           | Wht. Plast.    | Wht. Steel                | 5                 |              |             |
|                       | AES-50S                               | In-Wall   | 5¼                      |                           |               | ¾                        | Dome         |  | 70-20                                       | 90                      | 10   | 3k                        | 8/4                              | 12 x 8 x 3                           | Wht. Plast.    | Wht. Steel                | 5                 | 99.95 Each   |             |
|                       | AES-100S                              | In-Wall   | 6½                      |                           |               | ¾                        | Dome         |  | 55-20                                       | 90                      | 10   | 3k                        | 8/4                              | 12 x 8 x 3                           | Wht. Plast.    | Wht. Steel                | 6                 | 124.95 Each  |             |
|                       | AES-200S                              | In-Wall   | 6½                      |                           |               | 1                        | Dome         |  | 40-20                                       | 90                      | 10   | 2.5k                      | 8/4                              | 12 x 8 x 3                           | Wht. Plast.    | Wht. Steel                | 8                 | 179.95 Each  |             |
|                       | AES-300W                              | In-Wall; Subwoof.                                       | 6x9                     |                           |               |                          |              |  | 28-90                                       | 90                      | 10   | 90                        | 8/4                              | 12 x 8 x 3                           | Wht. Plast.    | Wht. Steel                | 9                 | 229.95 Each  |             |
|                       | AES-400W                              | In-Wall; Subwoof.                                       | 6x9                     |                           |               |                          |              |  | 28-90                                       | 90                      | 10   | 90                        | 8/4                              | 12 x 8 x 3                           | Wht. Plast.    | Wht. Steel                | 9                 | 295.00 Each  |             |
| ALIANTE               | One                                   | Vented  | 6½                      |                           |               | 1                        | Dome         |  | 45-32 ±3                                    | 87.5                    | 30   | 3.5k                      | 8/6.5                            | 12 x 14 x 16                         | Wal.           | Bk. Knit                  | 30                | 3000.00 Pair |             |
|                       | AL-105                                | Ac. Sus.  | 6                       |                           |               | 1                        | Dome         |  | 58-18 ±3                                    | 90                      | 15   | 2.5k                      | 6/                               | 15 x 10 x 8                          | Opt.           | Bk. Knit                  | 13                | 149.95 Each  |             |
|                       | AL-110                                | Ac. Sus.  | 6                       |                           |               | 1                        | Inv. Cone    |  | 54-21 ±3                                    | 90                      | 15   | 2k                        | 6/                               | 15 x 10 x 9                          | Opt.           | Bk. Knit                  | 16                | 179.95 Each  |             |
|                       | AL-115                                | Ac. Sus.  | 8                       |                           |               | 1                        | Inv. Cone    |  | 41-21 ±3                                    | 90                      | 15   | 2k                        | 6/                               | 20 x 11 x 9                          | Opt.           | Bk. Knit                  | 22                | 229.95 Each  |             |
|                       | AL-120                                | Ac. Sus.  | (2)6                    |                           |               | 1                        | Inv. Cone    |  | 52-21 ±3                                    | 90                      | 15   | 100,2k                    | 6/                               | 24 x 11 x 11                         | Opt.           | Bk. Knit                  | 33                | 329.95 Each  |             |
|                       | AL-125                                | Ac. Sus.  | (2)6                    | 3½                        | Inv. Cone     | 1                        | Inv. Cone    |  | 48-21 ±3                                    | 90                      | 15   | 450,4k                    | 6/                               | 31 x 11 x 12                         | Opt.           | Bk. Knit                  | 40                | 479.95 Each  |             |
|                       | AL-130                                | Ac. Sus.  | (2)8                    | 3½                        | Inv. Cone     | 1                        | Inv. Cone    |  | 35-21 ±3                                    | 90                      | 15   | 450,4k                    | 6/                               | 38 x 13 x 14                         | Opt.           | Bk. Knit                  | 57                | 599.95 Each  |             |
| (Continued)           |                                       |   |                         |                           |               |                          |              |  |   |                         |  |                           |                                  |                                      |                |                           |                   |              |             |

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| MANUFACTURER                         | Model                        | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type      | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls: Woofer-W, Midrange-M, Tweeter-T, Super-Tweeter-ST | Appetich Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish           | Grille Color and Material | Weight, Lbs. Each | Price, \$                     |
|--------------------------------------|------------------------------|---|-------------------------|---------------------------|--------------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------------|---------------------------|-------------------|-------------------------------|
| ALLISON ACOUSTICS (Continued)        | PD-8.3                       | Ac. Sus.  | (2)8                    | 4                         | Cone               | 1                        | Inv. Cone    |  | 35-21 ±3                                    | 89                      | 100  | 450,4k                    | 6/                               | 34 x 14 x 12                         | Pecan            | Brn. Cloth                | 67                | 899.95 Each                   |
|                                      | PD-12.4                      | Ac. Sus.  | 8.12                    | 4                         | Cone               | 1                        | Inv. Cone    |  | 22-21 ±3                                    | 89                      | 100  | 80,450,4k                 | 6/                               | 45 x 15 x 15                         | Pecan            | Brn. Cloth                | 94                | 1439.95 Each                  |
|                                      | AV-200/MS-200                | Home Th., Sat.  | 4                       |                           |                    | 1                        | Inv. Cone    |  | 90-22 ±5                                    | 90                      | 10   | 4k                        | 8/                               | 10 x 6 x 5                           | Opt.             | Brn. Cloth Blk.           | 6                 | From 199.95 Pair              |
|                                      | AV-202/MS-202                | Home Th., Ctr. Ch.                                      | (2)3                    |                           |                    | 1                        | Dome         |  | 90-22 ±5                                    | 86                      | 10   | 4.5k                      | 8/                               | 5 x 19 x 11                          | Opt.             | Blk.                      | 10                | From 129.95 Each              |
|                                      | NL-654                       | Home Th., Sat. or Ctr. Ch.                              | 6                       |                           |                    | 1                        | Inv. Cone    |  | 58-20 ±3                                    | 90                      | 15   | 2.5k                      | 6/                               | 10 x 8 x 14                          | Blk.             | Blk. Knit                 | 12                | From 279.95 Each              |
|                                      | NL-1440                      | Home Th., Sat. or Ctr. Ch.                              | 8                       |                           |                    | 1                        | Inv. Cone    |  | 41-20 ±3                                    | 90                      | 15   | 2k                        | 6/                               | 11 x 10 x 19                         | Blk.             | Blk. Knit                 | 20                | 329.95 Each                   |
|                                      | AV-W4/MS-W4                  | Home Th., Subwoof.                                      | 8                       |                           |                    |                          |              |  | 40-200 ±5                                   | 86                      | 20   | 200                       | 4/                               | 11 x 11 x 11                         | Opt.             | Blk.                      | 16                | From 159.95 Each              |
|                                      | NL-5400 MS-10P               | Home Th., Subwoof. Powered Subwoof.                     | 12<br>10                |                           |                    |                          |              |  | 28-90<br>32-150 ±3                          | 89<br>90                | 35<br>100                                    | 80<br>50-100              | 8/                               | 19 x 19 x 22<br>16 x 16 x 16         | Blk.<br>Blk.     |                           | 65<br>47          | 459.95 Each<br>547.95 Each    |
| ALÓN                                 | V                            | Inf. Baf.   | 10                      | 5                         | Dipole Cone        | 1                        | Dipole Dome  | No   | 34-25 ±3                                    | 87                      | 75   | 400,3.5k                  | 8/4                              | 49 x 12 x 15                         | Opt.             | Blk.                      | 90                | 4800.00 Pair                  |
|                                      | IV                           | Inf. Baf.   | 12                      | 5                         | Cone               | 1                        | Dome         | No   | 29-25 ±3                                    | 87                      | 100  |                           | 8/3                              | 46 x 15 x 18                         | Opt., Wood       | Opt., Knit                | 105               | 3500.00 Pair                  |
|                                      | II                           | Inf. Baf.   | 10                      | 5                         | Cone               | 1                        | Dome         | No   | 39-25 ±3                                    | 87                      | 100  |                           | 8/4                              | 40 x 11 x 13                         | Opt., Wood       | Opt., Knit                | 60                | 1950.00 Pair                  |
|                                      | I                            | Air Sus.  | 8                       | 4½                        | Dipole Cone        | ¾                        | Dome         | No   | 49-25 ±3                                    | 87                      | 50   | 500,3.5k                  | 8/4                              | 38 x 9 x 13                          | Opt., Oak        | Blk.                      | 40                | 1290.00 Pair                  |
|                                      | C1 Phalanx                   | Bipolar, Ctr. Ch. Inf. Baf.                             | (2)5<br>10              | (6)5                      | Cones, Dipole Cone | (2)1<br>1                | Dipole Dome  | No   | 80-25 ±3<br>32-25 ±3                        | 87<br>87                | 50<br>140                                    | 3.5k<br>125,400, 3.5k     | 8/4<br>8/4                       | 7 x 15 x 9<br>58 x 13 x 18           | Blk. Ash<br>Opt. | Blk. Blk.                 | 20<br>140         | 600.00 Each<br>20,000.00 Pair |
|                                      | C2/C2S                       | Air Sus.  | 8                       | 5                         | Dipole Cone        | 1                        | Dome         | No   | 49-25 ±3                                    | 87                      | 50   | 400,3.5k                  | 8/4                              | 25 x 22 x 13                         | Blk. Ash         | Blk.                      | 45                | From 1200.00 Pair             |
|                                      | SW1                          | Isobaric Subwoof.                                       | (2)12                   |                           |                    |                          |              | No   | 25-500 ±3                                   | 87                      | 100  |                           | 4/2                              | 16 x 25 x 25                         | Blk. Ash         |                           | 80                | 990.00 Each                   |
| ALTEC LANSING                        | 75                           | Ac. Sus., Ctr. Ch.                                      | 5¼                      |                           |                    | ½                        | Dome         |  | 50-20 ±3                                    | 89                      | 10   | 4k                        | 8/                               | 10 x 6 x 7                           | Opt., Vnl.       | Blk. Knit                 | 9                 | 80.00 Each                    |
|                                      | 120                          | Home Th., Dipole  | 5¼                      | (2)3                      |                    | ¾                        | Dome         |  | 100-7 ±3                                    | 88                      | 10   | 400                       | 8/                               | 12 x 8 x 6                           | Blk. Vnl.        | Blk. Knit                 | 10                | 250.00 Pair                   |
|                                      | 220                          | Home Th., Ac. Sus.                                      | 5¼                      |                           |                    | ¾                        | Dome         |  | 70-20 ±3                                    | 88                      | 10   | 3k                        | 8/                               | 21 x 8 x 10                          | Blk. Vnl.        | Blk. Knit                 | 10                | 350.00 Pair                   |
|                                      | 520                          | Home Th., Ac. Sus.                                      | (2)5¼                   |                           |                    | ¾                        | Dome         |  | 50-20 ±3                                    | 91                      | 10   | 3k                        | 8/                               | 35 x 8 x 10                          | Blk. Vnl.        | Blk. Knit                 | 15                | 750.00 Pair                   |
|                                      | SW8                          | Subwoof.  | 8                       |                           |                    |                          |              |  | 35-250 ±3                                   | 90                      | 10   | 180                       | 6/                               | 10 x 14 x 11                         | Opt., Vnl.       | Blk. Knit                 | 25                | 150.00 Each                   |
|                                      | PSW10                        | Powered Subwoof.  | 10                      |                           |                    |                          |              |  | 26-180                                      | 90                      |  | 50,80, 100,150 120,3.5k   |                                  | 17 x 17 x 17                         | Opt.             | Blk.                      | 62                | 850.00 Each                   |
|                                      | ACS300.1                     | Computer Sat. & Subwoof.                                | (2)4                    | 4                         |                    | ½                        | Dome         | (2)W, T  | 35-20 ±3                                    | 90                      |  |                           |                                  | Three Pieces                         |                  |                           | 19                | 350.00 Sys.                   |
|                                      | ACS3                         | Computer Sat. & Subwoof.                                | (2)4                    | 3                         |                    | ½                        | Dome         | W,T  | 40-20 ±3                                    | 88                      |  | 250                       |                                  | Three Pieces                         | Gray             |                           | 15                | 250.00 Sys.                   |
|                                      | ACS150                       | Powered Computer Subwoof.                               | (2)4                    |                           |                    |                          |              |  | 35-250 ±3                                   |                         | Inc.   | 250                       |                                  | 6 x 11 x 7                           | Beige            |                           | 9                 | 150.00 Each                   |
|                                      | ACS100.1                     | Computer Speaker  | 3                       |                           |                    | ½                        | Dome         | W,T  | 80-20 ±3                                    |                         | Inc.   |                           |                                  |                                      | Gray             |                           | 3                 | 150.00 Pair                   |
|                                      | ACS50                        | Powered Computer Speaker                                | 2½x<br>1¼               |                           |                    | ¾                        | Dome         |  | 100-20 ±3                                   |                         | Inc.   |                           |                                  |                                      | Gray<br>Beige    |                           | 2                 | 100.00 Pair                   |
|                                      | AHT-2300                     | THX, Powered Subwoof.                                   | (2)10                   |                           |                    |                          |              |  | 26-180 ±3                                   |                         | Inc.   | 50,80, 100,150            |                                  | 15 x 27 x 19                         | Blk.             |                           | 75                | 1200.00 Each                  |
|                                      | AHT-2200                     | THX, Front  | (2)5¼                   |                           |                    | (2)½                     | Domes        |  | 80-16 ±3                                    | 89                      | 20   | (Adj.) 2.5k               | 8/                               | 16 x 8 x 7                           | Opt.             | Opt., Mesh                | 6                 | 300.00 Each                   |
|                                      | AHT-2100                     | THX, Surround   | (2)4 (4)3               |                           |                    | (2)¾                     | Domes        |  | 80-20                                       | 89                      | 20   | 180,3k, 3.5k              | 4/                               | 15 x 11 x 6                          | Wht.             | Wht. Mesh                 | 23                | 900.00 Pair                   |
|                                      | ITW 265 System 3             | In-Wall; Inf. Baf.; Sat. Sat. & Subwoof.                | 6½ (2)8                 | (2)3                      |                    | ¾<br>½                   | Dome<br>Dome |  | 40-20 ±3<br>32-20 ±3                        | 90<br>90                | 10<br>10                                     | 3.5k<br>180,4.5k          | 6/ 8/                            | 12 x 9 x 4<br>Three Pieces           | Plast. Opt.      | Wht.                      | 10<br>40          | 300.00 Pair<br>600.00 Sys.    |
|                                      | Bias 550                     | Pentamp., Ac. Sus.                                      | (2)10, 8                | 6½, 2                     | Cone, Dome         | 1                        | Dome         | W,M,T  | 20-22 ±2                                    | 90                      | Inc.   | 80,150, 450,1.5k, 4.5k    |                                  | 71 x 19 x 24                         | Wal. Ven.        | Blk. Knit                 | 437               | 12,000.00 Pair                |
|                                      | 511                          | Ac. Sus.  | (2)10                   | 6½, 2                     | Cone, Dome         | 1                        | Dome         |  | 20-22 ±3                                    | 92                      | 50   | 180,1.5k, 3.5k            | 4/                               | 57 x 13 x 14                         | Opt.             | Blk. Knit                 | 110               | 3000.00 Pair                  |
| 510                                  | Ac. Sus.                     | (2)10   | 2                       | Dome                      | 1                  | Dome                     |              | 20-22 ±3   | 92  | 10                      | 550,3.5k                                     | 4/                        | 49 x 12 x 14                     | Opt.                                 | Blk. Knit        | 100                       | 1600.00 Pair      |                               |
| 508                                  | Ac. Sus.                     | (2)8  | 2                       | Dome                      | 1                  | Dome                     |              | 32-22 ±3   | 90.5  | 10                      | 750,3.5k                                     | 6/                        | 40 x 11 x 11                     | Opt.                                 | Blk. Knit        | 63                        | 1100.00 Pair      |                               |
| 100                                  | Ac. Sus.                     | (2)8  | 4                       | Dome                      | ¾                  | Dome                     |              | 38-20  | 91  | 10                      | 250,3.5k                                     | 8/                        | 41 x 11 x 11                     | Opt., Vnl.                           | Blk. Knit        | 30                        | 500.00 Pair       |                               |
| 96                                   | Ac. Sus.                     | (2)6½   |                         |                           | ¾                  | Dome                     |              | 39-20 ±3   | 91  | 10                      | 3.5k   | 8/                        | 32 x 9 x 10                      | Opt., Vnl.                           | Blk. Knit        | 63                        | 400.00 Pair       |                               |
| 95                                   | Ac. Sus.                     | 8   | 4                       | Dome                      | ¾                  | Dome                     |              | 40-20 ±3   | 91  | 10                      | 250,3.5k                                     | 8/                        | 22 x 12 x 9                      | Opt., Vnl.                           | Blk. Knit        | 28                        | 300.00 Pair       |                               |
| 85                                   | Ac. Sus.                     | 6½  |                         |                           | ¾                  | Dome                     |              | 50-20 ±3   | 91  | 10                      | 3.5k   | 8/                        | 17 x 10 x 9                      | Opt., Vnl.                           | Blk. Knit        | 18                        | 200.00 Pair       |                               |
| 66                                   | Indoor/Outdoor, Ctr. Ch.     | (2)6  |                         |                           | ¾                  | Dome                     |              | 45-20  | 90  | 10                      | 3.5k   | 8/                        | 16 x 8 x 7                       | Opt., Mesh                           | Opt., Mesh       | 15                        | 200.00 Each       |                               |
| 56                                   | Indoor/Outdoor               | 5¼  |                         |                           | ¾                  | Dome                     |              | 50-20 ±3   | 89  | 10                      | 4k   | 8/                        | 10 x 8 x 6                       | Opt.                                 | Blk. ABS         | 6                         | 125.00 Pair       |                               |
| 55                                   | Indoor/Outdoor, Ac. Sus.     | 4   |                         |                           | ¾                  | Dome                     |              | 85-20 ±3   | 86  | 10                      | 3.5k   | 6/                        | 9 x 7 x 5                        | Opt.                                 | Blk. ABS         | 6                         | 250.00 Pair       |                               |
| 44                                   | Ctr. Ch.                     | (2)4  |                         |                           | ½                  | Dome                     |              | 80-21 ±3   | 90  | 10                      | 3.5k   | 8/4                       | 5 x 11 x 8                       | Blk.                                 | Mesh Blk. Mesh   | 6                         | 90.00 Each        |                               |
| AMC                                  | WM50                         | In-Wall   | 5½                      |                           |                    | 1                        | Dome         |  | 60-20 ±5                                    |                         |  |                           | 8/                               |                                      |                  |                           |                   | 199.00 Pair                   |
|                                      | WM75                         | In-Wall   | 6½                      |                           |                    | 1                        | Dome         |  | 50-20 ±5                                    |                         |  |                           | 8/                               |                                      |                  |                           |                   | 299.00 Pair                   |
|                                      | WM100                        | In-Wall   | 8                       |                           |                    | 1                        | Dome         |  | 45-20 ±5                                    |                         |  |                           | 8/                               |                                      |                  |                           |                   | 399.00 Pair                   |
|                                      | B1-20                        | Subwoof.  | 8                       |                           |                    |                          |              | W,M,T  | 30-270 +0,-3                                |                         |  | 40-270 (Var.)             |                                  |                                      | Blk. Oak         |                           |                   | 749.95 Each                   |
| AMERICAN POWER AND LIGHT (Continued) | Planar Transducer The Screen | Wall-Mount; Panel                                       | (2) 35x9                |                           |                    | 35x 1½                   | Flat Piston  | W,M,T  | 12-22 ±2                                    | 88                      | 100  | 40                        | 3.2/ 3.2                         | Four Pieces                          | Opt.             | Opt.                      | 300 Sys.          | 12,000.00 Sys.                |
|                                      |                              | 3-Ch.; Wall-Mount; Panel                                | (2) 35x9                |                           |                    | 35x 1½                   | Flat Piston  | W,M,T  | 12-26 ±2                                    | 90                      | 200  | 40                        | 3.2/ 3.2                         | Three Pieces                         | Opt.             | Opt.                      | 500 Sys.          | 16,000.00 Sys.                |
|                                      | Alix                         | Wall-Mount; Trans. Line                                 | 4x8                     |                           |                    | (7)1%                    | Cones        |  | 35-22 ±2                                    | 92                      | 15   | 1.2k,7.6k                 | 3.2/ 3.2                         | 35 x 14 x 4                          | Opt.             | Silk                      | 42                | 2600.00 Pair                  |



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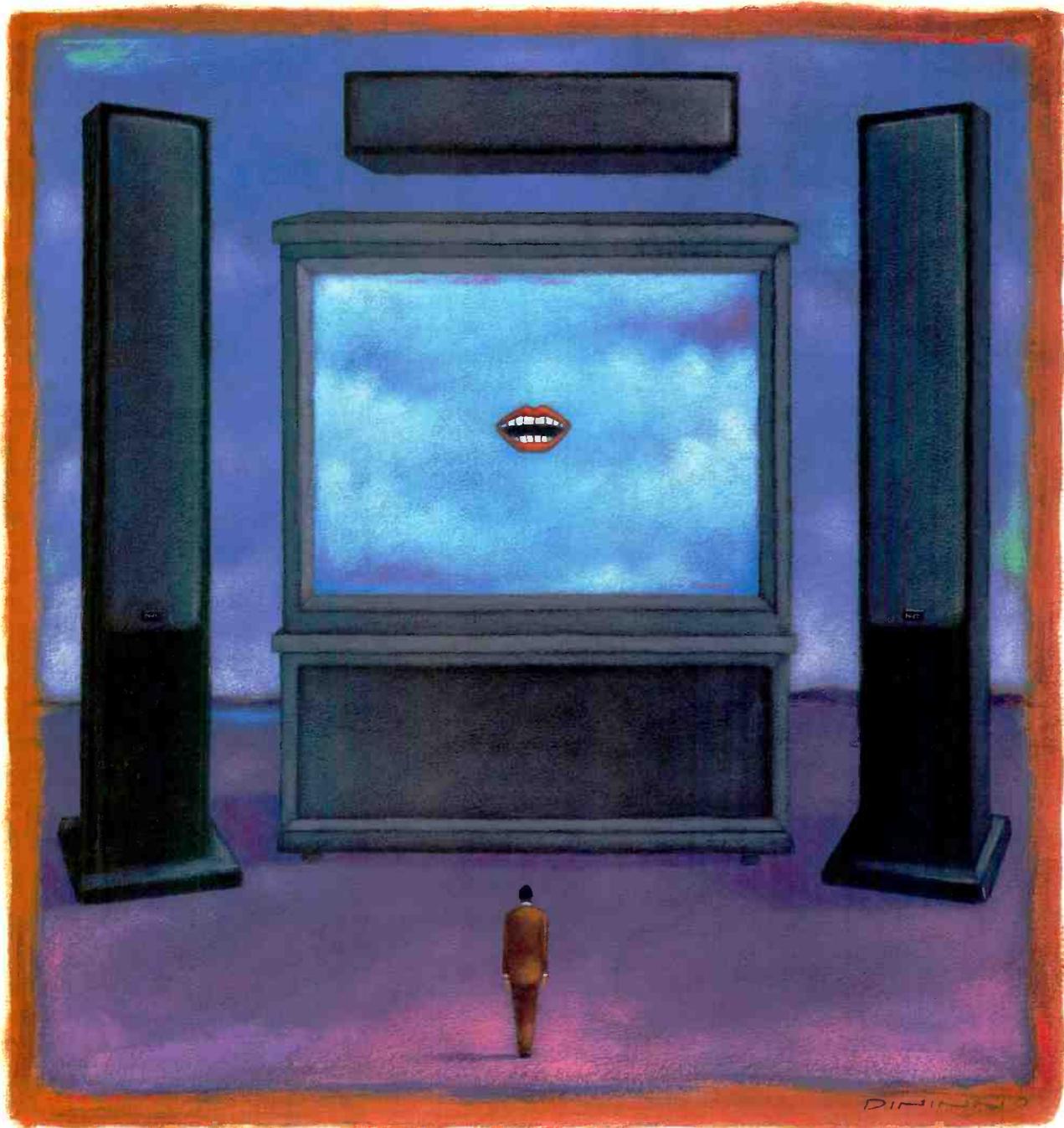
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# LOUDSPEAKERS

| MANUFACTURER                         | Model                        | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer = W, Midrange = M, Tweeter = T, SuperTweeter = ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish                | Grille Color and Material | Weight, Lbs. Each | Price, \$                      |
|--------------------------------------|------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|---|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-----------------------|---------------------------|-------------------|--------------------------------|
| AMERICAN POWER AND LIGHT (Continued) | V Driver Subwoofer           | Opposed-Driver, Stereo Subwoof.                         | (8)8                    |                           |               |                          |              |   | 12-Sel.                                     | 88                      | 200  | 40 Ext.                   | Var.                             | 20 x 20 x 21                         | Opt.                  | Opt.                      | 76                | 1500.00 Each; w/Xover, 2300.00 |
| AMRITA AUDIO                         | The AMRIT-Motif              | Bass Ref.   | 6                       |                           |               | 1                        | Dome         |   | 43-20                                       | 92                      | 7.5  | 4.5k                      | 6/5.5                            | 10 x 9 x 16                          | Opt.                  | Opt.                      | 17                | 545.00 Pair                    |
|                                      | The AMRIT-Logos              | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |   | 35-20                                       | 90                      | 7.5  | 3.2k                      | 7/7                              | 13 x 14 x 20                         | Opt.                  | Opt.                      | 34                | 695.00 Pair                    |
|                                      | The AMRIT-Thunderbird        | Stereo Bandpass Subwoof.                                | (2)10                   |                           |               |                          |              |   | 24-100                                      |                         | 50   |                           | 7/7                              | 17 x 19 x 36                         | Opt.                  | Opt.                      | 96                | From 895.00 Each               |
|                                      | The AMRIT-Reference Standard | Inf. Baf.   | (2)12                   | (2)6½                     | Cones         | 1                        | Dome         | No  | 34-20                                       | 92                      | 30   | 180,4k                    | 4/3.4                            | 49 x 17 x 15                         | Opt.                  | Opt.                      | 110               | 3795.00 Pair                   |
|                                      | The AMRIT-Summit Towers      | Ported  | (2)10                   | 6½                        | Cone          | 1                        | Dome         | No  | 28-20                                       | 91                      | 30   | 180,4k                    | 4/3                              | 42 x 16 x 14                         | Opt.                  | Opt.                      | 85                | 2095.00 Pair                   |
|                                      | The AMRIT-Allegro Towers     | Ported  | 10                      | 3                         | Dome          | ¾                        | Dome         | No  | 32-20                                       | 90                      | 30   | 600,4k                    | 4/3                              | 37 x 17 x 13                         | Opt.                  | Opt.                      | 73                | 1195.00 Pair                   |
|                                      | The AMRIT-HeartLand Towers   | Bass Ref.   | (4)8                    |                           |               | 1                        | Dome         | No  | 31-20                                       | 96                      | 30   | 3.4k                      | 4/2                              | 36 x 13 x 17                         | Opt.                  | Opt.                      | 72                | 1295.00 Pair                   |
|                                      | The AMRIT-MiniMonitors       | Bass Ref.   | (2)8                    |                           |               | 1                        | Dome         | No  | 40-20                                       | 92                      | 30   | 2.5k                      | 4/3                              | 17 x 11 x 12                         | Opt.                  | Opt.                      | 37                | 995.00 Pair                    |
|                                      | The AMRIT-Elan Towers        | Bass Ref.   | 8                       |                           |               | 1                        | Dome         | No  | 36-20                                       | 90                      | 30   | 2k                        | 6/5                              | 35 x 11 x 12                         | Opt.                  | Opt.                      | 50                | 845.00 Pair                    |
|                                      | The AMRIT-Troppo Towers      | Bass Ref.   | 6                       |                           |               | 1                        | Dome         | No  | 46-20                                       | 90                      | 30   | 3.5k                      | 6/5                              | 35 x 10 x 8                          | Opt.                  | Opt.                      | 31                | 645.00 Pair                    |
| The AMRIT-Ariel                      | Ac. Sus.                     | 6   |                         |                           | 1             | Dome                     | No           | 58-20   | 90  | 30                      | 3.5k   | 6/5                       | 15 x 10 x 8                      | Opt.                                 | Opt.                  | 16                        | 495.00 Pair       |                                |
|                                      | Bipolar                      | (2)6½   |                         |                           | (2)1          | Domes                    | No           | 38-20 +3,-5   | 92  | 10                      | 4.5k   | 6/5                       | 35 x 11 x 13                     | Opt.                                 | Blk.                  | 52                        | 995.00 Pair       |                                |
| The AMRIT-Paradiso                   | Tuned Port                   | (2)8  | 3½                      | Dome                      | 1             | Dome                     |              | 24-20 +3,-5   | 90  | 7.5                     | 650,4.5k                                     | 7/4                       | 12 x 16 x 40                     | Opt.                                 | Opt.                  | 72                        | 1645.00 Pair      |                                |
| Kronos Towers                        | M100                         | Vented Sat. Subwoof.                                    | 4                       |                           | ¾             | Dome                     |              |   | 55-21                                       | 90                      | 20   | 3k                        | 8/                               | 8 x 5 x 5                            | Opt.                  | Opt.                      | 3                 | 129.00 Pair                    |
|                                      | CF65                         | AV, Vented  | (2)6½                   |                           | ¾             | Dome                     |              |   | 30-120                                      | 90                      | 50   | 120                       | 8/6                              | 25 x 14 x 11                         | Blk.                  | Blk.                      | 34                | 399.00 Each                    |
|                                      | VM150                        | In-Wall   | 4                       |                           | 1             | Dome                     |              |   | 55-21                                       | 90                      | 20   | 3k                        | 8/                               | 8 x 5 x 5                            | Blk.                  | Blk.                      | 3                 | 169.00 Pair                    |
|                                      | SPO6                         |   | 6½                      |                           | 1             | Dome                     | T            |   | 50-21                                       | 90                      | 20   | 2.2k                      | 8/                               | 12 x 9 x 3                           | Wht.                  | Wht.                      | 4                 | 199.00 Pair                    |
| ANDANTE AUDIO                        | Aphelion                     | Vented  | (2)8¼x11¼               | 2                         | Dome          | ¾                        | Dome         |   |   | 87                      | 100  |                           | 4/                               | 72 x 17 x 15                         | Opt.                  | Blk. Knit                 | 150               | 14,500. Pair                   |
|                                      | Diaphanous                   | Vented  | (2)8                    | 4                         | Cone          | ¾,1                      | Domes        |   |   | 84                      | 100  |                           | 8/                               | 44 x 10 x 9                          | Oak                   | Blk. Knit                 | 70                | 3700.00 Pair                   |
| APOGEE ACOUSTICS                     | Studio Grand                 | Ribbon  | 14x48                   |                           |               | 0.7x48                   | Ribbon       | W,T   | 30-20                                       |                         | 100  | 400                       | 3/                               | 66 x 28 x 3                          | Opt.                  | Opt.                      | 110               | 7500.00 Pair                   |
|                                      | Ribbon Array                 | Ribbon & Slot-Loaded Subwoof.                           | (2)10, 14x48            |                           |               | 0.7x48                   | Ribbon       | SW,W,T  | 20-20                                       |                         | 100  |                           | 3/                               | 29 x 83 x 25                         | Opt.                  | Opt.                      | 195               | 12,600. Pair                   |
|                                      | Studio Grand (w/Remote)      | Powered Ribbon & Subwoof.                               | (2)12, 12x60            | 1.5x60                    | Ribbon        | 0.3x60                   | Ribbon       | SW,W,M,T  | 15-25                                       |                         | 100 Inc.                                     | 70,250,9k                 | 3/                               | 32 x 86 x 38                         | Opt.                  | Blk. Knit                 | 600               | From 80,500. Pair w/ Amps      |
|                                      | Studio Stereo Subwoofer      | Slot Loaded Subwoof.                                    | (2)10                   |                           |               |                          |              | SW  | 20-70                                       |                         | 100  | 70                        | 3/                               | 17 x 29 x 25                         | Gran. Blk.            | Blk. Cloth                | 85                | 3995.00 Pair                   |
|                                      | Stage Subwoofer              | Subwoof.  | (2)8                    |                           |               |                          |              | W   | 20-80                                       |                         | 75   | 60                        | 3/                               | 11 x 27 x 19                         | Gray Paint            | Blk.                      | 55                | 2595.00 Pair                   |
|                                      | Center Channel               | Hybrid; Ctr. Ch.  | (2)6½                   |                           |               | 0.8x16                   | Ribbon       |   | 40-20                                       |                         | 50   | 900                       | 4/                               | 24 x 27 x 6                          | Off-Wht. Paint        | Mtl.                      | 30                | 1195.00 Each                   |
|                                      | Stage                        | Ribbon Dipole   | 12x26                   |                           |               | 0.7x26                   | Ribbon       | T   | 35-20                                       |                         | 50   | 600                       | 4/3                              | 26 x 37 x 2                          | Opt.                  | Fbgls.                    | 60                | 2995.00 Pair                   |
|                                      | Column                       | Ribbon Dipole; Hybrid                                   | 6½                      |                           |               | 0.7x26                   | Ribbon       |   | 35-20                                       |                         | 50   |                           | 6/4                              | 13 x 60 x 10                         | Opt., Knit Blk.       |                           | 76                | 1495.00 Pair                   |
|                                      | Slant 6                      | Ribbon Dipole; Hybrid                                   | 6½                      |                           |               | 0.7x26                   | Ribbon       | W   | 32-20                                       |                         | 50   |                           | 6/4                              | 15 x 53 x 14                         | Blk.                  | Blk. Knit                 | 80                | 1995.00 Pair                   |
|                                      | Slant 8                      | Ribbon Dipole; Hybrid                                   | 8½                      |                           |               | 0.7x40                   | Ribbon       | W   | 26-20                                       |                         | 70   |                           | 6/4                              | 17 x 60 x 17                         | Opt., Knit Wht. Paint | Opt., Knit Opt.           | 120               | 3995.00 Pair                   |
| Ribbin-Wall                          | In- or On-Wall               | 6½  |                         |                           | 0.7x26        | Ribbon                   | W            | 40-20   |   | 50                      | 1.2k   | 6/4                       | 52 x 12 x 3                      |                                      |                       | 40                        | From 1350.00 Pair |                                |
| APOGEE SOUND                         | SSM                          | Vented  | (2)4½                   |                           |               | 1                        | Dome         |   | 85-25 ±3                                    | 90                      | 150  |                           | 16/16                            | 13 x 6 x 6                           | Blk. Epoxy Blk.       | Blk. Foam Blk. Mtl.       | 11                | 550.00 Each                    |
|                                      | AE-1s2                       | Vented  | 8                       |                           |               | 1                        | Dome         |   | 63-19 ±3                                    | 92                      | 60   |                           | 8/8                              | 10 x 16 x 7                          | Blk. Epoxy Blk.       | Blk. Foam None            | 17                | 645.00 Each                    |
|                                      | AE-3s2                       | Vented  | 10                      |                           |               | 1                        | Sphere       |   | 70-18 ±3                                    | 96                      | 300  |                           | 8/8                              | 13 x 10 x 16                         | Blk. Epoxy Blk. Poly. |                           | 36                | 935.00 Each                    |
|                                      | MPTS-1                       | THX   | 12                      | 5.2                       | Cone, Horn    | (8)1                     | Domes        |   | 20-18 ±3                                    | 124                     |  | 120,230, 2.5k             | 4/8                              | Twelve Pieces                        |                       |                           | 438 Sys.          | 21,255. Sys.                   |
| AR                                   | 208V                         | Ac. Sus.  | 5¼                      |                           |               | ¾                        | Dome         |   |   |                         |  |                           |                                  | 11 x 7 x 8                           |                       |                           |                   | 200.00 Pair                    |
|                                      | 218V                         | Ac. Sus.  | 6½                      |                           |               | ¾                        | Dome         |   |   |                         |  |                           |                                  | 13 x 8 x 8                           |                       |                           |                   | 290.00 Pair                    |
|                                      | 228                          | Ac. Sus.  | 8                       |                           |               | ¾                        | Dome         |   |   |                         |  |                           |                                  | 18 x 11 x 9                          |                       |                           |                   | 400.00 Pair                    |
|                                      | 338                          | Ac. Sus.  | 8                       | 1½                        | Dome          | ¾                        | Dome         |   | 49-20 ±3                                    | 86                      | 35   | 650,5k                    | 8/3.6                            | 19 x 11 x 9                          |                       |                           | 26                | 600.00 Pair                    |
|                                      | 302                          | Ac. Sus.  | 10                      | 1½                        | Dome          | ¾                        | Dome         |   |   |                         |  |                           |                                  | 24 x 13 x 11                         |                       |                           |                   | 1000.00 Pair                   |
|                                      | 303                          | Ac. Sus.  | 12                      | 1½                        | Dome          | ¾                        | Dome         |   | 32-20 ±3                                    | 85                      | 50   | 650,5.5k                  | 6.5/3.6                          | 25 x 15 x 11                         |                       |                           | 54                | 1200.00 Pair                   |
| ARANT                                | A-50                         | Vented  | 5¼                      |                           |               | ¾                        | Dome         |   | 70-20 ±3                                    | 89                      | 10   | 3.5k                      | 4/                               | 10 x 7 x 5                           | Oil. Wal.             | Blk. Knit                 | 10                | 225.00 Pair                    |
|                                      | A-60                         | Vented  | 6½                      |                           |               | 1                        | Dome         |   | 49-20 ±3                                    | 90                      | 10   | 3.3k                      | 8/                               | 17 x 10 x 8                          | Oil. Wal.             | Blk. Knit                 | 15                | 300.00 Pair                    |
|                                      | A-80                         | Vented  | 8                       |                           |               | 1                        | Dome         |   | 38-22 ±3                                    | 91                      | 10   | 2.7k                      | 8/                               | 19 x 11 x 10                         | Oil. Wal.             | Blk. Knit                 | 19                | 475.00 Pair                    |
|                                      | A-100T                       | Inf. Baf.   | 8                       |                           |               | 1                        | Dome         |   | 27-20 ±3                                    | 90                      | 12   | 2.5k                      | 8/                               | 28 x 10 x 10                         | Oil. Wal.             | Blk. Knit                 | 30                | 600.00 Pair                    |
|                                      | A-140                        | Pas. Rad.   | 6½                      |                           |               | 1                        | Dome         |   | 40-20 ±3                                    | 90                      | 10   | 2.5k                      | 8/                               | 19 x 11 x 11                         | Oil. Wal.             | Blk. Knit                 | 25                | 550.00 Pair                    |
|                                      | A-200                        | Vented  | 10                      | 4                         | Cone          | 1                        | Dome         |   | 25-22                                       | 92                      | 10   | 800,2.7k                  | 8/                               | 26 x 16 x 12                         | Oil. Wal.             | Blk. Knit                 | 50                | 825.00 Pair                    |
| ARCAM                                | Delta 2                      | Bass Ref.   | 8                       |                           |               | ¾                        | Dome         |   | 40-20                                       | 89                      | 15   | 3k                        | 8/6.5                            | 10 x 11 x 15                         | Opt., Vnl.            | Blk. Knit                 | 18                | 749.00 Pair                    |
| A.R.E.S.                             | L1 Tech                      | Bass Ref.   |                         |                           |               |                          |              |   |   |                         |  |                           |                                  | 14 x 9 x 10                          | Blk. Ash              | Blk. Knit                 |                   | 510.40 Pair                    |
|                                      | L4 Tech                      | Bass Ref.   |                         |                           |               |                          |              |   |   |                         |  |                           |                                  | 30 x 8 x 10                          | Blk. Ash              | Blk. Knit                 |                   | 657.08 Pair                    |
|                                      | L5 Tech                      | Bass Ref.   |                         |                           |               |                          |              |   |   |                         |  |                           |                                  | 33 x 8 x 10                          | Blk. Ash              | Blk. Knit                 |                   | 877.08 Pair                    |
|                                      | L10 Tech                     | Bass Ref.   |                         |                           |               |                          |              |   |   |                         |  |                           |                                  | 34 x 11 x 12                         | Blk. Ash              | Blk. Knit                 |                   | 1097.08 Pair                   |
|                                      | Little Wonder Bookend II     | Bass Ref.   |                         |                           |               |                          |              |   |   |                         |  |                           |                                  | 10 x 5 x 9                           | Blk. Ash              | Blk. Knit                 |                   | 657.08 Pair                    |
| (Continued)                          |                              |   |                         |                           |               |                          |              |   |   |                         |  |                           |                                  | 8 x 13 x 10                          | Blk. Ash              | Blk. Knit                 |                   | 730.40 Pair                    |



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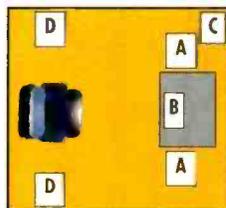
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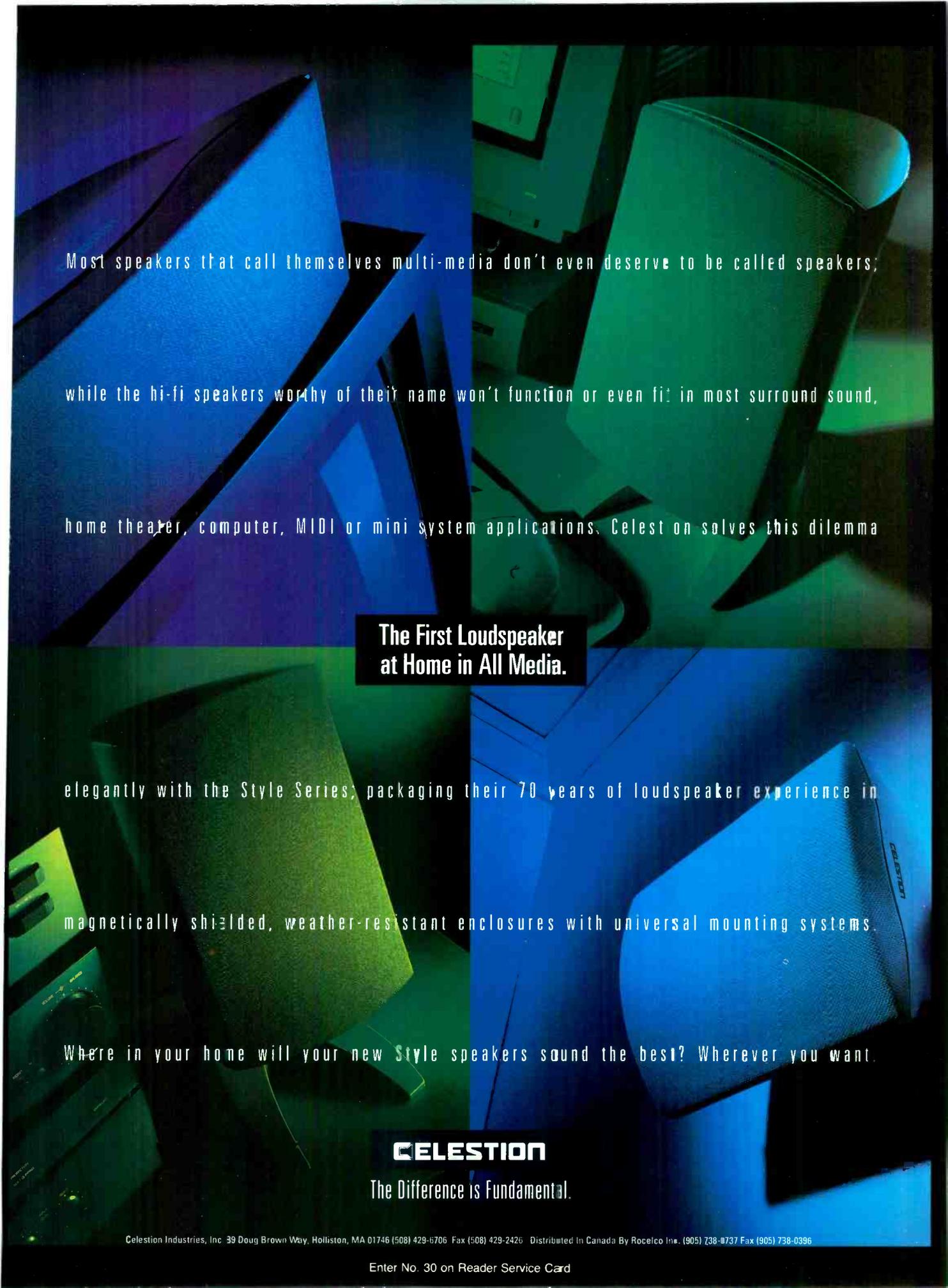
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# LOUDSPEAKERS

| MANUFACTURER                 | Model                         | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls: Woofer - W, Midrange - M, Tweeter - T, Superwoofer - ST | Appar. Freq. Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest 1/8") | Finish         | Grille Color and Material | Weight, Lbs. Each | Price, \$    |
|------------------------------|-------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---------------------------------------|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|----------------|---------------------------|-------------------|--------------|
| AUDIO-SOURCE                 | LS.7                          | Ac. Sus.; Indoor/Outdoor; Sat.                          | 4                       | 2                         | Cone          | 3/4                      | Piezo        |  | 110-20                                | 87                      | 5  |                           | 8/8                              | 8 x 5 x 5                            | Opt.           | Opt.                      | 3                 | 99.95 Pair   |
|                              | LS One                        | Ac. Sus.; Indoor/Outdoor; Sat.                          | 4                       |                           |               | 1                        | Dome         |  | 100-20                                | 87                      | 5  | 2.5k                      | 8/8                              | 8 x 5 x 5                            | Opt.           | Opt., Mtl.                | 5                 | 169.95 Pair  |
|                              | LS Two/A                      | Ac. Sus.; Indoor/Outdoor; Sat.                          | 5                       |                           |               | 1                        | Dome         |  | 60-20                                 | 89                      | 5  | 2.3k                      | 8/8                              | 9 x 6 x 5                            | Opt.           | Opt., Mtl.                | 6                 | 249.95 Pair  |
|                              | LS Ten/A                      | Ac. Sus.; Sat.  | 4                       |                           |               | 1                        | Cone         |  | 100-20                                | 91                      | 5  | 2.5k                      | 8/8                              | 9 x 6 x 5                            | Matte Bk.      | Bk. Cloth Bk.             | 3                 | 99.95 Pair   |
|                              | VS-One                        | A/V; Ac. Sus.; Ctr. Ch.                                 | (2)4                    |                           |               | 1                        | Dome         |  | 70-20                                 | 93                      | 5  | 5k                        | 8/8                              | 6 x 14 x 6                           | Bk. Bk. Vnl.   | Bk. Cloth Bk.             | 7                 | 119.95 Each  |
|                              | VS-Two                        | A/V; Powered Ctr. Ch.                                   | (2)4                    |                           |               | 1                        | Dome         |  | 70-20                                 |                         | 30 Inc.                                      | 5k                        | 8/8                              | 6 x 14 x 6                           | Bk.            | Bk. Cloth Bk.             | 7                 | 159.95 Each  |
|                              | VS-Three                      | A/V; Ctr. Ch.   | 5 1/4                   |                           |               | 1                        | Dome         |  | 60-20                                 | 90                      | 5  | 3.5k                      | 8/                               | 12 x 7 x 6                           | Bk. Vnl.       | Bk. Mtl.                  | 8                 | 139.95 Each  |
|                              | VS-Four                       | A/V; Ctr. Ch.   | (2)4                    | 4                         | Coax          | 1                        | Coax         |  | 60-20                                 | 93                      | 5  | 5k                        | 8/                               | 6 x 16 x 6                           | Bk. Vnl.       | Bk. Mtl.                  | 7                 | 179.95 Each  |
|                              | SW Four                       | Powered Subwoof.  | 12                      |                           |               |                          |              | W  | 20-250                                | 90                      | 150  | 40-180                    | 8/                               | 13 x 20 x 16                         | Bk. Vnl.       | Bk. Mtl.                  | 35                | 499.95 Each  |
|                              | SW Five (with remote control) | Powered Subwoof.  | 12                      |                           |               |                          |              | W  | 20-250                                | 90                      | 150  | 40-180                    | 8/                               | 13 x 20 x 16                         | Bk. Vnl.       |                           | 35                | 599.95 Each  |
| SW Six (with remote control) | Powered Subwoof.              | 12  |                         |                           |               |                          | W            | 20-250   | 90                                    | 150 & (2)50 Inc.        | 40-180 (Var.)                                | 8/                        | 13 x 20 x 16                     | Bk. Vnl.                             |                | 37                        | 699.95 Each       |              |
| AUDIO-VECTOR                 | IW-One                        | In-Wall   | 5 1/4                   |                           |               | 1/2                      | Cone         |  | 80-20                                 | 90                      | 5  | 5k                        | 8/                               | 9 x 7 x 3                            | Wht.           | Wht. Mtl.                 | 2                 | 129.95 Pair  |
|                              | IW-Two                        | In-Wall   | 6 1/2                   |                           |               | 1                        | Dome         |  | 70-20                                 | 90                      | 5  | 3k                        | 8/                               | 12 x 9 x 3                           | Wht.           | Wht. Mtl.                 | 3                 | 199.95 Pair  |
|                              | IW-Three                      | In-Wall   | 8                       |                           |               | 1                        | Dome         |  | 50-20                                 | 92                      | 5  | 2.5k                      | 8/                               | 15 x 11 x 4                          | Wht.           | Wht. Mtl.                 | 4                 | 249.95 Pair  |
|                              | IW-Four                       | In-Wall Subwoof.  | 8                       |                           |               | 1                        | Dome         |  | 30-500                                | 90                      | 120  |                           | 8/                               | 15 x 11 x 4                          | Wht.           | Wht. Mtl.                 | 4                 | 149.95 Each  |
| AUDIO-VECTOR                 | 1X                            | Damp. Ref.  | 6 1/2                   |                           |               | 1                        | Dome         |  | 50-21 ±2                              | 88                      | 50   | 3k                        | 8/8                              | 36 x 7 x 11                          |                |                           | 47                | 1195.00 Pair |
|                              | 2X                            | Damp. Ref.  | 6 1/2                   | 6 1/2                     | Cone          | 1                        | Dome         |  | 45-21 ±2                              | 89                      | 50   | 160, 2.9k                 | 8/8                              | 36 x 7 x 11                          |                |                           | 49                | 1430.00 Pair |
|                              | 3X                            | Damp. Ref.  | 6 1/2                   | 6 1/2                     | Cone          | 1                        | Dome         |  | 40-21 ±2                              | 89                      | 50   | 125, 2.9k                 | 8/8                              | 41 x 9 x 14                          |                |                           | 62                | 1859.00 Pair |
|                              | 5                             | Damp. Ref.  | (2)8                    | 6 1/2                     | Cone          | 1                        | Dome         |  | 35-21 ±2                              | 91                      | 10   | 125, 600, 2.9k            | 8/6                              | 45 x 12 x 14                         |                |                           | 95                | 3600.00 Pair |
|                              | 6                             | Damp. Ref.  | 10                      | 8.5                       | Cones         | 1                        | Dome         |  | 30-20 ±2                              | 93                      | 10   | 25, 600, 3.5k             | 8/5                              | 47 x 15 x 16                         |                |                           | 120               | 5100.00 Pair |
| AUDIRE                       | JDH-1                         | Ported Sat.   | 6 1/2                   |                           |               | 1                        | Dome         |  | 65-22 ±2                              | 88                      | 60   | 2.8k                      | 8/6                              | 12 x 10 x 10                         | Piano Bk.      | Piano Bk.                 | 28                | 1299.00 Pair |
|                              | JDH-2                         | Ported Sat.   | (2)6 1/2                |                           |               | 1                        | Dome         |  | 65-22 ±2                              | 91                      | 60   | 2.8k                      | 4/4                              | 19 x 10 x 12                         | Piano Bk.      | Piano Bk.                 | 48                | 1999.00 Pair |
|                              | JDH-Sub                       | Powered Subwoof.  | 10                      |                           |               |                          |              | W  | 20-80 +0.3                            | Inc.                    | 80   |                           | 20 x 18 x 18                     | Piano Bk.                            | Piano Bk.      | 100                       | 1299.00 Each      |              |
| AUDIX                        | MM-5                          | Vented  | 5 1/4                   |                           |               | 1                        | Dome         |  | 50-18 ±3                              | 88                      | 25   | 3.2k                      | 4/3                              | 6 x 9 x 9                            | Matte Bk.      | Bk.                       | 8                 | 249.00 Pair  |
|                              | HRM-1a                        | Vented  | 6 1/2                   |                           |               | 1                        | Dome         |  | 50-18 ±3                              | 88                      | 50   | 3k                        | 8/3                              | 10 x 16 x 7                          | Matte Bk.      | Bk.                       | 15                | 599.00 Pair  |
|                              | HRM-3a                        | Vented  | (2)6 1/2                |                           |               | 1                        | Dome         |  | 47-18 ±3                              | 90                      | 50   | 3k                        | 4/3                              | 12 x 19 x 10                         | Matte Bk.      | Bk.                       | 30                | 899.00 Pair  |
|                              | M-4                           | Vented  | 7                       |                           |               | 1                        | Dome         |  | 40-20 ±2                              | 90                      | 50   | 2.3k                      | 8/2                              | 11 x 22 x 13                         | Opt.           | Bk.                       | 35                | 1499.00 Pair |
|                              | M-4T                          | Vented  | 7                       |                           |               | 1                        | Dome         |  | 40-20 ±2                              | 90                      | 50   | 2.3k                      | 8/2                              | 10 x 46 x 10                         | Opt.           | Bk.                       | 55                | 1799.00 Pair |
|                              | M-7                           | Vented  | 10                      | 4 1/2                     | Cone          | 1                        | Dome         |  | 35-20 ±2                              | 89                      | 50   | 2.5k                      | 8/2                              | 13 x 45 x 13                         | Opt.           | Bk.                       | 60                | 1999.00 Pair |
|                              | M-8                           | Vented  | 6 1/2                   |                           |               | 1                        | Dome         |  | 40-20 ±2                              | 87                      | 50   | 2.2k                      | 8/3                              | 10 x 15 x 10                         | Opt.           | Bk. Knit                  | 30                | 1995.00 Pair |
|                              | M-10                          | Vented  | (2)6 1/2                |                           |               | 1                        | Dome         |  | 38-20 ±2                              | 89                      | 50   | 2.2k                      | 4/3                              | 10 x 13 x 22                         | Opt.           | Bk. Knit                  | 55                | 2995.00 Pair |
| M-12                         | Vented                        | (2)6 1/2  |                         |                           | 1             | Dome                     |              | 36-20 ±2   | 89                                    | 50                      | 2.2k   | 4/3                       | 10 x 44 x 14                     | Opt.                                 | Bk. Knit       | 90                        | 3495.00 Pair      |              |
| AVALON ACOUSTICS             | Ascent                        | Sealed  | 11                      | 2                         | Dome          | 1                        | Dome         |  | 28-24 ±3                              | 87                      | 50   |                           | 6/5.5                            | Four Pieces                          | Wood           | Bk. Knit                  | 460 Sys.          | 16,500. Sys. |
|                              | Radian                        | Sealed  | (2)9                    | 3 1/2                     | Cone          | 1                        | Dome         |  | 20-24 ±3                              | 88                      | 50   |                           | 4/3.6                            | 48 x 12 x 19                         | Wood           | Bk. Knit                  | 170               | 10,500. Pair |
|                              | Eclipse                       | Sealed  | 9                       |                           |               | 1                        | Dome         |  | 35-24 ±3                              | 86                      | 30   |                           | 6/5.5                            | 39 x 11 x 15                         | Wood           | Bk. Knit                  | 95                | 7600.00 Pair |
|                              | Avatar                        | Sealed  | 8                       |                           |               | 1                        | Dome         |  | 35-24 ±3                              | 85                      | 30   |                           | 6/5.5                            | 34 x 10 x 13                         | Wood           | Bk. Knit                  | 65                | 4350.00 Pair |
| Monitor                      | T.R.A.C.                      | 7   |                         |                           | 1             | Dome                     |              | 48-24 ±3   | 87                                    | 15                      |  | 6/5.5                     | 18 x 9 x 11                      | Wood                                 | Bk. Knit       | 31                        | 2695.00 Pair      |              |
| AVID DYNAMICS                | 4HVS                          | A/V; Vented   | 5 1/4                   |                           |               | 3/4                      | Dome         |  | 65-20 ±3                              | 89                      | 5  | 4k                        | 8/                               | 14 x 9 x 7                           | Opt. Vnl.      | Bk. Knit                  | 8                 | 175.00 Pair  |
|                              | 6HVS                          | A/V; Vented   | 6 1/2                   |                           |               | 3/4                      | Dome         |  | 53-20 ±3                              | 90                      | 10   | 3k                        | 8/                               | 18 x 11 x 8                          | Opt. Vnl.      | Bk. Knit                  | 11                | 225.00 Pair  |
|                              | 8HVS                          | A/V; Inf. Baf.  | 8                       |                           |               | 1                        | Dome         |  | 50-20 ±3                              | 91                      | 10   | 2.3k                      | 8/                               | 21 x 11 x 8                          | Opt. Vnl.      | Bk. Knit                  | 16                | 275.00 Pair  |
|                              | 10HVS                         | A/V; Pas. Rad.  | 6 1/2                   |                           |               | 1                        | Dome         |  | 47-20 ±3                              | 92                      | 15   | 2.3k                      | 8/                               | 24 x 13 x 10                         | Opt. Vnl.      | Bk. Knit                  | 20                | 375.00 Pair  |
|                              | 12HVS                         | A/V; Pas. Rad.  | 6 1/2                   |                           |               | 1                        | Dome         |  | 42-20 ±3                              | 92                      | 15   | 2.2k                      | 8/                               | 34 x 11 x 10                         | Opt. Vnl.      | Bk. Knit                  | 28                | 465.00 Pair  |
|                              | Sterling Series 60            | Inf. Baf.   | 6 1/2                   |                           |               | 3/4                      | Dome         |  | 65-20                                 | 89                      | 5  | 3.5k                      | 8/                               | 14 x 8 x 7                           | Opt. Vnl.      | Bk. Knit                  | 9                 | 230.00 Pair  |
|                              | Sterling Series 70            | Inf. Baf.   | 7                       |                           |               | 1 1/2                    | Dome         |  | 65-20 ±3                              | 90                      | 8  | 3k                        | 8/                               | 18 x 11 x 8                          | Wal. Vnl. Rose | Bk. Knit                  | 16                | 280.00 Pair  |
|                              | Sterling Series 80            | Inf. Baf.   | 9                       |                           |               | 1                        | Dome         |  | 38-20 ±3                              | 90                      | 10   | 2k                        | 8/                               | 24 x 14 x 8                          | Wal. Vnl. Rose | Bk. Knit                  | 26                | 320.00 Pair  |
|                              | Sterling Series 120           | Inf. Baf.   | 10                      | 3                         | Cone          | 1                        | Dome         |  | 38-22 ±3                              | 90                      | 15   | 600, 3k                   | 8/                               | 33 x 16 x 8                          | Wal. Vnl. Rose | Bk. Knit                  | 44                | 460.00 Pair  |
|                              | Sterling Tower 180T           | Inf. Baf.   | (2)8                    | 3                         | Cone          | 1                        | Dome         |  | 38-20 ±3                              | 90                      | 15   | 500, 3.5k                 | 8/                               | 43 x 12 x 12                         | Wal. Vnl. Rose | Bk. Knit                  | 65                | 530.00 Pair  |
| AVONDALE AUDIO               | Mini-Monitor                  | Ported  | 6                       |                           |               | 1                        | Dome         |  | 50-20 ±2                              | 87                      | 30   | 4k                        | 8/3                              | 15 x 10 x 7                          | Mtl.           | Bk.                       | 50                | 2995.00 Pair |
|                              | SBM                           | Ported  | (2)8                    |                           |               | 1 1/2                    | Dome         |  | 35-20 ±2                              | 87                      | 30   | 4k                        | 8/3                              | 27 x 14 x 10                         | Mtl.           | Bk.                       | 70                | 3995.00 Pair |
|                              | DBM                           | Ported  | (2)8                    | 3                         | Dome          | 1 1/2                    | Dome         |  | 30-20 ±2                              | 87                      | 30   | 300, 4k                   | 8/4                              | 35 x 14 x 10                         | Mtl.           | Bk.                       | 110               | 8995.00 Pair |
| A.W.H.                       | AWH180A                       | Bipolar   |                         |                           |               |                          |              |  | 20-20 ±3                              | 96                      | 10   |                           | 8/4                              | 60 x 13 x 3                          | Bk.            | Bk. Knit                  | 60                | 899.95 Pair  |
|                              | AWH90A                        | Bipolar   |                         |                           |               |                          |              |  | 40-19 ±4                              | 91                      | 15   |                           | 8/4                              | 24 x 12 x 3                          | Bk.            | Bk. Knit                  | 15                | 399.95 Pair  |
| AXIOM                        | AX 1.2                        | Tuned Port  | 5                       |                           |               | 1/2                      | Dome         |  | 60-22                                 | 91                      | 10   | 3.5k                      | 8/                               | 11 x 6 x 8                           | Bk. Rswd.      | Bk. Knit                  | 5                 | 149.00 Pair  |
|                              | AX 1.5 Bookshelf              | Tuned Port  | 6 1/2                   |                           |               | 3/4                      | Dome         |  | 50-22 ±2                              | 89                      | 15   | 3.5k                      | 8/6                              | 15 x 8 x 8                           | Bk. Rswd.      | Bk. Knit                  | 15                | 199.00 Pair  |
|                              | AX 1.5                        | Tuned Port  | 6 1/2                   |                           |               | 3/4                      | Dome         |  | 45-22 ±2                              | 89                      | 15   | 3.5k                      | 8/6                              | 19 x 8 x 8                           | Bk. Rswd.      | Bk. Knit                  | 18                | 279.00 Pair  |
|                              | AX 2 Bookshelf                | Tuned Port  | 8                       |                           |               | 1                        | Dome         |  | 43-22 ±2                              | 89                      | 15   | 3.2k                      | 8/6                              | 19 x 10 x 10                         | Bk. Rswd.      | Bk. Knit                  | 22                | 399.00 Pair  |
|                              | AX 2                          | Tuned Port  | 8                       |                           |               | 1                        | Dome         |  | 40-22 ±2                              | 89                      | 15   | 3.2k                      | 8/6                              | 24 x 10 x 10                         | Bk. Rswd.      | Bk. Knit                  | 25                | 469.00 Pair  |
| (Continued)                  | AX 3                          | Tuned Port  | 8.5                     |                           |               | 1                        | Dome         |  | 36-22 ±2                              | 88                      | 30   | 3k                        | 6/4                              | 36 x 10 x 10                         | Bk. Rswd.      | Bk. Knit                  | 33                | 849.00 Pair  |



Most speakers that call themselves multi-media don't even deserve to be called speakers, while the hi-fi speakers worthy of their name won't function or even fit in most surround sound, home theater, computer, MIDI or mini system applications. Celestion solves this dilemma

**The First Loudspeaker  
at Home in All Media.**

elegantly with the Style Series, packaging their 70 years of loudspeaker experience in magnetically shielded, weather-resistant enclosures with universal mounting systems.

Where in your home will your new Style speakers sound the best? Wherever you want.

**CELESTION**

The Difference is Fundamental.

# LOUDSPEAKERS

| MANUFACTURER                 | Model                               | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer = W, Midrange = M, Tweeter = T, Super-tweeter = ST | Anchor Frequency Response, Hz to kHz ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish     | Grille Color and Material | Weight, Lbs. Each | Price, \$    |
|------------------------------|-------------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------|---------------------------|-------------------|--------------|
| AXIOM (Continued)            | AX 5                                |   | 10.5                    |                           |               |                          |              |  | 29-22 ±2                                 | 87                      | 40   | 3k                        | 6/4                              | 36 x 12 x 12                         | Blk. Rswd. | Blk. Knit                 | 40                | 1499.00 Pair |
|                              | AX 1                                | Tuned Port  | 5                       |                           |               | 1                        | Dome         |  | 70-22 ±2                                 | 87                      | 30   | 3k                        | 6/4                              | 11 x 6 x 6                           | Blk. Rswd. | Blk. Knit                 | 15                | 549.00 Pair  |
|                              | AX 120 Sub                          | Tuned Port; Subwoof.                                    | 8                       |                           |               |                          |              |  | 40-120                                   | 91                      | 10   | 120                       | 8/                               | 10 x 12 x 12                         | Blk. Rswd. | Blk. Knit                 | 15                | 149.00 Each  |
|                              | AX 150 Sub                          | Tuned Port; Subwoof.                                    | 10                      |                           |               |                          |              |  | 35-120                                   | 91                      | 15   | 120                       | 8/                               | 24 x 12 x 14                         | Blk. Rswd. | Blk. Knit                 | 20                | 279.00 Each  |
|                              | AX 500 Sub                          | Tuned Port; Subwoof.                                    | 10                      |                           |               |                          |              |  | 29-120                                   | 91                      | 40   | 120                       | 8/                               | 24 x 12 x 14                         | Blk. Rswd. | Blk. Knit                 | 30                | 599.00 Each  |
| BAG END                      | S10E-I                              | ELF Subwoof.  | 10                      |                           |               |                          |              |  | 8-100                                    | 84                      | 30   | 100                       | 8/6                              | 14 x 12 x 11                         | Blk.       | Blk. Steel                | 30                | 348.00 Each  |
|                              | S18E-I                              | ELF Subwoof.  | 18                      |                           |               |                          |              |  | 8-90                                     | 92                      | 50   | 90                        | 8/6                              | 22 x 22 x 18                         | Blk.       | Blk. Steel                | 82                | 712.00 Each  |
|                              | S18E-O                              | ELF Subwoof.  | 18                      |                           |               |                          |              |  | 8-90                                     | 92                      | 50   | 90                        | 8/6                              | 22 x 22 x 18                         | Oak        | Blk. Knit                 | 80                | 888.00 Each  |
|                              | D10E-O                              | ELF Subwoof.  | 10                      |                           |               |                          |              |  | 8-100                                    | 90                      | 30   | 100                       | 4/3                              | 14 x 24 x 11                         | Oak        | Blk. Knit                 | 60                | 828.00 Each  |
|                              | MM-8                                | Coax.   | 10                      | 8                         | Cone          | 1                        | Coax. Horn   | T  | 70-20                                    | 93                      | 30   | 2.8k                      | 8/7                              | 14 x 10 x 8                          | Wal./Blk.  | None                      | 30                | 1788.00 Pair |
| BANG & OLUFSEN               | Beovox CX50                         | Pressure Chamber  | 4                       |                           |               | 1                        | Dome         |  | 80-20 +4 -8                              | 89                      | 20   | 2.5k                      | 6/6                              | 5 x 8 x 8                            | Opt.       | Opt.                      | 8                 | 175.00 Each  |
|                              | Beovox CX100                        | Pressure Chamber  | (2)4                    |                           |               | 1                        | Dome         |  | 50-20 +4 -8                              | 89                      | 20   | 2.5k                      | 6/6                              | 5 x 18 x 8                           | Opt.       | Opt.                      | 11                | 250.00 Each  |
|                              | Beolab Penta 3                      | Powered Bass Ref.                                       | (4)5                    | (4)3                      | Cones         | 1                        | Dome         |  | 40-20 +4 -8                              | 92                      | Inc.   | 700,5k                    | 8/8                              | 64 x 13 x 15                         | Steel      | Gray                      | 53                | 1900.00 Each |
|                              | RL6000                              | Bass Ref.   |                         |                           |               |                          |              |  |  | 93                      | 20   |                           |                                  | 21 x 16 x 7                          | Opt.       | Opt.                      | 20                | 400.00 Each  |
|                              | RL1000                              | Bass Ref.   |                         |                           |               |                          |              |  |  | 92                      | 20   |                           |                                  | 16 x 13 x 5                          | Opt.       | Opt.                      | 8                 | 200.00 Each  |
|                              | IWS1000                             | In-Wall; Int. Baf.                                      | 5½                      |                           |               | 1                        | Dome         |  | 55-20 +3 -8                              | 87                      | 20   | 2.5k                      | 8/8                              | 11 x 8 x 3                           | Wht.       | Wht.                      | 5                 | 400.00 Pair  |
|                              | IWS2000                             | In-Wall; Int. Baf.                                      | 5¼                      |                           |               | 1                        | Dome         |  | 55-30 +3 -8                              | 87                      | 20   | 2.5k                      | 8/8                              | 11 x 8 x 3                           | Wht.       | Wht.                      | 5                 | 500.00 Pair  |
|                              | Beolab 8000                         | Biamped Bass Ref.                                       | (2)4                    |                           |               | ¾                        | Dome         |  | 40-22 +4 -8                              | Inc.                    | 4.2k   |                           |                                  | 6 x 52 x 6                           | Alum.      | Blk.                      | 44                | 1500.00 Each |
|                              | Beolab 6000                         | Biamped Bass Ref.                                       | (2)3¾                   |                           |               | ¾                        | Dome         |  | 70-22 +4 -8                              | Inc.                    | 3k   |                           |                                  | 8 x 44 x 9                           | Alum.      | Cloth                     |                   | 2000.00 Pair |
|                              | Beolab 4500                         | Powered Bass Ref.                                       | 5                       |                           |               | 1                        | Dome         |  | 75-22 +4 -8                              | 87                      | Inc.   | 3.5k                      | 8/8                              | 8 x 21 x 3                           | Steel      | Cloth                     | 8                 | 850.00 Each  |
| B-I-C AMERICA                | Venturi V52i                        | Vented  | 5¼                      |                           |               | ½                        | Dome         |  | 60-20 ±3                                 | 90                      | 5  | 5k                        | 8/8                              | 11 x 7 x 7                           | Oak        | Blk.                      | 9                 | 185.00 Pair  |
| Venturi V52si                | Vented                              | 5¼  |                         |                           | ½             | Dome                     |              | 60-20 ±3   | 90                                       | 5                       | 5k   | 8/8                       | 11 x 7 x 7                       | Blk.                                 | Blk.       | 10                        | 95.00 Each        |              |
| Venturi V52+                 | Vented                              | (2)5¼   |                         |                           | ½             | Dome                     |              | 55-20 ±3   | 90                                       | 5                       | 5k   | 8/8                       | 6 x 18 x 10                      | Blk.                                 | Blk.       | 15                        | 159.00 Each       |              |
| Venturi V62i                 | Vented                              | 6   |                         |                           | ¾             | Dome                     |              | 50-20 ±3   | 90                                       | 10                      | 4.5k   | 8/8                       | 14 x 8 x 9                       | Oak                                  | Blk.       | 11                        | 225.00 Pair       |              |
| Venturi V62si                | Vented                              | 6   |                         |                           | ¾             | Dome                     |              | 50-20 ±3   | 90                                       | 10                      | 4.5k   | 8/8                       | 14 x 8 x 9                       | Blk.                                 | Blk.       | 11                        | 245.00 Pair       |              |
| Venturi V82si                | Vented                              | 8   |                         |                           | 1             | Dome                     |              | 45-20 ±3   | 90                                       | 10                      | 2.5k   | 8/8                       | 21 x 10 x 11                     | Opt.                                 | Blk.       | 27                        | 349.00 Pair       |              |
| Venturi V820i                | Vented                              | 8   |                         |                           | 1             | Dome                     |              | 40-22 ±3   | 91                                       | 15                      | 2.5k   | 8/8                       | 26 x 10 x 11                     | Opt.                                 | Blk.       | 30                        | 449.50 Pair       |              |
| Venturi V630i                | Vented                              | 6   | 6                       | Cone                      | 1             | Dome                     |              | 45-22 ±3   | 90                                       | 15                      | 800,3k                                       | 8/8                       | 34 x 9 x 11                      | Opt.                                 | Blk.       | 37                        | 599.50 Pair       |              |
| Venturi V830i                | Vented                              | 8   | 6                       | Cone                      | 1             | Dome                     |              | 38-22 ±3   | 91                                       | 20                      | 800,3k                                       | 8/8                       | 40 x 10 x 11                     | Opt.                                 | Blk.       | 45                        | 799.50 Pair       |              |
| Venturi Realta               | Vented                              | (2)10   | (2)5¼                   | Cones                     | 1             | Dome                     |              | 28-27 ±3   | 90                                       | 30                      | 200,3k                                       | 4/4                       | 53 x 12 x 15                     | Opt.                                 | Blk.       | 82                        | 1199.50 Pair      |              |
| Venturi V12                  | Vented Subwoof.                     | 12  |                         |                           |               |                          |              | 28-85 ±3   | 90                                       | 30                      | 85   | 8/8                       | 21 x 16 x 19                     | Blk.                                 | Blk.       | 42                        | 299.50 Each       |              |
| Venturi V12 System           | Vented Subwoof.                     | 12  |                         |                           |               |                          | W            | 28-85 ±3   | Inc.                                     | 85                      |  | 8/8                       | 21 x 16 x 19                     | Blk.                                 | Blk.       | 57                        | 699.00 Each       |              |
| Cinema 1 C-5                 | Vented                              | 5¼  |                         |                           | ½             | Dome                     |              | 60-20 ±3   | 90                                       | 5                       | 5k   | 8/8                       | 11 x 7 x 7                       | Blk.                                 | Blk.       | 10                        | 95.00 Each        |              |
| Cinema 1 C-6                 | Vented                              | 6   |                         |                           | ¾             | Dome                     |              | 50-20 ±3   | 90                                       | 10                      | 4.5k   | 8/8                       | 14 x 8 x 9                       | Blk.                                 | Blk.       | 11                        | 229.00 Pair       |              |
| Cinema 1 C-8                 | Vented                              | 8   |                         |                           | ¾             | Dome                     |              | 45-20 ±3   | 90                                       | 10                      | 2.5k   | 8/8                       | 21 x 10 x 11                     | Blk.                                 | Blk.       | 27                        | 339.00 Pair       |              |
| Cinema 1 C-8.3               | Vented                              | (2)8  |                         |                           | 1             | Dome                     |              | 40-22 ±3   | 91                                       | 30                      | 2.5k   | 8/8                       | 40 x 10 x 12                     | Blk.                                 | Blk.       | 47                        | 449.00 Pair       |              |
| Cinema 1 C-10                | Vented Subwoof.                     | 10  |                         |                           |               |                          |              | 38-120   | 90                                       | 20                      | 100  | 8/5                       | 17 x 13 x 16                     | Blk.                                 | Blk.       | 26                        | 229.00 Each       |              |
| Passive Cinema 1 C-10        | Powered                             | 10  |                         |                           |               |                          | W            | 29-200   | Inc.                                     | 50-200 (Adj.)           |  |                           | 17 x 13 x 16                     | Blk.                                 | Blk.       | 34                        | 449.00 Each       |              |
| BLUE ROOM LOUD-SPEAKERS      | The House Pod                       | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         |  | 45-20 ±2                                 | 89                      | 10   | 3k                        | 8/5                              | 21 x 19 x 14                         | Opt.       | Acryl.                    | 18                | 1900.00 Pair |
|                              | The Techno Pod                      | Closed Box  | 6½                      | 6½                        | Cone          | 1¼                       | Dome         |  | 45-20 ±2                                 | 94                      | 30   | 900,3k                    | 4/3                              | 24 x 19 x 14                         | Opt.       | Acryl.                    | 24                | 2500.00 Pair |
| BOSE                         | 901 VI                              | Ac. Matrix  | (9)4½                   |                           |               |                          |              |  |  | 10                      |  |                           | 8/                               | 21 x 13 x 13                         | Wal.       | Brn. Knit                 | 35                | 1499.00 Pair |
|                              | 701                                 | Multi-Chamber   | 8                       | 6½                        | Cone          | (2)2½                    | Cones        |  |  | 10                      |  |                           | 8/4                              | 32 x 10 x 12                         | Opt.       | Blk. Knit                 | 33                | 999.00 Pair  |
|                              | 501 V                               | Multi-Chamber   | 5¼                      |                           |               | (2)2½                    | Cones        |  |  | 10                      |  |                           | 8/4                              | 31 x 8 x 8                           | Opt.       | Blk. Knit                 | 20                | 599.00 Pair  |
|                              | 301 III                             | Slotted Port  | 8                       |                           |               | (2)3                     | Cones        |  |  | 10                      |  |                           | 8/                               | 11 x 17 x 10                         | Opt.       | Opt.                      | 16                | 369.00 Pair  |
|                              | 201 III                             | Slotted Port  | 6½                      |                           |               | 2¼                       | Cone         |  |  | 10                      |  |                           | 8/                               | 8 x 15 x 9                           | Opt.       | Opt.                      | 10                | 229.00 Pair  |
|                              | 4.2 II                              | Slotted Port  | 8                       |                           |               | (2)3                     | Cones        |  |  | 10                      |  |                           | 8/                               | 11 x 17 x 10                         | Opt.       | Opt.                      | 16                | 369.00 Pair  |
|                              | 2.2 II                              | Slotted Port  | 6½                      |                           |               | 2¼                       | Cone         |  |  | 10                      |  |                           | 8/                               | 8 x 15 x 9                           | Opt.       | Opt.                      | 10                | 229.00 Pair  |
|                              | Acoustimass 7                       | Home Th.; Acoustimass                                   | (2)5¼                   |                           |               | (6)2½                    | Cones        |  |  | 10                      |  |                           | 6/                               | Four Pieces                          | Opt.       | Opt.                      | 31                | 999.00 Sys.  |
|                              | Home Theater System                 | Sat. & Acoustimass Subwoof.                             | (2)5¼                   |                           |               | (4)2½                    | Cones        |  |  | 10                      |  |                           | 6/                               | Three Pieces                         | Opt.       | Opt.                      | 33                | 799.00 Sys.  |
|                              | Acoustimass 5 II System             | Home Th.; Acoustimass; 3 Sats. & Subwoof.               | 5¼                      |                           |               | (3)2½                    | Cones        |  |  | 10                      |  |                           | 6/                               | Four Pieces                          | Opt.       | Opt.                      | 17                | 599.00 Sys.  |
|                              | Acoustimass 3 II System             | Sat. & Acoustimass Subwoof.                             | 5¼                      |                           |               | (2)2½                    | Cones        |  |  | 10                      |  |                           | 6/                               | Three Pieces                         | Opt.       | Opt.                      | 15                | 499.00 Sys.  |
|                              | Freestyle 100                       | Ported  | 4½                      |                           |               |                          |              |  |  | 10                      |  |                           | 6/                               | 10 x 6 x 6                           | Opt.       | Opt.                      | 5                 | 339.00 Pair  |
|                              | 101 Music Monitor                   | Ported  | 4½                      |                           |               |                          |              |  |  | 10                      |  |                           | 8/                               | 6 x 11 x 6                           | Opt.       | Opt.                      | 4                 | 199.00 Pair  |
|                              | 101 Music Monitor                   | Ported  | 4½                      |                           |               |                          |              |  |  | 10                      |  |                           | 4/                               | 6 x 9 x 5                            | Opt.       | Opt.                      | 5                 | 219.00 Pair  |
|                              | 121 Mobile Monitor                  | Ported  | 4½                      |                           |               |                          |              |  |  | 10                      |  |                           | 4/                               | 6 x 9 x 6                            | Blk.       | Blk. Mtl.                 | 5                 | 249.00 Pair  |
|                              | 151                                 | Outdoor; Ported   | 4½                      |                           |               |                          |              |  |  | 10                      |  |                           | 6/                               | 6 x 9 x 6                            | Opt.       | Opt., Steel Blk.          | 4                 | 299.00 Pair  |
|                              | VS-100                              | Tuned Port  | 4½                      |                           |               |                          |              |  |  | 10                      |  |                           | 8/                               | 9 x 6 x 6                            | Blk.       | Blk. Cloth                | 6                 | 129.00 Each  |
|                              | Acoustimass 3 Multimedia System     | Computer, Powered Sat. & Subwoof.                       | 5¼                      |                           |               | (2)2½                    | Cones        |  |  | Inc.                    |  |                           |                                  | Three Pieces                         | Plat-inum  | Plat-inum Cloth           | 27                | 699.00 Sys.  |
| Acoustimass 3 Powered System | Powered Sat. & Acoustimass Subwoof. | 5¼  |                         |                           | (2)2½         | Cones                    |              |  | Inc.                                     |                         |  |                           | Three Pieces                     | Opt.                                 | Opt.       | 25                        | 699.00 Sys.       |              |

(Continued)

# LOUDSPEAKERS

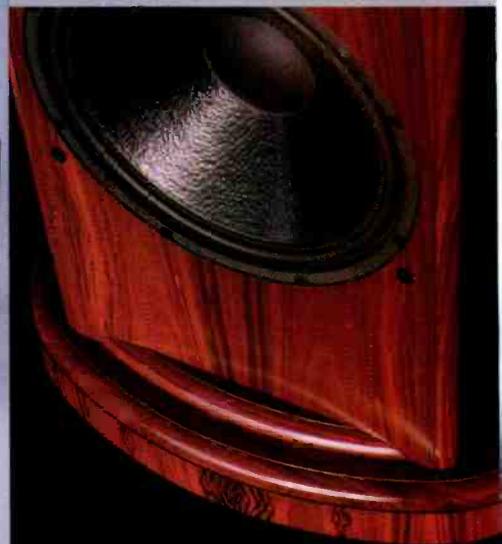
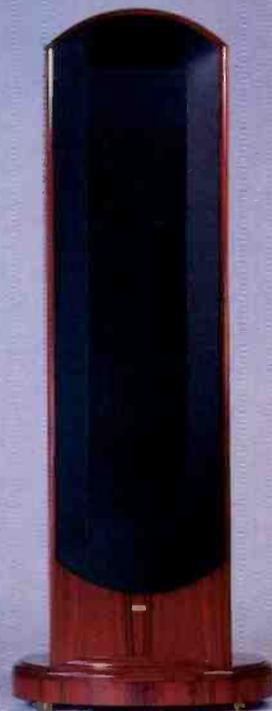
| MANUFACTURER             | Model                        | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W Midrange-M, Tweeter-T, Super-Tweeter-ST Hz to kHz, ±dB | Anechoic Frequency Response | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance Ohms, Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish          | Grille Color and Material | Weight, Lbs. Each | Price, \$    |
|--------------------------|------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|-----------------------------|-------------------------|--|---------------------------|---------------------------------|--------------------------------------|-----------------|---------------------------|-------------------|--------------|
| BOSE (Continued)         | Acoustimass 5 Powered System | Powered Sat. & Acoustimass Subwoof.                     | (2)5¼                   |                           |               | (4)2½                    | Cones        |  |                             | Inc.                    |  |                           | Three Pieces                    | Opt.                                 | Opt.            |                           | 43 Sys.           | 1099.00 Sys. |
|                          | Lifestyle RoomMate II System | Powered   | 4½                      |                           |               |                          |              |  |                             | Inc.                    |  |                           | 6 x 9 x 6                       | Opt. Blk.                            | Opt. Blk.       | 6                         | 6                 | 339.00 Pair  |
|                          | Video RoomMate System        | Powered   | 4½                      |                           |               |                          |              |  |                             | Inc.                    |  |                           | 6 x 9 x 6                       | Gray                                 | Blk. Cloth      | 6                         | 6                 | 339.00 Pair  |
|                          | RoomMate Computer Monitor    | Powered   | 4½                      |                           |               |                          |              |  |                             | inc.                    |  |                           | 6 x 9 x 6                       | Wht.                                 | Wht. Cloth      | 6                         | 6                 | 339.00 Pair  |
| BOSTON ACOUSTICS         | Surround Satellites          | Ac. Sus., Rear Ch.                                      |                         | 4                         | Cone          | ¾                        | Dome         |  | 120-20 ±3                   | 89                      | 15   | 4.5k                      | 8/                              | 9 x 5 x 5                            | Opt.            | Steel                     | 6                 | 200.00 Pair  |
|                          | 555x THX                     | THX; Ac. Sus.   | (2)5¼                   |                           |               | (2)1                     | Domes        |  | 80-20 ±3                    | 90                      | 15   | 3k                        | 8/                              | 18 x 11 x 8                          | Blk. Ash        | Blk. Knit                 | 24                | 300.00 Each  |
|                          | 575x THX                     | THX; Ac. Sus. Dipole                                    | 5¼                      |                           |               | (2)2½                    | Cones        |  | 125-20 ±3                   | 85                      | 15   | 350                       | 8/                              | 12 x 8 x 5                           | Opt. Blk.       | Blk. Knit                 | 10                | 500.00 Pair  |
|                          | 595x THX                     | THX; Subwoof.   | 12                      |                           |               |                          |              |  | 20-80 ±3                    | 85                      | 100  |                           | 8/                              | 19 x 18 x 19                         | Blk.            | Blk. Knit                 | 60                | 500.00 Each  |
|                          | Lynfield Series 500L         | Ac. Sus. & Dual-Bandpass Subwoof.                       | (2)6½                   | 5¼                        | Cone          | 1                        | Dome         |  | 32-35 ±3                    | 85                      |  | 125.2.6k                  | 5/3                             | Two Pieces Per Side                  | Opt., Wood      | Blk. Knit                 | 100 Side          | 4500.00 Pair |
|                          | Lynfield Series 400L         | Ac. Sus. & Dual-Bandpass Tuned Port                     | (2)6½                   | 5¼                        | Cone          | 1                        | Dome         |  | 38-35 ±3                    | 85                      |  | 125.2.6k                  | 5/3                             | 37 x 9 x 18                          | Opt., Wood      | Blk. Knit                 | 84                | 4000.00 Pair |
|                          | Lynfield Series 300L         |   | 5¼                      |                           |               | 1                        | Dome         |  | 50-35 ±3                    | 83                      |  | 2.6k                      | 8/6.5                           | 11 x 9 x 14                          | Opt., Wood      | Blk. Knit                 | 24                | 2000.00 Pair |
|                          | T1030                        | Ac. Sus.  | (2)8                    | 6½                        | Cone          | 1                        | Dome         |  | 40-20 ±3                    | 90                      | 15   | 250,2.5k                  | 8/                              | 43 x 10 x 12                         | Opt.            | Blk. Knit                 | 65                | 1000.00 Pair |
|                          | T930 II                      | Ac. Sus.  | 10                      | 6½                        | Cone          | 1                        | Dome         |  | 42-20 ±3                    | 90                      | 15   | 350,2.5k                  | 8/                              | 37 x 11 x 12                         | Opt., Vnl.      | Blk. Knit                 | 50                | 750.00 Pair  |
|                          | T830                         | Ac. Sus.  | 8                       | 3½                        | Cone          | 1                        | Dome         |  | 45-20 ±3                    | 88                      | 15   | 800,4k                    | 8/                              | 33 x 10 x 10                         | Opt., Vnl.      | Blk. Knit                 | 40                | 550.00 Pair  |
|                          | HD10                         | Pas. Rad.   | 10                      | 6½                        | Cone          | 1                        | Dome         |  | 40-20 ±3                    | 90                      | 15   | 2.5k                      | 8/                              | 24 x 13 x 10                         | Opt., Vnl.      | Blk. Knit                 | 27                | 440.00 Pair  |
|                          | HD9                          | Pas. Rad.   | 8                       | 6½                        | Cone          | 1                        | Dome         |  | 48-20 ±3                    | 90                      | 15   | 2.8k                      | 8/                              | 21 x 11 x 8                          | Opt., Vnl.      | Blk. Knit                 | 18                | 340.00 Pair  |
|                          | HD8                          | Ac. Sus.  | 8                       |                           |               | 1                        | Dome         |  | 52-20 ±3                    | 90                      | 10   | 3k                        | 8/                              | 18 x 11 x 8                          | Opt., Vnl.      | Blk. Knit                 | 16                | 250.00 Pair  |
|                          | HD7                          | Ac. Sus.  | 7                       |                           |               | ¾                        | Dome         |  | 52-20 ±3                    | 90                      | 10   | 3k                        | 8/                              | 14 x 9 x 7                           | Opt., Vnl.      | Blk. Knit                 | 10                | 200.00 Pair  |
|                          | HD5                          | Ac. Sus.  | 5¼                      |                           |               | ¾                        | Dome         |  | 65-20 ±3                    | 89                      | 5  | 3.5k                      | 8/                              | 10 x 6 x 7                           | Opt., Vnl.      | Blk. Knit                 | 7                 | 150.00 Pair  |
|                          | 380                          | In-Wall   | 8                       |                           |               | 1                        | Dome         |  | 48-20 ±2                    | 90                      | 5  | 2.7k                      | 8/                              | 10 x 13 x 4                          | Matte Wht.      | Wht.                      | 6                 | 500.00 Pair  |
|                          | 360 Series II                | In-Wall   | 6½                      |                           |               | 1                        | Dome         |  | 58-20 ±2                    | 90                      | 5  | 3k                        | 8/                              | 11 x 8 x 3                           | Steel Wht.      | Wht.                      | 4                 | 400.00 Pair  |
|                          | 350                          | In-Wall   | 5¼                      |                           |               | 1                        | Dome         |  | 68-20 ±2                    | 90                      | 5  | 3.5k                      | 4/                              | 10 x 7 x 3                           | Steel Wht.      | Wht.                      | 3                 | 300.00 Pair  |
|                          | 335                          | In-Wall   | 5¼                      |                           |               | ¾                        | Dome         |  | 68-20                       | 90                      |  | 3.5k                      | 4/                              | 8 Dia. x 4                           | Steel Wht.      | Wht.                      | 3                 | 250.00 Pair  |
|                          | 325                          | In-Wall   | 5¼                      |                           |               | ¾                        | Dome         |  | 68-20 ±3                    | 90                      | 5  | 3.5k                      | 4/                              | 7 x 7 x 2                            | Steel Wht.      | Wht.                      | 2                 | 200.00 Pair  |
|                          | 305                          | In-Wall   | 5¼                      |                           |               |                          | Dome         |  | 68-17 ±3                    | 90                      | 5  |                           | 4/                              | 7 x 7 x 2                            | Steel Wht.      | Wht.                      | 2                 | 130.00 Pair  |
|                          | SubSat 6 Series II           | Sat. & Subwoof.   | (2)6½                   | 4                         | Cone          | ¾                        | Dome         |  | 46-20 ±3                    | 89                      | 15   | 150,4.5k                  | 8/                              | Three Pieces                         | Opt.            | Steel                     | 30 Sys.           | 500.00 Sys.  |
|                          | SubSat 7                     | Sat. & Subwoof.   | (2)7                    | 4                         | Cone          | 1                        | Dome         |  | 41-20 ±3                    | 89                      | 15   | 150,2.5k                  | 8/                              | Three Pieces                         | Opt.            | Steel                     | 40 Sys.           | 750.00 Sys.  |
|                          | SW10                         | Powered Subwoof.  | 10                      |                           |               |                          |              | W  | 34-95 ±3                    | Inc.                    | 90   |                           |                                 | 20 x 11 x 16                         | Blk. Ash Vnl.   | Blk.                      | 49 Sys.           | 600.00 Each  |
|                          | 404v                         | Ctr. Ch.; Ac. Sus.                                      | (2)4                    |                           |               |                          |              |  | 100-20 ±3                   | 90                      | 5  |                           | 8/                              | 5 x 17 x 6                           | Blk. Ash Vnl.   | Blk. Knit                 | 8                 | 129.00 Each  |
|                          | CenterSat 6                  | Ctr. Ch.; Pas. Rad.                                     | 4½                      |                           |               | ¾                        | Dome         |  | 88-20                       | 89                      |  | 3.5k                      | 8/                              | 5 x 15 x 5                           | Blk.            | Steel                     | 6                 | 199.95 Each  |
|                          | CenterSat 7                  | Ctr. Ch.; Pas. Rad.                                     | 5¼                      |                           |               | 1                        | Dome         |  | 65-20                       | 89                      |  | 3k                        | 8/                              | 5 x 17 x 6                           | Blk.            | Steel                     | 6                 | 299.95 Each  |
| PV300                    | In-Floor, Subwoof.           | (2)6½   |                         |                           |               |                          |              | 45-140 ±3  | 89                          | 15                      | 140  | 8/                        | 7 x 13 x 24                     | Blk.                                 | Steel           | 21                        | 400.00 Each       |              |
| Voyager                  | Indoor/Outdoor;              | 5¼  |                         |                           | 1             | Dome                     |              | 65-20 ±3   | 89                          | 5                       | 3k   | 8/                        | 10 x 6 x 7                      | Wht.                                 | Steel           | 6                         | 400.00 Pair       |              |
| Runabout II              | Ac. Sus. Indoor/Outdoor;     | 4½  |                         |                           | ¾             | Dome                     |              | 90-20 ±3   | 89                          | 5                       | 3.5k   | 8/                        | 9 x 6 x 6                       | Lexan Wht.                           | Steel           | 6                         | 250.00 Pair       |              |
| Runabout I               | Ac. Sus. Indoor/Outdoor;     | 4½  |                         |                           |               |                          |              | 100-17 ±3  | 89                          | 5                       |  | 8/                        | 9 x 6 x 6                       | Wht.                                 | Steel           | 6                         | 200.00 Pair       |              |
| BOZAK AUDIO LABORATORIES | Grand                        | Pas. Rad.   | (4)6                    | (2)5                      | Cones         | 1                        | Dome         |  | 28-20 +1,-2                 | 93                      | 40   | 200,2k                    | 8/                              | 31 x 16 x 48                         | Opt., Wood Ven. | Opt., Knit                | 180               | 5000.00 Pair |
|                          | Symphony II                  | Pas. Rad.   | (2)8                    | (2)5                      | Cones         | 1                        | Dome         |  | 31-20 +1,-2                 | 92                      | 20   | 225,2k                    | 6/                              | 25 x 15 x 44                         | Opt., Wood Ven. | Opt., Knit                | 130               | 3600.00 Pair |
|                          | Concerto II                  | Pas. Rad.   | (2)6                    | 5                         | Cone          | 1                        | Dome         |  | 35-20 +1,-2                 | 91                      | 20   | 250,2.5k                  | 6/                              | 22 x 15 x 40                         | Opt., Wood Ven. | Opt., Knit                | 105               | 2600.00 Pair |
|                          | Rhapsody II                  | Vented  | 8                       | 5                         | Cone          | ¾                        | Dome         |  | 38-20 +1,-2                 | 90                      | 10   | 300,3k                    | 8/                              | 19 x 12 x 38                         | Opt., Wood Ven. | Opt., Knit                | 80                | 1900.00 Pair |
|                          | Sonata                       | Vented  | 8                       | 5                         | Cone          | ¾                        | Dome         |  | 40-20 +1,-2                 | 90                      | 10   | 300,3k                    | 8/                              | 19 x 11 x 26                         | Opt., Wood Ven. | Opt., Knit                | 55                | 1400.00 Pair |
|                          | 1                            | Tuned Port  | 6½                      |                           |               | 1                        | Dome         |  | 57-18                       | 87                      | 10   | 2.5k                      | 8/                              | 15 x 10 x 8                          | Opt., Vnl.      | Blk. Knit                 | 22                | 395.00 Pair  |
|                          | 2                            | Tuned Port  | 8                       |                           |               | 1                        | Dome         |  | 45-18                       | 89                      | 10   | 2.2k                      | 8/                              | 24 x 12 x 14                         | Opt., Vnl.      | Blk. Knit                 | 36                | 545.00 Pair  |
|                          | 3                            | Tuned Port  | 8                       |                           |               | 1                        | Dome         |  | 40-20                       | 88                      | 20   | 1.7k                      | 8/                              | 37 x 12 x 14                         | Opt., Vnl.      | Blk. Knit                 | 65                | 795.00 Pair  |
|                          | 4                            | Tuned Port  | (2)8                    |                           |               | 1                        | Dome         |  | 35-20                       | 89                      | 30   | 400,1.7k                  | 5/                              | 42 x 12 x 15                         | Opt., Vnl.      | Blk. Knit                 | 85                | 1295.00 Pair |
|                          | HT-F1                        | Home Th.; Inf. Baf.                                     | 4                       |                           |               | ½                        | Dome         |  | 90-18 ±3                    | 88                      | 10   | 3k                        | 8/6                             | 5 x 5 x 9                            | Oak Ven. Gloss  | Blk. Knit                 | 9                 | 299.95 Pair  |
|                          | HT-SW1                       | Home Th.; Bandpass Subwoof.                             | (2)5                    |                           |               |                          |              |  | 35-90 ±3                    | 88                      | 20   | 90                        | 8/6                             | 7 x 12 x 21                          | Blk. Gloss      | Blk. Knit                 | 18                | 369.95 Each  |
|                          | HT-C1                        | Home Th.; Vented; Ctr. Ch.                              | (2)4                    |                           |               | ¾                        | Dome         |  | 60-20 ±3                    | 89                      | 10   | 2.7k                      | 5/4                             | 6 x 8 x 18                           | Blk. Gloss      | Blk. Knit                 | 14                | 299.95 Each  |
| HT-R1                    | Home Th.; Sealed; Rear Ch.   | (2)4  |                         |                           | 3             | Cone                     | T            | 100-10 ±3  | 89                          | 10                      | 3k   | 16/14                     | 6 x 5 x 10                      | Blk. Gloss                           | Blk. Knit       | 8                         | 399.95 Pair       |              |
| BRENT-WORTH SOUND LAB    | Type 1                       | Dynamic   | 6½                      |                           |               |                          |              | 50-20 ±3   | 100                         | 3                       |  | 4/3.5                     | 29 x 9 x 13                     | Opt., Gibraltar                      | Blk. Foam       | 65                        | 3800.00 Pair      |              |
|                          | Type 3                       | Dynamic   | (2)6½                   |                           |               |                          |              | 20-20 ±3   | 102                         | 3                       |  | 4/3.5                     | 40 x 11 x 18                    | Opt., Gibraltar                      | Blk. Foam       | 115                       | 6000.00 Pair      |              |



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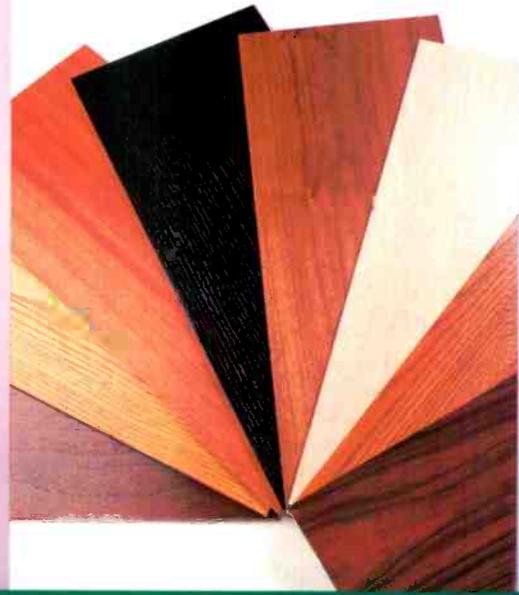
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# LOUDSPEAKERS

| MANUFACTURER                     | Model                         | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type       | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Superwoofer=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, inches (To Nearest Inch) | Finish                    | Grille Color and Material | Weight, Lbs. Each | Price, \$    |
|----------------------------------|-------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|---------------------------|---------------------------|-------------------|--------------|
| BRIGHT STAR AUDIO                | Altair Pro                    | Dipole  | 10                      | 5                         | Cone          | 1.1½                     | Dome, Ribbon Domes | No   | 32-20 ±3                                    | 89                      | 40   | 400.3, 15k                | 6/3                              | 20 x 12 x 30                         | Sim. Gran.                | Blk. Cloth                | 68                | 2450.00 Pair |
|                                  | Altair                        | Dipole  | 10                      | 5                         | Cone          | 1.¾                      | Ribbon Domes       | No   | 44-24 ±3                                    | 88                      | 20   | 450.3, 15k                | 6/3                              | 20 x 12 x 28                         | Sim. Gran.                | Blk. Cloth                | 40                | 1150.00 Pair |
|                                  | Shadow                        | Corner Loading  | 8                       |                           |               | 1                        | Dome               | No   | 50-24                                       | 87                      | 15   | 2.6k                      | 6/5                              | 18 x 9 x 15                          | Sim. Gran.                | Blk. Cloth                | 17                | 499.00 Pair  |
| B & W                            | 2000 IFS                      | Ctr. Ch. Rear, Vented                                   | (2)5                    |                           |               | 1                        | Dome               |  | 95-20 ±3                                    | 88                      | 25   | 3k                        | 8/                               | 6 x 18 x 10                          | Blk. Knit                 | Blk. Knit                 | 13                | 199.00 Each  |
|                                  | 2001                          | Rear, Vented  | 5                       |                           |               | 1¼                       | Dome               |  | 85-20 ±3                                    | 88                      | 20   | 3k                        | 4/                               | 12 x 8 x 8                           | Blk. Knit                 | Blk. Knit                 | 7                 | 99.50 Each   |
|                                  | 2002                          | Vented  | 5                       |                           |               | 1¼                       | Dome               |  | 74-20 ±3                                    | 88                      | 20   | 3k                        | 4/                               | 14 x 8 x 8                           | Blk. Knit                 | Plast. Blk. Knit          | 8                 | 149.50 Each  |
|                                  | 2003                          | Vented  | 6½                      |                           |               | 1                        | Dome               |  | 70-20 ±3                                    | 89                      | 20   | 3k                        | 4/                               | 17 x 9 x 10                          | Blk. Knit                 | Plast. Blk. Knit          | 11                | 199.50 Each  |
|                                  | 2004                          | Vented  | 6½                      | 6½                        | Cone          | 1                        | Dome               |  | 65-20 ±3                                    | 92                      | 20   | 400.3k                    | 4/                               | 26 x 9 x 10                          | Blk. Knit                 | Plast. Blk. Knit          | 18                | 274.50 Each  |
|                                  | DM600 IFS                     | Ctr. Ch. Sealed   | (2)5                    |                           |               | 1                        | Dome               |  | 75-23 ±3                                    | 88                      | 25   | 3k                        | 8/                               | 6 x 18 x 10                          | Blk. Knit                 | Blk. Knit                 | 13                | 299.90 Each  |
|                                  | DM600i                        | Sealed  | 6½                      |                           |               | 1                        | Dome               |  | 80-20 ±2                                    | 87                      | 30   | 2.5k                      | 4/                               | 14 x 8 x 10                          | Blk. Knit                 | Blk. Knit                 | 10                | 175.00 Each  |
|                                  | DM610i                        | Sealed  | 8                       |                           |               | 1                        | Dome               |  | 70-20 ±2                                    | 89                      | 30   | 2.5k                      | 4/                               | 20 x 10 x 12                         | Blk. Knit                 | Blk. Knit                 | 17                | 250.00 Each  |
|                                  | DM620i                        | Pas. Rad.   | 8                       |                           |               | 1                        | Dome               |  | 58-20 ±2                                    | 90                      | 30   | 3k                        | 4/                               | 30 x 10 x 12                         | Opt. Blk. Knit            | Blk. Knit                 | 31                | 400.00 Each  |
|                                  | DM630i                        | Vented  | 8                       | 8                         | Cone          | 1                        | Dome               |  | 53-20 ±2                                    | 91                      | 30   | 400.3k                    | 4/                               | 34 x 10 x 16                         | Opt. Blk. Knit            | Blk. Knit                 | 42                | 550.00 Each  |
|                                  | DM640i                        | Vented  | (2)8                    | 6½                        | Cone          | 1                        | Dome               |  | 46-20 ±2                                    | 91                      | 30   | 300.3k                    | 4/                               | 38 x 10 x 16                         | Opt. Blk. Knit            | Blk. Knit                 | 53                | 750.00 Each  |
|                                  | Matrix HTM                    | Ctr. Ch., Bass Ref.                                     | 6½                      | 6½                        | Cone          | 1                        | Dome               |  | 63-20 ±2                                    | 88                      | 50   | 3k                        | 8/                               | 10 x 17 x 9                          | Blk. Ven.                 | Blk. Knit                 | 19                | 800.00 Each  |
|                                  | Matrix 805                    | Vented  | 6½                      |                           |               | 1                        | Dome               |  | 45-20 ±2                                    | 87                      | 50   | 3k                        | 8/4                              | 14 x 14 x 9                          | Opt. Blk. Knit            | Blk. Knit                 | 19                | 800.00 Each  |
|                                  | Matrix 804                    | Vented  | 6½                      | 6½                        | Cone          | 1                        | Dome               |  | 31-20 ±2                                    | 89                      | 50   | 500.3k                    | 8/4                              | 37 x 11 x 11                         | Opt. Blk. Knit            | Blk. Knit                 | 43                | 1100.00 Each |
|                                  | Matrix 803 S2                 | Vented  | (2)6½                   | 6½                        | Cone          | 1                        | Dome               |  | 25-20 ±2                                    | 90                      | 50   | 500.3k                    | 8/3,7                            | 40 x 11 x 14                         | Opt. Blk. Knit            | Blk. Knit                 | 60                | 1500.00 Each |
|                                  | Matrix 802 S3                 | Vented  | (2)8                    | 5                         | Cone          | 1                        | Dome               |  | 27-20 ±2                                    | 90                      | 50   | 400.3k                    | 8/                               | 41 x 12 x 15                         | Opt. Blk. Knit            | Blk. Knit                 | 70                | 2000.00 Each |
|                                  | Matrix 801 S3                 | Vented  | 12                      | 5                         | Cone          | 1                        | Dome               |  | 20-20 ±2                                    | 87                      | 100  | 380.3k                    | 8/                               | 40 x 17 x 22                         | Opt. Blk. Knit            | Blk. Knit                 | 119               | 2750.00 Each |
|                                  | Matrix 800                    | Vented  | (2)12                   | (2)5                      | Cones         | 1¼                       | Dome               |  | 23-20 ±2                                    | 93                      | 150  | 380,800, 3k               | 4/3                              | 76 x 20 x 22                         | Opt. Blk. Knit            | Blk. Knit                 | 240               | 7500.00 Each |
|                                  | CWM-5                         | In-Wall   |                         | 5                         |               | 1                        | Dome               |  | 75-20 ±3                                    | 87                      | 20   | 2.5k                      | 8/                               | 9 x 7 x 3                            | Wht. Blk. Knit            | Wht. Mtl. Blk. Knit       | 2                 | 150.00 Each  |
|                                  | CWM-6                         | In-Wall   |                         | 7                         |               | 1                        | Dome               |  | 45-20 ±3                                    | 89                      | 20   | 2.5k                      | 6/                               | 12 x 8 x 3                           | Wht. Blk. Knit            | Wht. Mtl. Blk. Knit       | 5                 | 200.00 Each  |
| CWM-8                            | In-Wall                       |   | 8¾                      |                           | 1             | Dome                     |                    | 35-20 ±3   | 90  | 20                      | 2.5k   | 4/                        | 13 x 10 x 4                      | Wht. Blk. Knit                       | Wht. Mtl. Blk. Knit       | 5                         | 300.00 Each       |              |
| SCM-8                            | THX, Dipole                   |   | (2)6½                   | Cones                     | (2)1          | Domes                    |                    | 105-25 +0,-6   | 87  | 50                      | 3k   | 4/                        | 14 x 14 x 10                     | Blk. Text. Paint                     | Blk. Knit                 | 24                        | 750.00 Each       |              |
| FCM-8                            | THX; Sealed                   |   | (2)6½                   | Cones                     | (3)1          | Domes                    |                    | 80-22 +0,-3  | 90  | 50                      | 3k   | 6/4                       | 24 x 10 x 9                      | Blk. Ash Blk. Ash                    | Blk. Knit Blk. Knit       | 28                        | 1000.00 Each      |              |
| PCS-8                            | THX; Bass Ref., Subwoof.      |   | 12                      |                           |               |                          |                    | 35-150 +0,-3   | 89  | 50                      |  | 8/                        | 24 x 23 x 24                     | Blk. Ash Blk. Ash                    | Blk. Knit Blk. Knit       | 71                        | 1250.00 Each      |              |
| CADAWAS ACOUSTICS                | Mobile Monitor One-B          | Auto Damping  | 8                       |                           |               | 1                        | Dome               | T  | 20-20                                       | 90                      | 15   | 2k                        | 8/6                              | 16 x 9 x 12                          | Gloss Blk. Lam. Blk. Lam. | Gray Knit                 | 20                | 2000.00 Pair |
|                                  | TC-2                          | Auto Damping Subwoof.                                   | 12                      |                           |               |                          |                    |  | 20-100                                      | 90                      | 25   | 100                       | 8/6                              | 24 x 15 x 11                         | Blk. Lam. Blk. Lam.       | Gray Knit                 | 40                | 2000.00 Pair |
| CALIBRATION STANDARD INSTRUMENTS | MDM-4                         | Ported  | (2)6½                   |                           |               | 3½                       | Cone               |  | 60-17 ±3                                    | 89                      | 15   | 1.5k                      | 8/5                              | 19 x 13 x 10                         | Rswd. Lam. Blk. Knit      | Bnn. Cloth Alum.          | 25                | 1490.00 Pair |
|                                  | MDM-TA2                       | Time Align  | 6½                      |                           |               | ¾                        | Dome               | T  | 60-20 ±3                                    | 87                      | 15   | 2.5k                      | 8/5                              | 16 x 12 x 9                          | Rswd. Lam. Blk. Knit      | None                      | 20                | 1490.00 Pair |
|                                  | MDM-TA3                       | Time Align  | (2)6½                   | 3½                        | Cone          | ¾                        | Dome               | M,T  | 45-20 ±3                                    | 91                      | 15   | 1.8k,7k                   | 8/4                              | 19 x 16 x 12                         | Rswd. Lam. Blk. Knit      | None                      | 35                | 1990.00 Pair |
|                                  | B8/70                         | ELF Subwoof.  | 8                       |                           |               |                          |                    |  | 30-100 ±1                                   | 91                      | 100  | 100                       | 8/4                              | 16 x 19 x 12                         | Blk. Lam. Blk. Lam.       | Blk. Cloth Blk. Cloth     | 35                | 1290.00 Pair |
|                                  | B18                           | ELF Subwoof.  | 18                      |                           |               |                          |                    |  | 16-100 ±1                                   | 97                      | 300  | 100                       | 8/6                              | 20 x 20 x 12                         | Blk. Lam. Blk. Lam.       | Blk. Cloth Blk. Cloth     | 60                | 1990.00 Pair |
| CALRAD                           | 20-318                        | Outdoor   | 4                       | 2                         | Cone          | 1                        | Dome               |  | 50-18                                       | 20                      | 6.5k   | 4/4                       | 8 x 5 x 5                        | Opt. Wht. Blk. Knit                  | Opt. Wht. Blk. Knit       | 3                         | 34.00 Each        |              |
|                                  | 20-320                        | In-Wall   | 4                       | 2                         | Cone          | 1                        | Dome               |  | 50-20                                       | 25                      | 6.5k   | 8/8                       | 8 x 5 x 5                        | Wht. Blk. Knit                       | Wht. Blk. Knit            | 3                         | 49.00 Pair        |              |
|                                  | 20-330                        | In-Wall   | 5¼                      |                           |               | ¾                        | Dome               |  | 50-20                                       | 20                      | 3k   | 8/8                       | 8 x 11                           | Wht. Blk. Knit                       | Wht. Blk. Knit            | 2                         | 102.00 Pair       |              |
|                                  | 20-335                        | In-Wall   | 6                       |                           |               | 1                        | Dome               |  | 40-20                                       | 25                      | 2.5k   | 8/8                       | 9 x 12                           | Wht. Blk. Knit                       | Wht. Blk. Knit            | 3                         | 113.00 Pair       |              |
|                                  | 20-337                        | In-Wall   | 8                       |                           |               | 1                        | Dome               |  | 30-20                                       | 25                      | 2.5k   | 8/8                       | 13 x 9                           | Wht. Blk. Knit                       | Wht. Blk. Knit            | 3                         | 131.00 Pair       |              |
|                                  |                               |   |                         |                           |               |                          |                    |  |   |                         |  |                           |                                  |                                      |                           |                           |                   |              |
| CAMBER                           | 1.0ti                         | Bass Ref.   | 6½                      |                           |               | ¾                        | Dome               |  | 60-20 ±3                                    | 89                      | 10   | 3k                        | 8/7                              | 15 x 9 x 12                          | Blk. Ash Vnl. Blk. Knit   | Blk. Knit                 | 18                | 499.00 Pair  |
|                                  | 2.0ti                         | Bass Ref.   | 6½                      |                           |               | ¾                        | Dome               |  | 55-20 ±2                                    | 90                      | 10   | 2.6k                      | 8/7                              | 17 x 9 x 12                          | Blk. Knit Wrap Blk. Knit  | Blk. Knit                 | 20                | 649.00 Pair  |
|                                  | 3.0ti                         | Bass Ref.   | 8%                      |                           |               | ¾                        | Dome               |  | 50-20 ±2                                    | 91                      | 15   | 2.7k                      | 8/6                              | 20 x 11 x 12                         | Blk. Knit Wrap Blk. Knit  | Blk. Knit                 | 29                | 799.00 Pair  |
|                                  | 3.5ti                         | Bass Ref.   | 8%                      |                           |               | ¾                        | Dome               |  | 45-21 ±2                                    | 92                      | 15   | 2.5k                      | 8/6                              | 25 x 11 x 12                         | Blk. Knit Wrap Blk. Knit  | Blk. Knit                 | 35                | 949.00 Pair  |
|                                  | 4.5ti                         | Bass Ref.   | (2)6½                   |                           |               | ¾                        | Dome               |  | 40-21 ±2                                    | 92                      | 20   | 2.6k                      | 8/6                              | 38 x 9 x 12                          | Blk. Knit Wrap Blk. Knit  | Blk. Knit                 | 44                | 1149.00 Pair |
|                                  | LS1                           | Ac. Sus.  | 6½                      |                           |               | ½                        | Dome               |  | 60-20 ±3                                    | 89                      | 10   | 3k                        | 8/7                              | 12 x 8 x 9                           | Blk. Ash Ven. Satin Blk.  | Blk. Knit                 | 15                | 319.00 Pair  |
|                                  | LS3 MKII                      | Bass Ref.   | 6½                      |                           |               | ¾                        | Dome               |  | 50-20 ±3                                    | 90                      | 10   | 3k                        | 8/7                              | 16 x 8 x 9                           | Satin Blk. Satin Blk.     | Blk. Knit                 | 19                | 399.00 Pair  |
|                                  | LS7 MKII                      | Bass Ref.   | 8                       |                           |               | ¾                        | Dome               |  | 40-22 ±3                                    | 91                      | 10   | 2.8k                      | 8/7                              | 24 x 10 x 11                         | Satin Blk. Satin Blk.     | Blk. Knit                 | 40                | 599.00 Pair  |
|                                  | LS9 MKII                      | Bass Ref.   | (2)6½                   |                           |               | ¾                        | Dome               |  | 40-22 ±3                                    | 92                      | 15   | 2.7k                      | 8/6                              | 37 x 9 x 12                          | Satin Blk. Satin Blk.     | Blk. Knit                 | 57                | 799.00 Pair  |
|                                  | LS Sub                        | Bass Ref.; Subwoof.                                     | 8                       |                           |               |                          |                    |  | 20-120                                      | 89                      | 10   | 120                       | 8/6                              | 24 x 12 x 10                         | Blk. Ash Ven. Satin Blk.  | Blk. Knit                 | 35                | 399.00 Pair  |
|                                  | SC 300                        | Bass Ref.   | 6½                      |                           |               | ½                        | Dome               |  | 50-20 ±3                                    | 90                      | 10   | 3k                        | 8/7                              | 16 x 8 x 9                           | Satin Blk. Satin Blk.     | Blk. Knit                 | 15                | 399.00 Pair  |
|                                  | SC 700                        | Bass Ref.   | 8                       |                           |               | ¾                        | Dome               |  | 40-22 ±3                                    | 91                      | 10   | 2.8k                      | 8/7                              | 24 x 10 x 11                         | Satin Blk. Satin Blk.     | Blk. Knit                 | 40                | 599.00 Pair  |
|                                  | SC 900                        | Bass Ref.   | 8                       |                           |               | ¾                        | Dome               |  | 40-22 ±3                                    | 92                      | 15   | 2.7k                      | 8/6                              | 37 x 9 x 12                          | Satin Blk. Satin Blk.     | Blk. Knit                 | 57                | 799.00 Pair  |
|                                  | CVA                           | Home Th.; Ctr. Ch.                                      | (2)6½                   |                           |               | ¾                        | Dome               |  | 45-20 ±3                                    | 90                      | 10   | 2.3k                      | 8/7                              | 24 x 9 x 9                           | Satin Blk. Satin Blk.     | Blk. Knit                 | 37                | 299.00 Each  |
|                                  | CVA Mini                      | Home Th.; Ctr. Ch.                                      | (2)5                    |                           |               |                          |                    |  | 100-12 ±3                                   | 90                      | 10   |                           | 8/7                              | 16 x 8 x 7                           | Satin Blk. Satin Blk.     | Blk. Knit                 | 18                | 199.00 Each  |
|                                  | CVA Micro                     | Home Th.; Ctr. Ch.                                      | (2)4                    |                           |               |                          |                    |  | 100-12 ±3                                   | 90                      | 5  |                           | 8/7                              | 13 x 7 x 6                           | Satin Blk. Satin Blk.     | Blk. Knit                 | 16                | 149.00 Each  |
|                                  | CAMBRIDGE PHYSICS (Continued) | G-7/2   | Vented                  | 6½                        |               |                          | ¾                  | Dome   |   | 60-22 ±3                | 8  | 3k                        | 8/                               | 16 x 12 x 5                          | Oak Vnl. Oak Vnl.         | Gray Knit Gray Knit       | 12                | 300.00 Pair  |
| G-11/2                           |                               | Vented  | 8                       |                           |               | 1                        | Dome               |  | 38-25 ±3                                    | 12                      | 2.2k   | 8/                        | 19 x 12 x 8                      | Oak Vnl. Oak Vnl.                    | Gray Knit Gray Knit       | 18                        | 450.00 Pair       |              |
| G-33/2                           |                               | Pas. Rad.   | 8                       |                           |               | 1                        | Dome               |  | 28-25 ±3                                    | 15                      | 1.4k   | 8/                        | 29 x 18 x 8                      | Oak Vnl. Oak Vnl.                    | Gray Knit Gray Knit       | 28                        | 700.00 Pair       |              |

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# LOUDSPEAKERS

| MANUFACTURER                  | Model                 | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W Midrange-M, Tweeter-T, Super Tweeter-ST | Angular Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish           | Grille Color and Material | Weight, Lbs. Each | Price, \$        |
|-------------------------------|-----------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|---|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------------|---------------------------|-------------------|------------------|
| CAMBRIDGE PHYSICS (Continued) | G-66/2                | Vented  | 8                       | 3                         | Dome          | 1                        | Dome         |   | 23-25 ±3                                   | 30                      | 400.4k                                       | 8/                        | 44 x 18 x 12                     | Oak                                  | Gray Knit        | 81                        | 2000.00 Pair      |                  |
|                               | K-5/2                 | Vented  | 5 1/4                   |                           |               | 3/4                      | Dome         |   | 70-22                                      | 8                       |  | 8/                        | 12 x 8 x 7                       | Oak Vnl.                             | Gray Knit        | 9                         | 225.00 Pair       |                  |
| CAMBRIDGE SOUNDWORKS          | Eleven A              | Powered (w/record output)                               | 7                       | 3                         | Cone          | 3/4                      | Dome         |   |  | Inc.                    | 200,2.2k                                     |                           | Suitcase System                  | Blk.                                 | Blk. Mtl.        | 23                        | 729.00 Sys. w/Amp |                  |
|                               | Eleven Stationary     | Powered Ac. Sus.; Sat. & Subwoof.                       | 7                       | 3                         | Cone          | 3/4                      | Dome         |   |  | Inc.                    | 200,2.2k                                     |                           | Three Pieces                     | Gray, Blk. Opt.                      | Blk. Mtl.        | 36                        | 649.00 Sys.       |                  |
|                               | New Ensemble          | Ac. Sus.; Sat. & Subwoof.                               | (2)8,4                  |                           |               | 1 3/4, %                 | Cone, Dome   | M,T   |  | 85                      | 25   | 140,1.9k                  | 6/                               | Four Pieces                          | Blk. Opt.        | Blk. Mtl.                 | 52                | From 549.00 Sys. |
|                               | New Ensemble II       | Ac. Sus.; Sat. & Subwoof.                               |                         |                           |               | 1 3/4, %                 | Cone, Dome   | M,T   |  | 85                      | 25   | 140,1.9k                  | 6/                               | Three Pieces                         | Opt.             | Blk. Mtl.                 | 36                | 439.00 Sys.      |
|                               | Ensemble III          | Ac. Sus.; Sat. & Subwoof.                               | 6 1/2                   | 3 1/2                     |               | 3/4                      | Dome         |   |  |                         |  | 6/                        | Three Pieces                     |                                      | Blk. Mtl.        | 15                        | 329.00 Sys.       |                  |
|                               | Ambiance              | Ac. Sus.  | 6 1/2                   |                           |               | 1                        | Dome         | No  |  | 83                      | 20   | 1.8k                      | 8/                               | 7 x 11 x 5                           | Opt.             | Blk. Mtl.                 | 10                | From 350.00 Pair |
|                               | Ambiance In-Wall      | In-Wall; Ac. Sus.                                       | 6 1/2                   |                           |               | 1                        | Dome         |   |  | 83                      | 20   | 1.8k                      | 8/                               | 8 x 12 x 4                           |                  | Mtl.                      | 9                 | 329.00 Pair      |
|                               | Ten-A Six             | Ac. Sus.  | 3                       |                           |               | 3/4                      | Dome         | No  |  | 83                      | 10   | 2.2k                      | 4/                               | 4 x 7 x 3                            | Nxtl. Opt., Wood | Blk. Mtl., Gray           | 3                 | 160.00 Pair      |
|                               | Surround              | Dipole  | 4                       |                           |               | (2)2 1/2                 | Cone         |   |  |                         |  | 8/                        | 8 x 5 x 6                        | Nxtl.                                | Blk. Mtl.        |                           | 399.00 Pair       |                  |
|                               | Surround II           | Dipole  | 3 1/2                   |                           |               | 2 1/2                    | Cone         |   |  |                         |  | 8/                        | 5 x 7 x 5                        | Nxtl.                                | Blk. Mtl.        |                           | 249.00 Pair       |                  |
|                               | Powered Subwoofer     | Powered Ac. Sus.; Subwoof.                              | 12                      |                           |               |                          |              | W   |  | 140                     | Inc.   | 60/80/100/140 (Sel.)      | 8/                               | 27 x 16 x 10                         | Blk.             | Blk. Mtl.                 | 56                | 699.00 Each      |
|                               | CANON                 | S-30  | Wide Imaging Stereo     | 5 1/4                     |               |                          | 3/4          | Dome  |  | 70-18 ±4                | 90   | 10                        | 2.5k                             | 6/                                   | 11 x 9 x 10      | Blk.                      | Blk. Knit         | 10               |
| S-35                          |                       | Wide Imaging Stereo                                     | 5 1/4                   |                           |               | 3/4                      | Dome         |   | 70-22 ±3                                   | 88                      | 10   | 4k                        | 6/                               | 11 x 9 x 10                          | Blk.             | Blk. Knit                 | 7                 | 399.00 Pair      |
| CANTON                        | SC-10                 | Ctr. Ch.  | 5 1/4                   |                           |               | 3/4                      | Dome         |   | 80-20 ±2                                   | 86                      | 10   | 4k                        | 8/                               | 6 x 14 x 6                           | Blk.             | Blk. Knit                 | 10                | 199.00 Each      |
|                               | AV 500                | Bass Ref.   | (2)4                    |                           |               | 1                        | Dome         |   | 40-30                                      | 88                      |  | 3k                        | 4/                               | 17 x 5 x 6                           | Opt.             | Opt., Mtl.                | 10                | 400.00 Each      |
|                               | AV 700                | Bass Ref.; Ctr. Ch.                                     | (2)4                    |                           |               | 1                        | Dome         |   | 40-30                                      | 88                      |  | 3k                        | 4/                               | 17 x 5 x 6                           | Opt.             | Blk. Mtl.                 | 10                | 375.00 Each      |
|                               | AV 950                | Bass Ref.   | (2)7                    |                           |               | 1                        | Dome         |   | 26-30                                      | 88                      |  | 2.8k                      | 4/                               | 9 x 20 x 10                          | Opt.             | Opt., Mtl.                | 25                | 700.00 Each      |
|                               | Patio 160             | Outdoor; Ac. Sus.                                       | 6                       |                           |               | 1                        | Dome         |   | 42-30                                      | 87                      |  | 2.5k                      | 4/                               | 7 x 11 x 5                           | Opt.             | Opt., Mtl.                | 8                 | 450.00 Pair      |
|                               | Fonissimo             | Sat. & Subwoof.   | (2)7                    |                           |               | 1                        | Dome         |   | 22-30                                      |                         |  | 120,2.2k                  | 4/                               | Three Pieces                         | Opt.             | Opt., Mtl.                | 32                | 829.00 Sys.      |
|                               | Fonissimo S4          | 4 Sats. & Subwoof.                                      | (2)7                    |                           |               | 1                        | Dome         |   | 20-30                                      |                         |  | 120,2.2k                  | 4/                               | Five Pieces                          | Opt.             | Opt., Mtl.                | 25                | 1500.00 Sys.     |
|                               | Combi SC              | Bass Ref.; Sat. & Subwoof. w/Active EQ                  | 9                       | 4                         | Cone          | 1                        | Dome         |   | 22-30                                      | 86                      |  | 120,3.3k                  | 4/                               | Three Pieces                         | Opt.             | Opt., Mtl.                | 25                | 1500.00 Sys.     |
|                               | HC 100                | Ac. Sus.  | 4                       |                           |               | 1                        | Dome         |   | 48-30                                      | 87                      |  | 1.7k                      | 4/                               | 5 x 8 x 6                            | Opt.             | Opt., Mtl.                | 5                 | 300.00 Pair      |
|                               | Plus S                | Ac. Sus.  | 4                       |                           |               | 1                        | Dome         |   | 45-30                                      | 87                      |  | 2.2k                      | 4/                               | 8 x 5 x 4                            | Opt.             | Opt., Mtl.                | 6                 | 350.00 Pair      |
|                               | Plus X                | Ac. Sus.  | 4 1/2                   |                           |               | 1                        | Dome         |   | 45-30                                      | 87                      |  | 2.5k                      | 4/                               | 5 x 8 x 5                            | Opt.             | Opt., Mtl.                | 6                 | 375.00 Each      |
|                               | Plus F                | Ac. Sus.  | 4                       |                           |               | 1                        | Dome         |   | 48-30                                      | 87                      |  | 2.5k                      | 4/                               | 7 x 11 x 3                           | Opt.             | Opt., Mtl.                | 5                 | 400.00 Pair      |
|                               | Plus D                | Bass Ref.   | 6                       |                           |               | 1                        | Dome         |   | 41-30                                      | 88                      |  | 2.5k                      | 4/                               | 7 x 11 x 7                           | Opt.             | Opt., Mtl.                | 9                 | 500.00 Pair      |
|                               | Plus C                | Ac. Sus.; Subwoof.                                      | 12                      |                           |               |                          |              | W   | 22-120                                     | 89                      |  | 120                       | 4/                               | 14 x 14 x 13                         | Opt.             | Opt., Mtl.                | 26                | 600.00 Each      |
|                               | Plus Alpha 1          | Powered Ac. Sus.; Subwoof.                              | 12                      |                           |               |                          |              | W   | 20-120                                     |                         |  | 60-120 (Var.)             | 4/                               | 13 x 15 x 15                         | Opt.             | Opt., Mtl.                | 40                | 1100.00 Each     |
|                               | Fonum 251 DC          | Bass Ref.   | 6                       |                           |               | 1                        | Dome         |   | 42-26                                      |                         |  | 3.2k                      | 4/                               | 8 x 12 x 8                           | Blk. Vnl.        | Blk. Mtl.                 | 10                | 329.00 Pair      |
|                               | Fonum 301 DC          | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |   | 38-26                                      |                         |  | 3k                        | 4/                               | 9 x 14 x 9                           | Blk. Vnl.        | Blk. Mtl.                 | 13                | 439.00 Pair      |
|                               | Fonum 501 DC          | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |   | 30-26                                      |                         |  | 3.2k                      | 4/                               | 10 x 32 x 11                         | Blk. Vnl.        | Blk. Mtl.                 | 34                | 829.00 Pair      |
|                               | Fonum 601 DC          | Bass Ref.   | 8                       |                           | Cone          | 1                        | Dome         |   | 25-26                                      |                         |  | 300,3k                    | 4/                               | 10 x 35 x 11                         | Blk. Vnl.        | Blk. Mtl.                 | 40                | 1139.00 Pair     |
|                               | Fonum 701 DC          | Bass Ref.   | 8                       | 8                         | Cone          | 1                        | Dome         |   | 20-26                                      |                         |  | 300,3.5k                  | 4/                               | 10 x 39 x 12                         | Blk. Vnl.        | Blk. Mtl.                 | 49                | 1549.00 Pair     |
|                               | Inwall 6              | In-Wall; Inf. Baf.                                      | 6                       |                           |               | 1/2                      | Dome         |   | 45-22                                      | 89                      |  | 2.5k                      | 8/                               | 7 x 7 x 3                            | Opt.             | Opt.                      | 5                 | 450.00 Pair      |
|                               | Inwall 9              | In-Wall; Inf. Baf.                                      | 9                       |                           |               | 1                        | Dome         |   | 34-22                                      | 89                      |  | 2.5k                      | 8/                               | 10 x 10 x 3                          | Opt.             | Opt.                      | 7                 | 600.00 Pair      |
| Karat 920 DC                  | Bass Ref.             | 8   |                         |                           | 1             | Dome                     |              | 36-30   | 91   |                         | 2.8k   | 4/                        | 9 x 13 x 9                       | Opt.                                 | Opt., Mtl.       | 12                        | 750.00 Pair       |                  |
| Karat 930 DC                  | Bass Ref.             | 9   |                         |                           | 1             | Dome                     |              | 30-30   | 92   |                         | 2.8k   | 4/                        | 10 x 17 x 10                     | Opt.                                 | Opt., Mtl.       | 22                        | 1000.00 Pair      |                  |
| Karat 950 DC                  | Bass Ref.             | 7   |                         |                           | 1             | Dome                     |              | 26-30   | 88   |                         | 2.8k   | 4/                        | 9 x 20 x 10                      | Opt.                                 | Opt., Mtl.       | 24                        | 1250.00 Pair      |                  |
| Karat SC                      | Bass Ref. w/Active EQ | 8   |                         |                           | 1             | Dome                     |              | 22-30   | 86   |                         | 3k   | 4/                        | 9 x 13 x 10                      | Opt.                                 | Opt., Mtl.       | 19                        | 2000.00 Pair      |                  |
| ERGO 70 DC                    | Bass Ref.             | 6 1/4   | 6 1/4                   | Cone                      | 1             | Dome                     |              | 25-30   | 88   |                         | 300,3.5k                                     | 4/                        | 8 x 35 x 10                      | Opt.                                 | Opt., Mtl.       | 38                        | 1750.00 Pair      |                  |
| ERGO 80 DC                    | Bass Ref.             | 8   |                         | Cone                      | 1             | Dome                     |              | 22-30   | 88   |                         | 300,3.5k                                     | 4/                        | 9 x 37 x 11                      | Opt.                                 | Opt., Mtl.       | 42                        | 2000.00 Pair      |                  |
| ERGO 90 DC                    | Bass Ref.             | (2)8  | 6 1/4                   | Cone                      | 1             | Dome                     |              | 20-30   | 88   |                         | 300,3.5k                                     | 4/                        | 10 x 40 x 12                     | Opt.                                 | Opt., Mtl.       | 50                        | 3000.00 Pair      |                  |
| ERGO SC-S                     | Bass Ref. w/Active EQ | 7   | 7                       | Cone                      | 1             | Dome                     |              | 18-30   | 87.5                                       |                         | 300,3.5k                                     | 4/                        | 9 x 35 x 10                      | Opt.                                 | Opt.             | 41                        | 2500.00 Pair      |                  |
| ERGO SC-L                     | Bass Ref. w/Active EQ | 9   | 6                       | Cone                      | 1             | Dome                     |              | 18-30   | 89   |                         | 800,3.5k                                     | 4/                        | 10 x 41 x 12                     | Opt.                                 | Opt., Knit Fabr. | 52                        | 4000.00 Pair      |                  |
| CARVER                        | AL-III                | Ribbon Dipole, Hybrid                                   | 10                      |                           |               | 48                       | Ribbon       | W.M. T  | 34-20 ±3                                   | 89                      | 100  | 150                       | 8/3.3                            | 15 x 73 x 17                         | Opt.             |                           | 80                | 1700.00 Pair     |
| CASCADE AUDIO SYSTEMS         | 3.16                  | Aperiodic   | 7                       | 6 1/2                     | Cone          | 1                        | Dome         | M.T   | 41-20 ±3                                   | 88                      | 35   | 525,2.6k                  | 8/3                              | 43 x 10 Dia.                         | Opt.             | Blk. Knit                 | 73                | 1650.00 Pair     |
|                               | 4.26                  | Aperiodic   | 10                      | (2)6 1/2                  | Cone          | 1                        | Dome         | M.T   | 30-20 ±3                                   | 90                      | 40   | 90,2.9k                   | 8/3                              | 54 x 12 Dia.                         | Opt.             | Blk. Knit                 | 118               | 2750.00 Pair     |
| CASTLE ACOUSTICS              | Trent II              | Twin Ports  | 5                       |                           |               | 1 1/4                    |              |   | 70-22                                      | 89                      | 15   | 8/                        | 14 x 7 x 8                       | Opt., Wood Ven.                      | Blk. Knit        | 8                         | 349.00 Pair       |                  |
|                               | Durham 900            | Bass Ref.   | 5                       |                           |               | 1                        | Dome         |   | 60-22                                      | 90                      | 15   | 8/                        | 16 x 8 x 10                      | Opt., Wood Ven.                      | Blk. Knit        | 15                        | 529.00 Pair       |                  |
|                               | York                  | Twin Ports  | 6                       |                           |               | 1                        | Dome         |   | 50-22                                      | 89                      | 25   | 8/                        | 17 x 9 x 10                      | Opt., Wood Ven.                      | Blk. Knit        | 16                        | 669.00 Pair       |                  |
|                               | Chester               | 1/4-Wave Bass Loading                                   | 6                       |                           |               | 1                        | Dome         |   | 44-25                                      | 90                      | 30   | 8/                        | 36 x 9 x 10                      | Opt., Wood Ven.                      | Blk. Knit        | 37                        | 1499.00 Pair      |                  |

(Continued)

# Introducing THIEL speakers tailored for Home Theater



Main speaker pair—the THIEL model CS3.6. Rear and center channel speakers—the THIEL model SCS.

## The best speakers for music are also the best speakers for video sound

**T**HE EXCITEMENT OF MOVIES IS MORE THAN VISUAL. It lies in the emotion of involving musical soundtracks and in the sonic impact of spectacular special effects that transport you from your living room and immerse you in the action.

THIEL speakers are an excellent choice for delivering all there is to hear and feel in home theater. Because they are designed to accurately and completely reproduce the incoming signal, THIEL speakers deliver all the realism, dynamics, and spatial dimensions of a movie soundtrack in the same way they accurately and naturally reproduce music-only recordings.

THIEL's *Coherent Source*® designs preserve the time and phase information in the movie soundtrack, so

spatial information is accurately reproduced. Sounds come from specific points and move realistically around a three-dimensional soundstage. THIEL's exceptionally uniform tonal balance allows voices to sound natural and authentic, not nasal or constricted. Subtle details of a rainshower or a shoe striking the pavement are easily heard because of THIEL speakers' unusually high degree of clarity. From the impact of explosions to the quiet rustling of a leaf, THIEL speakers' wide dynamic range fills the senses with extraordinary realism.

THIEL offers seven sonically matched speaker models priced from \$1,350 to \$12,300 per pair—all suitable for home theater applications. Visit your nearest THIEL dealer for just the right fit.

# LOUDSPEAKERS

| MANUFACTURER                        | Model                                   | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer: W, Midrange: M, Tweeter: T, Super Tweeter: ST | Applicable Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms, Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish          | Grille Color and Material | Weight, Lbs. Each     | Price, \$                    |
|-------------------------------------|---|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-----------------|---------------------------|-----------------------|------------------------------|
| CASTLE ACOUSTICS (Continued)        | Howard                                  | ¼-Wave Bass Loading                                     | (2)6                    |                           |               | 1                        | Dome         |  | 40-25   | 90                      | 30   |                           | 8/                               | 41 x 10 x 16                         | Opt., Wood Ven. | Blk. Knit                 | 55                    | 1999.00 Pair                 |
|                                     | Winchester                              | ¼-Wave Bass Loading                                     | (2)6                    |                           |               | 1                        | Dome         |  | 35-25   | 90                      | 30   |                           | 8/                               | 44 x 9 x 19                          | Opt., Wood Ven. | Blk. Knit                 | 68                    | 2999.00 Pair                 |
| CDE/ CLASSICAL DESIGN & ENGINEERING | Mini Monitor IV                         | Inf. Baf.   | 5½                      |                           |               | 1                        | Dome         |  | 50-20   | 90                      | 20   | 1.5k                      | 7/4                              | 7 x 11 x 9                           | Lacq. Teak      | Blk. Knit                 | 15                    | 750.00 Pair                  |
|                                     | Mini Monitor V                          | Inf. Baf.   | 5½                      |                           |               | 1                        | Dome         |  | 50-32   | 86                      | 20   | 1.5k                      | 7/4                              | 15 x 6 x 9                           | Lacq. Teak      | Blk. Knit                 | 15                    | 1250.00 Pair                 |
|                                     | Tower I                                 | Pas. Rad.   | 8                       | 7                         | Cone          | 1                        | Dome         |  | 40-20   | 91                      | 20   | 200,1.5k                  | 7/8                              | 8 x 37 x 12                          | Lacq. Blk.      | Blk. Knit                 | 47                    | 3100.00 Pair                 |
|                                     | Mini Tower & Double Subwoofer Reference | Inf. Baf. Sat. & Ported Subwoof.                        | 8                       | 5½                        | Cone          | 1                        | Dome         |  | 22-32   | 91                      | 40   | 150,1.5k                  | 4/16                             | Four Pieces                          | Lacq. Blk.      | Blk. Knit                 | 100 Sys.              | 5800.00 Sys.                 |
|                                     | Colossus                                | Inf. Baf. Sat. & Ported Subwoof.                        | (2)10<br>(2)8,<br>(6)10 | (2)5½                     | Cones         | 1                        | Dome         |  | 20-32   | 90                      | 50   | 100,1.5k                  |                                  | Four Pieces                          | Blk. Lacq.      | Blk. Knit                 | 500 Sys.<br>1100 Sys. | 42,000. Sys.<br>61,000. Sys. |
| CELESTION                           | 1                                       | Bass Ref.   | 4                       |                           |               | 1                        | Dome         |  | 68-20 ±3                                      | 89                      | 10   | 6.4k                      | 8/                               | 10 x 6 x 7                           | Opt.            | Blk.                      | 7                     | 199.00 Pair                  |
|                                     | 3 MK2                                   | Bass Ref.   | 5                       |                           |               | 1                        | Dome         |  | 52-20 ±3                                      | 91                      | 10   | 5k                        | 8/                               | 12 x 7 x 9                           | Opt.            | Blk.                      | 9                     | 289.00 Pair                  |
|                                     | 5 MK2                                   | Bass Ref.   | 6                       |                           |               | 1                        | Dome         |  | 50-20 ±3                                      | 92                      | 10   | 4k                        | 8/                               | 14 x 8 x 10                          | Opt.            | Blk.                      | 11                    | 399.00 Pair                  |
|                                     | 7 MK2                                   | Bass Ref.   | 6                       |                           |               | 1                        | Dome         |  | 47-20 ±3                                      | 92                      | 20   | 3.5k                      | 8/                               | 18 x 10 x 12                         | Blk.            | Blk.                      | 18                    | 499.00 Pair                  |
|                                     | 9                                       | Bass Ref.   | 6                       | 4½                        | Cone          | 1                        | Dome         |  | 48-20 ±3                                      | 92                      | 20   | 1k,4k                     | 8/                               | 20 x 8 x 10                          | Blk.            | Blk.                      | 16                    | 599.00 Pair                  |
|                                     | CS2                                     | Bass Ref.   | 4                       |                           |               | 1                        | Dome         |  | 63-20 ±3                                      | 89                      | 10   | 4k                        | 8/                               | 12 x 6 x 9                           | Dark Gray       | Blk.                      | 9                     | 229.00 Pair                  |
|                                     | CS4                                     | Bass Ref.   | 5                       |                           |               | 1                        | Dome         |  | 61-20 ±3                                      | 90                      | 10   | 4k                        | 8/                               | 13 x 7 x 9                           | Dark Gray       | Blk.                      | 11                    | 329.00 Pair                  |
|                                     | CS6                                     | Bass Ref.   | (2)5                    |                           |               | 1                        | Dome         |  | 44-20 ±3                                      | 91                      | 20   | 800,3k                    | 8/                               | 34 x 8 x 12                          | Dark Gray       | Blk.                      | 33                    | 699.00 Pair                  |
|                                     | CS8                                     | AFT   | (2)5                    | 4½                        | Cone          | 1                        | Dome         |  | 40-20 ±3                                      | 91                      | 20   | 1k,3k                     | 8/                               | 40 x 8 x 12                          | Dark Gray       | Blk.                      | 46                    | 799.00 Pair                  |
|                                     | SL6si                                   | Inf. Baf.   | 6½                      |                           |               | 1¼                       | Dome         |  | 60-20 ±3                                      | 84                      | 50   | 2.8k                      | 8/                               | 15 x 8 x 11                          | Opt.            | Blk.                      | 10                    | 899.00 Pair                  |
|                                     | SL100                                   | Inf. Baf.   | 6½                      |                           |               | 1¼                       | Dome         |  | 53-20 ±3                                      | 84                      | 50   | 2.2k                      | 8/                               | 17 x 8 x 10                          | Opt.            | Blk.                      | 11                    | 1199.00 Pair                 |
|                                     | SL300                                   | Trans. Line   | 6½                      |                           |               | 1¼                       | Dome         |  | 26-20 ±3                                      | 84                      | 50   | 2.2k                      | 8/                               | 38 x 8 x 13                          | Opt.            | Blk.                      | 22                    | 1799.00 Pair                 |
|                                     | SL600si                                 | Inf. Baf.   | 6½                      |                           |               | 1¼                       | Dome         |  | 60-20 ±3                                      | 82                      | 50   | 2.3k                      | 8/                               | 15 x 8 x 9                           | Dark Gray       | Blk.                      | 11                    | 2099.00 Pair                 |
|                                     | SL700SE                                 | Inf. Baf.   | 6½                      |                           |               | 1¼                       | Dome         |  | 60-20 ±3                                      | 82                      | 50   | 3k                        | 8/                               | 15 x 8 x 10                          | Light Gray      | Blk.                      | 14                    | 3399.00 Pair                 |
|                                     | MP1                                     | Bass Ref.   | 4½                      |                           |               | 1                        | Dome         |  | 70-20 ±3                                      | 90                      | 10   | 4k                        | 8/                               | 10 x 6 x 7                           | Opt.            | Blk.                      | 6                     | 299.00 Pair                  |
| MP Little 1                         | Inf. Baf.                               | (2)4½   |                         |                           | 1             | Dome                     |              | 90-20 ±3   | 90  | 10                      | 4k   | 8/                        | 8 x 6 x 4                        | Opt.                                 | Blk.            | 3                         | 199.00 Pair           |                              |
| Center 2                            | Bass Ref.                               | (2)4½   |                         |                           | 1             | Dome                     |              | 80-20 ±3   | 90  | 10                      | 4k   | 8/                        | 7 x 17 x 7                       | Opt.                                 | Blk.            | 8                         | 249.00 Each           |                              |
| CSC                                 | Inf. Baf.                               | (2)4  |                         |                           | 1             | Dome                     |              | 88-20 ±3   | 89  | 10                      | 2.5k   | 8/                        | 5 x 13 x 6                       | Dark Gray                            | Blk.            | 6                         | 179.00 Each           |                              |
| CSW                                 | Powered Subwoof.                        |   | 8                       |                           |               |                          | W            | 35-120 ±3  |   | 100 Inc.                | Var.   |                           |                                  | 10 x 21 x 18                         | Dark Gray       | Blk.                      | 28                    | 449.00 Each                  |
| CS-135                              | Subwoof.                                |   | 8                       |                           |               |                          |              | 38-143 ±3  | 89  | 25                      | 112  | 8/                        | 8 x 21 x 13                      | Dark Gray                            | Blk.            | 21                        | 249.00 Each           |                              |
| CELLD LTD.                          | Strad. Grand Master                     | Ac. Sus.  | (2)12                   | (8)2                      | Domes         | (8)2                     | Domes        |  |   | 200                     | 500,5k                                       | 2/1                       |                                  | 17 x 18 x 86                         | Dpt.            | Blk. Knit                 | 500                   | From 48,000. Pair            |
|                                     | Strad. Master                           | Ac. Sus.  | (2)12                   | (4)2                      | Domes         | (4)2                     | Domes        |  |   | 200                     | 500,5k                                       | 3/2                       |                                  | 17 x 18 x 62                         | Opt.            | Blk. Knit                 | 370                   | From 26,000. Pair            |
|                                     | Strad. Premiere                         | Variovent   | 12                      | 3                         | Dome          | 1                        | Dome         |  |   | 50                      | 500,7k                                       | 6/4                       |                                  | 17 x 18 x 45                         | Opt.            | Blk. Knit                 | 260                   | From 10,000. Pair            |
|                                     | Legend                                  | Ac. Sus.  | 12                      | 3                         | Dome          | 1                        | Dome         |  |   | 50                      | 500,5k                                       |                           |                                  | 14 x 12 x 26                         | Matte Blk.      | Blk. Knit                 | 80                    | 6000.00 Pair                 |
|                                     | Amati                                   | Ac. Sus.  | 12                      | (4)1½                     | Domes         | (4)¾                     | Domes        |  |   | 50                      | 400,5k                                       | 4/                        |                                  | 19 x 10 x 27                         | Blk. Oak        | Blk. Knit                 | 80                    | 10,000. Pair                 |
| CERWIN-VEGA                         | L-7                                     | Ported  | 7                       |                           |               | 1                        | Dome         |  | 40-20 ±3                                      | 92                      | 5  | 3.5k                      | 8/6                              | 9 x 14 x 8                           | Rswd. Vnl.      | Blk. Knit                 | 14                    | 170.00 Each                  |
|                                     | L-9                                     | Ported  | 10                      |                           |               | 1                        | Dome         |  | 40-20 ±3                                      | 93                      | 5  | 4k                        | 8/6                              | 13 x 22 x 11                         | Rswd. Vnl.      | Blk. Knit                 | 34                    | 220.00 Each                  |
|                                     | Re-20                                   | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 38-20 ±3                                      | 93                      |  | 8/                        | 20 x 11 x 11                     | Wal. Vnl.                            |                 |                           | 205.00 Each           |                              |
|                                     | Re-25                                   | Bass Ref.   | 10                      |                           |               | 1                        | Dome         |  | 38-20 ±3                                      | 95                      |  | 6/                        | 28 x 13 x 11                     | Wal. Vnl.                            |                 |                           | 310.00 Each           |                              |
|                                     | Re-30                                   | Bass Ref.   | 12                      | 4                         |               | 1                        | Dome         |  | 28-20 ±3                                      | 97                      |  | 4/                        | 32 x 16 x 14                     | Wal. Vnl.                            |                 |                           | 345.00 Each           |                              |
|                                     | Re-38                                   | Bass Ref.   | 15                      | 6½                        |               | 1                        | Dome         |  | 27-20 ±3                                      | 101                     |  | 4/                        | 36 x 18 x 18                     | Wal. Vnl.                            |                 |                           | 540.00 Each           |                              |
|                                     | VS-80                                   | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 38-20 ±3                                      | 94                      | 5  | 4k                        | 6/4                              | 10 x 10 x 11                         | Wal. Vnl.       | Blk. Knit                 | 26                    | 205.00 Each                  |
|                                     | VS-100                                  | Bass Ref.   | 10                      | 4                         | Cone          | 1                        | Dome         |  | 37-20 ±3                                      | 94                      | 5  | 600,5k                    | 6/4                              | 12 x 27 x 11                         | Wal. Vnl.       | Blk. Knit                 | 40                    | 310.00 Each                  |
|                                     | VS-120                                  | Bass Ref.   | 12                      | 4                         | Cone          | 1                        | Dome         |  | 28-22 ±3                                      | 97                      | 5  | 500,4k                    | 4/3,5                            | 16 x 32 x 14                         | Wal. Vnl.       | Blk. Knit                 | 57                    | 345.00 Each                  |
|                                     | VS-150                                  | Bass Ref.   | 15                      | 6½                        | Cone          | 1                        | Dome         |  | 28-22 ±3                                      | 102                     | 5  | 300,5k                    | 4/3,4                            | 18 x 35 x 18                         | Wal. Vnl.       | Blk. Knit                 | 90                    | 540.00 Each                  |
|                                     | DX-1                                    | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 40-18 ±3                                      | 92                      | 5  | 2.5k                      | 8/6,4                            | 11 x 20 x 11                         | Wood Vnl.       | Blk. Knit                 | 25                    | 205.00 Each                  |
|                                     | DX-3                                    | Bass Ref.   | 10                      | 4                         | Cone          | 1                        | Dome         |  | 37-18 ±3                                      | 94                      | 5  | 350,5k                    | 8/6,4                            | 13 x 28 x 11                         | Vnl. Wood       | Blk. Knit                 | 34                    | 320.00 Each                  |
|                                     | DX-5                                    | Bass Ref.   | 12                      | 4                         | Cone          | 1                        | Dome         |  | 36-18 ±3                                      | 96                      | 5  | 500,4k                    | 8/6,4                            | 15 x 31 x 10                         | Vnl. Wood       | Blk. Knit                 | 44                    | 345.00 Each                  |
|                                     | DX-7                                    | Bass Ref.   | 12                      | 6½                        | Cone          | 1                        | Dome         |  | 34-20 ±3                                      | 98                      | 5  | 250,5k                    | 4/3,5                            | 15 x 34 x 15                         | Vnl. Wood       | Blk. Knit                 | 64                    | 410.00 Each                  |
|                                     | DX-9                                    | Bass Ref.   | 15                      | 6½                        | Cone          | 1                        | Dome         |  | 30-20 ±3                                      | 101                     | 5  | 250,5k                    | 4/3,5                            | 18 x 36 x 18                         | Vnl. Wood       | Blk. Knit                 | 85                    | 555.00 Each                  |
|                                     | AT-8                                    | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 38-22 ±3                                      | 94                      | 5  | 3k                        | 6/4                              | 12 x 21 x 10                         | Dpt. Vnl.       | Blk. Knit                 | 26                    | 410.00 Pair                  |
|                                     | AT-10                                   | Bass Ref.   | 10                      | 5                         | Cone          | 1                        | Dome         | M,T  | 30-22 ±3                                      | 95                      | 5  | 400,3k                    | 6/4                              | 14 x 28 x 13                         | Opt. Vnl.       | Blk. Knit                 | 40                    | 620.00 Pair                  |
| AT-12                               | Bass Ref.                               | 12  | 5                       | Cone                      | 1             | Dome                     | M,T          | 28-28 ±3   | 97  | 5                       | 400,3k                                       | 6/4                       | 16 x 30 x 14                     | Opt. Vnl.                            | Blk. Knit       | 55                        | 690.00 Pair           |                              |
| AT-15                               | Bass Ref.                               | 15  | (2)5                    | Cones                     | 1             | Dome                     |              | 28-28 ±3   | 102   | 5                       | 400,3k                                       | 4/4                       | 19 x 36 x 18                     | Opt. Vnl.                            | Blk. Knit       | 85                        | 1080.00 Pair          |                              |
| HT-CTR                              | Home Th., Vented; Ctr. Ch.              | (2)6½   |                         |                           | 1             | Dome                     |              | 80-20 ±2   | 94  | 5                       |  | 4/6,5                     | 16 x 8 x 11                      | Blk. Vnl.                            | Blk. Knit       | 15                        | 320.00 Each           |                              |
| HT-MDC                              | Home Th., Ctr. Ch.                      |   | (2)5¼                   |                           | 1             | Dome                     |              | 100-20 ±3  | 94  |                         |  |                           |                                  | 6 x 14 x 6                           | Blk. Vnl.       | Blk. Knit                 |                       |                              |
| HT-SMC                              | Home Th., Ctr. Ch.                      | 4x10  |                         |                           |               |                          |              | 100-10 ±2  | 91  | 5                       |  | 8/8                       | 6 x 15 x 8                       | Blk. Vnl.                            | Blk. Knit       | 9                         | 165.00 Each           |                              |
| HT-110                              | Home Th., Vented Subwoof.               | 10  |                         |                           |               |                          |              | 38-100 ±2  | 94  | 5                       | 100  | 8/7                       | 13 x 17 x 24                     | Blk. Vnl.                            | Blk. Knit       | 53                        | 290.00 Each           |                              |
| HT-S6                               | Home Th., Vented Sat.                   |   | 6½                      | Cone                      | 1             | Dome                     |              | 100-20 ±2  | 92  | 5                       |  | 8/6,5                     | 8 x 11 x 9                       | Blk. Vnl.                            | Blk. Knit       | 10                        | 380.00 Pair           |                              |

(Continued)

# The Velodyne 15" Subwoofer: Controlling Brute Force Through Superb Engineering

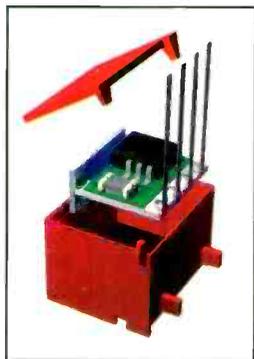
High-output, low distortion bass response can only be achieved by creating and controlling the power of brute force. Perfection of such an accomplishment demands superb engineering, critical manufacturing, and dedication to ideals: A feat, according to the audio press and listeners worldwide, that has been attained only by Velodyne Acoustics.

More than a decade of engineering excellence has generated Velodyne's "High Gain Servo" speakers to the forefront of the audio industry.

Velodyne's patented speakers are built in-house, to the most exacting specifications, using the finest materials available. With their superb design, engineering, and error-correction electronics, Velodyne's subwoofers remain the standard by which all others are judged.

## LOW MASS (2.5 GRAMS)

**ACCELEROMETER** The brains of Velodyne's patented "High Gain Servo System," this amazing device is mounted directly on the voice coil, and measures the actual movement of the driver. The information is sent to a circuit, which makes corrections for any deviations from the pure input signal. This "error correction" circuit virtually controls the motion of the driver, and eliminates distortion.



**HOLE PATTERN IN CONE** Used to break up unwanted standing waves radiating from the throat of the cone.

**HIGH DENSITY FOAM SURROUND  
PENOLIC IMPREGNATED LINEN SPIDER  
AND SPACER** To handle the long, 5/8 inch peak-to-peak cone excursion, Velodyne uses the strongest most durable surround and spider available.

**3 OUNCE RESIN REINFORCED  
CELLULOSE CONE**  
Disatisfied with "off the shelf" cones that flex and distort when called upon to reproduce the lowest bass frequencies, Velodyne designed the strongest and stiffest cone ever produced.

**3 INCH EDGEWOUND  
COPPER VOICE COIL**  
Carefully matched to the massive magnet structure, it assures constant linearity and instant response.

**STEEL BASKET**  
Specially designed to accept the deep cone and voice coil structure.

**26 LB. TOTAL MAGNET STRUCTURE**  
One of the largest magnet structures on any speaker, it provides the necessary torque required for maximum high-output, low distortion bass response. Includes:

**STEEL TOP AND BOTTOM PLATES**

**10 LB. CERAMIC MAGNET**

**STEEL POLE PIECE**

**3 1/2 LB CERAMIC SHIELDING MAGNET**

# Velodyne

**The Bottom Line In Bass**

Velodyne Acoustics, Inc.

1070 Commercial St., Suite 101 San Jose, CA 95112  
408/436-7270 800/835-6396

# LOUDSPEAKERS

| MANUFACTURER                         | Model                                  | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Super Tweeter=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish       | Grille Color and Material | Weight, Lbs. Each | Price, \$                 |
|--------------------------------------|--|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|---------------------------------|--------------------------------------|--------------|---------------------------|-------------------|---------------------------|
| CERWIN-VEGA<br>(Continued)           | HT-S5                                  | Home Th.; Vented Sat.                                   | 5                       |                           | Cone          | 1                        | Dome         |  | 125-20 ±3                                   | 60                      | 5  | 125                       | 8/8                             | 9 x 6 x 6                            | Blk. Vnl.    | Blk. Knit                 | 8                 | 330.00 Pair               |
|                                      | HT-210C                                | Home Th.; Ctr. Ch./Vented Subwoof.                      | (2)10                   | 6½                        | Cone          | 1                        | Dome         |  | 38-20 ±2                                    | 94                      | 5  |                           | 8/8                             | 33 x 19 x 20                         | Blk. Vnl.    | Blk. Knit                 | 108               | 650.00 Each               |
|                                      | HT-10D                                 | Home Th.; Bass Ref. Subwoof.                            | 10                      |                           |               |                          |              |  | 40-125 ±2                                   | 94                      | 5  | 125                       | 8/8                             | 13 x 19 x 17                         | Blk. Vnl.    | Blk. Knit                 | 34                | 330.00 Each               |
|                                      | HT-12D                                 | Home Th.; Bass Ref. Subwoof.                            | 12                      |                           |               |                          |              |  | 38-125                                      | 94                      | 5  | 125                       | 8/8                             | 15 x 19 x 24                         | Blk. Vnl.    | Blk. Knit                 | 54                | 445.00 Each               |
|                                      | HT-10PWR (with remote control)         | Home Th.; Powered Subwoof.                              | 10                      |                           |               |                          |              |  | 30-150 ±3                                   |                         | 100 Inc. 150 Inc.                            |                           |                                 | 13 x 17 x 17                         | Blk. Vnl.    | Blk. Knit                 |                   |                           |
|                                      | HT-12PWR (with remote control)         | Home Th.; Powered Subwoof.                              | 12                      |                           |               |                          |              |  | 30-150                                      |                         |  |                           |                                 | 15 x 18 x 23                         | Blk. Vnl.    | Blk. Knit                 |                   |                           |
|                                      | System 7 Sensurround                   | Home Th.; 4 Sats., Ctr. Ch. & 2 Subs.                   |                         |                           |               |                          |              |  |   |                         |  |                           |                                 | Seven Pieces                         | Blk. Vnl.    | Blk. Knit                 |                   | 1660.00 Sys.              |
| System 6 Sensurround                 | Home Th.; 4 Sats., Ctr. Ch. & Subwoof. |   |                         |                           |               |                          |              |  |   |                         |  |                           | Six Pieces                      | Blk. Vnl.                            | Blk. Knit    |                           | 1155.00 Sys.      |                           |
| System 5 W-8x2                       | Home Th.; 4 Sats. & Ctr. Ch./Subwoof.  |   |                         |                           | 1             | Dome                     |              | 40-20 ±2   | 92  | 5                       | 3.5k   | 8/6.8                     | 15 x 11 x 4                     | Matte Wht.                           | Wht. Mtl.    |                           | 530.00 Pair       |                           |
| W-SUB8                               | Home Th.; In-Wall Subwoof.             |   | 8                       |                           |               |                          |              | 40-125 ±3  | 92  | 5                       | 125  | 8/6.8                     | 15 x 11 x 4                     | Matte Wht.                           | Wht. Mtl.    |                           | 450.00 Pair       |                           |
| CHAPMAN SOUND                        | T-7                                    | Trans. Line   | 10                      | 6½                        | Cone          | 1                        | Dome         | No   | 28-20 ±3                                    | 90                      | 30   | 125,3k                    | 4/3                             | 13 x 10 x 44                         | Opt.         | Blk. Knit                 | 100               | 2250.00 Pair              |
|                                      | T-8                                    | Trans. Line   | 10                      | 6½                        | Cone          | 2,1                      | Domes        | No   | 28-20 ±3                                    | 89                      | 50   | 125,2.5k, 10k             | 4/3                             | 14 x 10 x 46                         | Opt.         | Blk. Knit                 | 115               | 3500.00 Pair              |
| CHASE TECHNOLOGIES                   | Trio                                   | Sat. & Subwoof.   | 8                       | 4                         |               | 1                        | Dome         | W,T  | 30-20 ±3                                    | 90                      | 30   | 100,2.5k                  | 6/8                             | Three Pieces                         | Blk.         | Blk. Mtl.                 | 35 Sys.           | 399.00 Sys.               |
|                                      | ELF-1                                  | Home Th.  | 4                       | 2                         | Cone          | ¾                        | Dome         |  | 80-18 ±3                                    | 85                      | 10   | 1k,2k                     | 6/8                             | 8 x 5 x 5                            | Opt., Poly.  | Opt., Mtl.                | 5                 | 129.95 Pair               |
|                                      | WS-5500                                | 900-MHz Wireless  | 5                       |                           |               |                          |              |  | 100-16 ±3                                   | 90                      | 5  |                           | 4/4                             | 9 x 6 x 5                            | Opt., Plast. | Mtl.                      | 3                 | 299.00 Pair w/Transmitter |
| CLASSIC AUDIO REPRODUCTIONS          | Hartsfield                             | Folded Horn   | 15                      | 2                         | Horn          | (2)1½                    | Slot Horns   | M,T  | 31.5-16 ±5                                  | 110                     | 10   | 800,7k                    | 8/6                             | 47 x 47 x 24                         | Opt.         | Opt.                      | 300               | 8950.00 Pair              |
| CLEMENTS                             | 308di                                  | 4th Order; Vented                                       | (2)8                    |                           |               | 1                        | Dome         |  | 35-20 ±3                                    | 92                      |  | 2.8k                      | 8/                              | 11 x 11 x 40                         | Blk. Oak     | Blk. Knit                 |                   | 425.00 Each               |
|                                      | 208di                                  | 4th Order; Vented                                       | 8                       |                           |               | 1                        | Dome         |  | 38-20 ±3                                    | 91                      |  | 2.8k                      | 8/                              | 11 x 11 x 32                         | Blk. Oak     | Blk. Knit                 |                   | 320.00 Each               |
|                                      | 108di                                  | 4th Order; Vented                                       | 8                       |                           |               | ¾                        | Dome         |  | 40-20 ±3                                    | 90                      |  | 2.5k                      | 8/                              | 11 x 11 x 24                         | Blk. Oak     | Blk. Knit                 |                   | 225.00 Each               |
|                                      | 107di                                  | 4th Order; Vented                                       | 6½                      |                           |               |                          | Dome         |  | 50-20 ±3                                    | 89                      |  | 3k                        | 8/                              | 10 x 11 x 17                         | Blk. Oak     | Blk. Knit                 |                   | 180.00 Each               |
|                                      | 105di                                  | 4th Order; Vented                                       | 4½                      |                           |               |                          | Dome         |  | 70-20 ±3                                    | 89                      |  | 3.5k                      | 8/                              | 7 x 8 x 11                           | Blk. Oak     | Blk. Knit                 |                   | 115.00 Each               |
|                                      | 204c "Richter"                         | Home Th.; Ctr. Ch. Powered Vented Subwoof.              | (2)4 10                 |                           |               | ¾                        | Dome         | W  | 70-20 ±3 30-120 ±3                          | 89 89                   | 15 100 Inc.                                  | 3k 60/80/100 (Sel.)       | 6/4                             | 17 x 6 x 8 16 x 16 x 16              | Blk. Vnl.    | Blk. Knit                 | 12 60             | 220.00 Each 499.95 Each   |
| COLLETTI SPEAKER SYSTEMS             | Minuscolo                              | Ported  | 4                       |                           |               | 3½                       | Horn         | No   | 65-20                                       | 92                      | 15   | 2,96k                     | 8/                              | 12 x 8 x 7                           | Opt.         | Opt.                      | 12                | 579.00 Pair               |
|                                      | Bambino                                | Ported  | 6½                      |                           |               | 3½                       | Horn         | No   | 50-20                                       | 92                      | 15   | 2,96k                     | 8/                              | 16 x 10 x 8                          | Opt.         | Opt.                      | 20                | 829.00 Pair               |
|                                      | Signora                                | Ported  | 6½                      |                           |               | 3½                       | Horn         | No   | 50-20                                       | 92                      | 15   | 2,96k                     | 8/                              | 16 x 10 x 8                          | Opt.         | Opt.                      | 25                | 899.00 Pair               |
|                                      | Piccolo                                | Ported  | 6½                      |                           |               | 3½                       | Horn         | No   | 38-20                                       | 92                      | 15   | 2,96k                     | 8/                              | 19 x 12 x 10                         | Opt.         | Opt.                      | 30                | 979.00 Pair               |
|                                      | Grande                                 | Ported  | 8                       | 5¼                        | Cone          | 3½                       | Horn         | No   | 35-20                                       | 92                      | 15   | 155,2,96k                 | 8/                              | 32 x 14 x 14                         | Opt.         | Opt.                      | 75                | 2599.00 Pair              |
|                                      | Decimo                                 | Ported  | 10                      | 5¼                        | Cone          | 3½                       | Horn         | No   | 30-20                                       | 92                      | 15   | 155,2,96k                 | 8/                              | 34 x 16 x 16                         | Opt.         | Opt.                      | 85                | 2799.00 Pair              |
|                                      | Torre                                  | Ported  | 12                      | 5¼                        | Cone          | 3½                       | Horn         | No   | 25-20                                       | 92                      | 15   | 155,2,96k                 | 8/                              | 36 x 18 x 18                         | Opt.         | Opt.                      | 95                | 2999.00 Pair              |
|                                      | Quattro                                | Sat. & Subwoof.   | 12                      | 5¼                        | Cone          | 3½                       | Horn         | No   | 25-20                                       | 92                      | 15   | 155,2,96k                 | 8/                              | Four Pieces                          | Opt.         | Opt.                      | 130 Sys.          | 2839.00 Sys.              |
|                                      | Ultimo                                 | Sat. & Subwoof.   | 15                      | 5¼                        | Cone          | 3½                       | Horn         | No   | 20-20                                       | 92                      | 15   | 155,2,96k                 | 8/                              | Four Pieces                          | Opt.         | Opt.                      | 165 Sys.          | 3099.99 Sys.              |
|                                      | Siciliano                              | Sat. & Subwoof.   | 15                      | 8                         | Cone          | 3½                       | Horn         | No   | 20-20                                       | 92                      | 100  | 155,2,96k                 | 4/                              | Eight Pieces                         | Opt.         | Opt.                      | 400 Sys.          | 6000.00 Sys.              |
| COMMUNITY PROFESSIONAL SOUND SYSTEMS | CSV52                                  | Bass Ref.   | 15                      | 6½                        | Cone          | 1                        | PZT          |  | 40-20                                       | 119                     | 200  | 500,5k                    | 4/                              | 34 x 18 x 18                         | Oak Lam.     | Brn. Knit                 | 88                | 999.00 Each               |
|                                      | CSV35                                  | Bass Ref.   | 15                      |                           |               | 1                        | PZT          |  | 60-18                                       | 121                     | 150  | 2.5k                      | 8/                              | 24 x 18 x 14                         | Oak Lam.     | Brn. Knit                 | 48                | 499.00 Each               |
|                                      | CSV25                                  | Bass Ref.   | 12                      |                           |               | 1                        | PZT          |  | 70-18                                       | 118                     | 100  | 3k                        | 8/                              | 19 x 15 x 14                         | Oak Lam.     | Brn. Knit                 | 38                | 438.00 Each               |
|                                      | CSV8                                   | Bass Ref.   | 8                       |                           |               | 1                        | PZT          |  | 60-18                                       | 114                     | 100  | 2.5k                      | 8/                              | 14 x 14 x 9                          | Oak Lam.     | Brn. Knit                 | 23                | 226.00 Each               |
| CONCENTRIC SPEAKER TECHNOLOGY        | Monitor                                | Concentric Rings  | 7                       |                           |               | 1                        |              |  | 40-22                                       | 89                      |  | 2k                        | 5/                              |                                      | Leather      |                           | 100               | 12,000. Pair              |
|                                      | Compact                                | Concentric Rings  | 7                       |                           |               | 1                        |              |  | 53-20                                       | 89                      |  | 2k                        | 5/                              |                                      | Leather      |                           | 85                | 7500.00 Pair              |
|                                      | Reference                              | Concentric Rings; Subwoof.                              | 12                      |                           |               |                          |              |  | 22-80                                       |                         |  | 80                        | 6/                              |                                      | Leather      |                           | 170               | 12,000. Pair              |
|                                      | Super Bass Monitor                     | Concentric Rings; Subwoof.                              | 10                      |                           |               |                          |              |  | 28-80                                       |                         |  | 80                        | 6/                              |                                      | Leather      |                           | 140               | 7500.00 Pair              |
| COUNTERPOINT                         | Bijou                                  | Ctr. Ch.; Sealed Monopole                               | (2)5¼                   |                           |               | 1                        | Dome         |  | 60-20                                       | 87                      | 50   | 2k                        |                                 | 7 x 18 x 8                           | Blk. Nxtl.   | Blk. Knit                 | 22                | 495.00 Each               |
|                                      | Mystic                                 | THX; Dipole   | (2)5¼                   |                           |               | 1                        | Dome         |  | 60-20                                       | 87                      | 50   | 2k                        |                                 | 10 x 7 x 8                           | Blk. Nxtl.   | Blk. Knit                 | 22                | 795.00 Pair               |
|                                      | Orpheum                                | Sealed Monopole   | (2)6½                   |                           |               | 1                        | Dome         |  | 60-22                                       | 87                      | 50   | 2k                        |                                 | 14 x 9 x 10                          | Blk. Nxtl.   | Blk. Knit                 | 25                | 895.00 Pair               |
|                                      | Diplomat                               | Sealed Monopole   | 6                       |                           |               | 1                        | Dome         |  | 60-22                                       | 87                      | 50   | 2k                        |                                 | 17 x 12 x 12                         | Opt., Wood   | Blk. Knit                 | 46                | 1295.00 Pair              |
|                                      | Embassy                                | Subwoof.  | 8                       |                           |               |                          |              | W  | 30-60                                       | 87                      | 50   |                           |                                 | 28 x 12 x 16                         | Blk. Lacq.   | Blk. Knit                 | 65                | 795.00 Pair               |
| Embassy HC                           | Home Th.; Bass Ref. Subwoof.           | 12  |                         |                           |               |                          |              | 26-60  | 87  | 50                      |  |                           | 26 x 17 x 17                    | Blk. Nxtl.                           | Blk. Knit    | 65                        | 795.00 Pair       |                           |
| CREATIVE ACOUSTICS                   | DECO 7                                 | In-Ceiling; Inf. Baf.                                   | 6½                      |                           |               | 1                        | Dome         |  | 55-19 ±5                                    | 83                      | 5  | 5k                        | 6/3                             | 8 Dia.                               | Wht.         | Opt.                      | 5                 | 450.00 Pair               |
|                                      | DECO 5                                 | In-Ceiling  | 5¼                      |                           |               | 1                        | Dome         |  | 70-19 ±5                                    | 83                      | 5  | 5k                        | 8/5                             | 8 Dia.                               | Wht.         | Opt.                      | 3                 | 290.00 Pair               |
|                                      | DECO 7W                                | In-Ceiling; Inf. Baf. Reflect.                          | 6½                      |                           |               | ¾                        | Dome         |  | 60-19 ±3                                    | 89                      | 20   | 5k                        | 6/4                             | 8 Dia.                               | Wht.         | Wht. ABS                  | 5                 | 550.00 Pair               |
| CROSBY AUDIO WORKS                   | CAW-1 (modified Quad ESL63)            | ES  |                         |                           |               |                          |              |  | 92  | 50                      |  |                           | 36 x 26 x 11                    |                                      | Blk.         |                           | 58                | 2900.00 Pair              |



KEF Uni-Q

## WHERE DOES THE TWEETER OF A HIGH FIDELITY LOUDSPEAKER BELONG?

### Q - S E R I E S

This question may confuse those who believe that the measure of a loudspeaker is the number of its drivers. It will also elude those who have never bothered to question conventional driver placement, which always separates the woofer from the tweeter.

In fact, the most acoustically correct location for the tweeter is precisely at the *center* of the woofer. This strategic placement creates a single sound source, allowing high and low frequencies to reach your ears at the proper time, regardless of where the speakers are placed or where you are sitting. (No wonder KEF's patented Uni-Q® is the technology of choice for advanced Home Theater applications.)

Perhaps the greatest benefit of the KEF Q Series speakers is that they sound as good in your home as they do in the showroom.



KEF Q-70



# LOUDSPEAKERS

| MANUFACTURER          | Model                        | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches           | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-Wf, Midrange-M, Tweeter-T, Super Tweeter-ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms, Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish         | Grille Color and Material | Weight, Lbs. Each | Price, \$    |             |
|-----------------------|------------------------------|---|-----------------------------------|---------------------------|---------------|--------------------------|--------------|---|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|----------------|---------------------------|-------------------|--------------|-------------|
| CSI                   | SW-850                       | Subwoof.  | 8                                 |                           |               |                          |              |   | 35-240 ±3                                   | 90                      | 50   |                           | 8/                               | 20 x 13 x 5                          | Blk. Wood      |                           | 20                | 149.50 Each  |             |
|                       | SP-800SW                     | In-Wall; Subwoof.                                       | 8                                 |                           |               |                          |              |   | 30-800                                      | 88                      | 75   |                           | 8/                               | 14 x 10 x 4                          | Blk. Wood      |                           | 6                 | 135.95 Each  |             |
|                       | SP-802A                      | In-Wall   | 8                                 |                           | 1             | Dome                     | T            |   | 35-20 ±3                                    | 90                      | 60   | 2.2k                      | 8/                               | 14 x 10 x 4                          | ABS            | Wht. Mtl.                 | 6                 | 157.50 Each  |             |
|                       | SP-602A                      | In-Wall   | 6                                 |                           | 1             | Dome                     |              |   | 40-22 ±3                                    | 90                      | 40   | 2.5k                      | 8/                               | 12 x 9 x 4                           | ABS            | Wht. Mtl.                 | 4                 | 135.00 Each  |             |
|                       | SP-502A                      | In-Wall   | 5 1/4                             |                           | 1             | Dome                     |              |   | 50-20 ±3                                    | 90                      | 20   | 3k                        | 8/                               | 11 x 8 x 3                           | ABS            | Wht. Mtl.                 | 3                 | 67.95 Each   |             |
|                       | SP-402A                      | In-Wall   | 4                                 |                           | 1             | Dome                     |              |   | 50-20 ±3                                    | 90                      | 15   | 3k                        | 8/                               | 9 x 6 x 3                            | ABS            | Wht. Mtl.                 | 3                 | 39.95 Each   |             |
|                       | SP-100                       | Bass Ref.   | 3 1/2                             |                           | 2             | Dome                     |              |   | 55-22                                       | 90                      | 45   |                           | 8/                               | 8 x 5 x 4                            | Plast.         | Opt.                      | 5                 | 124.95 Pair  |             |
|                       | SP-50W                       | Outdoor; Bass Ref.                                      | 3 1/2                             |                           | 2             | Dome                     |              |   | 55-22                                       | 90                      | 45   |                           | 8/                               | 8 x 5 x 4                            | Plast.         | Wht.                      | 5                 | 112.95 Pair  |             |
|                       | SPW-35                       | Outdoor; Bass Ref.                                      | 8                                 |                           | 1             | Dome                     |              |   | 130-15                                      | 50                      | 50   |                           | 8/                               | 8 Dia. x 10                          | ABS            | Tan                       | 6                 | 89.95 Each   |             |
|                       | CCS-100                      | Ctr. Ch.  | (2)4                              |                           | 1             | Dome                     |              |   | 70-20                                       | 89                      | 50   |                           | 8/                               | 13 x 6 x 6                           | Wood           | Blk.                      | 10                | 109.95 Each  |             |
| CURLE ACOUSTICS       | Sat I                        | Ac. Sus.; Sat.  | 5                                 |                           | 1             | Dome                     |              |   | 65-18 ±3                                    | 88                      | 30   | 3.5k                      | 8/4                              | 11 x 8 x 5                           | Blk. Text.     |                           | 10                | 150.00 Pair  |             |
|                       | Sat II                       | Ac. Sus.; Sat.  | 6 1/2                             |                           | 1             | Dome                     |              |   | 60-18 ±3                                    | 87                      | 30   | 3.5k                      | 8/4                              | 12 x 8 x 8                           | Blk. Text.     |                           | 13                | 200.00 Pair  |             |
|                       | 2000                         | Tuned Port  | 6 1/2                             |                           | 1             | Dome                     |              |   | 40-18 ±3                                    | 90                      | 20   | 3k                        | 8/4                              | 16 x 12 x 8                          | Blk.           |                           | 22                | 400.00 Pair  |             |
|                       | Saturn                       | Tuned Port  | 8                                 |                           | 1             | Dome                     |              |   | 35-18 ±3                                    | 89                      | 35   | 3k                        | 4/4                              | 14 x 12 x 10                         | Lacq.          |                           | 80                | 800.00 Pair  |             |
|                       | Sub 2000                     | Tuned Port; Subwoof.                                    | 12                                |                           |               |                          |              |   | 39-100 ±3                                   | 89                      | 20   | 100                       | 4/4                              | 18 x 19 x 8                          | Blk. Text.     |                           | 56                | 400.00 Each  |             |
|                       | Ultimate Rosemary II         | Tuned Port  | 12                                | 6 1/2                     | Cone          | 1                        | Dome         |   | 30-20 ±3                                    | 89                      | 40   | 200.4k                    | 8/6                              | 38 x 15 x 12                         | Oak            | Blk. Knit                 | 80                | 800.00 Pair  |             |
|                       | 10 PSW                       | Pas. Rad. Powered Subwoof.                              | 10                                | 5                         | Cone          | 1                        | Dome         |   | 30-20                                       | 89                      | 50   | 700.4k                    | 8/4                              | 36 X 14 X 12                         | Blk. Text.     | Blk. Knit                 | 70                | 500.00 Pair  |             |
|                       |                              |   |                                   |                           |               |                          |              | 30-100 ±2   | 88  | Inc.                    | 80   | 8/6                       | 13 x 13 x 15                     | Gray                                 | Blk.           | 31                        | 850.00 Each       |              |             |
|                       | IW-1                         | In-Wall   | 5 1/4                             |                           | 3/4           | Dome                     |              |   | 70-20                                       | 90                      | 30   | 3k                        | 8/4                              | 10 x 7 x 3                           | Wht. Plast.    | Wht. Steel                | 5                 | 105.00 Pair  |             |
| DAHLQUIST             | CA1                          | Coherent Array  | 6                                 |                           | 1             | Dome                     |              |   | 50-20 ±3                                    | 91                      | 30   | 2.7k                      | 6/4                              | 12 x 14 x 10                         | Blk. Vnl.      | Blk. Knit                 | 26                | 325.00 Each  |             |
|                       | CA2                          | Coherent Array  | (2)6                              |                           | 1             | Dome                     |              |   | 40-20 ±3                                    | 91                      | 30   | 2.5k                      | 6/4                              | 19 x 14 x 10                         | Blk. Vnl.      | Blk. Knit                 | 36                | 450.00 Each  |             |
|                       | CA3                          | Bipolar   | (2)6                              |                           | (2)1          | Domes                    |              |   | 40-20 ±3                                    | 91                      | 30   | 2.5k                      | 6/4                              | 19 x 14 x 10                         | Blk. Vnl.      | Blk. Knit                 | 36                | 550.00 Each  |             |
|                       | CA-W1                        | Coherent Array  | 8                                 |                           | 1             | Dome                     |              |   | 30-160                                      | 91                      | 30   | 125                       | 6/4                              | 25 x 14 x 10                         | Blk. Vnl.      | Blk. Knit                 | 41                | 400.00 Each  |             |
|                       | CA-W2                        | Vented Woofer   | (2)8                              |                           | 1             | Dome                     |              |   | 30-160                                      | 91                      | 30   | 125                       | 6/4                              | 30 x 14 x 10                         | Blk. Vnl.      | Blk. Knit                 | 49                | 600.00 Each  |             |
|                       | CA1/W1                       | Integrtd.   | 8                                 | 6                         | Cone          | 1                        | Dome         |   | 30-20 ±3                                    | 91                      | 30   | 125,2.7k                  | 6/4                              | 37 x 14 x 10                         | Blk. Vnl.      | Blk. Knit                 | 67                | 725.00 Each  |             |
|                       | CA1/W2                       | Coherent Array  | (2)8                              | 6                         | Cone          | 1                        | Dome         |   | 30-20 ±3                                    | 91                      | 30   | 125,2.5k                  | 6/4                              | 42 x 14 x 10                         | Blk. Vnl.      | Blk. Knit                 | 75                | 925.00 Each  |             |
|                       | CA2/W1                       | Coherent Array  | 8                                 | (2)6                      | Cones         | 1                        | Dome         |   | 30-20 ±3                                    | 91                      | 30   | 125,2.7k                  | 6/4                              | 44 x 14 x 10                         | Blk. Vnl.      | Blk. Knit                 | 77                | 850.00 Each  |             |
|                       | CA2/W2                       | Coherent Array  | (2)8                              | (2)6                      | Cones         | 1                        | Dome         |   | 30-20 ±3                                    | 91                      | 30   | 125,2.5k                  | 6/4                              | 49 x 14 x 10                         | Blk. Vnl.      | Blk. Knit                 | 85                | 1050.00 Each |             |
|                       | CA3/W1                       | Coherent Array  | 8                                 | (2)6                      | Cones         | (2)1                     | Domes        |   | 30-20 ±3                                    | 91                      | 30   | 125,2.7k                  | 6/4                              | 44 x 14 x 10                         | Blk. Vnl.      | Blk. Knit                 | 77                | 950.00 Each  |             |
|                       | CA3/W2                       | Coherent Array  | (2)8                              | (2)6                      | Cones         | (2)1                     | Domes        |   | 30-20 ±3                                    | 91                      | 30   | 125,2.5k                  | 6/4                              | 49 x 14 x 10                         | Blk. Vnl.      | Blk. Knit                 | 85                | 1150.00 Each |             |
|                       | CA-FX1                       | Coherent Array  | 5                                 |                           | 1             | Dome                     |              |   | 60-20 ±3                                    | 91                      | 30   | 2.7k                      | 6/4                              | 6 x 7 x 10                           | Blk. Vnl.      | Blk. Knit                 | 13                | 200.00 Each  |             |
|                       | CA-FX1/FX1                   | Surround; Surround; Dipole/Bipolar                      | (2)5                              |                           | (2)1          | Domes                    |              |   | 60-20 ±3                                    | 91                      | 30   | 2.7k                      | 6/4                              | 12 x 7 x 10                          | Blk. Vnl.      | Blk. Knit                 | 26                | 400.00 Each  |             |
|                       | CA-C1                        | Surround; Surround; Dipole/Bipolar                      | (2)6                              |                           | 1             | Dome                     |              |   | 50-20 ±3                                    | 91                      | 30   | 2.7k                      | 6/4                              | 9 x 10 x 20                          | Blk. Vnl.      | Blk. Knit                 | 36                | 500.00 Each  |             |
| DQ32                  | Ctr. Ch. Phased Array        | 10  | 5                                 | Cone                      | 1             | Dome                     |              | 30-21   | 90  | 60                      | 250.3k                                       | 6/4                       | 45 x 15 x 12                     | Blk. Vnl.                            | Blk. Knit      | 75                        | 1200.00 Each      |              |             |
| DQ42                  | Phased Array                 | (2)10   | 4.6                               | Cones                     | 1             | Dome                     |              | 24-21   | 90  | 60                      | 120.800.3.5k                                 | 6/4                       | 48 x 18 x 12                     | Mahog. Oil. Mahog.                   | Mesh Blk. Mesh | 100                       | 1700.00 Each      |              |             |
| DANA AUDIO            | 1                            | Ac. Sus.  | 6                                 |                           | 3/4           | Dome                     |              |   | 60-20 ±3                                    | 87                      | 30   | 4k                        | 8/6                              | 15 x 9 x 7                           | Blk. Vnl.      | Blk. Knit                 | 18                | 199.00 Pair  |             |
|                       | Sub 1                        | Ported Subwoof.   | 8                                 |                           |               |                          | W            |   | 32-100 ±3                                   | 91                      | 30   | 80                        | 8/6                              | 38 x 13 x 13                         | Matte Blk.     | Mesh Blk.                 | 28                | 250.00 Each  |             |
|                       | Sub 2                        | Ported Subwoof.   | 10                                |                           |               |                          | W            |   | 20-100 ±3                                   | 91                      | 30   | 40                        | 8/6                              | 38 x 16 x 16                         | Matte Blk.     | Mesh Blk.                 | 40                | 350.00 Each  |             |
|                       | 3                            | Inf. Baf. Bass Ref.                                     | (2)5 1/4                          |                           | 3/4           | Dome                     |              |   | 60-20 ±3                                    | 94                      | 10   | 4.5k                      | 4/3                              | 7 x 16 x 10                          | Blk. Vnl.      | Blk. Knit                 | 21                | 300.00 Pair  |             |
| 4                     | Bass Ref.                    | 8   |                                   | 1                         | Dome          |                          |              | 32-20 ±2  | 91  | 30                      | 1.4k   | 8/6                       | 13 x 29 x 12                     | Blk. Vnl.                            | Blk. Knit      | 48                        | 450.00 Pair       |              |             |
| DCM                   | TimeWindow Seven             | Staggered Trans. Line                                   | (2)9                              | (2)6 1/2                  | Cones         | (3)3/4                   | Domes        |   | 28-25 ±3                                    | 92                      | 10   |                           | 4/                               | 48 x 14 x 19                         | Gloss Blk.     | Blk. Knit                 | 70                | 2999.00 Pair |             |
|                       | TimeWindow TW-3              | Folded Trans. Line                                      | 8                                 | 6 1/2                     | Cone          | (2)3/4                   | Domes        | M,T   | 24-20                                       | 89                      | 5  |                           | 8/                               | 39 x 17 x 12                         | Oak            | Blk. Knit                 | 45                | 1499.00 Pair |             |
|                       | TimeWindow TW-1A             | Hybrid Trans. Line                                      | (2)6 1/2                          |                           |               | (2)3/4                   | Domes        |   | 30-20                                       | 90                      | 5  |                           | 8/                               | 36 x 15 x 12                         | Oak            | Blk. Knit                 | 30                | 949.00 Pair  |             |
|                       | TimeFrame TF-600             | Staggered Trans. Line                                   | 6 1/2                             | 6 1/2                     | Cone          | (3)3/4                   | Domes        |   | 30-20                                       | 92                      | 5  |                           | 6/                               | 41 x 17 x 8                          | Opt., Oak      | Blk. Knit                 | 47                | 749.00 Pair  |             |
|                       | TimeFrame TF-400             | Staggered Trans. Line                                   | 6 1/2                             | 6 1/2                     | Cone          | (2)3/4                   | Domes        |   | 40-20                                       | 92                      | 5  |                           | 6/                               | 38 x 15 x 8                          | Opt., Oak      | Blk.                      | 38                | 598.00 Pair  |             |
|                       | Series Two Monitor CX-Center | Ac. Sus.  | (2)4                              |                           | 3/4           | Dome                     |              |   | 90-20                                       | 89                      | 5  |                           | 8/                               | 17 x 5 x 10                          | Blk.           | Gray                      | 9                 | 124.50 Each  |             |
|                       | Monitor CX-007               | Ac. Sus.  | 4                                 |                           | 3/4           | Dome                     |              |   | 90-20                                       | 88                      | 5  |                           | 8/                               | 6 x 8 x 5                            | Blk.           | Blk.                      | 3                 | 139.00 Pair  |             |
|                       | Monitor CX-07                | Bass Ref.   | 6 1/2                             |                           | 3/4           | Dome                     |              |   | 55-20                                       | 91                      | 5  |                           | 8/                               | 15 x 8 x 9                           | Blk.           | Blk. Knit                 | 15                | 259.00 Pair  |             |
|                       | Monitor CX-17                | Trans. Line   | 6 1/2                             |                           | 3/4           | Dome                     |              |   | 45-20                                       | 92                      | 5  |                           | 8/                               | 17 x 9 x 10                          | Opt. Blk.      | Blk. Knit                 | 15                | 369.00 Pair  |             |
|                       | Monitor CX-27                | Trans. Line   | 6 1/2                             | 6 1/2                     | Cone          | 3/4                      | Dome         |   | 35-20                                       | 93                      | 5  |                           | 6/                               | 27 x 10 x 11                         | Blk.           | Blk.                      | 25                | 519.00 Pair  |             |
|                       | Series Two Sub 712           | Powered Subwoof.  | 8                                 |                           |               |                          | SW           |   | 28-80 (Adj.)                                | Inc.                    |  |                           | 75                               |                                      |                |                           |                   |              | 699.00 Each |
|                       | Sub 710                      | Powered Subwoof.  | (2)6 1/2                          |                           |               |                          | SW           |   | 32-120 (Adj.)                               | Inc.                    | 100  |                           | 100                              |                                      |                |                           |                   | 25           | 399.00 Each |
|                       | Cine-Magic Six               | Home Th., Sats., Ctr. Ch. & Powered Subwoof.            | (2)6 1/2                          | (6)4                      | Cones         | (5)3/4                   | Domes        | SW  | 32-20 (Adj.)                                | 89                      | 5  | 100,3k                    | 8/                               | 9 x 14 x 19 Six Pieces               | Blk.           | Blk.                      | 54                | 799.00 Sys.  |             |
|                       |                              | Power Trio  | Home Th., Sat. & Powered Subwoof. | (2)6 1/2                  | (2)4          | Cones                    | (2)3/4       | Domes   | SW  | 32-20 (Adj.)            | 89   | 5                         | 100,3k                           | 8/                                   | Three Pieces   | Blk.                      | Blk.              | 39           | 499.00 Sys. |
| DEFINITIVE TECHNOLOGY | BP20                         | Bipolar Trans. Line                                     | (4)6 1/2                          |                           | (2)1          | Domes                    |              |   | 18-28                                       | 90                      | 20   | 2.5k                      | 8/4                              | 9 x 15 x 46                          | Opt.           | Blk. Knit                 | 70                | 799.00 Each  |             |
|                       | BP10                         | Bipolar Trans. Line                                     | (2)6 1/2                          |                           | (2)1          | Domes                    |              |   | 20-28                                       | 90                      | 20   | 2.5k                      | 8/4                              | 9 x 12 x 42                          | Opt.           | Blk. Knit                 | 55                | 550.00 Each  |             |
|                       | BP8                          | Bipolar Trans. Line                                     | (2)5 1/4                          |                           | (2)3/4        | Domes                    |              |   | 22-28                                       | 90                      | 20   | 3.5k                      | 8/4                              | 7 x 11 x 38                          | Opt.           | Blk. Knit                 | 38                | 399.00 Each  |             |
|                       | DR7 Tower                    | Trans. Line   | 6 1/2                             |                           | 1             | Dome                     |              |   | 22-28                                       | 90                      | 20   | 2.6k                      | 8/4                              | 8 x 11 x 35                          | Blk.           | Blk. Knit                 | 38                | 299.00 Each  |             |
|                       | DR7 Bookshelf                | Trans. Line   | 6 1/2                             |                           | 1             | Dome                     |              |   | 22-28                                       | 90                      | 20   | 2.6k                      | 8/4                              | 8 x 11 x 22                          | Blk.           | Blk. Knit                 | 38                | 249.00 Each  |             |
| (Continued)           | Celsius DR                   | Trans. Line   | 5 1/4                             |                           | 1             | Dome                     |              |   | 40-28                                       | 90                      | 20   | 3.5k                      | 8/4                              | 7 x 12 x 11                          | Blk.           | Blk. Knit                 | 18                | 185.00 Each  |             |

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## POLK AUDIO'S HIGH PERFORMANCE CENTER CHANNEL SPEAKERS

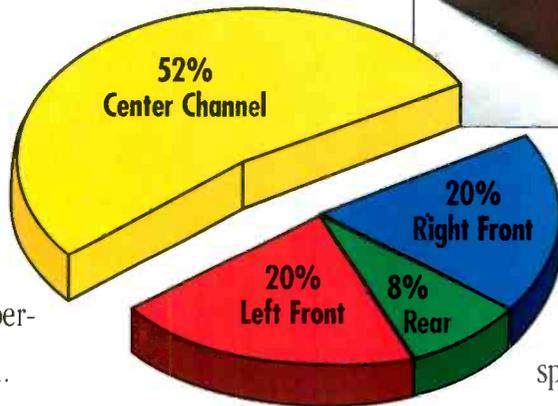
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*Matthew Polk*

Since all on-screen action, not just dialog, is reproduced by the center speaker, its performance is critical.

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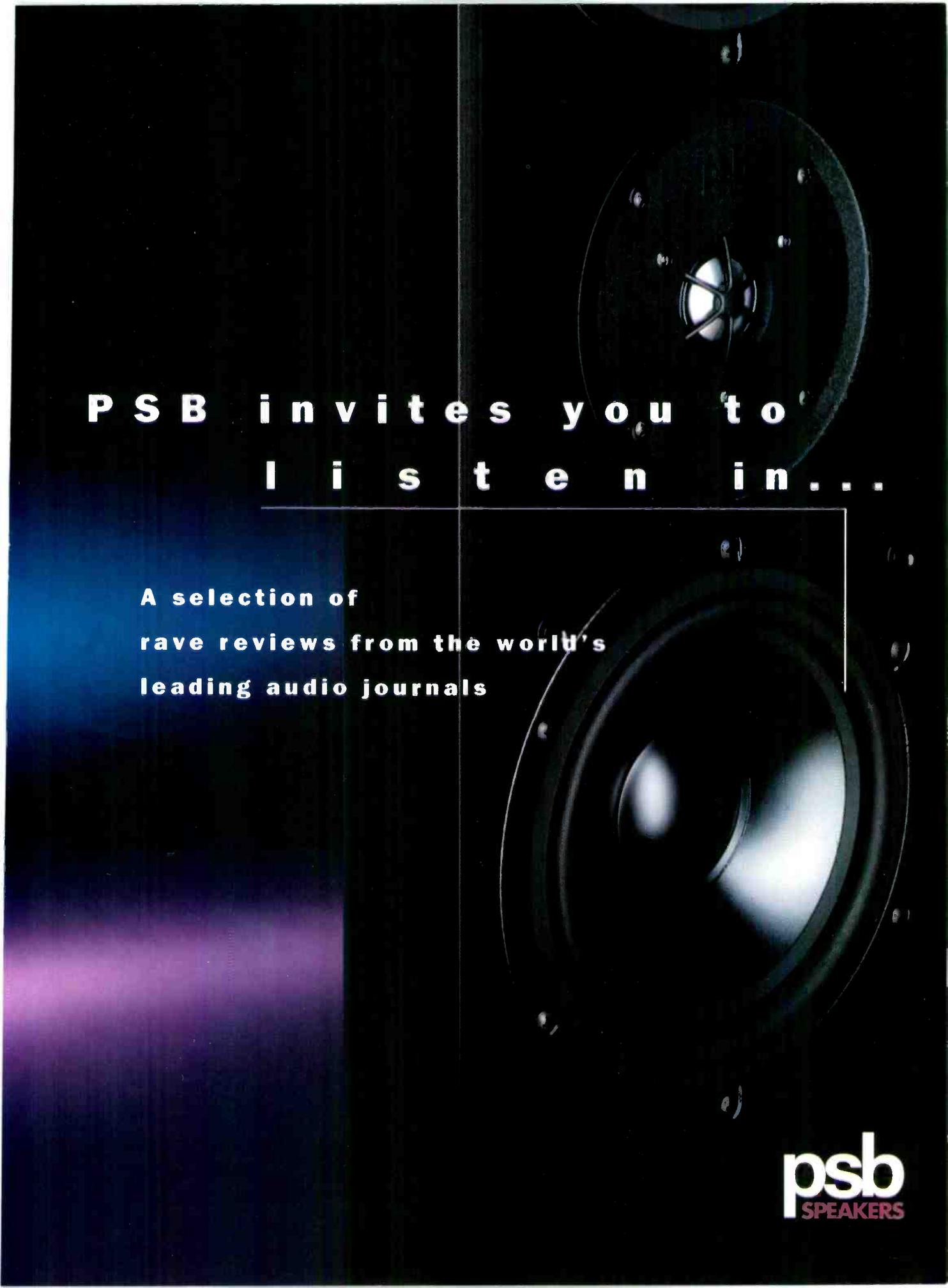
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# LOUDSPEAKERS

| MANUFACTURER                      | Model                                     | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls: Woofer = W, Midrange = M, Tweeter = T, Superwoofer = ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish     | Grille Color and Material | Weight, Lbs. Each   | Price, \$                        |
|-----------------------------------|---|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------|---------------------------|---------------------|----------------------------------|
| DEFINITIVE TECHNOLOGY (Continued) | Celsius Sub Sat                           | Sat. & Powered Subwoof.                                 | 15                      | 5 1/4                     | Cone          | 1                        | Dome         | W  | 18-28                                       | 90                      | 20; 185 Inc. 20; 185 Inc. 10                 | 80.3.5k                   | 8/4                              | Three Pieces                         | Blk.       | Blk. Knit                 | 98 Sys.             | 1069.00 Sys.                     |
|                                   | Celsius Home Theater                      | Home Th.; 5 Sats. & Powered Subwoof.                    | 15                      | 5 1/4                     | Cone          | 1                        | Dome         | W  | 18-28                                       | 90                      | 20; 185 Inc. 10                              | 80.3.5k                   | 8/4                              | Six Pieces                           | Blk.       | Blk. Knit                 | 134 Sys.            | 1618.00 Sys.                     |
|                                   | BP1                                       | Bipolar Sat.; Surround                                  | (2)4 1/2                |                           |               | (2)3/4                   | Domes        |  | 60-25                                       | 90                      | 10   | 3.5k                      | 8/4                              | 10 x 6 x 6                           | Opt.       | Opt., Knit                | 9                   | 175.00 Each                      |
|                                   | BP2                                       | Bipolar Sat.; Surround                                  | (2)5 1/4                |                           |               | (2)3/4                   | Domes        |  | 50-28                                       | 90                      | 10   | 3.5k                      | 8/4                              | 7 x 7 x 11                           | Opt.       | Opt., Knit                | 10                  | 250.00 Each                      |
|                                   | BP1 Sub Sat                               | Bipolar Sat. & Powered Subwoof.                         | 15                      | (2)4 1/2                  | Cones         | (2)1                     | Domes        | W  | 18-25                                       | 90                      | 20; 185 Inc. 20; 185 Inc. 10                 | 80.3.5k                   | 8/4                              | Three Pieces                         | Blk.       | Blk. Knit                 | 80 Sys.             | 1049.00 Sys.                     |
|                                   | BP1 Home Theater                          | Home Th.; 5 Bipolar Sats. & Powered Subwoof.            | 15                      | (2)4 1/2                  | Cones         | (2)1                     | Domes        | W  | 18-25                                       | 90                      | 20; 185 Inc. 20; 185 Inc. 10                 | 80.3.5k                   | 8/4                              | Six Pieces                           | Blk.       | Blk. Knit                 | 116 Sys.            | 1598.00 Sys.                     |
|                                   | C1jr                                      | Ctr. Ch.  | 5 1/4                   |                           |               | 3/4                      | Dome         |  | 55-28                                       | 90                      | 10   | 3.5k                      | 8/4                              | 7 x 17 x 9                           | Blk.       | Blk. Knit                 | 18                  | 199.00 Each                      |
|                                   | C1  | Ctr. Ch.  | (2)5 1/4                |                           |               | 1                        | Dome         |  | 45-28                                       | 90                      | 10   | 3.5k                      | 8/4                              | 19 x 6 x 8                           | Blk.       | Blk. Knit                 | 21                  | 299.00 Each                      |
|                                   | C/L/R 1000                                | A/V; Main or Ctr. Ch.                                   | (2)6 1/2                |                           |               | 1                        | Dome         |  | 25-28                                       | 90                      | 20   | 2.6k                      | 8/4                              | 8 x 12 x 22                          | Blk.       | Blk. Knit                 | 32                  | 450.00 Each                      |
| PowerField 15                     | Powered Subwoof.                          | 15  |                         |                           |               |                          | W            | 18-125   | 93  | 185 Inc. 200            | Var.   |                           | 17 x 17 x 18                     | Blk.                                 | Blk. Knit  | 62                        | 699.00 Each         |                                  |
| PowerField 1500                   | Powered Subwoof.                          | 15  |                         |                           |               |                          | W            | 15-150   | 93  | 250 Inc. 500 Inc.       | Var.   |                           | 18 x 18 x 20                     | Opt.                                 | Blk. Knit  | 90                        | 995.00 Each w/Xover |                                  |
| PowerField 1800                   | Powered Subwoof.                          | 18  |                         |                           |               |                          | W            | 13-125   | 93  | 500 Inc.                | Var.   |                           | 20 x 20 x 22                     | Opt.                                 | Blk. Knit  | 93                        | 1599.00 Each        |                                  |
| DENNESEN                          | ESL-X                                     | Hybrid ES   | 6 1/2                   |                           |               | (4)3 1/2                 | ES           | No   | 65-35                                       | 89                      | 50   | 3k                        | 8/5                              | 26 x 9 x 13                          | Opt.       | Blk. Foam                 | 40                  | 1850.00 Pair                     |
|                                   | ESL-Mini                                  | Hybrid ES   | 5                       |                           |               | (4)3 1/2                 | ES           | No   | 75-35                                       | 89                      | 50   | 3k                        | 8/5                              | 24 x 7 x 10                          | Opt.       | Blk. Foam                 | 25                  | 1250.00 Pair                     |
| DENON                             | SC-7.5                                    | Ported  | 6 1/2                   |                           |               | 1 1/2                    | Dome         |  | 40-20                                       | 89                      | 10   |                           | 8/                               | 8 x 14 x 9                           | Gray Text. | Blk. Knit                 | 11                  | 500.00 Pair                      |
|                                   | SC-5.5                                    | Ported  | 5 1/4                   |                           |               | 1                        | Cone         |  | 40-20                                       | 88                      | 10   |                           | 8/                               | 6 x 12 x 7                           | Gray Text. | Blk. Knit                 | 4                   | 200.00 Pair                      |
|                                   | DSW-1                                     | Powered Subwoof.  | 5 1/4                   |                           |               |                          |              |  | 39-150                                      |                         | Inc.   |                           |                                  | 8 x 14 x 13                          | Gray Text. |                           | 11                  | 250.00 Each                      |
| DEREK SPEAKER-SCULPTURE           | Seahorse                                  | On-Wall Trans. Line                                     | 5                       |                           |               |                          |              |  | 50-17                                       | 90                      | 10   |                           | 8/                               | 8 x 12 x 24                          | Opt.       | None                      | 15                  | 400.00 Pair                      |
|                                   | Cobra                                     | Trans. Line   | 5                       |                           |               |                          |              |  | 50-17                                       | 90                      | 10   |                           | 8/                               | 14 x 14 x 36                         | Opt.       | None                      | 15                  | 700.00 Pair                      |
|                                   | Reflection                                | Trans. Line   | 6 1/2                   |                           |               | 1/2                      | Dome         |  | 40-20                                       | 90                      | 15   | 5k                        | 8/                               | 12 x 12 x 50                         | Opt.       | None                      | 50                  | 1750.00 Pair                     |
|                                   | Skyscraper                                | Bipolar Trans. Line                                     | 10                      | (4)5                      | Cones         | (2)1                     | Domes        | M,T  | 30-20                                       | 93                      | 25   | 200.6k                    | 4/                               | 13 x 20 x 51                         | Opt.       | Blk. Mtl.                 | 125                 | 3500.00 Pair                     |
|                                   | Scorpion Sub                              | Trans. Line   | 12                      |                           |               |                          |              |  | 25-200                                      | 90                      | 30   | 200                       | 4/                               | 15 x 30 x 25                         | Opt.       | Blk. Mtl.                 | 80                  | 800.00 Each                      |
| Sub-London Lights                 | Subwoof.                                  | 12  |                         |                           |               |                          |              | 25-200   | 90  | 30                      | 200  | 4/                        | 16 x 16 x 84                     | Opt.                                 | Blk. Mtl.  | 100                       | 3500.00 Each        |                                  |
| The Offering                      | Trans. Line Subwoof. Tripolar Trans. Line | (3)5  |                         |                           |               |                          |              | 50-17  | 90  | 30                      |  | 16/                       | 13 x 13 x 66                     | Opt.                                 | None       | 50                        | 2000.00 Pair        |                                  |
| DESIGN ACOUSTICS                  | Summit Series DA1000                      | Vented  | 10                      | (2)5                      | Cones         | 3/4                      | Dome         |  | 30-25                                       | 89                      | 15   | 110,3.5k                  | 8/                               | 11 x 42 x 15                         | Opt.       | Blk.                      | 64                  | 1100.00 Pair                     |
|                                   | Summit Series DA900                       | Vented  | 8                       | 5                         | Cone          | 3/4                      | Dome         |  | 40-25                                       | 88                      | 15   | 130,3.5k                  | 8/                               | 9 x 37 x 11                          | Opt.       | Blk.                      | 52                  | 800.00 Pair                      |
|                                   | Summit Series DA800                       | Vented  | 8                       | 5                         | Cone          | 3/4                      | Dome         |  | 47-22                                       | 88                      | 15   | 150,4k                    | 8/                               | 9 x 17 x 11                          | Opt.       | Blk.                      | 22                  | 600.00 Pair                      |
|                                   | PS-24                                     | Ctr. Ch.; Vented  | (2)4                    |                           |               | 3/4                      | Dome         |  | 50-20                                       | 89                      | 10   | 10k                       | 8/                               | 20 x 5 x 14                          | Blk. Vnl.  | Blk. Mtl.                 | 19                  | 189.95 Each                      |
|                                   | PS-SW                                     | Vented Subwoof.   | 10                      |                           |               |                          |              |  | 30-130                                      | 15                      | 15   |                           | 8/                               | 16 x 22 x 11                         | Blk. Vnl.  | Blk.                      | 38                  | 339.95 Each                      |
|                                   | PS-CV                                     | Ctr. Ch., Video   | 5 1/4                   |                           |               | 3/4                      | Dome         |  | 65-20                                       | 88                      | 10   | 4k                        | 8/                               | 7 x 10 x 6                           | Blk. Vnl.  | Blk.                      | 6                   | 119.95 Each                      |
|                                   | DA-360a                                   | Outdoor   | 6                       |                           |               |                          |              |  | 90-18                                       | 84                      | 5  |                           | 8/                               | 7 Dia. x 10                          | Tan ABS    |                           | 5                   | 69.95 Each                       |
|                                   | PS-55                                     | Vented  | 5 1/4                   |                           |               | 3/4                      | Dome         |  | 65-20                                       | 88                      | 10   | 4k                        | 8/                               | 7 x 10 x 6                           | Blk. Vnl.  | Blk.                      | 6                   | 219.90 Pair                      |
|                                   | PS-66                                     | Vented  | 6                       |                           |               | 3/4                      | Dome         |  | 55-20                                       | 89                      | 10   | 2k                        | 8/                               | 8 x 12 x 12                          | Opt.       | Blk.                      | 12                  | 299.90 Pair                      |
|                                   | PS-88                                     | Vented  | 8                       |                           |               | 1                        | Dome         |  | 50-20                                       | 90                      | 15   | 1.2k                      | 8/                               | 10 x 13 x 12                         | Opt.       | Blk.                      | 15                  | 399.90 Pair                      |
| PS-9                              | Ac. Sus.                                  | 8   | 5 1/4                   | Cone                      | 3/4           | Dome                     |              | 47-20  | 90  | 15                      | 200,3k                                       | 8/                        | 10 x 15 x 12                     | Opt.                                 | Blk.       | 20                        | 499.90 Pair         |                                  |
| PS-10a                            | Ac. Sus.                                  | 10  | 5 1/4                   | Cone                      | 1             | Dome                     |              | 45-22  | 91  | 20                      | 200,3k                                       | 8/                        | 11 x 16 x 13                     | Opt.                                 | Blk.       | 23                        | 599.90 Pair         |                                  |
| CLW                               | Ac. Sus. Subwoof.                         | 10  |                         |                           |               |                          |              | 40-150   | 88  | 15                      |  | 8/                        | 12 x 14 x 12                     | Blk. Vnl.                            | Blk.       | 24                        | 249.95 Each         |                                  |
| DGX AUDIO                         | DDL-1                                     | Powered Bass Ref.                                       | 12                      | 2                         | Dome          | 1                        | Dome         | No   | 20-20 ±3                                    | 91                      | 100 Inc.                                     | 2 3k,8.3k                 | 8/4                              | 16 x 11 x 40                         | Opt.       | Blk. Knit                 | 68                  | 2995.00 Pair w/DDA-1 Amp/Prccsr. |
| DIGITAL PHASE                     | AP-5 Bookshelf                            | Acousta-Reed  | 3                       |                           |               | 1                        | Dome         |  | 35-20 ±1.5                                  | 81                      |  | 3k                        | 8/6.5                            | 13 x 8 x 9                           | Opt., Oak  | Blk. Knit                 | 17                  | 650.00 Pair                      |
|                                   | AP-7CC                                    | Acousta-Reed; Ctr. Ch.                                  | (2)3                    |                           |               | 1                        | Dome         |  | 35-20 ±1.5                                  | 86                      |  | 3k                        | 4/                               |                                      | Opt., Oak  | Blk. Knit                 | 25                  | 600.00 Each                      |
|                                   | Center Channel AP-1                       | Acousta-Reed  | 6 1/2                   |                           |               | 1                        | Dome         |  | 35-20 ±1.5                                  | 86                      |  | 3k                        | 8/5.5                            | 38 x 10 x 11                         | Opt., Oak  | Blk. Knit                 | 50                  | 1250.00 Pair                     |
|                                   | Floor System AP-2                         | Acousta-Reed  | (2)6 1/2                |                           |               | 1                        | Dome         |  | 35-20 ±1.5                                  | 91                      |  | 3k                        | 4/3.6                            | 42 x 13 x 14                         | Opt., Oak  | Blk. Knit                 | 79                  | 1700.00 Pair                     |
|                                   | Floor System AP-4                         | Acousta-Reed  | (4)6 1/2                |                           |               | (4)1                     | Domes        |  | 35-20 ±1.5                                  | 91                      |  | 3k                        | 8/6.2                            | 50 x 16 x 17                         | Opt., Oak  | Blk. Knit                 | 120                 | 3200.00 Pair                     |
| Floor System SM-1 Bookshelf       | Acousta-Reed                              | 6 1/2   |                         |                           | 1             | Dome                     |              | 35-20 ±1.5   | 87  |                         | 3k   | 8/6.5                     | 24 x 13 x 12                     | Blk. Text.                           | Blk. Knit  | 37                        | 950.00 Pair         |                                  |
| DUAL                              | CLX 9200                                  | Closed Box  | (2)7                    | 4 1/2                     | Cone          | 3/4                      | Dome         | W,M,T  |   | 88                      | 20   |                           | 4/                               | 10 x 12 x 37                         | Blk. Paint | Blk. Knit                 | 35                  | 1800.00 Pair                     |
|                                   | CLX 9100                                  | Closed Box  | 7                       | 7                         | Cone          | 3/4                      | Dome         | W,M,T  |   | 88                      | 20   |                           | 4/                               | 9 x 11 x 34                          | Blk. Paint | Blk. Knit                 | 25                  | 1050.00 Pair                     |
|                                   | CL 9040                                   | Closed Box  | 8                       | 5                         | Cone          | 1                        | Dome         | W,M,T  |   | 87                      | 20   |                           | 8/                               | 10 x 11 x 22                         | Blk. Paint | Blk. Knit                 | 20                  | 495.00 Pair                      |
|                                   | CL 9020                                   | Closed Box  | 6 1/2                   | 4                         | Cone          | 3/4                      | Dome         | W,M,T  |   | 86                      | 20   |                           | 8/                               | 10 x 11 x 20                         | Blk. Paint | Blk. Knit                 | 16                  | 360.00 Pair                      |
|                                   | CL 9010                                   | Closed Box  | 6 1/2                   | 4                         | Cone          | 2 1/2                    | Dome         | W,M,T  |   | 86                      | 20   |                           | 8/                               | 10 x 7 x 16                          | Blk. Paint | Blk. Knit                 | 10                  | 220.00 Pair                      |
| DUNLAVY AUDIO LABS (Continued)    | SC-I                                      | Sealed  | (2)5 1/2                |                           |               | 1                        | Dome         |  | 80-20                                       | 91                      |  |                           | 6/3                              | 20 x 8 x 10                          | Opt., Wood | Blk. Knit                 |                     | 995.00 Pair                      |
|                                   | SC-II                                     | Sealed  | (2)5 1/2                |                           |               | 1                        | Dome         |  | 60-20                                       | 91                      |  |                           | 6/3                              | 65 x 8 x 10                          | Opt., Wood | Blk. Knit                 |                     | 1995.00 Pair                     |
|                                   | SC-III                                    | Sealed  | (2)7                    | (2)5 1/2                  | Cones         | 1                        | Dome         |  | 35-20                                       | 91                      |  |                           | 6/3                              | 72 x 9 x 12                          | Opt., Wood | Blk. Knit                 |                     | 2995.00 Pair                     |
|                                   | SC-IV                                     | Sealed  | (2)10                   | (2)5 1/2                  | Cones         | 1                        | Dome         |  | 27-20                                       | 91                      |  |                           | 6/3                              | 72 x 12 x 18                         | Opt., Wood | Blk. Knit                 |                     | 4995.00 Pair                     |



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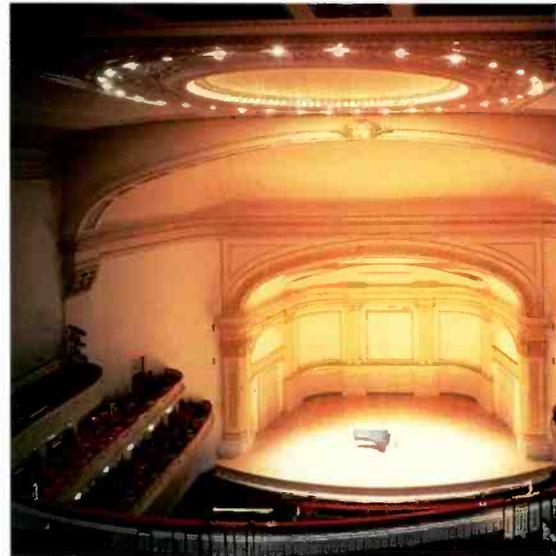
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THE SPEAKER JOURNAL

SOUND & IMAGE

## ■ Recommended Components

**stereophile**

'Recommended Components' from the editors of *Stereophile*, April 1994, Vol. 17, No 4

### ■ PSB Stratus Gold

\$2100/pair \$\$\$

A large three-way design, the Stratus Gold offers a fundamentally neutral midrange balance coupled with very low levels of coloration, a lively yet unfatiguing treble, and a generous, powerful bass. The treble is less prominent when the speaker is used with the grilles on, the sound taking on an appealing accessibility. Excellent value.

(Originally reviewed in Vol. 14 No's. 2 & 10; see also PWM's "Industry Update" in Vol. 14 No. 4)

### ■ PSB Stratus Mini

\$950/pair

(stands necessary)

Well-finished, well-engineered two-way with a neutral balance, low level of coloration, and superb sound-staging. Bass is intrinsically lean, but careful room placement can result in well-defined but reasonable well-balanced lows. Review sample had a rather congested lower mid-range due to a severe cabinet resonance, said to have been minimized in current production by a repositioning of the internal bracing. Matching stands – essential – cost \$150/pair.

(Originally reviewed in Vol. 16 No's. 6 & 7)

### ■ PSB 500

\$499/pair

(stands necessary)

Balance is warm and full rather than tight and lean, but impressive bass weight doesn't turn to boominess. Refined highs for an inexpensive speaker. The two-way 500 achieves "that rare balance of ease and detail," according to TJN, with moderate coloration and congestion only setting in at high levels. "An attractive mix with no glaring weakness."

(Matching SP5 stands are \$79/pair).

(Originally reviewed in Vol. 16 No. 7)

### ■ PSB Alpha

\$199/pair \$\$\$

(stands necessary)

"An outstanding audio bargain," proclaimed JE of this little two-way. Designed to be used close to the rear wall, the Alpha plays surprisingly loud without strain, though toe-in is best avoided to minimize harshness. Optimum with electronics that sound soft.

(Originally reviewed in Vol. 15 No. 7)

**Note: '\$\$\$' denotes exceptional value**



PSB STRATUS MINI

**"The well-made Stratus Mini offers a good deal of quality for a reasonable price – do get the excellent-value stands... The PSB Stratus Mini is confidently recommended."**

***Stereophile*  
June 1993  
Vol. 16 No. 6**



More extensive review excerpts of PSB loudspeakers recommended by *Stereophile* are featured on the following pages.



PSB 500

■ Awards

**BEST  
OF  
AUDIO**



**'93**

**PSB continues to win important critical acclaim for superior loudspeaker performance...**

*CD Review* selected the PSB Subsonic II as one of the **best audio buys** of 1993.

1 9 9 3

CRITIC'S CHOICE

**AWARD**

**Sound & Vision**  
MAGAZINE

and its Technical Reviewers  
present the

**CRITIC'S CHOICE AWARD**

to

**PSB Speakers**

for the

**PSB STRATUS GOLD LOUDSPEAKER**

in recognition of

Technical Excellence and Exceptional Value

*M. H. Briant*

M. H. BRIANT  
Publisher

*Alan Loftt*

ALAN LOFTT  
Editor

**Product of the Year!**

PSB Stratus Gold and the PSB Alpha were recognized with the *AudioVideo Int'l.* 1993 HI-FI Grand Prix Award.

1 9 9 4

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ALAN LOFTT  
Editor

PSB won *Sound & Vision* Critic's Choice Awards for its Home Theater System (PSB 100C Center-Channel Speaker, two pairs of PSB Alpha loudspeakers and a PSB Alpha Subsonic subwoofer); Stratus Gold; Stratus Mini; and Alpha loudspeakers.



## ■ PSB Alpha

### *The* **\$**ENSIBLE *Sound*

**L**ET'S NOT BEAT AROUND THE bush: The PSB Alpha is quite possibly the greatest loudspeaker bargain of the last 25 years...

So, just what is the PSB Alpha? It's a 12.75" H x 8.75" W x 9.5" D two-way, vented loudspeaker system, using a 6.5" polypropylene cone woofer, matched to a "poly-flare" dome tweeter by a third-order Butterworth crossover network, and mounted in an unusually rigid (for its price) but lightweight cabinet. Stands are required, and should be approximately 22" tall. PSB recommends placement at 2" or more from the back wall. Two inches provides the maximum bass response. However, placement further away from the back wall provides better imaging.

Paul S. Barton (PSB) designed the Alpha with the extensive aid of Canada's National Research Council (NRC) in Ottawa – probably the most highly regarded loudspeaker research facility in the world. While many fine loudspeaker designs have benefited from the NRC's facilities, none that I know of have succeeded this well and go for a measly \$199 per pair. Despite its low cost, the Alpha doesn't look cheap. It has a simulated black oak finish that's hard to distinguish from the real thing. The Alpha even uses heavy-duty terminals that accept cabling as heavy as 12 gauge, as

well as five-way dual banana blocks.

How good is the PSB Alpha? It's good enough to serve as a reference monitor for evaluating the sound of amplifiers. I used the Alpha extensively to decipher the nuances between various versions of the Dynaco Stereo 70 amplifier. It is good enough to fit in comfortably with systems consisting of some of the most expensive gear around. Yet, it sounds just fine in more modest systems – for example, when coupled with the \$299 NAD 7225PE receiver.

Perhaps one of the Alpha's greatest virtues is its lack of cabinet colorations. Having lived with Quad electrostatics for five years, cabinet colorations produced by conventional box speakers have become a personal pet peeve of mine. The Alphas perform better than box speakers in this regard, which is remarkable – especially considering how inexpensive it is. Finally, the Alphas excel in the area of spectral balance. Despite their size, these are not thin-sounding speakers; nor, on the other hand, do they exhibit the BBC bass bump of the well-known LS3/5A. The Alphas are about as even-handed in this regard as one can expect from a \$199 per pair compact loudspeaker. Is the Alpha faultless? No way. A speaker that uses a passive 6.5" woofer in a conventional cabinet that's barely over a foot tall is

going to have some bass limitations – and the Alpha is no exception. Bass extension is limited. However, under most circumstances the lack of bass extension is not a problem, because the Alpha is capable of reproducing a credible degree of mid-bass music with good impact and with a reasonable low amount of distortion. Moreover, the Alpha's resolution – while outstanding for its price range – is not outstanding when using an absolute standard (e.g., comparing it with electrostatics from Martin-Logan or Quad). We do have to remember, however, that these speakers cost \$199 per pair...

Judging by some of the comments I've heard from local audio dealers, the word of mouth is spreading on the Alpha. If PSB can resist the temptation to raise the price of its little wonder, it has the makings of an audiophile legend for the mid 1990s.

#### **RN** - Fall 1993

Excerpted with permission from Issue #49, Fall 1993 of *The Sensible Sound*. Subscriptions to *The Sensible Sound* are available for \$20 per year by check to 403 Darwin Drive, Snyder, NY 14226 or through Visa/MC by phone (716-839-2199) or FAX (716-839-2264). You may also purchase a set of all available back issues (currently 30+ issues) for \$59, shipping included.



The PSB Alpha has received critical acclaim from many sources, including *AudioVideo Int'l.*, *Stereophile* and *Sound & Vision* magazines.

## stereophile

**"... the PSB Alphas are capable of actually playing bass convincingly, without being boomy and uncontrolled... the midrange was exceptional..."**

**AudioVideo  
(Singapore)  
October 1993**

THE PSB ALPHAS ARE SIMPLY one of the greatest buys in audio, providing a musically satisfying sound for a paltry \$200. No, they don't have the wonderfully natural refinement of speakers costing many times their price. What they *do* have is much more of the real thing than any of us could reasonably expect from such an inexpensive pair of speakers. For their price, the PSB Alphas are a sensational audio bargain. *Now* get out those check-books!

**Jack English** - *Stereophile*, July 1992, Vol. 15, No. 7

PSB ALPHA



## AUDIO VIDEO INTERIORS

IT ISN'T OFTEN THAT LOUD-speaker companies are guilty of *underselling* their products. But never judge a speaker by its size, weight, or promotional wrapping. Take, for example, PSB's diminutive, modestly priced (\$199/pair) Alpha bookshelf speaker. When I first scanned the printed pitch, I found myself fighting the old ennui: "... ideal for lower-powered systems... blah-blah-blah... apt as an extension speaker... blah-blah-blah well-suited for surround channels in home theater systems..." But when I finally hooked up a pair in my studio, the "I said I'd listen to them and now I'm doing it" ennui was out the window fast.

These are magnificent nites. Forget the hundred and ninety-nine bucks a pair. That's not the price range where designer Paul S. Barton's speakers should be vying for your attention. Among models this small (13 inches high by 9 wide and 10 deep), the only speakers I've encountered that can match the Alpha's solid bass response and power-handling capacity fall between \$800 and \$1,000 a pair. Yet, while the Alphas will play loud and respond to a high-powered amplifier, unlike most small speakers of such quality, they don't require a ton of power... In short, these black-clad beauties are a small wonder.

April 1993 - Excerpted with permission from *Audio/Video Interiors*

## RollingStone

PSB IS A CANADIAN SPEAKER maker as well as a smart human being named Paul S. Barton. Other manufacturers will tell you to get their speakers away from the wall to avoid muddiness. But Barton designed the PSB Alpha (\$200 a pair) to sit 2 inches from the wall, where its 6.5 inch polypropylene woofer can bounce convincing bass through a back-panel port, off the wall, into the room. Even without the optional PSB Alpha Subsonic subwoofer (\$300) or self-powered, 90-watt Subsonic II subwoofer (\$700), this little speaker rocks and rolls in a small space, partly thanks to a low impedance rating of six ohms. (The fewer ohms, the more power the speaker will accept)... And unlike competitors using potentially harsh metal tweeters, the Alpha handles highs using a sweet little plastic tweeter from France. For five-speaker surround sound, get an extra pair of Alphas and the PSB 100C center-channel speaker (\$180).

*Rolling Stone*, June 16, 1994

■ PSB 300

■ PSB 400

## Stereo Review

THE PSB 400 IS ONE OF A new series of speakers from the Canadian designer Paul Barton. One of Barton's goals was to provide as much as possible of the essential quality of the PSB Stratus speakers, widely recognized for their uncolored, musical sound, in relatively small, inexpensive speakers.

The PSB 400 is a compact two-way system with a 6.5-inch polypropylene-cone woofer operating in a vented enclosure. A .75-inch soft dome tweeter radiates the higher frequencies. No specifications were provided in the installation-instruction booklet, which deals only with general considerations, but the Model 400 appears to use the same drivers as the even smaller PSB Alpha.

The all-black cabinet is 16 inches high, and each speaker weighs 17.5 pounds. The tweeter is recessed slightly, and its rim flares out to make a smooth transition with the speaker panel. The woofer basket is also mounted flush with the panel. A removable black cloth grille is retained by plastic snaps.

The connecting terminals are multi-way binding posts on .75-

inch centers, recessed into the rear of the cabinet. They are compatible with single or dual banana plugs as well as wire ends.

We placed the PSB 400 on the optional 27-inch stands, approximately 9 feet apart and 2 feet in front of a wall, for our room measurements and listening tests. The room-response curve, averaged for both speakers at a single microphone location, sloped downward slightly above 500 Hz but varied only +/-3 dB from 300 to 20,000 Hz.

The close-milked woofer response (including the contribution of the port) reached its maximum at 100 Hz, sloping downward at 6 dB per octave below 80 Hz and more gradually above 100 Hz. The composite response curve, which agreed fairly well with the sound quality of the speakers, indicated a smooth, gradual downward slope from 100 Hz to at least 5,000 Hz, with a more uniform average output from 5,000 to 20,000 Hz.

Response measurements at 1 meter on the tweeter's axis, with a swept one-third-octave band of pink noise, indicated a remarkably uniform output, varying only +/-2 dB from 50 to 20,000 Hz

and falling off precipitously at lower frequencies. That was generally consistent with what we heard from the speakers.

Other measurements, made with a variety of quasi-anechoic techniques, showed a rough agreement with the earlier measurements. Some of the peaks and dips in the measured response occurred at the same places in all the measurements, but the others did not necessarily coincide.

One fact was evident from all our data. Whatever the method of measurement, the response of the PSB 400 was strikingly smooth, with a typical output uniformity of +/-2 dB from a few hundred hertz to 20,000 Hz (at lower frequencies there is unavoidable interaction with the room boundaries). The use of a .75-inch tweeter not only contributes to the system's extended high-frequency response but gives it better angular dispersion over its full frequency range. At 45 degrees off the tweeter's axis, the output dropped only 3 dB at 10,000 Hz and 8 dB at 20,000 Hz. Phase linearity in the tweeter's range was also excellent, with a total group-delay variation of

**"The compact PSB 300 is a winner ...a great bargain, highly recommended"**

***Lyd & Bilde***  
**('Sound & Picture' Norway) August, 1993**

**“The PSB 400 is a musical speaker... It is an example of what can be done with a modest budget and enclosure size in the current state of the loud-speaker art.”**

less than 100 micro-seconds from about 4,000 Hz to 20,000 Hz and about 200 micro-seconds at 2,000 Hz (close to the probable crossover frequency).

Impedance was a minimum of 4.5 ohms at 170 and 40 Hz and a maximum of about 17.5 ohms at 68 and 1,900 Hz. Since the impedance fell below 6 ohms over much of the lower midrange, we would rate the system at 5 to 6 ohms. Sensitivity, with an input of 2.83 volts of pink noise, was 87

dB sound-pressure level (SPL) at 1 meter. With 4 volts drive (corresponding to a 90-dB SPL), the woofer distortion was comfortably low, ranging between 0.6 and 1 percent over most of the frequency range from 80 to 2,000 Hz. It rose to 2 percent in the range of 45 to 60 Hz. The lower frequency limit of the PSB 400 could be rated at 45 to 50 Hz, which is very good performance for a single 6.5-inch woofer in a small cabinet.

It would appear that Paul Barton has achieved his goal in the Model 400. Although we did not compare it directly with one of the PSB Stratus systems, we would hardly expect it to match their qualities. Nonetheless, it managed to sound like much more of a speaker than its dimensions, weight, and price would suggest. Both the quality and quantity of sound it can generate belie its appearance, and we have no doubt that if it were hidden it would be able to deceive many listeners into thinking they were hearing a far larger speaker.

But that is really besides the point. The PSB 400 is a *musical* speaker, unlikely to offend the sensibilities of the most critical

listener. It is also not going to cause financial hardship, nor mar the decor of any room that is likely to be devoted to a music system. It is an excellent example of what can be done with a modest budget and enclosure size in the current state of the loudspeaker art.

**Julian Hirsch**, Hirsch-Houck Laboratories - December 1992

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PSB 400



## ■ PSB 500

## ■ PSB Stratus Mini

**stereophile**

**SpeakerBuilder**  
THE LOUDSPEAKER JOURNAL



PSB 500

**"The PSB 500 is a new best-seller... performs with great power and control... PSB is guaranteed to have many fans."**

**Lyd & Bilde**  
(**'Sound & Picture'**  
**Norway**)  
**September,**  
**1993**



The PSB Stratus Mini was the recipient of *Sound & Vision Magazine's* Critic's Choice Award.

**B**ECAUSE AFTER ALL THE ESSENTIALS are taken care of – overall balance, listenability, and lack of serious colorations – it takes something more to tickle the audio palate. Call it what you will, it boils down to a sense of life and three-dimensionality. There's no magic involved in achieving these things (they are not unrelated to those questions of balance and coloration). They simply require intelligent design *plus* a designer who is actually looking for them. Some loudspeakers have them, some don't. The PSBs have them to a satisfying degree. They have the same sense of dimensionality that I noted in my earlier remarks about the PSB 40 Mk.II. And they have enough presence, detail, and dynamic range to provide a believable feeling of aliveness without lapsing into an etched, analytic caricature.

**Thomas J. Norton -**  
*Stereophile* (PSB 500 review),  
July 1993, Vol. 16, No. 7



*Stereophile Magazine* recommends both the PSB 500 and Stratus Mini loudspeakers.

PSB STRATUS MINI

**T**HE STRATUS MINI IS A CLASSIC case study in the design methodology required for producing a good sounding, anechoically flat loudspeaker, which makes it an ideal subject for an SB review. Before discussing the engineering details, however, I'd like to introduce the speaker's designer, Paul Barton.

Barton has been a major force in the growing number of Canadian loudspeakers in the US market.

The first manufacturer to use the NRC (Canadian National Research Council) anechoic chamber for design work, he was also one of the first to use computer-aided loudspeaker design software.

### **BOTTOM LINE**

I admire the design and construction of the Stratus Mini very much. The excellent off-axis response and closely-matched drivers produce a good image character with a reasonable amount of depth. The dynamic range is really quite good and seemed better to me than some of the comparably-priced competition which use shallow-sloped crossover techniques. The Stratus midrange is neutral sounding; the high frequencies are clean and free of harshness or excessive sibilance.

The bass is well-defined and well-balanced, with good extension for a 6.5" woofer. Using this speaker with the right subwoofer would give the bottom end the authority lacking in all 6.5" drivers.

Compared to some of my current work, which uses very expensive 12-gauge air core inductors and beautiful poly caps in similar two-way design formats, the PSB Stratus Mini sounds embarrassingly good, cored inductors and NP electrolytics notwithstanding. If I were asked to recommend speakers in the \$1,000/pair category, I would definitely include the Stratus Mini.

**Vance Dickason -** *Speaker Builder*, Issue 3, 1993

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## ■ PSB Stratus Silver

### stereophile

ANOTHER SLENDER, FLOOR-mounted, tower speaker, the [PSB] Stratus Silver builds on the design and sound qualities of PSB's established Stratus Gold and Mini designs...The cabinet construction, as with other members of the Stratus family, is unique. The sides, front, and back are joined with tongue-and-groove aluminum extrusions. I don't know whether or not this provides any acoustical benefits, but it certainly results in a less boxy appearance than that of your typical loudspeaker...Our Stratus Silvers were finished in a striking, mirror-like gloss-black; several wood veneers are also available for those who don't like the wet look. The Silver's top end was detailed and very clean...At the opposite end of the spectrum, the Silver's bass response was surprisingly potent – not exactly what you'd expect from two pairs of 6.5" drivers trying to energize a +5,000 ft<sup>3</sup> listening room...are honest performers and honest values in a tough market segment...belong solidly in Class C of our "Recommended Components" listing; I suspect that, under the right circumstances in the right systems, they

might embarrass more than a few Class B residents.. the PSBs played at surprisingly high levels without strain. The PSB's sensitivity was high...The PSB Stratus Silver's measurements are first-rate. Certainly nothing here contradicts the fine listening result...the PSB Stratus Silver loudspeakers will give a detailed, rewarding performance with an open, transparent soundstage, an extended bottom end which will only be materially improved by a *good*, well-matched subwoofer, and an even timbral balance...[the PSBs], I suspect, would also work well in a Home Theater setting. Though I used neither in that capacity here, I have a gut feeling that the Silver's immediacy might make them a particularly good match for this application. But I do recommend a subwoofer in such a system. I could live happily and long with these loudspeakers. So, I suspect, could many of you. In a field which seems to have gone over the top with prices these days, it helps to be reminded that good value is still an effective sales tool. I enthusiastically recommend that...the PSB be added to your loudspeaker shopping list.

**Thomas J. Norton -**  
*Stereophile*, July 1994,  
Vol. 17, No. 7

**"All of our listening panelists were stunned with the performance of the Stratus Silver loudspeakers... we all agreed that these loudspeakers represent one of the best values in the industry."**

**Inner Ear Report  
Summer 1994**



PSB STRATUS SILVER

## ■ PSB Stratus Gold

**stereophile**

**AUDIO**  
THE EQUIPMENT AUTHORITY

THE PSBs PRESENTED ME with an open, detailed, clear sound-stage, a solid low frequency foundation, airy, articulate highs, and an unmuddled, low-coloration mid-range. Their sound is immediate and vibrant – not pushy, but clearly not laid back either. They have a natural clarity and inner detailing which do not slight small-scaled instrument groups and vocals, but have the weight and impact required for dramatic, large-scaled works. I was particularly struck by the Stratus Gold's open, unboxy mid-range. Voice was particularly well handled. 'Clarity without shout', my notes relate, and that seems to sum up my observations.

**Thomas J. Norton** -  
*Stereophile*, Feb. 1991,  
Vol. 14, No. 2



THE STRATUS GOLD IS THE top of Canadian manufacturer PSB's loudspeaker line, which also includes models from \$199 to \$2,100 per pair. The Stratus Gold is a large, floor-standing tower system with a vented-box low end designed around a high-excursion 10-inch woofer.

PSB was the first Canadian loudspeaker company to take advantage of the advanced testing facilities and scientific staff of Canada's National Research Council. The NRC... is a government-funded Canadian operation whose mandate is to help Canadian manufacturers be competitive in world markets. PSB has made extensive use of NRC facilities, including controlled listening tests in NRC's International Electrotechnical Commission (IEC) Standard listening room (after which both *Audio's* New York listening room and my own were patterned), to optimize the Stratus Gold's performance.

The appearance and the fit and finish of the Golds are excellent. My wife and family really liked the oak finish. Particularly handsome are the beveled top and base of the system; it's quite obvious that they are made from solid pieces of oak, because the wood grain maintains continuity all

around the edge and along the bevels.

The Stratus Golds produced a very clean, balanced, wide-range sound that competed with my reference systems (B&W 801 Matrix Series 2) on nearly an equal basis. Bass organ notes that had made my reference speakers stumble were handled without a whimper by the Stratus Golds.

The bass notes between 3:41 and 3:44 on track 15 of Dorian's very demanding organ version of *Pictures at an Exhibition* (DOR-90117), when the organ is played all-stops-out during the finale, made my reference systems stumble. But the Stratus Golds handled the difficult passage without a whimper (and even higher playback levels!).

At \$2,000 a pair, the Stratus Golds provide considerable performance and first-class looks for the money. They should appeal both to the audiophile crowd, for whom accuracy, balance, and imaging are important, and to a wider audience that likes loud rock 'n' roll, for whom the ability to play loudly and cleanly is important.

**D.B. Keele, Jr.** - Nov. 1991

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"The 10,000-watt speaker"

*Audio*,  
November,  
1991

# Sound & Vision

CANADA'S ELECTRONIC ENTERTAINMENT MAGAZINE

**B**LIND LISTENING TESTS WERE conducted in the NRC/IEC listening room, using experienced listeners, who judged performance using a collection of high-quality recordings of classical, jazz and popular music.

It is always difficult to put into words how something sounds, but a comment by one of our listeners, "a refined sound," seems to sum it up quite well. As always, opinions among our listeners varied with position in the room, but they expressed a lot of pleasure with the Stratus Gold. Large orchestral works were presented with authority ("big, open, well balanced"). Military bands came through with a "nice forward, open presentation." The low distortion and lack of power compression were obvious in high level passages, which were handled without stress ("relaxed, credible"), yet smaller works were conveyed with subtlety and timbral integrity ("chorus nicely balanced"). Solo voices seemed to be especially well "transported," without obvious chesty enhancements ("good male voice," "appealing vocal"). At the same time, bass performance was impressive, with the Stratus Gold

showing that it could plumb the depths of orchestral bass ("great bass drum"), jazz ("good acoustic bass"), and rock percussion ("solid pop!") with equal conviction. Our fussy listeners had a few criticisms, occasionally commenting on a slight upper-midrange coloration in chorals, and a little aggressiveness in brasses. These comments were moderate in tone, and inconsistent, a clue that room, program and other factors were probably at work. Stereo imaging was excellent, with a sound-stage that displayed considerable breadth and depth. There were well-defined instrument locations in small ensembles, and a credible sense of spaciousness in larger works. The Stratus Gold portrayed the spatial differences between recordings, a good sign that the speaker is not getting in the way.

Overall, the Stratus Gold shows its pedigree. Comments such as "no significant faults," "smooth," "clean," "clear," and "refined" are not commonplace in our tests. They confirm that PSB continues, and indeed builds upon, its reputation for first-class sound.

Reprinted from *Sound & Vision*, Jan/Feb 1991, with permission.

**"The Stratus Gold shows its pedigree... PSB continues, and indeed builds upon, its reputation for first-class sound."**



The PSB Stratus Gold enjoys extensive critical acclaim including *AudioVideo International's* 1993 Grand Prix Award, inclusion in *Stereophile's* Recommended Components, and *Sound & Vision's* 1993 Critic's Choice Award.

## ■ PSB 100C

# SOUND & IMAGE.



PSB 100C

**In a Spring 1994  
Sound & Image  
ranking of 15 cen-  
ter-channel speak-  
ers priced at \$200  
or less, PSB 100C  
ranked Number 1  
of those with a  
horizontal design.**

RECENT STUDIES IN THE FIELD of Dolby Pro Logic surround-sound systems show that they operate on the principle of centrifugal force. Translation: the center-channel speaker is the source from which Pro Logic's power springs. This lofty position brings with it unprecedented responsibility, however.

A center channel has to anchor an incredible variety of sounds at the screen without ever sounding unnatural. Whispers and detonating dynamite, angelic choirs singing and hell hounds howling – all must sound *real*. With movie scores and music programs, a center channel has to distinguish between dissimilar instruments and similar ones (an even greater challenge). And a good center speaker will disperse its lifelike sounds to as much of the room as possible, without letting them wander from the screen.

At the same time, a center channel has to blend seamlessly with the other speakers in the system, or they'll fight among themselves and disrupt the illusion Pro Logic tries to create. This isn't a stretch when all of the system's speakers are part of a surround package or series designed by a

single manufacturer. But it takes a special center channel to coexist in harmony with speakers outside its immediate family. With these thoughts in mind, I wired PSB's 100C (\$179) into my reference system, placed it in front and center on top of my TV, and ran it through a gauntlet of programs with and without Dolby Surround encoding.

A quick physical turned up the vital statistics. At 7.5 x 17 x 6 inches, it may make smaller TVs (25 inches or less) look top-heavy, but it fit my 32-incher perfectly. Its 13-pound heft instantly conveys a sense of quality, this impression grew as I examined the 100C's cabinet; PSB (Dept. S&I, 633 Granite Ct., Pickering, Ontario L1W 3K1; 905-831-6333) obviously knows its craft. It's far from the flashiest center channel I've seen though: it looks like a... speaker, and it clashed a bit with the spacey contours of my TV. I also wondered whether the lack of an adjustable stand, which would have me "aim" the speakers output at my primary listening spot (a low, black-leather Ikea lounge), would hamper its performance.

It didn't. *Basic Instinct* the movie isn't a paragon of subtlety, but its soundtrack offers a good batch of contrasting sounds. One moment, Sharon Stone is opening the buttons on her blouse, the next her girlfriend is trying to run Michael

Douglas over with her Lotus. Cut to a naked Ms. Stone padding about her cliffside manse, which is soon followed by Michael Douglas punching out a coworker in a crowded police station. Later, Ms. Stone pulls a sweater off, and then *someone* (the suspense!) is plunging an icepick into George Dzundza's Michelin-man neck. Each of these scenes contains, alternately, extremely subtle sounds and garish, oversized ones – and the 100C had to make all of the sounds appear natural and in proper balance. Piece of cake.

The 100C also blended well with my other front speakers, which I alternated between the relatively well-designed detachables supplied with my TV and a pair of mini monitors. And despite being aimed about a foot over my head, all of the sounds corresponding to onscreen action were appropriately locked on the screen – even when I slid the lounge about 6 feet to either side of center.

Switching between a couple of live music videodiscs, Pink Floyd's *The Delicate Sound of Thunder* and a version of Verdi's *Requiem*, I discovered that the 100C was equally at home with male and female voices as it was electric, electronic, and acoustic instruments. The 100C also got very loud and pretty low when I wanted it to, and it never sounded strained (it's compatible with amps delivering a steady 10 to



The PSB 100C was the recipient of *Sound & Vision Magazine's* 1994 Critic's Choice Award.

## ■ PSB Alpha Subsonic

## ■ PSB Subsonic II



**BEST  
OF  
AUDIO  
'93**

CD Review selected the PSB Subsonic II as one of the best audio buys of 1993.



The PSB Alpha Subsonic has been recognized as a *Sound & Vision Magazine* 1994 Critic's Choice Award Winner.

100 watts). Finally, I succumbed to the obvious and slid *Terminator 2* into my disc player. The shopping carts that get slammed by the semicab in the justly famous truck/bike chase scene sounded exactly like shopping carts getting slammed by steel and concrete (don't ask me how I know). The *tak-tak-tak* of Joe Morton typing on his computer was just as irritating as the real thing. And the bubbling of the superheated liquid steel that proved to be the T-1000's undoing was even more unnerving than the sound of the rabbit boiling in *Fatal Attraction*.

Then there's the movie's most repulsive moment: when the sadistic guard in the psychiatric hospital licks Linda Hamilton's face with his Guernsey-size tongue. It was so sickeningly real it made my skin crawl. *That's* what a good center-channel speaker is all about, and this speaker has the act down cold. Since home theaters operate on the principle of centrifugal force, PSB's ridiculously inexpensive 100C makes a terrific source for all the excitement.

**Bill Wolfe** - *Sound & Image*, Summer 1993

## SOUND & IMAGE.



PSB'S SMALLISH SUBSONIC II (\$699) has a fairly typical design for this group: continuously adjustable low-pass crossover, fixed high-pass, and a phase switch. There's also an on/off switch, though the maker's outstanding owner's manual suggests leaving the Subsonic II powered. And while its performance was "only" average or a bit above average for this admittedly excellent group, that performance takes on a new meaning when you balance it against the Subsonic II's price. In any case, it kicked out some powerful jams with its max output of 104 dB SPL. And it measured all the way down to 26 Hz. While I thought it sounded a tad less powerful than my very favorites in this group, all kinds of music and videos were delivered gracefully and with lots of punch and very clean details. Talk about added value.

**Tom Nousaine** - *Sound & Image*, Summer 1994

THE YEAR SAW A TEEMING host of new subwoofers hit the market. One of the best (and best values) is from Canada's PSB Speakers. The active Subsonic II combines a high-tech 12-inch woofer and dynamic, high-power dedicated amplifier in a compact, 16-inch cube. Performance is enhanced by an unusually sophisticated, fourth-order two-way crossover, and by dynamic controls that make bass distortion virtually impossible. The Subsonic II's ratings are impressive: a 35 Hz low-frequency limit (-3 dB; -10 dB at 25 Hz), and 110 dB SPL maximum output in typical listening rooms. Equally impressive is the PSB design's price: \$699.00.

**Dan Kumin** - *CD Review*, January 1994



PSB SUBSONIC II

## Now, here's what PSB customers say...

*After listening to many other speakers, the PSB Alphas proved far superior. Excellent performance and value.*  
C.H., Taipei, Taiwan

*I've had many compliments on the sound quality of my PSB speakers – very clean, natural sound.*  
O.P., Oslo, Norway

*I'm very impressed with your products. I bought PSB front, rear, center and subwoofer for my surround sound system.*  
K.M., Seattle, WA

*The best center-channel in its price range – keep up the good work!*  
G.L., Langley, B.C.

*A music lover's dream. Thanks PSB!*  
K.L., Singapore

*My PSB Stratus Golds sound and feel like live music – truly amazing.*  
M.H., Reno, NV

*My PSB 300s are a winner!*  
M.C., Macau

*PSB Alphas are incredible – great sound and price.*  
K.C., Bangkok, Thailand

*Thanks to PSB Speakers in Canada for making wonderful loudspeakers!*  
L.M., Malaysia

*Great sound!*  
P.L., Austin, TX

*They're great!*  
M.R., Baltimore, MD

*PSB has excellent price/performance and I have recommended PSB to many friends.*  
M.H., Montreal, PQ

*Son très clair et précis.*  
M.G., Quebec, PQ

*This is a fine subwoofer – keep up the good work!*  
M.F., St John's, NFLD

*I'm impressed with the "box of thunder" I purchased. You should be congratulated for making an excellent speaker!*  
G.D., Toronto, ON

*Thank you. Well worth it!*  
C.M., Edmonton, AB

*My Golds sound great with all kinds of music.*  
C.G., St. Charles, IL

*Great rear speaker for surround sound!*  
S.O., Exeter, NH

*I'm very pleased with my Alphas. Their compact size and quality sound just "blew" me away. Thanks.*  
J.H., Miami, FL

*The Alphas are unbelievable! They easily offer the most bang for the buck of any speaker in their class.*  
N.E., Hayward, CA

*The performance of these speakers (Stratus Silvers) far outmatched comparatively priced models – get the word out!*  
M.B., Detroit, MI

*My all-PSB speakers surround system is great – thanks!*  
P.S., Pasadena, CA

*My PSB Center Channel is wonderful. I'm saving for the PSB Subsonic II.*  
E.J., Columbus, OH

*The workmanship and quality are excellent!*  
S.C., Gainesville, FL

*Very pleased with the performance of my PSB Subsonic II. Excellent sound, clean, deep bass. One of the better additions to my system. Thanks!*  
B.K., Boise, ID

*They are the best speakers I've ever had. They sound great and they are great value.*  
A.N., Santa Fe, NM

*Wow! I can't believe the sound quality of my all PSB home theater system. I will definitely be spreading the PSB word to my friends.*  
S.C., New York, NY

*I'm enjoying the PSB Subsonic III; it enhances the sonic performance of my existing system, especially for video application.*  
S.T., Memphis, TN

*On my friend's recommendation I bought a pair of PSB 600s – great performance/value in an elegant, slim design. Thanks PSB.*  
V.L., San Francisco, CA

*Thanks to the helpful sales staff – my PSBs sound fantastic.*  
P.A., Verona, NJ

**psb**  
**SPEAKERS**

A MEMBER OF THE  
LENBROOK GROUP

PSB Speakers  
633 Granite Court  
Pickering, Ontario  
Canada L1W 3K1

Tel: (905) 831-6333

# LOUDSPEAKERS

| MANUFACTURER                   | Model                | Application Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls: Woofer = W, Midrange = M, Tweeter = T, Super Tweeter = ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish          | Grille Color and Material | Weight, Lbs. Each | Price, \$                      |
|--------------------------------|----------------------|--|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|---------------------------------|--------------------------------------|-----------------|---------------------------|-------------------|--------------------------------|
| DUNLAVY AUDIO LABS (Continued) | SC-VI                | Sealed   | (2)15, (2)8             | (2)5½                     | Cones         | 1                        | Dome         |  | 20-20                                       | 91                      |  |                           | 6/3                             | 79 x 18 x 33                         | Opt., Wood      | Blk. Knit                 |                   | 18,000. Pair                   |
|                                | SC-HT                | Home Th.   | (2)15                   | (2)5½                     | Cones         | 1                        | Dome         |  | 30-20                                       | 91                      |  |                           | 6/3                             | Four Pieces                          | Opt., Wood      | Blk. Knit                 |                   | 7000.00 Sys.                   |
| DUNTECH                        | Sovereign C-7000     | Pulse Coherent Point Source (PCPS)                     | (2)12, (2)7             | (2)2                      | Domes         | ¾                        | Dome         | W,M,T  | 27-20 ±2                                    | 90                      | 100  | 300,2k,6k                 | 4/3                             | 74 x 14 x 35                         | Rswd.           | Blk. Knit                 | 375               | 30,000. Pair w/Krell KBX Xover |
|                                | Sovereign C-6000     | PCPS   | (2)12, (2)7             | (2)2                      | Domes         | ¾                        | Dome         |  | 27-20 ±2                                    | 90                      | 100  | 300,2k,6k                 | 4/3                             | 74 x 14 x 35                         | Oak             | Blk. Knit                 | 375               | 21,000. Pair                   |
|                                | Princess C-5000      | PCPS   | (2)9                    | (2)5                      | Cones         | 1                        | Dome         |  | 38-20 ±2                                    | 90                      | 100  | 500,5k                    | 4/3                             | 74 x 12 x 20                         | Oak             | Blk. Knit                 | 146               | 10,995. Pair                   |
|                                | Marquis C-4000       | PCPS   | (2)8                    | (2)4                      | Cones         | 1                        | Dome         |  | 45-20 ±2                                    | 92                      | 60   | 1k,5k                     | 4/3                             | 59 x 11 x 18                         | Oak             | Blk. Knit                 | 117               | 7995.00 Pair                   |
|                                | Regent D400          | PCPS   | (2)12                   | (2)7                      | Cones         | 1                        | Dome         |  | 30-20 ±3                                    | 90                      | 100  | 450,4k                    | 4/3                             | 74 x 14 x 23                         | Blk. Satin      | Blk. Knit                 | 161               | 7495.00 Pair                   |
|                                | Baron D300           | PCPS   | (2)8                    | (2)4                      | Cones         | 1                        | Dome         |  | 45-20 ±3                                    | 92                      | 60   | 1k,5k                     | 4/3                             | 57 x 11 x 14                         | Blk. Satin      | Blk. Knit                 | 99                | 4495.00 Pair                   |
|                                | Viscount D200        | PCPS   | (2)6½                   |                           |               | 1                        | Dome         |  | 50-20 ±3                                    | 91                      | 60   | 3k                        | 4/3                             | 34 x 11 x 14                         | Blk. Satin      | Blk. Knit                 | 53                | 2495.00 Pair                   |
|                                | Esquire D100         | PCPS   | (2)6½                   |                           |               | 1                        | Dome         |  | 50-20 ±3                                    | 91                      | 60   | 3k                        | 4/3                             | 26 x 11 x 14                         | Blk. Satin      | Blk. Knit                 | 40                | 2195.00 Pair                   |
| PCL25                          | PCPS                 | (2)6½  |                         |                           | 1             | Dome                     |              | 55-20 ±3   | 89  | 30                      | 3k   | 3/6                       | 24 x 11 x 14                    | Blk. Rswd.                           | Blk. Knit       | 44                        | 1995.00 Pair      |                                |
| DUSON                          | 71B                  | Bass Ref.  | 5                       |                           |               | 1                        | Dome         |  |   | 90                      | 40   | 2.5k                      | 8/5                             | 32 x 8 x 10                          | Satin Blk.      | Blk. Knit                 | 35                | 795.00 Pair                    |
|                                | 81B                  | Bass Ref.  | 5                       |                           |               | 1                        | Dome         |  |   | 90                      | 40   | 2.5k                      | 8/5                             | 35 x 8 x 10                          | Satin Blk.      | Blk. Knit                 | 42                | 995.00 Pair                    |
|                                | 91B                  | Bass Ref.  | 7                       |                           |               | 1                        | Dome         |  |   | 87                      | 40   | 2k                        | 8/7                             | 38 x 9 x 11                          | Satin Blk.      | Blk. Knit                 | 48                | 1395.00 Pair                   |
|                                | 101                  | Bass Ref.  | 5                       |                           |               | 1                        | Dome         |  |   | 87                      | 60   | 3k                        | 8/5                             | 39 x 8 x 10                          | Opt.            | Opt., Knit                | 42                | From 1795.00 Pair              |
|                                | 102                  | Bass Ref.  | 7                       |                           |               | 1                        | Dome         |  |   | 88                      | 70   | 2.5k                      | 8/4                             | 41 x 9 x 11                          | Opt.            | Opt., Knit                | 54                | From 2249.00 Pair              |
| 103                            | Bass Ref.            | 8  | 4                       | Cone                      | 1             | Dome                     |              |  | 89  | 70                      | 100,3.5k                                     | 8/4                       | 39 x 9 x 12                     | Opt.                                 | Opt., Knit      | 62                        | From 3295.00 Pair |                                |
| DZURKO ACOUSTICS               | Shadow               | Aperiodic  | (2)8½                   | (2)5                      | Cones         | 1                        | Dome         | W  | 40-20 ±3                                    | 91                      | 40   | 200,3.5k                  | 4/3.5                           | 49 x 10 x 17                         | Opt., Wood      | Blk. Knit                 | 180               | 9250.00 Pair                   |
|                                | Jaguar               | 4th Order  | 7                       |                           |               | 1                        | Dome         |  | 48-20 ±3                                    | 85                      | 40   | 3k                        | 8/6                             | 18 x 16 x 10                         | Opt., Wood      | Blk. Knit                 | 65                | 4500.00 Pair                   |
|                                | Phantom              | Aperiodic  | 8                       |                           |               | 1                        | Dome         |  | 48-20 ±3                                    | 89                      | 40   | 2.8k                      | 8/6                             | 33 x 12 x 10                         | Blk. Oak        | Blk. Knit                 | 50                | 899.00 Pair                    |
| EBONY                          | Ribbon Reference One | Contained Rear Wave & Air Spring Subwoof.              | 8                       | (8)                       | Ribbons       |                          | Ribbon       |  | 26-44 ±3                                    | 88                      | 100  |                           | 7/6                             | Three Pieces                         | Opt., Oil, Wood | Blk. Knit                 |                   | 22,000. Sys.                   |
| EDGE ELEC-TRONICS              | CS-5                 | Ported   |                         |                           | Flat          | 1½                       |              |  | 80-20 ±2                                    | 91                      | 10   | 2.5k                      | 6/4                             | 12 x 10 x 3                          | Oak             | Blk.                      | 8                 | 220.00 Pair                    |
|                                | CS-1                 | Ported   |                         |                           | Flat          | 1½                       |              |  | 55-20 ±2                                    | 91                      | 10   | 2.5k                      | 6/4                             | 13 x 11 x 7                          | Oak             | Blk.                      | 12                | 399.00 Pair                    |
|                                | CS-3                 | Sealed   | 8                       | 5¼                        | Cone          | 2                        |              |  | 38-20 ±2                                    | 92                      | 10   | 150,2.5k, 5k              | 6/4                             | 12 Dia. x 31                         | Oak             | Blk.                      | 23                | 699.00 Pair                    |
|                                | CS-7                 | Sealed   | (4)6½                   | 5¼                        | Cone          | 2                        |              |  | 31-20 ±2                                    | 90                      | 40   | 150,2.5k, 5k              | 6/4                             | 12 Dia. x 46                         | Cloth           | Blk.                      | 42                | 1200.00 Pair                   |
|                                | CS-9                 | Sealed   | (4)6½                   | (2)5¼                     | Cones         | 2                        |              |  | 28-20 ±2                                    | 88                      | 40   | 80,1.5k, 4k,8k, 100       | 4/4                             | 12 Dia. x 61                         | Cloth           | Blk.                      | 62                | 2700.00 Pair                   |
| SW-1                           | Subwoof.             | (2)10  |                         |                           |               |                          |              | 20-200   | 90  | 50                      | 100  | 4/4                       | 18 x 21 x 10                    | Oak                                  |                 | 59                        | 650.00 Each       |                                |
| E.F.A.                         | 2                    | Bass Ref.  | 8                       |                           | 1½            | Dome                     |              | 38-20 ±3   | 90  | 25                      | 2k   | 8/6                       | 35 x 11 x 12                    | Opt.                                 | Blk. Knit       | 50                        | 1495.00 Pair      |                                |
| ELAC                           | EL 51 II             | Bass Ref.  | 6.3                     |                           | 2.35          | Cone                     |              |  | 44-20                                       | 86                      | 30   | 3.2k                      | 4/4.4                           | 15 x 8 x 10                          | Opt.            | Blk. Knit                 | 12                | 410.68 Pair                    |
|                                | EL 61                | Bass Ref.  | 6.5                     |                           | 1             | Dome                     |              |  | 42-22                                       | 87                      | 30   | 2k                        | 4/3.6                           | 16 x 9 x 11                          | Opt.            | Blk. Knit                 | 18                | 557.34 Pair                    |
|                                | EL 71                | Bass Ref.  | 6.5                     |                           | 1             | Dome                     |              |  | 40-25                                       | 87                      | 30   | 2.3k                      | 4/3.6                           | 17 x 9 x 11                          | Opt.            | Blk. Knit                 | 19                | 704.00 Pair                    |
|                                | EL 91 II             | Bass Ref.  | 6.3                     |                           | 1             | Dome                     |              |  | 38-25                                       | 86                      | 30   | 2k                        | 4/4                             | 29 x 27 x 9                          | Opt.            | Blk. Knit                 | 23                | 733.34 Pair                    |
|                                | EL 121               | Bass Ref.  | (2)6                    |                           | 1             | Dome                     |              |  | 35-25                                       | 88                      | 30   | 2.2k,2.5k                 | 4/3.5                           | 36 x 8 x 10                          | Opt.            | Blk. Knit                 | 30                | 1305.00 Pair                   |
|                                | EL 141               | Bass Ref.  | (2)7.87                 | 1.5                       | Dome          | 0.75                     | Dome         |  | 30-22                                       | 87                      | 30   | 900,1k, 4.2k              | 4/3.6                           | 42 x 10 x 12                         | Opt.            | Blk. Knit                 | 53                | 2200.00 Pair                   |

**psb**  
SPEAKERS

**AUTHORIZED  
DEALERS**

AL-Audio Video  
Specialists: Birmingham  
AR-Creative Sight & Sound: Little Rock  
Rock Entertainment Concepts: Fayetteville  
Yancey, Co.: Little Rock  
AZ-Sound Pro: Flagstaff  
Ultimate Entertainment: Phoenix  
CA-Ambrosia Audio: Bel Air  
Air Audio Concepts: Long Beach, San Gabriel  
Audio FX: Sacramento  
Audio Haven: Brea  
Audio Video  
Design: Monterey  
A/V Installation: Palm Desert  
Audio Video Today:  
Westminister  
Bay Area Audio: San Jose  
Catania Sound: San Rafael  
Classic Video: Newbury Park  
Dave's A/V: Studio City  
Definition Audio: Redondo Beach  
Jack Hanna: Stockton  
Laser Audio: San Luis Obispo  
Reference Audio: Gardena  
Shoreline Audio: Mill Valley  
Sierra Photo: Mammoth Lakes  
Sound Factor: Encino, Pasadena, Santa Monica  
Sound Options: Brentwood  
Stereovisions: Simi Valley

Video Mart: San Bernardino  
CT-Hi Fi Stereo Con.: Danbury  
FL-Advanced Audio Design: Sarasota  
Audio Advice: Pensacola  
Audio By Caruso: Miami  
Audio Visions: Tampa  
Better Sound: Boca Raton  
Hi Tech TV: Palm Coast  
Home Entertainment: Tarpon Springs  
Knightwing: Leesburg  
Media Control: Ft. Lauderdale  
GA-P. Mazou Sound: Savannah  
Music Audio: Atlanta  
IA-Audio Logic: Des Moines  
Custom A/V: Hiawatha  
Reference Audio: Bettendorf  
The Pass: Denison  
ID-Audio Warehouse: Twin Falls  
The Goodear: Boise  
IL-Saturday Audio Exchange: Chicago  
Select Sound: Naperville  
The Sound Lab: Palatine  
IN-Computer Specialists: South Bend  
Templins: Elkhart  
The King's Stereo: Indianapolis  
The

Sound Lab: Lafayette  
KS-Advance Audio: Wichita  
Kiefs A/V: Lawrence  
KY-Unlimited Sound: Louisville  
MA-Essential Hi Fi: Cricopee  
Goodwins A/V: Boston  
MD-JS Audio: Burtonsville  
ProProducts: Bethesda  
MI-Audio Video Alternatives: Royal Oak  
MM-Custom Sound & Video: St. Paul  
Enhanced Systems: Minneapolis  
Hi Fi Sound: Minneapolis  
Midwest A/V: Fairmont  
MO-Independence Audio: Independence  
Sound Central: St. Louis  
MT-Audio Plus: Bozeman  
Car Stereo Center: Billings  
Everything Electronic: Missoula  
NC-Polycon: Winston/Salem  
Sound One: Asheville  
Taylor Ho-Jse: Sherrills Ford  
NE-American Electronics: Omaha  
NH-Camera Shop: Haverrover  
State Street Discount: Portsmouth  
NJ-Audio Connection:

Verona Audio Nexus: Summit  
Electroworks: East Brunswick  
Florham Camera: Florham Park  
Hi Fi Connection: Deptford  
Marlton  
Hosanna Audio: Palisades Park  
Monmouth Stereo: Shrewsbury  
Sound City: Bloomingdale  
NM-Audio Design Consultants: Santa Fe  
Lavons: Hobbs  
NY-Don Calley's: Las Vegas  
NY-Alpha Stereo: Plattsburgh  
Audio Breakthroughs: Manhasset  
Audio Video Center: New York City  
Burt's Electronics: Kingston  
Capitol Audio: New York City  
Distributors of America: Huntington Station  
Harmony House: New York City  
Le Sounde: Saratoga Springs  
Lodestar A/V: Flushing  
Longplayer Stereo: Goshen  
New Paltz Audio: New Paltz  
North Country Audio: Redwood  
S&S Sound: New York City  
Sound Project:

Amagansett Stellar Stereo: Ithaca  
The Sound Concept: Rochester  
OK-Cartunes: Stillwater  
Youngblood Systems: Oklahoma City  
OH-Alamo Electronics: Cincinnati  
Beldon Audio: Canton  
Hi-Tech Hi Fi: Lyndhurst  
Paragon Sound: Toledo  
Progressive Audio: Columbus  
Sounds Musical: Centerville  
OR-Electronic Design Group: Portland  
England Audio: Eugene  
Kelly's Home: Salem  
PA-Audio Options: Pittsburgh  
Danby Radio: Ardmore  
David Lewis Audio: Philadelphia  
House of Records: Erie  
Omni Interactive: Camp Hill  
Tipton Audio: Tipton  
SC-Mitchell Stereo: Greenville  
TN-Nicholson's Stereo: Nashville  
Underground Sound: Memphis  
TX-Audio Concepts: Dallas  
Audio Concepts: Houston  
Audio Essentials: Houston

A/V Design: Corpus Christi  
Central Audio Systems: Austin  
Hamilton Bryant: Wichita Falls  
Home Product Specialists: El Paso  
Odessa Sound: Odessa  
Showery Stereo: McAllen  
Soundsmith: Dallas  
UT-Audio Design: Salt Lake City  
Audio Video Solutions: Provo  
VA-Audio Art: Richmond  
Digital Sound: Virginia Beach  
Potomac A/V: Woodbridge  
Sound Decision: Roanoke  
VT-Scientific Stereo: Brattleboro  
WA-Speaker Lab: Seattle  
System One: Puyallup  
W.VA-Absolute Sound: South Charleston  
Sterling Sound: Wheeling  
WI-Audio Philes: Cross Plains  
Gene's: Sheboygan  
Happy Medium: Madison  
Hitech Homes: Mequon  
Salome One: Wisconsin Rapids  
Sound Seller: Marinette  
Suess Electronics: Appleton

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# LOUDSPEAKERS

| MANUFACTURER            | Model  | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches             | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type    | Separate Level Controls? Woofer-W, Midrange-M, Tweeter-T, Super Tweeter-ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB       | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum   | Dimensions, Inches (To Nearest Inch) | Finish   | Grille Color and Material                | Weight, Lbs. Each                                 | Price, \$                      |
|-------------------------|--|---|-------------------------------------|---------------------------|---------------|--------------------------|-----------------|--|---|-------------------------------|--|---------------------------|------------------------------------|--------------------------------------|--|--|---|--------------------------------|
| ELAC<br>(Continued)     | EL 151   | Bass Ref.   | (2) 7.87                            | 6                         | Cone          | 1                        | Dome            |  | 28-25                                       | 88                            | 30   | 330,2.2k                  | 4/3.3                              | 45 x 10 x 12                         | Blk. Wal.  | Blk. Knit                                | 66  | 2933.34 Pair                   |
|                         | 4PI Plus II  | Add-On Tweeter  |                                     |                           |               |                          |                 |  |   |                               |  |                           |                                    |                                      |  |  |   |                                |
|                         | 211 4PI  | Bass Ref.   | (2)6                                | 1.5                       | Dome          |                          | Ribbon Omni     | W,T  |   |                               |  | Sel.                      | 4/                                 |                                      | Blk. Opt.  | Blk. Knit                                |   | 1833.34 Pair                   |
|                         | 215 4PI  | Bass Ref.   | (4)6                                | 1.5                       | Dome          |                          | Ribbon Omni     | W,T  | 25-35                                       | 84                            | 30   | 750,800, 4k               | 4/3.2                              | 50 x 9 x 12                          | Opt.   | Blk. Knit                                | 74  | 5866.68 Pair                   |
|                         | Edition One Limited One Edition Six Elegant 305 "Merlin" Elegant 307 Elegant 311 Elegant 315 | Bass Ref. Bass Ref. Bass Ref. Bass Ref.                 | (2)6 4.5 (2)6 4.5 (2)6 4.5 (2)6 4.5 |                           |               |                          | 1 0.75 1 0.75 1 | Dome Dome Dome Dome Dome   |   | 35-25 42-23 38-28 84 80 32-25 | 88 83 84 80 87                               | 30 50 60 80 80            | 2.2k,2.5k 3k 2.6k 1k,3.6k 360,2.6k | 4/3.5 4/4 4/3.4 4/3.2 4/3.1          | 36 x 9 x 10 36 x 9 x 10 8 x 5 x 11 15 x 7 x 12 36 x 7 x 12 47 x 7 x 12 | Opt. Opt. Opt. Blk. Alum. Opt. Opt. Opt. | Blk. Knit Blk. Knit Blk. Knit Blk. Knit Blk. Knit | 30 20 12 48 28                 |
| ELECTRO-STATIC RESEARCH | Illusion   | Hybrid ES   | 12                                  |                           |               | 18x60                    | Planar          | W  | 30-22 ±3                                    | 84                            | 80   | 400                       | 8/2                                | 74 x 26 x 14                         | Opt.   |  | 61  | 4895.00 Pair w/Xover           |
|                         | II   | Hybrid ES   | 10                                  |                           |               | 18x48                    | Planar          |  | 35-22 ±3                                    | 85                            | 80   | 100                       | 8/2                                | 60 x 18 x 15                         | Opt., Gloss  |  | 150   | 2995.00 Pair                   |
|                         | III  | Hybrid ES   | 6                                   |                           |               | 12x36                    | Planar          |  | 48-22 ±3                                    | 86                            | 60   | 400                       | 8/2                                | 48 x 12 x 6                          | Opt.   |  | 60  | 1995.00 Pair                   |
| ELECTRO-VOICE           | S-40 Monitor   | B4 Vented   | 5 1/4                               |                           |               | 1                        | Dome            |  | 85-20 ±3                                    | 85                            |  | 3.5k                      | 4/3.7                              | 10 x 7 x 6                           | Opt., Paint  | Opt., Paint                              | 6   | 346.00 Pair                    |
|                         | Sentry 100A Monitor  | B4 Vented   | 8                                   |                           |               | 1 1/2                    | Dome            | T  | 45-18 ±3                                    | 91                            |  | 2k                        | 6/4.5                              | 17 x 12 x 11                         | Blk. Vnl.  | Gray Knit                                | 28  | 426.00 Each                    |
|                         | Sentry 100EL Monitor   | Powered B4 Vented                                       | 8                                   |                           |               | 1 1/2                    | Dome            | T  | 45-18 ±3                                    |                               | Inc.   | 2k                        | 30k/10k                            | 17 x 12 x 12                         | Blk. Vnl.  | Gray Knit                                | 33  | 900.00 Each                    |
|                         | Sentry 500 Monitor   | B4 Vented   | 12                                  |                           |               | 1 1/2                    | Dome            | T  | 40-18 ±3                                    | 96                            |  | 1.5k                      | 8/6                                | 24 x 27 x 13                         | Blk. Vnl.  | Gray Knit                                | 70  | 850.00 Each                    |
|                         | Sentry 505 Monitor   | B4 Vented   | 12                                  |                           |               | 1 1/2                    | Dome            | T  | 40-18 ±3                                    | 96                            |  | 1.5k                      | 8/6                                | 19 x 26 x 19                         | Blk. Vnl.  | Gray Knit                                | 60  | 872.00 Each                    |
|                         | S-60   | Vented  | 6 1/2                               |                           |               | 1                        | Dome            |  | 70-18 ±3                                    | 88                            | 10   | 2.5k                      | 8/5                                | 14 x 9 x 4                           | Blk.   | Blk. Mtl.                                | 15  | 268.00 Each                    |
|                         | S-80   | Vented  | 8                                   |                           |               | 1 1/4                    | Dome            |  | 80-15 ±3                                    | 91                            | 10   | 2k                        | 8/5                                | 16 x 11 x 8                          | Blk.   | Blk. Mtl.                                | 17  | 324.00 Each                    |
|                         | Sb120  | Vented Subwoof.   | 12                                  |                           |               |                          |                 |  | 50-500 ±3                                   | 94                            | 10   |                           | 8/6                                | 23 x 17 x 12                         | Blk.   | Blk. Mtl.                                | 32  | 600.00 Each                    |
|                         | Sb120A   | Powered Vented Subwoof.                                 | 12                                  |                           |               |                          |                 | W  | 50-250 ±3                                   | 94                            | 400 Inc.                                     |                           | 8/6                                | 23 x 17 x 12                         | Blk.   | Blk. Mtl.                                | 34  | 1050.00 Each                   |
|                         | S-181  | Vented Subwoof.   | 18                                  |                           |               |                          |                 |  | 48-200 ±3                                   | 98                            | 50   | 200                       |                                    | 28 x 21 x 23                         | Blk. Cptg.   | Blk. Steel                               | 78  | 820.00 Each                    |
| ELITE                   | S-C5   | Bass Ref.   | 5 1/2                               |                           |               | 1                        | Dome            |  | 40-35                                       |                               |  | 6/                        | 8 x 16 x 11                        | Piano Blk.                           | Blk. Cloth   | 17                                       | 800.00 Pair                                       |                                |
| EMINENT TECHNOLOGY      | LFT-VI   | Planar Mag.   | 321 Sq. In.                         | 94 Sq. In.                | Planar Mag.   | 10 Sq. In.               | Planar Mag.     | M,T  | 38-20 ±4                                    | 83                            | 100  | 400,10k                   | 6/4                                | 78 x 18 x 2                          | Oil. Oak   | Blk. Poly                                | 90  | 3250.00 Pair                   |
|                         | LFT-VIII   | Planar Mag., Hybrid                                     | 8                                   | 160 Sq. In.               | Planar Mag.   | 5 Sq. In.                | Planar Mag.     | T  | 36-20 ±4                                    | 84                            | 75   | 180,10k                   | 8/6                                | 60 x 13 x 18                         | Oil. Oak   | Blk. Poly                                | 60  | 1500.00 Pair                   |
| ENERGY                  | ESAT-2   | Bass Ref., Sat.   | 4 1/2                               |                           |               | 3/4                      | Dome            |  | 140-22 ±3                                   | 86                            | 15   | 2.5k                      | 8/6                                | 8 x 5 x 5                            | Opt. Blk.  | Opt. Blk.                                | 5   | 349.99 Pair                    |
|                         | ESUB-2   | 6th Order Bandpass Subwoof.                             | 6 1/2                               |                           |               |                          |                 |  | 37-140                                      | 86                            | 15   | 140                       | 6/4                                | 12 x 8 x 14                          | Blk. Ash   | Blk.                                     | 18  | 349.99 Pair                    |
|                         | ECC-1  | Ctrl. Ch., Vented                                       | (2)4 1/2                            |                           |               | 1/2                      | Dome            |  | 60-20 ±3                                    | 90                            | 15   | 2.5k                      | 12/8                               | 6 x 20 x 8                           | Blk. Ash   | Blk.                                     | 15  | 169.99 Each                    |
|                         | HTS-1  | A/V, QB3 Vented Home Th.                                | (2)5 1/4                            |                           |               | 3/4                      | Dome            |  | 52-20 ±3                                    | 88                            | 25   | 2.5k                      | 6/4                                | 19 x 8 x 12                          | Blk. Ash   | Blk. Knit                                | 21  | 250.00 Each                    |
|                         | RVS-1/RVS-2  | Front, Ctrl. Ch. Vented Dipole                          | (2)5 1/4                            |                           |               | 1                        | Dome            |  | 45-23 ±3                                    | 86                            | 50   | 2k                        | 4/                                 | 8 x 19 x 12                          | Blk. Gloss   | Blk.                                     | 18  | 350.00 Each                    |
|                         | RVSS   | Vented  | (2)5 1/4                            |                           |               | (2)3/4                   | Domes           |  | 65-18 ±3                                    | 86                            | 15   | 2.5k                      | 6/4                                | 11 x 10 x 9                          | Opt. Gray  | Opt. Blk.                                | 15  | 550.00 Pair                    |
|                         | Veritas V2.8   | Vented  | (2)8                                | 3                         | Hybrid Dome   | 1                        | Hybrid Dome     |  | 29-30 ±3                                    | 85                            | 100  | 350,2.2k                  | 6/4                                | 6 x 19 x 8                           | Opt. Gray  | Opt. Blk.                                | 120   | 6000.00 Pair                   |
|                         | Veritas V1.8   | Vented  | 8                                   | 3                         | Hybrid Dome   | 1                        | Hybrid Dome     |  | 30-30                                       | 87                            | 75   | 400,2.2k                  | 6/4                                | 45 x 12 x 15                         | Gloss Gray   | Blk.                                     | 115   | 3350.00 Pair                   |
|                         | 22.3   | Vented  | (2)6 1/2                            |                           |               | 3/4                      | Dome            |  | 30-23                                       | 87.5                          | 50   | 1.9k                      | 6/4                                | 40 x 10 x 16                         | Wood Opt.,   | Blk.                                     | 67  | 2000.00 Pair                   |
|                         | 22.2   | Vented  | 7                                   |                           |               | 3/4                      | Dome            |  | 32-23 ±3                                    | 86                            | 50   | 1.9k                      | 6/4                                | 27 x 10 x 12                         | Wood Opt.,   | Blk.                                     | 45  | 1400.00 Pair                   |
|                         | 22.1   | Vented  | 6 1/2                               |                           |               | 3/4                      | Dome            |  | 40-23 ±3                                    | 85                            | 50   | 1.9k                      | 6/4                                | 16 x 10 x 12                         | Wood Opt.,   | Blk.                                     | 27  | 1000.00 Pair                   |
|                         | 5.1e   | Vented  | (2)7                                |                           |               | 1                        | Dome            |  | 35-20 ±3                                    | 89                            | 40   | 2.1k                      | 6/4                                | 33 x 10 x 16                         | Opt. Blk.  | Blk.                                     | 55  | 1000.00 Pair                   |
|                         | 4.1e   | Vented  | 7                                   |                           |               | 1                        | Dome            |  | 35-20 ±3                                    | 87                            | 40   | 2.1k                      | 6/4                                | 24 x 10 x 12                         | Opt. Blk.  | Blk.                                     | 36  | 750.00 Pair                    |
|                         | 3.1e   | Vented  | 8                                   |                           |               | 3/4                      | Dome            |  | 40-20 ±3                                    | 87                            | 30   | 2.3k                      | 6/4                                | 19 x 10 x 10                         | Opt. Blk.  | Blk.                                     | 22  | 450.00 Pair                    |
|                         | 2.1e   | Vented  | 6 1/2                               |                           |               | 3/4                      | Dome            |  | 45-20 ±3                                    | 86                            | 30   | 2.3k                      | 6/4                                | 16 x 10 x 10                         | Opt. Blk.  | Blk.                                     | 18  | 300.00 Pair                    |
| Excel                   | Bass Ref.  | 5 1/4   |                                     |                           | 1/2           | Dome                     |                 | 60-20 ±3   | 86  | 30                            | 3.5k   | 6/4                       | 11 x 8 x 10                        | Opt. Opt.                            | Opt. Opt.  | 17                                       | 150.00 Pair                                       |                                |
| Encore                  | Bass Ref.  | 6 1/2   |                                     |                           | 1/2           | Dome                     |                 | 48-20 ±3   | 87.5  | 30                            | 2.5k   | 6/4                       | 13 x 8 x 10                        | Opt. Opt.                            | Opt. Opt.  | 22                                       | 200.00 Pair                                       |                                |
| EAS6.5                  | In-Wall  | 6 1/2   |                                     |                           | 1             | Dome                     |                 | 45-22  | 87  | 5                             | 2k   | 8/                        | 9 x 13 x 3                         | Wht. Blk.                            | Wht. Mtl.  |  | 400.00 Pair                                       |                                |
| EAS5.25                 | In-Wall  | 5 1/4   |                                     |                           | 1/2           | Dome                     |                 | 60-20  | 86  | 5                             | 3.5k   | 8/                        | 7 x 7 x 3                          | Wht. Blk.                            | Wht. Mtl.  |  | 250.00 Pair                                       |                                |
| AS-180                  | Powered Subwoof.   | 12  |                                     |                           |               |                          | W               | 25-150   | 180 Inc.                                    | 90 Inc.                       | Var.   |                           | 17 x 18 x 19                       | Blk. Ash                             | Blk.   |  | 750.00 Each                                       |                                |
| AS-90                   | Powered Subwoof.   | 12  |                                     |                           |               |                          | W               | 28-150   | 180 Inc.                                    | 90 Inc.                       | Var.   |                           | 17 x 16 x 17                       | Blk. Ash                             | Blk.   |  | 550.00 Each                                       |                                |
| ENSEMBLE                | Profundo   | Tuned Port, Subwoof.                                    | 7                                   |                           |               |                          |                 | W  | 35-250 ±3                                   | 89                            | 30   | 200                       | 4/4                                | 26 x 12 x 9                          | Satin Blk.   | Blk.                                     | 33  | 4580.00 Pair                   |
|                         | Tango  | Bass Ref.   | 5 1/4                               |                           |               | 3/4                      | Dome            |  | 80-20 ±3                                    | 88                            | 25   |                           | 4/2.5                              | 13 x 9 x 5                           | Satin Blk.   | Blk.                                     | 14  | Bi-wire, 2580.00 Pair          |
|                         | PA-1 Silver  | Pas. Rad.   | 5 1/4                               |                           |               | 3/4                      | Dome            |  | 60-20 ±2.5                                  | 89                            | 25   | 2.5k                      | 6/3.4                              | 14 x 9 x 8                           | Opt.   | Blk.                                     | 15  | 3250.00 Pair; Bi-wire, 3400.00 |
|                         | Reference Silver   | Pas. Rad.   | 5 1/4                               |                           |               | 3/4                      | Dome            |  | 60-20 ±2                                    | 90                            | 25   | 2.5k                      | 4/3.2                              | 14 x 9 x 8                           | Opt.   | Blk.                                     | 17  | 5150.00 Pair; Bi-wire, 5300.00 |
|                         | Reference Gold Prima Donna Gold  | Pas. Rad. Dual Vented                                   | 5 1/4 5 1/4                         |                           |               | 3/4 3/4                  | Dome Dome       |  | 60-20 ±2 40-20 ±3                           | 89 89                         | 25 25  | 2.6k 2.4k                 | 4/3.8 4/                           | 14 x 9 x 8 45 x 14 x 12              | Opt. Satin Blk.  | Blk. Blk.                                | 19 82   | 6980.00 Pair 11,900.00 Pair    |
| ENTEC<br>(Continued)    | L2f-20T  | A/V, Powered Subwoof.                                   | (2)10                               |                           |               |                          |                 | W  | 18-180                                      |                               | Inc.   | Adj.                      | 50                                 | 36 x 12 x 18                         | Gloss Blk.   | Charc. Foam                              | 60  | 2295.00 Each                   |
|                         | L2f-20   | Powered Subwoof.  | (2)10                               |                           |               |                          |                 | W  | 18-180                                      |                               | Inc.   | Adj.                      | 50                                 | 24 x 12 x 24                         | Gloss Blk.   | Charc. Foam                              | 60  | 4195.00 Pair w/Xover           |

# LOUDSPEAKERS

| MANUFACTURER              | Model                          | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Superwoofer=ST | Analogic F. Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish            | Grille Color and Material | Weight, Lbs. Each       | Price, \$                 |
|---------------------------|--------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-------------------|---------------------------|-------------------------|---------------------------|
| ENTEC (Continued)         | L2f-40                         | Powered Subwoofer.                                      | (2)10                   |                           |               |                          |              | W  | 12-180   |                         | Inc.   | Adj.                      | 50                               | Four Pieces                          | Gloss Bk.         | Charc. Foam               | 240 Sys.                | 6995.00 Sys.              |
|                           | L2f-120                        | Powered Subwoofer.                                      | (2)10                   |                           |               |                          |              | W  | 12-180   |                         | Inc.   | Adj.                      | 50                               | Twelve Pieces                        | Gloss Bk.         | Charc. Foam               | 720 Sys.                | 25,000. Sys.              |
|                           | 1001                           | Powered Subwoofer.                                      | 10                      |                           |               |                          |              | W  | 18-180   |                         | Inc.   | Adj.                      | 50                               | 18 x 12 x 24                         | Gloss Bk.         | Charc. Foam               | 50 Sys.                 | 1495.00 Each              |
|                           | 1002                           | Powered Subwoofer.                                      | (2)10                   |                           |               |                          |              | W  | 18-180   |                         | Inc.   | Adj.                      | 50                               | 24 x 12 x 24                         | Gloss Bk.         | Charc. Foam               | 60 Sys.                 | 1895.00 Each              |
|                           | 90                             | Dynamic   | 6                       |                           | 1             | Dome                     |              |  | 80-20  | 100                     |  |                           | 8/                               | 40 x 8 x 8                           | Gloss Bk.         | Blk. Mtl.                 | 35                      | 4195.00 Pair              |
| EPIK MONITOR SYSTEMS      | Ultima X                       | Trans. Line   | 7                       | 4                         | Inv. Dome     | 1                        | Inv. Dome    |  | 34-27 ±3                                       | 88                      | 50   | 1.8k                      | 6/4                              | 14 x 15 x 43                         | Opt., Chery Opt.  | Blk. Knit                 | 110                     | 5450.00 Pair              |
|                           | Ultima Y                       | Trans. Line   | 8                       |                           | Inv. Dome     | ¾                        | Inv. Dome    |  | 28-27 ±3                                       | 86                      | 50   | 800,4.8k                  | 6/4                              | 16 x 18 x 52                         | Opt., Chery Opt.  | Blk. Knit                 | 135                     | 8800.00 Pair              |
|                           | Ultima XW                      | Trans. Line Subwoofer.                                  | 8                       |                           |               |                          |              |  | 28-100+0,-3                                    | 88                      | 50   |                           | 6/4                              | 14 x 15 x 48                         | Opt., Chery Opt.  | Blk. Knit                 | 125                     | 4500.00 Pair              |
|                           | Ultima YW                      | Trans. Line Subwoofer.                                  | (2)8                    |                           |               |                          |              |  | 22-100+0,-3                                    | 91                      | 50   |                           | 4/3                              | 15 x 23 x 60                         | Opt., Chery Opt.  | Blk. Knit                 | 155                     | 6000.00 Pair              |
| EPOS                      | ES11                           | Inf. Baf.   | 6½                      |                           |               | 1                        | Dome         | No   | 60-20  | 87                      | 30   |                           | 8/7                              | 15 x 8 x 10                          | Opt., Wood Opt.   | Blk. Foam                 | 20                      | 895.00 Pair               |
|                           | ES14                           | Inf. Baf.   | 8                       |                           |               | 1                        | Dome         | No   | 50-20  | 87                      | 35   |                           | 8/7                              | 19 x 9 x 11                          | Opt., Wood Opt.   | Blk. Foam                 | 30                      | 1395.00 Pair              |
|                           | ES25                           | Inf. Baf.   | 8                       | 6½                        | Cone          | 1                        | Dome         | No   | 25-22  | 88                      | 50   |                           | 6/6                              | 35 x 9 x 13                          | Opt., Wood Opt.   | Blk. Foam                 | 60                      | 2995.00 Pair              |
| ESOTERIC SPEAKER PRODUCTS | Concert Grands                 | Inf. Baf.   | (2)8                    | (2)¼                      | Cones         | (2)1                     | Domes        | No   | 25-20 ±3                                       | 96                      |  | 250,2.5k                  | 4/3                              | 62 x 15 x 20                         | Opt., Wood Opt.   | Blk. Knit                 | 250                     | 8900.00 Pair              |
|                           | Harp                           | Inf. Baf.   | 10                      | (2)6                      | Cones         | (2)1                     | Domes        | No   | 35-20 ±3                                       | 94                      |  | 100,2.5k                  | 4/3                              | 51 x 13 x 17                         | Opt., Wood Opt.   | Blk. Knit                 | 150                     | 5500.00 Pair              |
| ESSENCE                   | Gem                            | Trans. Line   | 6½                      |                           |               | 1                        | Dome         |  | 38-21 ±3                                       | 89                      | 20   | 2k                        | 4/3.6                            | 20 x 10 x 13                         | Opt., Wood Fabr.  | Opt., Knit                | 34                      | 1495.00 Pair              |
|                           | Beryl                          | Trans. Line   | 6½                      |                           |               | 1                        | Dome         |  | 38-22 ±2                                       | 89                      | 25   | 2k                        | 4/3.6                            | 40 x 10 x 14                         | Opt., Wood Fabr.  | Blk. Knit                 | 70                      | 1985.00 Pair              |
|                           | Super Gem                      | Trans. Line   | 6½                      |                           |               | 1                        | Dome         |  | 34-21 ±2                                       | 89                      | 30   | 2k                        | 4/3.6                            | 23 x 10 x 15                         | Opt., Wood Fabr.  | Opt., Knit                | 52                      | 2450.00 Pair              |
|                           | Reference Super Gem Topaz 6    | Trans. Line   | 6½                      |                           |               | 1                        | Dome         |  |  | 89                      | 30   | 2k                        | 4/3.6                            | 23 x 10 x 15                         | Opt., Wood Fabr.  | Opt., Knit                | 54                      | 4975.00 Pair              |
|                           | Amethyst 10A                   | Trans. Line   | 8                       | 5                         | Cone          | 1,¾                      | Domes        |  | 28-22 ±2                                       | 89                      | 40   | 350,2k, 6.5k              | 8/6.6                            | 52 x 13 x 15                         | Opt., Wood Fabr.  | Blk. Knit                 | 150                     | 4850.00 Pair              |
|                           | Reference Subwoofer            | Trans. Line Subwoofer.                                  | (2)13                   | 6,1½                      | Cone, Dome    | 1,¾                      | Domes        |  | 24-23 ±3                                       | 89                      | 60   | 80,1k,2k, 6.5k (Adj.)     | 8/6                              | 51 x 15 x 25                         | Opt., Wood Opt.   | Opt., Knit                | 240                     | From 19,850. Pair         |
| EUGENEX                   | Tower                          | Reflex  | 12                      | 8                         | Cone          | 1x4                      | Ribbon       | M  | 28-22 ±2                                       | 94                      | 40   | 200,1.2k                  | 4/4                              | 17 x 42 x 15                         | Opt., Wood Opt.   | Blk. Knit                 | 120                     | 2500.00 Pair              |
|                           | Io Grande                      | THX; 2 Sats. & 2 Pwr. Subs. Powered 8-Ch. Monitor       | 12                      | 8                         | Cone          | 1x4                      | Ribbon       | W  | 25-22 ±2                                       | 97                      | 300 Inc.                                     | 100,1.2k                  | 4/4                              | Four Pieces                          | Opt.              | Blk. Knit                 | 300 Sys.                | 3900.00 Sys.              |
|                           | Octophon (with remote control) |   | 18                      | 10                        | Cone          | 1x4                      | Ribbon       | W  | 20-22 ±2                                       | 97                      | 500 Inc.                                     | 120,1.2k                  | 4/4                              | Ten Pieces                           | Opt.              | Blk. Mesh                 | 760 Sys.                | 16,000. Sys.              |
| FIDELUS AUDIO             | 903 FL Contra Bass             | Slot-Loaded Port Subwoofer.                             | 9 12                    | 5                         | Cone          | 1¼                       | Dome         |  | 30-22 ±3 16-100 ±3                             | 88 90                   | 50 50  | 250,6.5k Ext.             | 8/5 8/4                          | 13 x 14 x 48 22 x 22 x 48            | Oil. Oak Oil. Oak | Opt. None                 | 80 185                  | 2295.00 Pair 1795.00 Each |
| FISHER                    | ST-58B                         | Bass Ref.   | 8                       |                           |               | 3                        | Cone         |  | 50-20  | 90                      |  | 6k                        | 8/                               | 10 x 17 x 10                         | Blk. Bk.          | Blk. Knit                 | 14                      | 74.95 Each                |
|                           | ST-56B                         | Bass Ref.   | 6½                      |                           |               | 3                        | Cone         |  | 60-20  | 88                      |  | 6k                        | 8/                               | 8 x 14 x 9                           | Blk. Bk.          | Blk. Knit                 | 10                      | 69.95 Each                |
|                           | ST-54B                         | Bass Ref.   | 4½                      |                           |               | 3                        | Cone         |  | 60-20  | 88                      |  | 6k                        | 8/                               | 7 x 12 x 9                           | Blk. Bk.          | Blk. Knit                 | 8                       | 59.95 Each                |
|                           | ST-515                         | Bass Ref.   | 15                      | 4                         | Cone          | ½                        |              |  | 40-20  | 91                      |  | 1.5k,6k                   | 8/                               | 18 x 36 x 13                         | Blk. Bk.          | Blk. Knit                 | 40                      | 149.95 Each               |
|                           | ST-512                         | Bass Ref.   | 12                      | 4                         | Cone          | ½                        |              |  | 45-20  | 90                      |  | 1.5k,6k                   | 8/                               | 14 x 33 x 13                         | Blk. Bk.          | Blk. Knit                 | 27                      | 119.95 Each               |
|                           | ST-510                         | Bass Ref.   | 10                      | 4                         | Cone          | ½                        |              |  | 45-20  | 90                      |  | 1.5k,6k                   | 8/                               | 12 x 28 x 11                         | Blk. Bk.          | Blk. Knit                 | 20                      | 74.95 Each                |
|                           | FOCUS AUDIO                    | Reference FR10  | Bass Ref.               | 5                         |               |                          | 1            | Dome   |  | 60-20 ±2                | 84   | 50                        | 3.5k                             | 8/                                   | 13 x 7 x 10       | Rswd. Bk.                 | Blk. Knit               | 20                        |
| Reference FR30            | Bass Ref.                      | 5   |                         |                           | 1             | Dome                     |              | 55-20 ±2   | 86   | 50                      | 2.7k   | 8/                        | 18 x 9 x 11                      | Rswd. Bk.                            | Blk. Knit         | 26                        | 1055.00 Pair            |                           |
| Reference FR50            | Bass Ref.                      | (2)6½   |                         |                           | 1             | Dome                     |              | 50-20 ±2   | 89   | 50                      | 2k   | 8/                        | 40 x 9 x 10                      | Rswd. Bk.                            | Blk. Knit         | 52                        | 1670.00 Pair            |                           |
| Reference FR70            | Bass Ref.                      | 8   |                         |                           | 1             | Dome                     |              | 45-20 ±2   | 88   | 50                      | 2k   | 8/                        | 40 x 10 x 11                     | Rswd. Bk.                            | Blk. Knit         | 58                        | 1590.00 Pair            |                           |
| Reference FR80            | Bass Ref.                      | (2)8  |                         |                           | 1             | Dome                     |              | 40-20 ±2   | 88   | 50                      | 2k   | 8/                        | 40 x 10 x 11                     | Rswd. Bk.                            | Blk. Knit         | 62                        | 1830.00 Pair            |                           |
| Reference FR90            | Bass Ref.                      | 10  | 4½                      | Cone                      | 1             | Dome                     |              | 40-20 ±2   | 89   | 50                      | 450,2.7k                                     | 8/                        | 44 x 12 x 11                     | Rswd. Bk.                            | Blk. Knit         | 70                        | 2035.00 Pair            |                           |
| Signature FS11            | Bass Ref.                      | 5   |                         |                           | 1             | Dome                     |              | 60-20 ±2   | 84   | 50                      | 3k   | 8/                        | 13 x 7 x 10                      | Rswd. Bk.                            | Blk. Knit         | 20                        | 1590.00 Pair            |                           |
| Signature FS33            | Bass Ref.                      | 7   |                         |                           | 1             | Dome                     |              | 55-20 ±2   | 86   | 50                      | 3k   | 8/                        | 18 x 10 x 10                     | Rswd. Bk.                            | Blk. Knit         | 30                        | 2225.00 Pair            |                           |
| Signature FS77            | Bass Ref.                      | 9   |                         |                           | 1             | Dome                     |              | 45-20 ±2   | 89   | 50                      | 2k   | 8/                        | 42 x 11 x 12                     | Rswd. Bk.                            | Blk. Knit         | 85                        | 3335.00 Pair            |                           |
| FOSGATE-AUDIOMICS         | MC110                          | Sat. THX; Inf. Baf. THX;                                | 5                       |                           |               | 1                        | Dome         |  | 85-23 ±3                                       | 88                      | 25   | 3k                        | 8/6                              | 11 x 8 x 6                           | Blk. Bk.          | Blk. Knit                 | 15                      | 899.00 Pair               |
|                           | MC220 THX                      |   | (2)6½                   |                           |               | (2)1                     | Domes        |  | 60-23 ±2.5                                     | 91                      | 3k   | 8/6                       | 25 x 11 x 14                     | Blk. Bk.                             | Blk. Knit         | 35                        | 1599.00 Each            |                           |
|                           | CPS200 THX                     | Powered Subwoofer.                                      | 12                      |                           |               |                          |              |  | 30-100 ±3                                      | 91                      | Inc.   |                           | 8/6                              |                                      | Blk. Bk.          | Blk. Knit                 | 55                      | 1299.00 Each              |
|                           | CSS200 THX                     | THX, Subwoofer.   | 14                      |                           |               |                          |              |  | 30-100 ±3                                      | 91                      |  |                           | 8/6                              |                                      | Blk. Bk.          | Blk. Knit                 | 48                      | 599.00 Each               |
|                           | FS400 THX                      | THX, Subwoofer.   | (2)5                    |                           |               | (2)1                     | Domes        |  | 26-100 ±3                                      | 91                      |  | 3k                        | 8/4                              | 11 x 14 x 6                          | Blk. Opt.         | Blk. Opt.                 | 85 15                   | 999.00 Each 699.00 Pair   |
|                           | SD90 THX                       | THX Surround; Dipole                                    | (2)5½                   |                           |               | (2)1                     | Domes        |  | 100-20 ±3                                      | 91                      | 20   |                           |                                  |                                      | Blk. Opt.         | Blk. Knit                 | 35                      | 1850.00 Pair              |
| AS502                     | In-Wall                        | 5   |                         |                           | 1             | Dome                     |              | 65-22 ±4   | 88   | 10                      | 3k   | 8/5                       | 11 x 8 x 3                       | Wht. Wht.                            | Wht. Wht.         | 9 12                      | 229.00 Pair 299.00 Pair |                           |
| AS602                     | In-Wall                        | 6   |                         |                           | 1             | Dome                     |              | 50-22 ±3   | 88   | 10                      | 3k   | 8/5                       | 12 x 9 x 4                       | Wht. Wht.                            | Wht. Wht.         | 12 18                     | 299.00 Pair 349.00 Pair |                           |
| AS820                     | In-Wall                        | 8   |                         |                           | 1             | Dome                     |              | 40-25 ±4   | 88   | 10                      | 2.5k   | 8/5                       | 15 x 11 x 3                      | Wht. Wht.                            | Wht. Wht.         | 18                        | 349.00 Pair             |                           |
| FRIED PRODUCTS            | Beta V                         | Distrib. Loading  | 6½                      |                           |               | 1                        | Dome         |  | 60-20 ±3                                       | 89                      | 20   | 3.5k                      | 8/6                              | 14 x 8 x 8                           | Opt.              | Blk. Cloth                | 15                      | 399.00 Pair               |
|                           | Q/5                            | Line Tun.   | 8                       |                           |               | 1                        | Dome         |  | 37-20 ±3                                       | 89                      | 25   | 2.5k                      | 8/5                              | 20 x 11 x 9                          | Opt.              | Blk. Cloth                | 24                      | 599.00 Pair               |
|                           | A/5                            | Line Tun.   | 8                       |                           |               | 1                        | Dome         |  | 32-20 ±3                                       | 89                      | 25   | 2.5k                      | 8/6                              | 34 x 10 x 12                         | Opt.              | Blk. Cloth                | 52                      | 825.00 Pair               |
|                           | R/5                            | Trans. Line & Line Tun.                                 | 10                      | 5½                        | Cone          | 1                        | Dome         |  | 30-20 ±3                                       | 89                      | 25   | 300,3k                    | 8/5                              | 34 x 12 x 12                         | Opt., Wood Opt.   | Blk. Cloth                | 61                      | 1495.00 Pair              |
|                           | Studio V (w/Image Enhancement) | Dual Trans. Line  | 8                       | 6½                        | Cone          | ¾                        | Dome         |  | 26-22 ±2                                       | 90                      | 25   | 200,2.7k                  | 8/6                              | 39 x 12 x 18                         | Opt.              | Blk. Cloth                | 90                      | 3595.00 Pair              |
|                           | C/5 (w/Image Enhancement)      | Trans. Line   | 6½                      |                           |               | ¾                        | Dome         |  | 60-22 ±3                                       | 90                      | 25   | 2.7k                      | 8/6.3                            | 14 x 11 x 16                         | Opt.              | Blk. Cloth                | 20                      | 2495.00 Pair              |

# WEST LEFT



NBS1

PRECISION AUDIO (805) 523-3005  
5140-C COMMERCE AVENUE MOORPARK, CA 93021

# EAST RIGHT



NBS1

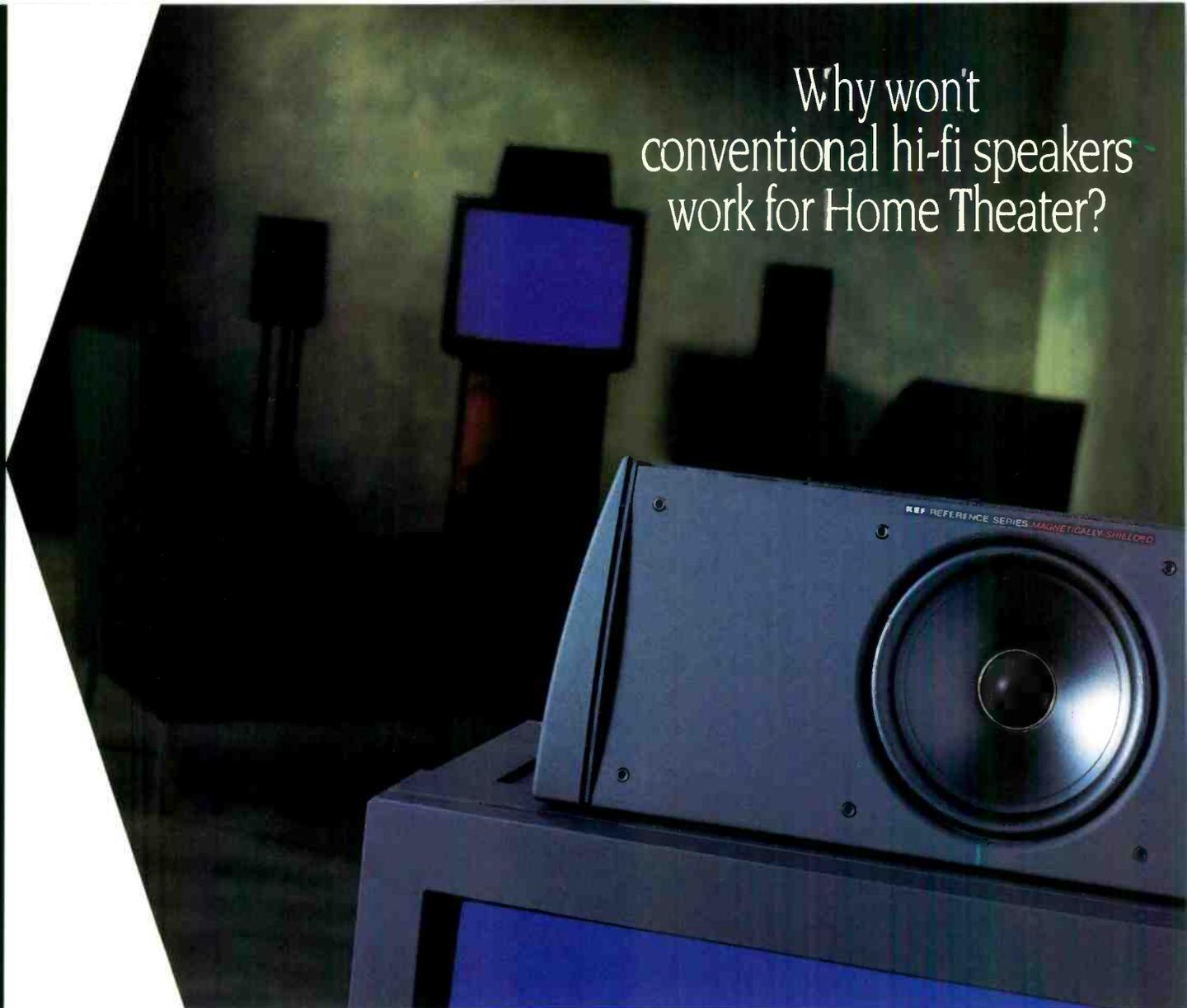
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# LOUDSPEAKERS

| MANUFACTURER               | Model                                 | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W, Midrange-M, Tweeter-T, Super Tweeter-ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish                  | Grille Color and Material | Weight, Lbs. Each | Price, \$             |                  |
|----------------------------|---------------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-------------------------|---------------------------|-------------------|-----------------------|------------------|
| FRIED PRODUCTS (Continued) | D/2 (w/Image Enhancement)             | Trans. Line Subwoof.                                    | 8                       |                           |               |                          |              |  | 25-99 ±3                                    | 90                      | 25   | 100                       | 8/6.3                            | 36 x 11 x 16                         | Opt.                    | Bk. Cloth                 | 80                | 2995.00 Pair          |                  |
|                            | Valhalla System (w/Image Enhancement) | Trans. Line; 2 Sats. & 2 Subs.                          | 8                       | 6½                        | Cone          | ¾                        | Dome         |  | 25-22 ±3                                    | 90                      | 25   | 100, 2.7k                 | 8/6.3                            | Four Pieces                          | Opt.                    | Bk. Cloth                 | 200 Sys.          | 5490.00 Sys.          |                  |
| GC ELECTRONICS             | 30-3500                               | In-Wall   | 5¼                      |                           |               | 1                        | Dome         |  | 50-20 ±3                                    | 90                      | 20   | 2.5k                      | 8/                               | 8 x 11 x 3                           | Wht. Plast.             | Wht. Mtl.                 |                   | 150.00 Pair           |                  |
|                            | 30-3506                               | In-Wall   | 6½                      |                           |               | 1                        | Dome         |  | 45-20 ±3                                    | 90                      | 20   | 2.5k                      | 8/                               | 12 x 9 x 3                           | Wht. Plast.             | Wht. Mtl.                 |                   | 189.00 Pair           |                  |
|                            | 30-3508                               | In-Wall   | 8                       |                           |               | 1                        | Dome         |  | 40-20 ±3                                    | 90                      | 20   | 3k                        | 8/                               | 14 x 10 x 4                          | Wht. Plast.             | Wht. Mtl.                 |                   | 249.00 Pair           |                  |
|                            | 30-3510                               | Ac. Sus.  | 5                       |                           |               | ½                        | Horn         |  | 50-20 ±3                                    | 89                      | 20   |                           | 4/                               | 9 x 7 x 5                            | Wht. Plast.             | Bk. Mtl.                  |                   | 189.00 Pair           |                  |
|                            | 30-3526                               | In-Wall   | 6½                      |                           |               | ¾                        | Dome         |  | 65-20 ±3                                    | 92                      | 20   |                           | 8/                               | 8 x 8 x 3                            | Wht. Plast.             | Wht. Mtl.                 |                   | 129.00 Pair           |                  |
| GEMINI SOUND PRODUCTS      | MB-200                                |   |                         |                           |               | 3                        | Piezo        |  | 4k-30k                                      |                         |  |                           |                                  | 19 x 9 x 5                           | Cptg.                   |                           | 9                 | 99.00 Each            |                  |
|                            | MB-250                                |   |                         |                           |               | 3                        | Piezo        |  | 3k-30k                                      |                         |  |                           |                                  | 19 x 9 x 5                           | Cptg.                   |                           | 10                | 114.00 Each           |                  |
|                            | MB-350                                |   | 10                      | 4x10                      | Horn          | 3                        | Horn         |  | 32-18                                       |                         |  |                           | 8/                               | 21 x 10 x 15                         | Cptg.                   |                           | 25                | 179.00 Each           |                  |
|                            | MB-357                                |   | 10                      | 2x5                       | Horn          | 3                        | Horn         |  | 36-18                                       |                         |  |                           | 8/                               | 21 x 10 x 15                         | Cptg.                   |                           | 25                | 169.00 Each           |                  |
|                            | MB-360                                |   | 12                      |                           |               | 3                        | Horn         |  | 40-16                                       |                         |  |                           | 8/                               | 25 x 16 x 12                         | Cptg.                   |                           | 32                | 189.00 Each           |                  |
|                            | MB-361                                |   | 12                      | 2x5                       | Horn          | 3                        | Horn         |  | 40-16                                       |                         |  |                           | 8/                               | 25 x 16 x 12                         | Cptg.                   |                           | 32                | 179.00 Each           |                  |
|                            | MB-363                                |   | 12                      |                           |               | 3                        | Piezo        |  | 40-16                                       |                         |  |                           | 8/                               | 25 x 16 x 12                         | Cptg.                   |                           | 32                | 189.00 Each           |                  |
|                            | MB-365                                |   | 12                      | 4x10                      | Horn          | 3                        | Piezo        |  | 40-16                                       |                         |  |                           | 8/                               | 25 x 16 x 12                         | Cptg.                   |                           | 37                | 219.00 Each           |                  |
|                            | MB-410                                |   | 15                      |                           |               | 3                        | Piezo        |  | 40-15                                       |                         |  |                           | 8/                               | 29 x 19 x 14                         | Cptg.                   |                           | 53                | 229.00 Each           |                  |
|                            | MB-415                                |   | 15                      | 4x10                      | Horn          | 3                        | Piezo        |  | 40-15                                       |                         |  |                           | 8/                               | 29 x 19 x 14                         | Cptg.                   |                           | 53                | 259.00 Each           |                  |
|                            | MB-425                                |   | 15                      | 15x7                      | Horn          | 3                        | Piezo        |  | 40-15                                       |                         |  |                           | 8/                               | 29 x 19 x 14                         | Cptg.                   |                           | 56                | 319.00 Each           |                  |
|                            | MB-475                                |   | 15                      | 4x10                      | Horn          | 3                        | Piezo        |  | 40-15                                       |                         |  |                           | 8/                               | 33 x 24 x 16                         | Cptg.                   |                           | 74                | 339.00 Each           |                  |
|                            | MB-550                                |   | (2)15                   | 4x10                      | Horn          | 3                        | Piezo        |  | 30-16                                       |                         |  |                           | 8/                               | 44 x 24 x 16                         | Cptg.                   |                           | 96                | 429.00 Each           |                  |
|                            | MB-565                                |   | (2)15                   | 15x7                      | Horn          | 3                        | Piezo        |  | 30-16                                       |                         |  |                           | 8/                               | 44 x 24 x 16                         | Cptg.                   |                           | 99                | 509.00 Each           |                  |
| MB-618                     |                                       | 18  | 4x10                    | Horn                      | 3             | Piezo                    |              | 30-16  |   |                         |  | 8/                        | 33 x 24 x 16                     | Cptg.                                |                         | 61                        | 459.00 Each       |                       |                  |
| GENELEC                    | 1030A                                 | Home Th.; Active Bal. Ref. (ABR)                        | 6½                      |                           |               | ¾                        | Dome         |  | 52-20 ±2                                    |                         |  |                           |                                  | 12 x 8 x 10                          | Bk. Text.               |                           | 15                | 2198.00 Pair          |                  |
|                            | 1031A                                 | Home Th.; ABR   | 8                       |                           |               | 1                        | Dome         |  | 48-22 ±2                                    |                         |  | 2.2k                      |                                  | 15 x 10 x 11                         | Opt., Bk.               | Bk.                       | 26                | 3998.00 Pair          |                  |
|                            | 1032A                                 | Home Th.; ABR   | 10                      |                           |               | 1                        | Dome         |  | 42-21 ±2.5                                  |                         |  | 1.8k                      |                                  | 20 x 13 x 11                         | Bk. Birch Ven.          | Bk.                       | 44                | 4998.00 Pair          |                  |
|                            | 1033A                                 | Home Th.; Powered ABR                                   | (2)10                   | 4                         | Cone          | 1                        | Dome         |  | 37-22 ±3                                    |                         | Inc.   | 410, 3.5k                 |                                  | 22 x 28 x 18                         | Bk. Birch Ven.          | Bk.                       | 130               | 30,000. Pair w/Amp    |                  |
|                            | 1034A                                 | Home Th.; Powered ABR                                   | (2)12                   | 4                         | Cone          | 1                        | Dome         |  | 35-22 ±3                                    |                         | Inc.   | 400, 3.5k                 |                                  | 27 x 36 x 32                         | Bk. Birch Ven.          | Bk.                       | 396               | 46,000. Pair w/Amp    |                  |
|                            | 1035B                                 | Home Th.; Powered ABR                                   | (2)15                   | (2)4                      | Cones         | 1                        | Dome         |  | 30-22 ±3                                    |                         | Inc.   | 400, 3.5k                 |                                  | 44 x 32 x 31                         | Bk. Birch Ven.          | Bk.                       | 555               | 72,000. Pair w/2 Amps |                  |
|                            | 1037A                                 | Home Th.; ABR   | 12                      | 4                         | Cone          | 1                        | Dome         |  | 39-21 ±2.5                                  |                         |  | 420, 3.2k                 |                                  | 27 x 16 x 15                         | Bk. Birch Ven.          | Bk.                       | 77                | 9398.00 Pair          |                  |
| 1038A                      | Home Th.; ABR                         | 15  | 4                       | Cone                      | 1             | Dome                     |              | 35-20 ±2.5   |   |                         | 410, 3k                                      |                           | 31 x 19 x 17                     | Bk. Birch Ven.                       | Bk.                     | 130                       | 13,998. Pair      |                       |                  |
| GENESIS TECHNOLOGIES       | Genesis I                             | Line Source Dipole & Powered Servo Subwoof.             | (6)12                   | 60                        | Ribbon        | (26)1                    | Ribbons      | W,M,T  | 16-31 ±2                                    | 91                      | 100; 4k Inc.                                 | 85, 4.2k                  | 4/3                              | Four Pieces                          | Rswd.                   | Bk.                       | 2400 Sys.         | 70,000. Sys. w/Amp    |                  |
|                            | Genesis II                            | Line Source Dipole & Powered Servo Subwoof.             | (4)12                   | 48                        | Ribbon        | (15)1                    | Ribbons      | W,M,T  | 16-31 ±3                                    | 90                      | 100; 1k Inc.                                 | 85, 4.6k                  | 4/3                              | Four Pieces                          | Rswd.                   | Bk.                       | 1000 Sys.         | 30,000. Sys. w/Amp    |                  |
|                            | Genesis II.5                          | Line Source Dipole & Powered Servo Subwoof.             | (2)12                   | 48                        | Ribbon        | (4)1                     | Ribbons      | W,M,T  | 16-31 ±3.5                                  | 90                      | 100; 700 Inc.                                | 85, 5.2k                  | 4/3                              |                                      | Rswd.                   | Bk.                       | 300               | 20,000. Pair w/Amp    |                  |
| GEODE                      | Pulse Epic                            | Bass Ref. Bass Ref.                                     | 6½                      | 8                         |               | 1                        | Dome         | No   | 47-20 ±3.5                                  | 92                      | 7.5  | 3.2k                      | 6/5                              | 16 x 10 x 8                          | Opt.                    | Bk. Bk.                   | 19                | 349.00 Pair           |                  |
|                            |                                       |   | 8                       |                           |               | 1                        | Dome         | No   | 40-20 ±3.5                                  | 90                      | 7.5  | 3k                        | 6/5                              | 19 x 12 x 10                         | Opt.                    | Bk. Bk.                   | 27                | 499.00 Pair           |                  |
| GERTNER AUDIO              | CEL 3096                              | Angled Port   | 12                      | 10                        | Cone          | 1½                       | Dome         |  | 24-20 ±5                                    | 96                      | 5  | 450, 2k                   | 8/8                              | 16 x 16 x 46                         | Opt.                    | Bk. Knit                  | 112               | 4250.00 Pair          |                  |
|                            | CEL 1596                              | Angled Port   | 10                      |                           |               | 1½                       | Dome         |  | 30-20 ±5                                    | 96                      | 5  | 2k                        | 8/8                              | 14 x 14 x 32                         | Opt.                    | Bk. Knit                  | 62                | 2150.00 Pair          |                  |
|                            | CEL 1091                              | Angled Port   | 8                       |                           |               | 1½                       | Dome         |  | 35-20 ±5                                    | 96                      | 5  | 2k                        | 8/8                              | 13 x 12 x 24                         | Opt.                    | Bk. Knit                  | 40                | 1395.00 Pair          |                  |
| GILLUM                     | g2R                                   | Pas. Rad.   | 8                       |                           |               | 1¼                       | Horn         |  | 38-20 ±3                                    | 92                      |  | 2.8k                      | 4/4                              | 35 x 9 x 12                          | Opt.                    | Opt.                      | 36                | 998.00 Pair           |                  |
|                            | g2P                                   | Inf. Bat.   | 8                       |                           |               | 1¼                       | Horn         |  | 58-20 ±3.5                                  | 91                      |  | 2.8k                      | 4/4                              | 14 x 10 x 10                         | Opt.                    | Opt.                      | 14                | 400.00 Pair           |                  |
|                            | g2M                                   | Inf. Bat.   | 8                       |                           |               | 1¼                       | Horn         |  | 55-20 ±3.5                                  | 91                      |  | 2.8k                      | 4/4                              | 20 x 10 x 9                          | Opt.                    | Opt.                      | 26                | 450.00 Pair           |                  |
|                            | g3                                    | Inf. Bat.   | 12                      | 2                         | Horn          | 1                        | Horn         |  | 50-17 ±4                                    | 97                      |  | 750, 6.5k                 | 8/9                              | 24 x 14 x 13                         | Wood Opt., Wood Bk. Ash | Opt.                      | Opt.              | 55                    | 1100.00 Pair     |
|                            | gC                                    | Inf. Bat.   | 6                       |                           |               | 1¼                       | Horn         |  | 60-20 ±3                                    | 89                      |  | 3.2k                      | 4/4                              | 14 x 9 x 7                           | Wood Bk. Ash            | Bk. Knit                  | 13                | 300.00 Pair           |                  |
| GOLD SOUND                 | Kit #.2AV                             | A/V   | 5¼                      |                           |               | ¾                        | Dome         |  | 49-20 ±3                                    | 88                      | 5  | 3k                        | 4/ or 8/                         | 8 x 12 x 7                           | Opt.                    | Bk. Knit                  | 12                | Kit, 129.00 Pair      |                  |
|                            | Kit #.2AVI                            | A/V; In-Wall  | 5¼                      |                           |               | ¾                        | Dome         |  | 49-20 ±3                                    | 88                      | 5  | 3k                        | 4/ or 8/                         | 16 x 12 x 4                          | Opt.                    | Wht. Knit                 | 16                | Kit, 129.00 Pair      |                  |
|                            | Kit #.6AV                             | A/V   | 6½                      |                           |               | 1                        | Dome         |  | 44-20 ±3                                    | 89                      | 5  | 3k                        | 4/ or 8/                         | 10 x 16 x 7                          | Opt.                    | Bk. Knit                  | 23                | Kit, 169.00 Pair      |                  |
|                            | Kit #.6AVI                            | A/V; In-Wall  | 6½                      |                           |               | 1                        | Dome         |  | 44-20 ±3                                    | 89                      | 5  | 3k                        | 4/ or 8/                         | 16 x 20 x 4                          | Opt.                    | Wht. Knit                 | 28                | Kit, 169.00 Pair      |                  |
|                            | Kit #.9AV                             | A/V; Symm. Array  | (2)5¼                   |                           |               | 1                        | Dome         |  | 41-20 ±3                                    | 92                      | 5  | 3k                        | 4/ or 8/                         | 10 x 16 x 7                          | Opt.                    | Bk. Knit                  | 26                | Kit, 239.00 Pair      |                  |
|                            | Kit #.9AVI                            | A/V; In-Wall  | (2)5¼                   |                           |               | 1                        | Dome         |  | 41-20 ±3                                    | 92                      | 5  | 3k                        | 4/ or 8/                         | 16 x 20 x 4                          | Opt.                    | Wht. Knit                 | 31                | Kit, 239.00 Pair      |                  |
|                            | Kit #BAV                              | A/V   | 6½                      |                           |               | 1                        | Dome         |  | 48-20                                       | 89                      | 5  | 3k                        | 4/ or 8/                         | 10 x 16 x 7                          | Opt.                    | Bk. Knit                  | 25                | Kit, 479.00 Pair      |                  |
|                            | Kit #BAVI                             | A/V; In-Wall  | 6½                      |                           |               | 1                        | Dome         |  | 48-20                                       | 89                      | 5  | 3k                        | 4/ or 8/                         | 16 x 20 x 4                          | Opt.                    | Wht. Knit                 | 31                | Kit, 479.00 Pair      |                  |
|                            | (Continued)                           | Kit #CAV  | A/V; Symm. Array        | (2)6½                     |               |                          | 1            | Dome   |   | 46-20                   | 92   | 5                         | 3k                               | 4/ or 8/                             | 10 x 16 x 7             | Opt.                      | Bk. Knit          | 30                    | Kit, 749.00 Pair |

Why won't  
conventional hi-fi speakers  
work for Home Theater?



UNI-Q DRIVER TECHNOLOGY  
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THE "SWEET SPOT."

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KEF's proprietary Uni-Q® driver, which places its tweeter at the center of the woofer, allowed KEF's engineers to create the ideal center channel speakers, the Models 100 and 90. Their uniform dispersion patterns let them be placed beautifully above or below the screen, creating the impression that the sound is coming *directly* from the screen. Moreover, the Models 100 and 90 are both Reference Series, which not only ensures their quality and consistency; it permits their use as satellites and their seamless integration with other KEF Reference and Q-Series loudspeakers.

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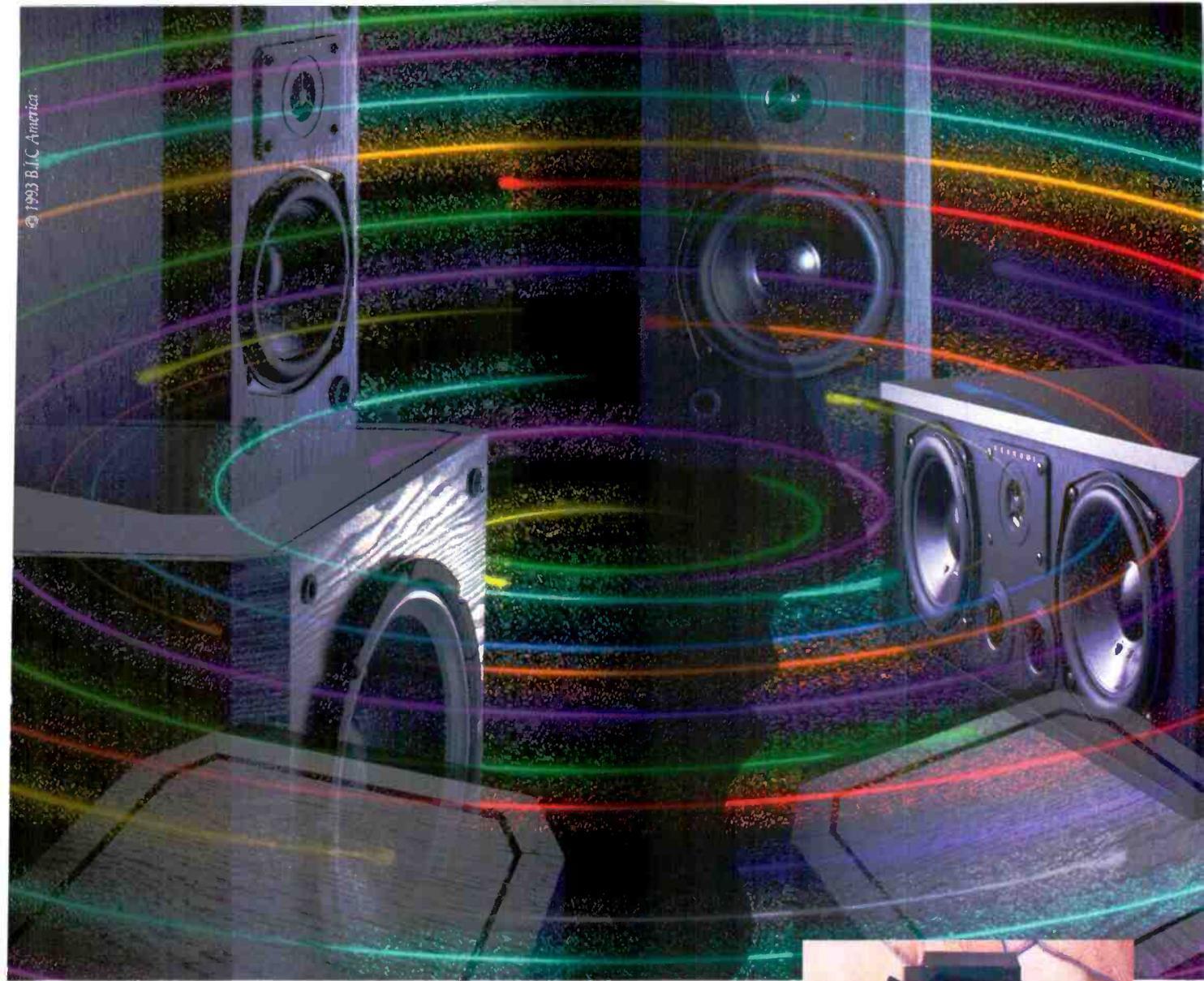


**The Science of Loudspeakers™**

# LOUDSPEAKERS

| MANUFACTURER              | Model                            | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Super Tweeter=ST | Angular Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish              | Grille Color and Material | Weight, Lbs. Each | Price, \$             |
|---------------------------|----------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|---------------------|---------------------------|-------------------|-----------------------|
| GOLD SOUND<br>(Continued) | Kit #CAVI                        | A/V, In-Wall  | (2)6½                   |                           |               | 1                        | Dome         |  | 46-20                                      | 92                      | 5  | 3k                        | 4/ or 8/                         | 16 x 20 x 4                          | Opt.                | Wht. Knit                 | 35                | Kit, 749.00 Pair      |
|                           | Kit #Dynaudio A                  | Sat.  | 5                       |                           |               | ¾                        | Dome         |  | 72-22 ±3                                   | 89                      | 5  | 3k                        | 4/ or 8/                         | 12 x 8 x 7                           | Opt.                | Opt.                      | 12                | Kit, 329.00 Pair      |
|                           | Kit #Dynaudio B                  | Sat.  | 6                       |                           |               | 1                        | Dome         |  | 58-22                                      | 89                      | 5  | 3k                        | 4/ or 8/                         | 16 x 10 x 8                          | Opt.                | Opt.                      | 14                | Kit, 479.00 Pair      |
|                           | Kit #Dynaudio C                  | Symm. Array   | (2)6                    |                           |               | 1                        | Dome         |  | 54-22                                      | 92                      | 5  | 3k                        | 4/ or 8/                         | 19 x 12 x 10                         | Opt.                | Opt.                      | 20                | Kit, 749.00 Pair      |
|                           | Kit #.2                          | Sealed  | 5¼                      |                           |               | ¾                        | Dome         |  | 68-20 ±3                                   | 91                      | 5  | 3k                        | 4/ or 8/                         | 12 x 8 x 7                           | Opt.                | Brn. Knit                 | 9                 | Kit, 109.00 Pair      |
|                           | Kit #.6                          | Sealed  | 6½                      |                           |               | 1                        | Dome         |  | 58-20 ±3                                   | 92                      | 5  | 3k                        | 4/ or 8/                         | 16 x 10 x 8                          | Opt.                | Opt.                      | 12                | Kit, 149.00 Pair      |
|                           | Kit #.8                          | Symm. Array   | (2)4½                   |                           |               | 1                        | Dome         |  | 61-20 ±3                                   | 89                      | 10   | 3k                        | 4/ or 8/                         | 16 x 8 x 7                           | Opt.                | Opt.                      | 12                | Kit, 299.00 Pair      |
|                           | Kit #1                           | Vented  | 8                       |                           |               | 1¼                       | Dome         |  | 45-20 ±3                                   | 93                      | 5  | 2k                        | 4/ or 8/                         | 25 x 14 x 11                         | Opt.                | Opt.                      | 29                | Kit, 149.00 Pair      |
|                           | Kit #294                         | Vented  | 8                       | 4                         | Cone          | 1                        | Dome         |  | 37-30 ±3                                   | 91                      | 5  | 90,300,4k                 | 4/ or 8/                         | 19 x 12 x 10                         | Opt.                | Opt.                      | 18                | Kit, 449.00 Pair      |
|                           | Kit #394                         | Vented  | 12                      | 5¼                        | Cone          | 1                        | Dome         |  | 36-30 ±3                                   | 92                      | 5  | 80,200,3k                 | 4/ or 8/                         | 25 x 14 x 11                         | Opt.                | Opt.                      | 35                | Kit, 549.00 Pair      |
|                           | Kit #494                         | Vented; Symm. Array                                     | 10                      | (2)4½                     | Cones         | 1                        | Dome         |  | 25-30 ±3                                   | 93                      | 5  | 70,250,3k                 | 4/ or 8/                         | 37 x 14 x 11                         | Opt.                | Opt.                      | 64                | Kit, 629.00 Pair      |
|                           | Kit #594                         | Vented; Symm. Array                                     | 12                      | (2)6                      | Cones         | 1                        | Dome         |  | 32-30 ±3                                   | 93                      | 5  | 60,300,3k                 | 4/ or 8/                         | 37 x 14 x 11                         | Opt.                | Opt.                      | 79                | Kit, 699.00 Pair      |
|                           | Kit #695                         | Vented; Symm. Array                                     | 12                      | (2)6½                     | Cones         | 1                        | Dome         |  | 32-30                                      | 93                      | 5  | 150,3k                    | 4/ or 8/                         | 37 x 14 x 11                         | Oak                 | Opt.                      | 98                | Kit, 999.00 Pair      |
|                           | Kit #794                         | Vented; Symm. Array                                     | (2)10                   | (2)6½                     | Cones         | 1                        | Dome         |  | 28-35 ±3                                   | 93                      | 5  | 50,300, 3k,8k             | 4/ or 8/                         | 37 x 14 x 11                         | Opt.                | Opt.                      | 116               | Kit, 1199.00 Pair     |
|                           | Kit #894                         | Vented; Symm. Array                                     | (2)12                   | (2)6                      | Cones         | 1                        | Dome         |  | 26-25 ±3                                   | 95                      | 5  | 200,4k                    | 4/ or 8/                         | 44 x 18 x 14                         | Opt.                | Opt.                      |                   | Kit, 1399.00 Pair     |
|                           | Kit #1194                        | Vented  | 15                      | 8                         | Cone          | 5x5                      | Horn         | M,T  | 28-21 ±3                                   | 93                      | 5  | 200,5k                    | 4/ or 8/                         | 44 x 18 x 14                         | Opt.                | Opt.                      | 109               | Kit, 1599.00 Pair     |
|                           | Kit #1494                        | Vented  | 18                      | 10, 8x10                  | Cone, Horn    | 5x5                      | Horn         | M,T  | 28-21 ±3                                   | 98                      | 5  | 100,1.2k, 5k              | 4/ or 8/                         | 46 x 29 x 19                         | Opt.                | Brn. Knit                 | 196               | Kit, 2999.00 Pair     |
|                           | Performance Pro 15 Kit           | Vented  | 15                      | 7                         | Cone          | 8x10, 3x7                | Horns        | M,T  | 45-21 ±3                                   | 96                      | 5  | 400,5k                    | 4/ or 8/                         | 44 x 18 x 14                         | Opt.                | Blk. Mtl.                 | 70                | Kit, 679.00 Each      |
|                           | Performance Pro Double 15 Kit    | Vented  | (2)15                   | 7                         | Cone          | 8x10, (2) 3x7            | Horns        | M,T  | 43-21 ±3                                   | 98                      | 5  | 400,5k                    | 4/ or 8/                         | 46 x 24 x 21                         | Opt.                | Blk. Mtl.                 | 120               | Kit, 999.00 Each      |
|                           | Performance Pro Double 18 Kit    | Vented  | (2)18                   | 10                        | Cone          | 8x10, 5x5                | Horns        | M,T, ST  | 33-21 ±3                                   | 99                      | 5  | 200,2k,10k                | 4/ or 8/                         | Two Pieces Per Side                  | Opt.                | Blk. Mtl.                 | 240 Side          | Kit, 1249.00 Side     |
|                           | Performance Pro 12JBL Kit        | Sealed  | 12                      |                           |               | 3x7                      | Horn         | T  | 45-21 ±3                                   | 95                      | 5  | 3k                        | 4/ or 8/                         | 20 x 16 x 15                         | Opt.                | Blk. Mtl.                 |                   | Kit, 108.00 Each      |
|                           | Performance Pro 12 Kit           | Sealed  | 12                      |                           |               | 3x7                      | Horn         | T  | 50-21 ±3                                   | 93                      | 5  | 3k                        | 4/ or 8/                         | 20 x 16 x 15                         | Opt.                | Blk. Mtl.                 | 40                | Kit, 589.00 Each      |
|                           | M15JBL                           | Sealed  | 15                      | 7                         | Cone          | 3x7                      | Horn         |  | 39-21 ±3                                   | 97                      | 5  | 500,5k                    | 4/ or 8/                         | 30 x 17 x 14                         | Opt.                | Blk. Mtl.                 | 62                | Kit, 349.00 Each      |
|                           | M15 Kit                          | Sealed  | 15                      | 7                         | Cone          | 3x7                      | Horn         |  | 45-21 ±3                                   | 95                      | 5  | 500,5k                    | 4/ or 8/                         | 30 x 17 x 14                         | Opt.                | Blk. Mtl.                 | 57                | Kit, 799.00 Each      |
|                           | Performance Pro 15JBL Kit        | Vented  | 15                      | 7                         | Cone          | 8x10, 3x7                | Horns        | M,T  | 39-21 ±3                                   | 98                      | 5  | 400,5k                    | 4/ or 8/                         | 44 x 18 x 14                         | Opt.                | Blk. Mtl.                 | 80                | Kit, 799.00 Each      |
|                           | Performance Pro Double 15JBL Kit | Vented  | (2)15                   | 7                         | Cone          | 8x10, (2) 3x7            | Horns        | M,T  | 38-21 ±3                                   | 100                     | 5  | 400,5k                    | 4/ or 8/                         | 46 x 24 x 21                         | Opt.                | Blk. Mtl.                 | 130               | Kit, 1299.00 Each     |
|                           | Performance Pro Double 18JBL Kit | Vented  | (2)18                   | 10                        | Cone          | 8x10, 5x5                | Horns        | M,T, ST  | 29-21 ±3                                   | 101                     | 5  | 200,2k,10k                | 4/ or 8/                         | Two Pieces Per Side                  | Opt.                | Blk. Mtl.                 | 280               | Kit, 1949.00 Each     |
|                           | GS12 Kit                         | Subwoof.  | 12                      |                           |               |                          |              |  | 32-150 ±3                                  | 92                      | 5  | 150                       | 4/ or 8/                         | 18 x 18 x 16                         | Opt.                | Opt.                      | 18                | Kit, 99.00 Each       |
|                           | GS12(2) Kit                      | Compd. Load Subwoof.                                    | (2)12                   |                           |               |                          |              |  | 25-150 ±3                                  | 95                      | 5  | 150                       | 4/ or 8/                         | 18 x 18 x 16                         | Opt.                | Opt.                      | 18                | Kit, 189.00 Pair      |
|                           | JBL15 Kit                        | Subwoof.  | 15                      |                           |               |                          |              |  | 28-150 ±3                                  | 96                      | 5  | 150                       | 4/ or 8/                         | 44 x 18 x 14                         | Opt.                | Opt.                      | 25                | Kit, 315.00 Each      |
| JBL15(2) Kit              | Compd. Load Subwoof.             | (2)15   |                         |                           |               |                          |              | 23-150 ±3  | 99   | 5                       | 150  | 4/ or 8/                  | 44 x 18 x 14                     | Opt.                                 | Opt.                | 50                        | Kit, 598.00 Pair  |                       |
| JBL18 Kit                 | Subwoof.                         | 18  |                         |                           |               |                          |              | 28-150 ±3  | 95   | 5                       | 150  | 4/ or 8/                  |                                  | Opt.                                 | Opt.                | 33                        | Kit, 495.00 Each  |                       |
| JBL18(2) Kit              | Compd. Load Subwoof.             | (2)18   |                         |                           |               |                          |              | 23-150 ±3  | 98   | 5                       | 150  | 4/ or 8/                  |                                  | Opt.                                 | Opt.                | 66                        | Kit, 969.00 Pair  |                       |
| 8C                        | In-Wall                          | 8   |                         |                           |               | 1¼                       | Dome         |  | 40-25 ±3                                   | 92                      | 5  | 4k                        | 4/ or 8/                         |                                      | Opt.                | Opt.                      | 10                | Pair, 258.00 Pair     |
| 8AC                       | In-Wall                          | 8   |                         |                           |               | 2                        | Cone         |  | 32-20 ±3                                   | 92                      | 5  | 3k                        | 4/ or 8/                         |                                      | Opt.                | Opt.                      | 18                | Pair, 318.00 Pair     |
| 824                       | In-Wall Subwoof.                 | 8   |                         |                           |               |                          |              | 32-2 ±3  | 92   | 5                       |  | 4/ or 8/                  |                                  | Opt.                                 | Opt.                | 16                        | Pair, 199.00 Pair |                       |
| 844                       | In-Wall Subwoof.                 | 8   |                         |                           |               |                          |              | 30-2 ±3  | 92   | 5                       |  | 4/ or 8/                  |                                  | Opt.                                 | Opt.                | 24                        | Pair, 249.00 Pair |                       |
| GRADIENT                  | Revolution                       | Cardioid Point-Source Dipole                            | (2)12                   | 6¾                        | Cone          | 1                        | Dome         | No   | 30-20 ±2                                   | 86                      | 50   | 200,2.8k                  | 6/5                              | 39 x 14 x 12                         | Satin Blk           | Blk. Knit                 | 50                | 3995.00 Pair          |
|                           | 1.3                              | Line Source Dipole & Bass Ref.                          | 8                       | 12                        | Cone          | (4)1½                    | Cones        |  | 45-20 ±2.5                                 | 86                      | 25   | 250,1.5k                  | 4/3.5                            | 38 x 15 x 11                         | Opt.                | Opt., Mtl.                | 25                | 2500.00 Pair          |
|                           | Avanti                           | Bass Ref.   | 6                       |                           |               | ¾                        | Dome         |  | 60-22 ±2                                   | 86                      | 25   | 3k                        | 8/                               | 20 x 10 x 12                         | Opt.                | Opt., Foam                | 10                | 1250.00 Pair w/Stands |
| GREEN MOUNTAIN AUDIO      | Imago Series II                  | Trans. Line   | 10                      | 4                         | Cone          | 1½, ½x2                  | Dome, Ribbon | W.M, T,ST  | 35-35 ±3                                   | 90                      | 35   | 340,3k,9k                 | 8/5                              | 14 x 18 x 52                         | Lacq. Cherry Marble | Blk. Knit                 | 170               | 7495.00 Pair          |
|                           | Diamante                         | Trans. Line   | 8                       | 4                         | Cone          | 1½                       | Dome         | W.M, T   | 42-23 ±3                                   | 88                      | 35   | 350,3k                    | 8/5                              | 14 x 14 x 42                         | Bjk. Mesh           | Bjk. Knit                 | 105               | 3995.00 Pair          |
|                           | Continuum 1                      | Inf. Baf.   | 12                      | 5¼                        | Cone          | 1½                       | Dome         | W.M,T  | 38-23 ±3                                   | 88                      | 35   | 250,3k                    | 8/5                              | 14 x 22 x 48                         | Marble & Cherry     | Bjk. Knit                 | 90                | 2995.00 Pair          |

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# LOUDSPEAKERS

| MANUFACTURER                   | Model                               | Application<br>Design Principle<br>Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type  | Tweeter Diameter, Inches       | Tweeter Type                         | Separate Level Controls: Woofer = W<br>Midrange = M, Tweeter = T, Super Tweeter = ST | Alephonic Frequency Response,<br>Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum<br>Amp Power, Watts, Channel | Crossover Frequencies, Hz   | Impedance, Ohms:<br>Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish                   | Grille Color and Material | Weight, Lbs. Each    | Price, \$                    |              |
|--------------------------------|-------------------------------------|---|-------------------------|---------------------------|----------------|--------------------------------|--------------------------------------|--|---|-------------------------|--|-----------------------------|-------------------------------------|--------------------------------------|--------------------------|---------------------------|----------------------|------------------------------|--------------|
| REUBEN<br>GUSS                 | Custom Monitor                      | Sat. & Inf. Baf.  | (24)15                  | (48)5                     | Domes          | (32)1,<br>(100)3               | Domes,<br>Piezos                     | M,T  | 10-30 ±3  | 98                      | 100  | 400,460,<br>950,3.5k,<br>4k | 6/4                                 | Six Pieces                           | Opt.                     | Blk. Knit                 | 2200 Sys.            | 100,000 Sys.                 |              |
|                                | System 1 Monitor                    | Sat. & Inf. Baf.  | (12)15                  | (24)5                     | Domes          | (16)1,<br>(50)3                | Domes,<br>Piezos                     | M,T  | 15-30 ±3  | 98                      | 50   | 400,560,<br>950,3.5k,<br>5k | 6/4                                 | Four Pieces                          | Opt.                     | Blk. Knit                 | 1100 Sys.            | 50,000 Sys.                  |              |
|                                | System 2C Symphony                  | Sat. & Inf. Baf.  | (4)15                   | (6)5                      | Domes          | (4)1,<br>(12)3                 | Domes,<br>Piezos                     | M,T  | 20-30 ±3  | 96                      | 50   | 400,560,<br>950,3.5k,<br>5k | 4/3                                 | Four Pieces                          | Opt.                     | Blk. Knit                 | 355 Sys.             | 16,000 Sys.                  |              |
|                                | System 3 Concerto                   | Sat. & Inf. Baf.  | (4)12                   | (6)5                      | Domes          | (4)1,<br>(8)3                  | Domes,<br>Piezos                     | M,T  | 30-30 ±3  | 92                      | 50   | 400,560,<br>950,3.5k,<br>5k | 4/3                                 | Four Pieces                          | Opt.                     | Blk. Knit                 | 350 Sys.             | 10,000 Sys.                  |              |
|                                | System 4 Sonata<br>System 5 Monitor | Sat. & Inf. Baf.<br>Sat. & Inf. Baf.                        | (2)12<br>(2)15          | (2)5<br>(2)5              | Domes<br>Domes | (2)1,<br>(6)3<br>(2)1,<br>(6)3 | Domes,<br>Piezos<br>Domes,<br>Piezos | M,T<br>M,T   | 30-30 ±4<br>25-30 ±3                            | 88<br>88                | 50<br>50   | 460,3.5k<br>460,4k          | 8/6<br>5/4                          | Four Pieces<br>Four Pieces           | Mahog.<br>Mahog.         | Blk. Knit<br>Blk. Knit    | 140 Sys.<br>200 Sys. | 5000.00 Sys.<br>6000.00 Sys. |              |
| HALES<br>DESIGN<br>GROUP       | Concept One                         | Inf. Baf.   | 8                       |                           |                | 1                              | Dome                                 |  | 43-26 ±3  | 88                      | 50   |                             | 6/5                                 | 36 x 10 x 12                         | Sapele                   | Blk. Cloth                | 80                   |                              |              |
|                                | Concept Two                         | Inf. Baf.   | 8                       | 4                         | Cone           | 1                              | Dome                                 |  | 37-26 ±3  | 85                      | 100  |                             | 6/4                                 | 40 x 10 x 14                         | Sapele                   | Blk. Cloth                | 110                  |                              |              |
|                                | Concept Three                       | Inf. Baf.   | 10                      | 5                         | Cone           | 1                              | Dome                                 |  | 33-26 ±3  | 84                      | 100  |                             | 5/5                                 | 43 x 12 x 14                         | Sapele                   | Blk. Cloth                | 130                  |                              |              |
|                                | Concept Four                        | Inf. Baf.   | (2)8                    | 5 1/4                     | Cone           | 1                              | Dome                                 |  | 31-26 ±3  | 87                      | 100  |                             | 4/4                                 | 45 x 12 x 16                         | Sapele                   | Blk. Cloth                | 150                  |                              |              |
|                                | Concept Five                        | Inf. Baf.   | 11                      | 2                         | Dome           | 1                              | Dome                                 |  | 28-26 ±3  | 86                      | 100  |                             | 7/5                                 | 48 x 12 x 18                         | Sapele                   | Blk. Cloth                | 180                  |                              |              |
|                                | HDG Subwoofer                       | Powered Isobaric Subwoof.                                   | (2)12                   |                           |                |                                |                                      |  | 17-80 ±3 (Adj.)                                 |                         | Inc.   |                             |                                     |                                      | 18 x 40 x 28             | Sapele                    | Blk. Cloth           | 180                          |              |
| HARBETH<br>ACOUSTICS           | HL5                                 | Ported  | 8                       |                           |                | 1                              | Dome                                 |  | 50-18 ±3  | 86.5                    | 25   |                             | 8/                                  | 25 x 13 x 13                         | Teak                     | Blk. Foam Fabr.           | 45                   | 2495.00 Pair                 |              |
|                                | HL Compact 7 HLP3                   | Ported  | 8                       |                           |                | 1                              | Dome                                 |  | 50-18 ±3  | 88                      | 25   |                             | 8/                                  | 21 x 11 x 11                         | Wal.                     | Blk. Foam Fabr.           | 25                   | 1995.00 Pair                 |              |
|                                | LS3/5a                              | Sealed Box  | 4 1/2                   |                           |                | 3/4                            | Dome                                 |  | 80-20 ±3  | 82.5                    | 15   |                             | 6/                                  | 12 x 7 x 7                           | Wal.                     | Blk. Foam Fabr.           | 12                   | 995.00 Pair                  |              |
|                                | LS3/5a                              | Sealed Box  | 4 1/2                   |                           |                | 3/4                            | Dome                                 |  | 80-18 ±3  | 82                      | 15   |                             | 10/                                 | 12 x 7 x 7                           | Teak                     | Blk. Tygran Fabr.         | 12                   | 995.00 Pair                  |              |
|                                | BBC LSS/12A                         | Ported  | 4 1/2                   |                           |                | 1                              | Dome                                 |  | 55-22 ±0.3                                      | 81.5                    | 50   |                             | 8/                                  | 11 x 7 x 9                           | Teak                     | Blk. Tygran Fabr.         | 15                   | 2195.00 Pair                 |              |
| HARMAN<br>KARDON               | FS-1                                | Ported  | 5 1/4                   |                           |                | 1/2                            | Dome                                 | No   | 70-20   | 85                      | 30   | 4k                          |                                     | 14 x 7 x 9                           | Blk. Vnl.                | Silv. Mtl.                | 11                   | 399.00 Pair                  |              |
| HARMONIC<br>PRECISION          | 2SC Echelon                         | Tuned Port  | 6 1/2<br>8 1/2          | 2                         | Dome           | 1                              | Dome<br>Dome                         |  | 49-20 ±3<br>39-20 ±3                            | 88<br>90                | 20<br>11   | 2.5k<br>1.4k, 7.5k          | 8/6<br>12/7                         | 15 x 14 x 10<br>45 x 11 x 14         | Oak Mahog.               | Blk. Knit                 | 30<br>57             | 895.00 Pair<br>1995.00 Pair  |              |
|                                | Mini                                | Inf. Baf.   | 5 1/4                   |                           |                | 1                              | Dome                                 |  | 70-20 ±2  | 87                      | 10   | 3k                          | 8/7                                 | 13 x 9 x 16                          | Wal. Stain               | Blk. Knit                 | 12                   | 280.00 Pair                  |              |
| HARMS<br>SOUND LABS            | HL1                                 | Pas. Rad.   | 5 1/4                   |                           |                | 1                              | Dome                                 |  | 45-20 ±2  | 87                      | 10   | 3k                          | 8/7                                 | 20 x 10 x 9                          | Wal. Stain               | Blk. Knit                 | 18                   | 380.00 Pair                  |              |
|                                | HL1P                                | Pas. Rad.   | 6 1/2                   |                           |                | 1                              | Dome                                 |  | 37-20 ±2  | 90                      | 10   | 3k                          | 8/7                                 | 22 x 10 x 10                         | Wal. Stain               | Blk. Knit                 | 22                   | 480.00 Pair                  |              |
|                                | HL2                                 | Pas. Rad.   | 8                       |                           |                | 1                              | Dome                                 |  | 30-20 ±2  | 91                      | 10   | 3k                          | 8/7                                 | 24 x 14 x 10                         | Wal. Stain               | Blk. Knit                 | 35                   | 580.00 Pair                  |              |
|                                | HL3                                 | Pas. Rad.   | 10                      | 6 1/2                     | Cone           | 1                              | Dome                                 |  | 26-20 ±2  | 90                      | 10   | 300,3k                      | 8/7                                 | 34 x 12 x 13                         | Wal. Stain               | Blk. Knit                 | 50                   | 780.00 Pair                  |              |
|                                | HL4                                 | Sat. & Pas. Rad. Subwoof.                                   | 12                      | (2)6 1/2                  | Cones          | (2)1                           | Domes                                |  | 22-20 ±2  | 94                      | 10   | 200,3k                      | 8/4                                 | Four Pieces                          | Wal. Stain               | Blk. Knit                 | 164 Sys.             | 1200.00 Sys.                 |              |
|                                | HL5                                 | Sat. & Pas. Rad. Subwoof.                                   | (2)12                   | (4)5 1/4                  | Cones          | (4)1                           | Domes                                |  | 18-20 ±2  | 97                      | 10   | 150,3k                      | 8/4                                 | Six Pieces                           | Wal. Stain               | Blk. Knit                 | 230 Sys.             | 3000.00 Sys.                 |              |
|                                | Small Subwoofer                     | Pas. Rad. Subwoof.  | 10                      |                           |                |                                |                                      |  | To 150 ±3                                       | 91                      | 30   | 125                         | 4/4                                 | 25 x 14 x 10                         | Wal. Stain               | Blk. Knit                 | 38                   | 249.00 Each                  |              |
|                                | Large Subwoofer                     | Pas. Rad. Subwoof.  | 12                      |                           |                |                                |                                      |  | To 150 ±3                                       | 94                      | 50   | 125                         | 4/4                                 | 32 x 17 x 13                         | Wal. Stain               | Blk. Knit                 | 53                   | 399.00 Each                  |              |
|                                | HL Small Loud                       | Bass Ref.   | 8                       |                           |                | 4x4                            | Horn                                 |  | 40-18   | 96                      | 10   | 4k                          | 8/8                                 | 22 x 10 x 10                         | Blk. Lacq.               | Blk. Knit                 | 22                   | 199.00 Pair                  |              |
|                                | HL Large Loud                       | Bass Ref.   | 10                      |                           |                | 4x4                            | Horn                                 |  | 35-18   | 96                      | 10   | 4k                          | 8/8                                 | 24 x 14 x 10                         | Blk. Lacq.               | Blk. Knit                 | 29                   | 299.00 Pair                  |              |
| HARRISON<br>LABORATO-<br>RIES  | HL Small PA                         | Bass Ref.   | 12                      | 2x7                       | Horn Cone      | 2x5                            | Horn Horn                            |  | 55-22<br>40-22                                  | 101<br>102              | 10<br>10   | 2k,4k<br>250,4k             | 8/8<br>8/8                          | 25 x 16 x 14<br>33 x 19 x 14         | Mtl. Cptg.<br>Mtl. Cptg. | Mtl. Mtl.                 | 35<br>61             | 399.00 Pair<br>599.00 Pair   |              |
|                                | HL Large PA                         | Bass Ref.   | 15                      | 10                        | Horn Cone      | 2x5                            | Horn Horn                            |  | 55-22<br>40-22                                  | 101<br>102              | 10<br>10   | 2k,4k<br>250,4k             | 8/8<br>8/8                          | 25 x 16 x 14<br>33 x 19 x 14         | Mtl. Cptg.<br>Mtl. Cptg. | Mtl. Mtl.                 | 35<br>61             | 399.00 Pair<br>599.00 Pair   |              |
| HARRISON<br>LABORATO-<br>RIES  | Tower of Power                      | Powered   | 10.6                    | 4                         | Cone           | 1 1/2                          | Cone                                 | (2)W,<br>M,T   | 20-20 ±5  |                         | Inc.   |                             |                                     | Four Pieces                          | Opt.                     | Blk. Knit                 | 150 Sys.             | 1495.00 Sys.                 |              |
|                                | HARTLEY<br>PRODUCTS                 | Compact Reference   | Air Col.                | 6 1/2                     |                |                                | 1                                    | Dome   | No  | 45-25 ±4                | 87   | 10                          | 5k                                  | 8/6                                  | 12 x 12 x 16             | Opt., Wood                | Blk. Knit            | 30                           | 400.00 Pair  |
|                                |                                     | Reference Tower   | Air Col.                | (4)6 1/2                  |                |                                | (4)1                                 | Domes  | No  | 24-25 ±3                | 95   | 5                           | 3.6k                                | 5/4                                  | 18 x 18 x 45             | Opt., Wood                | Blk. Knit            | 100                          | 1500.00 Pair |
|                                |                                     | Reference Mini-Tower  | Air Col.                | (2)6 1/2                  |                |                                | 1                                    | Dome   | No  | 32-25 ±3                | 93   | 5                           | 3.1k                                | 5/4                                  | 33 x 12 x 12             | Opt., Wood                | Blk. Knit            | 50                           | 695.00 Pair  |
|                                |                                     | Concertmaster   | Inf. Baf.               | 18                        | 10             | Cone                           | (2)7                                 | Cones  | No  | 16-25 ±3                | 92.5   | 25                          | 125,3k,8k                           | 8/5                                  | 29 x 18 x 42             | Opt., Wood                | Blk. Knit            | 175                          | 6095.00 Pair |
|                                |                                     | Reference   | Inf. Baf.               | 24                        | 10             | Cone                           | (2)7                                 | Cones  | No  | 16-25 ±3                | 93   | 25                          | 125,3k,8k                           | 8/5                                  | 36 x 24 x 50             | Opt., Wood                | Blk. Knit            | 300                          | 7295.00 Pair |
|                                |                                     | SW-10   | Air Col. Subwoof.       | 10                        |                |                                |                                      |  | No  | 25-3.8 ±3               | 93   | 15                          |                                     | 8/6                                  | 18 x 18 x 24             | Opt., Wood                | Blk. Knit            | 70                           | 550.00 Each  |
|                                |                                     | SW-18   | Inf. Baf. Subwoof.      | 18                        |                |                                |                                      |  | No  | 16-350 ±4               | 92.5   | 25                          |                                     | 5/4                                  | 29 x 18 x 42             | Opt., Wood                | Blk. Knit            | 150                          | 1100.00 Each |
| SW-24                          | Inf. Baf. Subwoof.                  | 24  |                         |                           |                |                                | No                                   | 16-250 ±3  | 93  | 25                      |  | 5/4                         | 36 x 24 x 50                        | Opt., Wood                           | Blk. Knit                | 250                       | 1495.00 Each         |                              |              |
| HIGH BISCUIS                   | Kevin Ingram One                    | Vented  | (6)7                    | 28x13                     | Horn           | 5 1/4x<br>5 1/4                | Horn,<br>Leaf                        |  | 40-85   | 94                      |  | 600,3.5k,<br>12k            | 8/6                                 | 68 x 28 x 32                         | Mahog.                   | None                      | 130                  | 1350.00 Each                 |              |
| HSU<br>RESEARCH<br>(Continued) | HRWSW 10                            | Bass Ref. Subwoof.  | 10                      |                           |                |                                |                                      | W  | 20-100 ±1                                       |                         | 40   | 40-100                      | 8/7                                 | 14 Dia. x 29                         | Opt. Zolitone Gran.      | Blk. Knit                 | 23                   | 800.00 Pair                  |              |
|                                | HRWSW 12V                           | Powered Bass. Ref. Subwoof.                                 | 12                      |                           |                |                                |                                      | W  | 20-100 ±2                                       |                         | 150 Inc.   | 28-155                      | 8/7                                 | 23 Dia. x 22                         | Opt. Zolitone Gran.      | Blk. Knit                 | 70                   | 800.00 Each                  |              |

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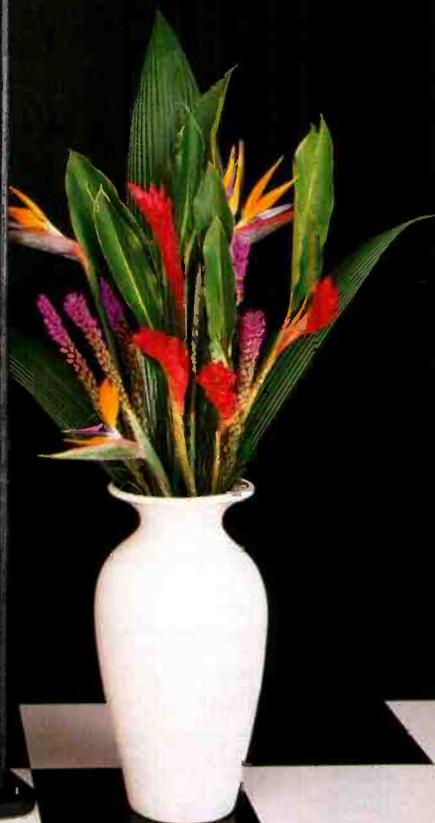
**ADVENT HOME THEATER SYSTEMS**  
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# LOUDSPEAKERS

| MANUFACTURER             | Model                                      | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer: W, Midrange: M, Tweeter: T, Super Tweeter: ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish            | Grille Color and Material    | Weight, Lbs. Each | Price, \$                           |
|--------------------------|--|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-------------------|------------------------------|-------------------|-------------------------------------|
| HSU RESEARCH (Continued) | HRSW 210                                   | Bass Ref. Subwoof.                                      | (2)10                   |                           |               |                          |              | W  | 19-100 ±1                                   | 100                     | 28-155                                       | 8/6                       | 24 Dia. x 34                     | Zolatone Gran. Rswd.                 | Blk. Knit         | 100                          | 2000.00 Pair      |                                     |
|                          | HRSW 410 HRIBR                             | Bass Ref. Subwoof.<br>Bass Ref. Subwoof.                | (4)10<br>(16)18         |                           |               |                          |              | W<br>W   | 16-100 ±1<br>10-100 ±1                      | 200<br>1k               | 28-155<br>28-155                             | 4/3<br>8/6                | 24 Dia. x 66<br>Sixteen Pieces   | Blk. Knit<br>Blk. Knit               | 150<br>2400 Sys.  | 3500.00 Pair<br>80,000. Sys. |                   |                                     |
| HUBBELL SOUND SYSTEMS    | HS 542 SV 552                              | Symmetrical Array Aperiodic                             | (2)5¼<br>5¼             |                           | 1<br>¾        | Dome<br>Dome             |              |  | 70-20 ±3<br>70-20 ±3                        | 92<br>87                | 10<br>10                                     | 3k<br>3.2k                | 4/4<br>8/6                       | 18 x 8 x 10<br>12 x 8 x 7            | Opt.<br>Opt.      | Blk. Knit<br>Blk. Knit       | 23<br>9           | 799.00 Pair<br>499.00 Pair          |
| IMPULSE                  | LeF II                                     | Sat. & Ported Subwoof.                                  | 12                      |                           | (4)2          | Cones                    | T            |  | 28-22 ±3                                    | 88                      | 100  | 250                       | 4/2                              | Two Pieces Per Side                  | Oak               | Blk. Knit                    | 80                | 3000.00 Side                        |
|                          | LeF III LeF VOG                            | Ported Horn   | 8<br>18                 | 4                         | Horn<br>2     | Cone<br>2                | W,M,<br>T    |  | 46-22 ±3<br>40-18 ±3                        | 88<br>110               | 100<br>(3)<br>100                            | 250<br>150.4k             | 4/2<br>8/4                       | 10 x 8 x 14<br>74 x 48               | Oak<br>Oak Fbg's. | Blk. Knit                    | Side<br>300       | 2500.00 Pair<br>w/Over              |
| INCUS                    | Gfs-5                                      | Bass Ref.   | 5¼                      |                           | ¾             | Dome                     |              |  | 56-20                                       | 10                      | 5k   | 8/                        | 8 x 12 x 9                       | Blk.                                 | Blk. Knit         | 9                            | 230.00 Pair       |                                     |
|                          | Gfs-6II                                    | Ac. Sus.  | 6½                      |                           | ¾             | Dome                     |              |  | 56-20                                       | 10                      | 4.5k   | 8/                        | 8 x 12 x 9                       | Blk.                                 | Blk. Knit         | 12                           | 250.00 Pair       |                                     |
|                          | Gfs-8                                      | Ac. Sus.  | 8                       |                           | ¾             | Dome                     |              |  | 45-21                                       | 10                      | 3.5k   | 8/                        | 10 x 17 x 10                     | Blk.                                 | Blk. Knit         | 16                           | 350.00 Pair       |                                     |
|                          | Gfs-sub                                    | 4th Order Vented Subwoof.                               | (2)6                    |                           |               |                          |              |  | 36-150                                      | 20                      | 120  | 6/                        | 21 x 13 x 11                     | Blk.                                 | Blk. Knit         | 38                           | 290.00 Each       |                                     |
|                          | SM-10                                      | Bass Ref.   | 10                      | 5                         | 2½            | Horn                     |              |  | 40-20                                       | 89                      | 10   | 8/                        | 23 x 12 x 12                     | Blk.                                 | Blk.              | 25                           | 400.00 Pair       |                                     |
|                          | SM-12                                      | Bass Ref.   | 12                      |                           | 2½            | Horn                     |              |  | 30-20                                       | 92                      | 10   | 8/                        | 25 x 15 x 13                     | Blk.                                 | Blk.              | 30                           | 450.00 Pair       |                                     |
| INFINITY                 | Irs-525                                    | In-Wall   | 5¼                      |                           | 1             | Dome                     |              |  | 60-21                                       | 90                      | 3.5k   | 8/                        | 8 x 6 x 3                        | Wht.                                 | Wht. Mtl.         | 200                          | 200.00 Pair       |                                     |
|                          | Irs-650                                    | In-Wall   | 6½                      |                           | 1             | Dome                     |              |  | 50-22                                       | 90                      | 3k   | 8/                        | 11 x 7 x 3                       | Wht.                                 | Wht. Mtl.         | 250                          | 250.00 Pair       |                                     |
|                          | Irs-800                                    | In-Wall   | 8                       |                           | 1             | Dome                     |              |  | 30-25                                       | 92                      | 2.5k   | 8/                        | 13 x 9 x 3                       | Wht.                                 | Wht. Mtl.         | 430                          | 430.00 Pair       |                                     |
|                          | IRS Series V                               | Servo   | (12)12                  | (24)4x6                   | EMIMs         | (72)½x2                  | EMITs        | M, T, ST<br>W, M, T  | 16-44 ±2                                    | 87                      | 108  | 70.5k                     | 4/3                              | Four Pieces                          | Santos            | Brn. Cloth<br>Blk. Cloth     | 1550<br>150       | 60,000. Sys.<br>14,000. Pair w/Over |
|                          | IRS Epsilon (w/woofer servo and crossover) | Planar Mag.   | 12                      |                           | Planar Mag.   | (2)                      | EMITs        |  | 25-35 ±1.5                                  | 86                      | 150  | 150,500, 3k               | 4/                               | 59 x 18 x 15                         | Opt.              | Blk. Cloth                   | 15                |                                     |
|                          | Kappa 6.1                                  | Ported  | 8                       | 3                         | Dome          |                          | EMIT R       |  | 45-35 ±2                                    | 89                      | 30   | 500,4.5k                  | 8/4                              | 38 x 12 x 9                          | Opt.              | Blk.                         | 48                | 599.00 Each                         |
|                          | Series II Kappa 7.1                        | Ported  | 10                      | 3                         | Dome          |                          | EMIT R       |  | 39-35 ±2                                    | 89                      | 40   | 500,4.5k                  | 8/4                              | 43 x 14 x 10                         | Opt.              | Blk.                         | 63                | 799.00 Each                         |
|                          | Series II Kappa 8.1                        | Ported  | 12                      | 6½                        | Dome          |                          | EMIT R       | M, T   | 32-35 ±2                                    | 89                      | 40   | 180,700, 4.7k             | 8/4                              | 48 x 17 x 12                         | Opt.              | Blk. Cloth                   | 87                | 1099.00 Each                        |
|                          | Series II Kappa Video                      | Ported  | (2)5½                   |                           |               |                          | EMIT R       |  | 90-35 ±2                                    | 89                      | 25   | 4k                        | 8/4                              | 21 x 8 x 6                           | Opt.              | Blk. Cloth<br>Blk. Cloth     | 16                | 399.95 Each                         |
|                          | SM 155                                     | Ported  | 15                      | (2)4½                     | Cones         | 1                        | Dome         | M, T   | 44-25 ±3                                    | 102                     | 10   | 500,5.5k                  | 8/4                              | 40 x 18 x 13                         | Vnl.              | Blk.                         | 76                | 599.50 Each                         |
|                          | SM 125                                     | Ported  | 12                      | 4½                        | Cone          | 1                        | Dome         | M, T   | 49-25 ±3                                    | 100                     | 10   | 750,5.5k                  | 8/4                              | 35 x 15 x 13                         | Vnl.              | Blk.                         | 66                | 449.00 Each                         |
|                          | SM 115                                     | Ported  | 10                      | 4½                        | Cone          | 1                        | Dome         | T  | 59-25 ±3                                    | 100                     | 10   | 900,5.5k                  | 8/4                              | 30 x 14 x 13                         | Vnl.              | Blk.                         | 56                | 369.00 Each                         |
| SM 105                   | Ported                                     | 10  |                         |                           | 1             | Dome                     |              | 65-25 ±3   | 100   | 10                      | 3.3k   | 8/4                       | 21 x 12 x 12                     | Vnl.                                 | Blk.              | 34                           | 249.00 Each       |                                     |
| SM 85                    | Ported                                     | 8   |                         |                           | 1             | Dome                     |              | 72-25 ±3   | 98  | 10                      | 2.8k   | 8/4                       | 18 x 11 x 11                     | Vnl.                                 | Blk.              | 438                          | 438.00 Pair       |                                     |
| SM 65                    | Ported                                     | 6½  |                         |                           | ¾             | Dome                     |              | 78-25 ±3   | 94  | 10                      | 5k   | 8/4                       | 13 x 8 x 13                      | Opt., Vnl.                           | Blk. Cloth        | 13                           | 278.00 Pair       |                                     |
| SM Video                 | A/V  | (2)6½   |                         | 1                         |               | Dome                     |              | 78-20 ±3   | 93  | 10                      | 2.2k   | 8/                        | 8 x 21 x 9                       | Blk. Vnl.                            | Blk. Mesh         | 15                           | 329.00 Each       |                                     |
| SL 10                    | Sealed Box                                 | 5¼  |                         | ½                         |               | Dome                     |              | 74-20 ±3   | 90  | 10                      | 4.5k   | 8/4                       | 8 x 12 x 6                       | Opt., Vnl.                           | Blk. Cloth        | 9                            | 199.00 Pair       |                                     |
| SL 20                    | Sealed Box                                 | 6½  |                         | ½                         |               | Dome                     |              | 70-20 ±3   | 90  | 10                      | 3.5k   | 8/4                       | 9 x 14 x 7                       | Oak Vnl.                             | Blk. Cloth        | 13                           | 249.00 Pair       |                                     |
| SL 30                    | Ported                                     | 6½  |                         | ¾                         |               | Dome                     |              | 65-20 ±3   | 92  | 20                      | 3.3k   | 8/4                       | 11 x 18 x 9                      | Oak Vnl.                             | Blk. Cloth        | 20                           | 299.00 Pair       |                                     |
| SL 40                    | Pas. Rad.                                  | 8   | 6½                      | Cone                      | ¾             | Dome                     |              | 52-20 ±3   | 92  | 20                      | 3.3k   | 8/4                       | 11 x 31 x 12                     | Oak Vnl.                             | Blk. Cloth        | 33                           | 459.00 Pair       |                                     |
| SL 50                    | Pas. Rad.                                  | (2)8  | 8                       | Cone                      | ¾             | Dome                     |              | 40-20 ±3   | 92  | 20                      | 3.3k   | 8/4                       | 11 x 38 x 12                     | Oak Vnl.                             | Blk. Cloth        | 41                           | 598.00 Pair       |                                     |
| SL Micro System          | Sealed Sat. & Ported Subwoof.              | (2)6½   | 3½                      | Cone                      | ½             | Dome                     |              | 50-22 ±3   | 87  | 10                      |  | 8/4                       | Three Pieces                     | Blk. Vnl.                            | Blk. Mtl.         | 31                           | 399.00 Sys.       |                                     |
| SL Micro Satellites      | 3 Sealed Sats.                             | 3½  |                         | Cone                      | ½             | Dome                     |              | 150-22 ±3  | 87  | 10                      |  | 8/4                       | Three Pieces                     | Blk. Vnl.                            | Blk. Mtl.         | 14                           | 199.00 Sys.       |                                     |
| SS-TS Satellite          | Sat.                                       | 4   |                         | ½                         |               | Dome                     |              | 150-25 ±3  | 90  | 20                      | 5k   | 8/4                       | 6 Dia. x 8                       | Blk.                                 | Blk. Cloth        | 4                            | 179.00 Each       |                                     |
| SS Video                 | Ctr. Ch.                                   | (2)5½   |                         | ½                         |               | Dome                     |              | 58-20 ±3   | 89  | 20                      | 4.5k   | 8/4                       | 18 x 7 x 16                      | Blk.                                 | Blk. Knit         | 14                           | 189.00 Each       |                                     |
| SS-TS System             | Sat. & Ported Subwoof.                     | (2)6½   | 4                       | Cone                      | ½             | Dome                     |              | 25-40 ±3   | 90  | 20                      | 150,5k                                       | 8/4                       | Three Pieces                     | Blk.                                 | Blk. Knit         | 36                           | 779.00 Sys.       |                                     |
| SS 2001                  | Sealed Box                                 | 5¼  |                         | ½                         |               | Dome                     |              | 74-20 ±3   | 90  | 10                      | 4.5k   | 8/4                       | 6 x 12 x 6                       | Blk. Vnl.                            | Blk. Cloth        | 9                            | 199.00 Pair       |                                     |
| SS 2002                  | Sealed Box                                 | 6½  |                         | ½                         |               | Dome                     |              | 70-20 ±3   | 90  | 10                      | 3.5k   | 8/4                       | 9 x 14 x 8                       | Blk. Vnl.                            | Blk. Cloth        | 15                           | 279.00 Pair       |                                     |
| SS 2003                  | Sealed Box                                 | 8   |                         | 1                         |               | Dome                     |              | 50-25 ±3   | 90  | 10                      | 3k   | 8/4                       | 11 x 18 x 9                      | Blk. Vnl.                            | Blk. Cloth        | 21                           | 379.00 Pair       |                                     |
| SS 2004                  | Sealed Box                                 | 8   |                         | 1                         |               | Dome                     |              | 47-25 ±3   | 90  | 15                      | 3k   | 8/4                       | 11 x 33 x 9                      | Blk. Vnl.                            | Blk. Cloth        | 35                           | 479.00 Pair       |                                     |
| SS 2005                  | Sealed Box                                 | 8   | 5                       | Cone                      | 1             | Dome                     |              | 40-25 ±3   | 90  | 20                      | 400,3.5k                                     | 8/4                       | 11 x 22 x 12                     | Blk. Vnl.                            | Blk. Cloth        | 51                           | 949.00 Pair       |                                     |
| CS 3006                  | Ported                                     | 8   | 5                       | Cone                      | 1             | EMIT R                   |              | 55-35 ±3   | 86  | 30                      | 450,3k                                       | 8/4                       | 11 x 22 x 13                     | Opt.                                 | Blk. Cloth        | 26                           | 1049.00 Pair      |                                     |
| CS 3007                  | Ported                                     | (2)8  | 5                       | Cone                      | 1             | EMIT R                   |              | 50-35 ±3   | 87  | 30                      | 450,3k                                       | 8/4                       | 12 x 36 x 14                     | Opt.                                 | Blk. Cloth        | 54                           | 1399.00 Each      |                                     |
| CS 3008                  | Ported                                     | 10  | 5.6½                    | Cones                     | 1             | EMIT R                   |              | 45-45 ±3   | 87  | 40                      | 300,1.1k, 3k                                 | 8/4                       | 13 x 39 x 15                     | Opt.                                 | Blk. Cloth        | 63                           | 1899.00 Each      |                                     |
| CS 3009                  | Ported                                     | (2)10   | 5.6½                    | Cones                     | 1             | EMIT R                   |              | 40-35 ±3   | 87  | 40                      | 300,1.1k, 3k                                 | 8/4                       | 13 x 47 x 16                     | Opt.                                 | Blk. Cloth        | 76                           | 2599.00 Each      |                                     |
| RS 125                   | Sealed Box                                 | 5¼  |                         | ½                         |               | Dome                     |              | 74-20 ±3   | 90  | 10                      | 4.5k   | 8/4                       | 8 x 12 x 7                       | Opt., Vnl.                           | Blk. Cloth        | 7                            | 199.00 Pair       |                                     |
| RS 225                   | Sealed Box                                 | 6½  |                         | ½                         |               | Dome                     |              | 70-20 ±3   | 90  | 10                      | 3k   | 8/4                       | 9 x 14 x 8                       | Opt., Vnl.                           | Blk. Cloth        | 12                           | 249.00 Pair       |                                     |
| RS 325                   | Ported                                     | 6½  |                         | ¾                         |               | Dome                     |              | 65-25 ±3   | 92  | 20                      | 3.3k   | 8/4                       | 9 x 17 x 11                      | Opt., Vnl.                           | Blk. Cloth        | 14                           | 319.00 Pair       |                                     |
| (Continued) RS 425       | Pas. Rad.                                  | (2)6½   |                         | ¾                         |               | Dome                     |              | 58-25 ±3   | 92  | 20                      | 3.1k   | 8/4                       | 9 x 23 x 11                      | Opt., Vnl.                           | Blk. Cloth        | 21                           | 459.00 Pair       |                                     |

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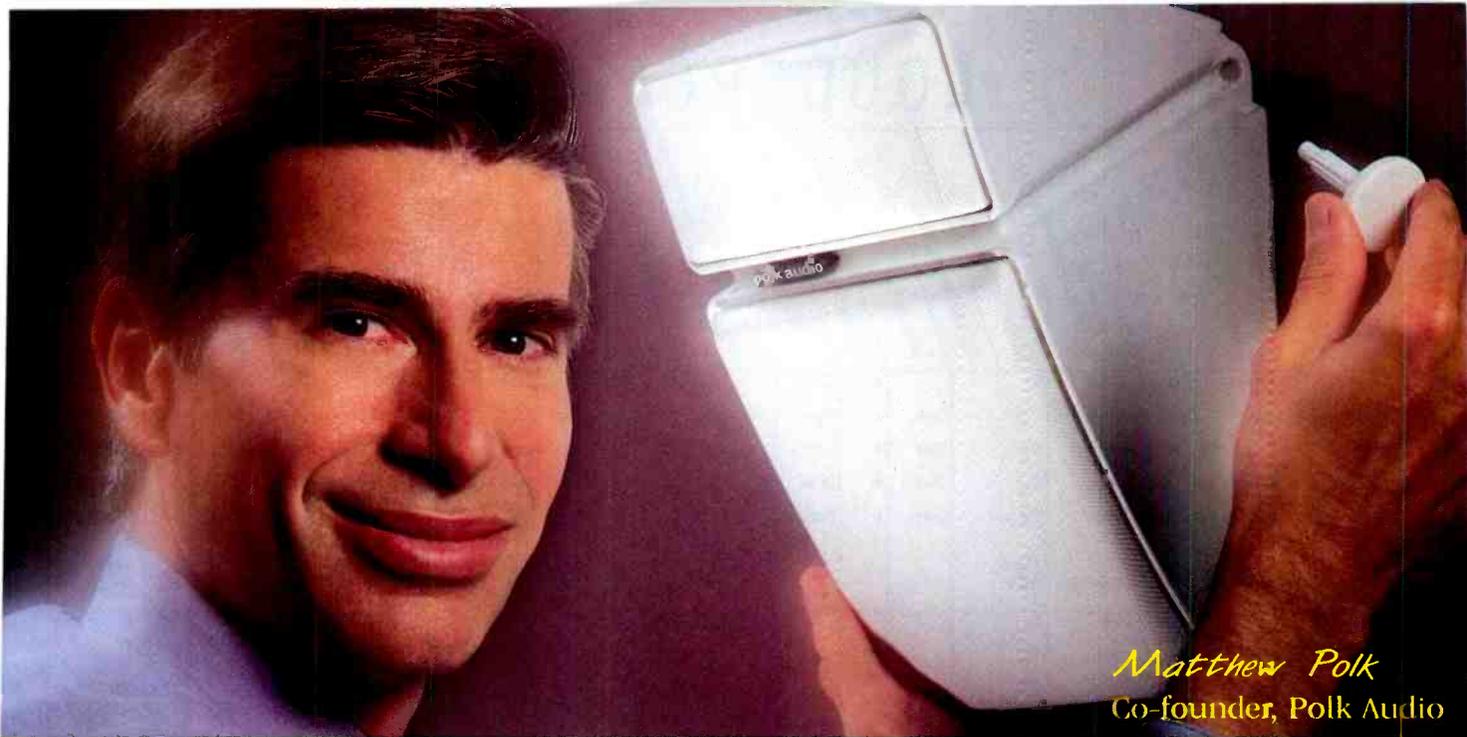
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# LOUDSPEAKERS

| MANUFACTURER         | Model                    | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer = W, Midrange = M, Tweeter = T, SuperTweeter = ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance Ohms Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish              | Grille Color and Material | Weight, Lbs. Each | Price, \$                  |
|----------------------|--------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|---|---|-------------------------|--|---------------------------|--------------------------------|--------------------------------------|---------------------|---------------------------|-------------------|----------------------------|
| INFINITY (Continued) | RS 525                   | Pas. Rad.   | (2)6½                   |                           |               | 1                        | Dome         |   | 52-25 ±3                                    | 92                      | 20   | 2.8k                      | 8/4                            | 9 x 32 x 12                          | Opt., Vnl.          | Bik. Cloth                | 33                | 299.00 Each                |
|                      | RS 625                   | Pas. Rad.   | (2)8                    |                           |               | 1                        | Dome         |   | 40-25 ±3                                    | 92                      | 25   | 2.8k                      | 8/4                            | 11 x 38 x 14                         | Opt., Vnl.          | Bik. Cloth                | 44                | 359.00 Each                |
|                      | RS Video                 | Ported  | (2)5¼                   |                           |               | 1                        | Dome         |   | 100-25 ±3                                   | 89                      | 20   | 2.2k                      | 8/4                            | 19 x 7 x 6                           | Opt., Vnl.          | Bik. Cloth                | 15                | 299.00 Each                |
|                      | RS 10 SUB                | Ported Subwoof.   | 10                      |                           |               |                          |              | W   | 40-200 ±3                                   |                         |  | 50-200 (Var.)             |                                | 13 x 13 x 13                         | Opt., Vnl.          | Bik. Cloth                | 34                | 699.00 Each                |
|                      | RS 12 SUB                | Ported Subwoof.   | 12                      |                           |               |                          |              | W   | 35-200 ±3                                   |                         |  | 50-200 (Var.)             |                                | 17 x 17 x 17                         | Opt., Vnl.          | Bik. Cloth                | 54                | 899.00 Each                |
|                      | Renaissance 80           | Sealed Box  | 8                       |                           | EMIM          |                          |              |   | 35-45 ±3                                    | 87                      | 75   | 550,3k                    | 8/4                            | 41 x 14 x 11                         | Opt.                | Bik. Cloth                | 65                | From 999.00 Each           |
|                      | Renaissance 90           | Sealed Box  | 10                      |                           | EMIM          |                          |              |   | 27-45 ±3                                    | 87                      | 75   | 200,600,3k                | 8/4                            | 49 x 17 x 12                         | Opt.                | Bik.                      | 80                | From 1599.00 Each          |
|                      | Infinitesimal Four       | Ported  | 5¼                      |                           |               |                          |              |   | 100-40 ±3                                   | 90                      | 10   | 5k                        | 8/4                            | 10 x 6 x 7                           | Bik. Struct. Foam   | Bik. Mtl.                 | 20                | 429.00 Pair                |
|                      | Infinitesimal Video      | Ported Ctr. Ch.   | (2)5¼                   |                           |               |                          |              |   | 100-40 ±3                                   | 90                      | 10   | 5k                        | 8/4                            |                                      | Bik. Vnl.           | Bik. Mtl.                 |                   | 329.00 Each                |
|                      | Infinitesimal SUB/SSW-10 | Ported Subwoof.   | 10                      |                           |               |                          |              | W   | 40-200 ±3                                   |                         |  | 50-200 (Var.)             |                                | 13 x 13 x 13                         | Bik. Vnl.           | Bik. Cloth                | 34                | 599.00 Each                |
|                      | Video One                | Ctr. Ch. Sat.   | 5½<br>4                 |                           |               | ½                        | Dome         |   | 58-20 ±3                                    | 89                      | 5  | 4.5k                      | 8/4                            | 18 x 7 x 5                           | Bik. Opt.           | Bik. Cloth                | 14                | 189.00 Each                |
|                      | Micro II Satellite       |   |                         |                           |               | ½                        | Dome         |   | 150-25 ±3                                   | 90                      | 25   | 5k                        | 8/4                            | 6 Dia. x 8                           | Bik. Opt.           | Bik. Cloth                | 4                 | 179.00 Each                |
|                      | Micro II System          | Sat. & Ported Subwoof.                                  | (2)6½                   | 4                         | Cone          | ½                        | Dome         |   | 25-40 ±3                                    | 90                      | 20   | 5k,150                    | 8/4                            | Three Pieces                         | Bik.                | Bik.                      | 36                | 779.00 Sys.                |
|                      | SSW-210                  | Sealed Box; Subwoof.                                    | (2)10                   |                           |               |                          |              | W   | 30-120 ±3                                   |                         |  | 40-120 (Var.)             |                                | 18 x 26 x 9                          | Opt.                | Bik.                      | 57                | 1098.00 Each               |
|                      | SSW-212                  | Sealed Subwoof.   | (2)12                   |                           |               |                          |              | W   | 25-120 ±3                                   |                         |  | 40-120 (Var.)             |                                | 20 x 31 x 11                         | Opt.                | Bik.                      | 71                | 1598.00 Each               |
| ERS 440              | In-Wall                  | 4   |                         |                           |               |                          |              | 90-15 ±3  | 85  | 8                       |  | 8/4                       | 7 x 7 x 3                      | Wht. ABS                             | Wht. Mtl.           | 3                         | 180.00 Pair       |                            |
| ERS 540              | In-Wall                  | 5¼  |                         |                           | ¾             | Dome                     |              | 75-22 ±3  | 85  | 10                      | 6k   | 8/4                       | 8 x 8 x 3                      | Wht. ABS                             | Wht. Mtl.           | 4                         | 250.00 Pair       |                            |
| ERS 640              | In-Wall                  | 6   |                         |                           | ¾             | Dome                     |              | 60-22 ±3  | 85  | 15                      | 3.8k   | 8/4                       | 13 x 9 x 3                     | Wht. ABS                             | Wht. Mtl.           | 5                         | 340.00 Pair       |                            |
| ERS 840              | In-Wall                  | 8   |                         |                           |               |                          |              | 50-45 ±3  | 85  | 20                      | 3.8k   | 8/4                       | 16 x 11 x 4                    | Wht. ABS                             | Wht. Mtl.           | 7                         | 580.00 Pair       |                            |
| IN-WALL AUDIO        | IWA808                   | In-Wall   | (2)8                    |                           |               | 1                        | Inv. Dome    |   | 35-25                                       | 92                      | 30   | 3.2k                      | 6/4                            | 48 x 14 x 4                          | Opt.                |                           | 80                | 1095.00 Pair               |
|                      | IWA800                   | In-Wall   | 8                       |                           |               | 1                        | Inv. Dome    |   | 40-25                                       | 89                      | 30   | 3.2k                      | 8/4                            | 36 x 14 x 4                          | Opt.                |                           | 70                | 890.00 Pair                |
|                      | IWA650 Retro Sub         | In-Wall Closed Box; Subwoof.                            | 6½<br>12                |                           |               | 1                        | Dome         |   | 60-22<br>25-120                             | 89<br>91                | 30   | 2.8k                      | 8/4<br>8/6                     | 24 x 14 x 4<br>25 x 14 x 12          | Opt.<br>Opt.        |                           | 60<br>40          | 580.00 Pair<br>649.00 Each |
|                      | Table Sub                | Subwoof.  | 12                      |                           |               |                          |              |   | 25-120                                      | 91                      | 30   |                           | 8/6                            | 18 x 18 x 20                         | Opt.                |                           | 40                | 649.00 Each                |
| ISLAND AUDIO         | Islander                 | Sealed, Outdoor   | 6½                      |                           |               | 1                        | Dome         | No  | 55-20 ±5                                    | 89                      | 50   |                           | 4/                             | 7 x 7 x 27                           | Matte Bik.          | Wire Mesh                 | 20                | 975.00 Pair                |
|                      | Islander Light           | Sealed, Outdoor   | 6½                      |                           |               | 1                        | Dome         | No  | 55-20 ±5                                    | 89                      | 50   |                           | 4/                             | 7 x 7 x 31                           | Matte Bik.          | Wire Mesh                 | 25                | 1450.00 Pair               |
| JACKSON LOUD-SPEAKER | AU-3                     | Air Sus.  | 5¼                      |                           |               | 1,¾                      | Domes        |   | 85-20 ±3                                    | 87                      | 30   | 2.5k,12k                  | 8/6                            | 14 x 7 x 7                           | Opt.                |                           | 11                | 949.00 Pair                |
|                      | AU-6                     | Hybrid, Pas. Rad.                                       | 6½,8                    |                           |               | 1,¾                      | Domes        |   | 48-20 ±3                                    | 87                      | 50   | 2k,10k                    | 8/6                            | 17 x 11 x 11                         | Opt.                |                           | 28                | 1849.00 Pair               |
|                      | AU-20                    | Hybrid, Pas. Rad. Subwoof.                              | 10,15                   |                           |               |                          |              |   | 33-100 ±3                                   | 90                      | 100  | 100                       | 8/6                            | 18 x 17 x 18                         | Opt.                |                           | 29                | 929.00 Each                |
| JAMO                 | 707                      | Bass Ref.   | (2)8                    | (2)5                      |               | 1                        | Dome         |   | 35-20 ±3                                    | 90                      | 70   | 150,3k                    | 8/6                            | 41 x 10 x 15                         | Mahog.              | Bik.                      | 51                | 1500.00 Pair               |
|                      | 507                      | Bass Ref.   | (2)6½                   | (2)4                      |               | 1                        | Dome         |   | 40-22 ±3                                    | 88                      | 150  | 150,3k                    | 8/6                            | 37 x 9 x 4                           | Mahog.              | Bik.                      | 42                | 1200.00 Pair               |
|                      | 407                      | Bass Ref.   | 6½                      | 1                         |               | 1                        | Dome         |   | 45-20 ±3                                    | 88                      | 80   | 300,10k                   | 8/6                            | 16 x 9 x 10                          | Mahog.              | Bik.                      | 15                | 700.00 Pair                |
|                      | 307                      | Bass Ref.   | 5¼                      |                           |               | 1                        | Dome         |   | 50-20 ±3                                    | 87                      | 70   | 3k                        | 8/6                            | 12 x 7 x 12                          | Mahog.              | Bik.                      | 11                | 500.00 Pair                |
|                      | Oriel                    | Bass Ref.   | (2)8¼                   | 6½                        | Honey-comb    | 1                        | Dome         |   | 20-22                                       | 87                      | 70   | 100,3k                    | 8/6                            | 70 x 16 x 12                         | Smoke Glass, Cherry | Gray Cloth                | 159               | 9000.00 Pair               |
|                      | Sidekick                 | Sat.; Surround  | 3¼                      |                           |               |                          |              |   | 100-20 ±3                                   | 90                      | 35   |                           | 4/                             | 5 x 5 x 4                            | Bik. Knit           |                           | 1                 | 59.00 Each                 |
|                      | Center 50                | Ctr. Ch.  | (2)4                    |                           | ¾             |                          | Dome         |   | 80-20 ±3                                    | 89                      | 60   | 3.5k                      | 8/3                            | 6 x 13 x 5                           | Bik.                |                           | 7                 | 149.00 Each                |
|                      | Center 100               | Ctr. Ch.  | (2)4                    |                           | 1             |                          | Dome         |   | 40-20                                       | 90                      | 40   | 3k                        | 8/                             | 17 x 4 x 7                           | Gray Alum.          | Mtl.                      | 13                | 189.00 Each                |
|                      | Center 200 Graphic       | Ctr. Ch. Wall-Mount                                     | (2)5<br>5¼              |                           |               | 1                        | Dome         |   | 70-20 ±3                                    | 90                      | 80   | 4k                        | 8/3                            | 8 x 21 x 5                           | Bik.                |                           | 12                | 399.00 Each                |
|                      | Professional 200         | Bass Ref.   | 10                      | 5                         | Horn          |                          | Dome         |   | 40-20                                       | 88                      | 35   | 3k                        | 8/                             | 15 x 3 x 17                          | Bik. Smoke Acryl.   | Opt., Cloth               | 7                 | 598.00 Pair                |
|                      | Professional 300         | Bass Ref.   | 12                      | 5                         | Horn          | (3)                      | Horns        |   | 35-20 ±3                                    | 92                      | 80   | 1.2k,6k                   | 8/3                            | 26 x 15 x 12                         | Bik.                |                           | 42                | 399.00 Each                |
|                      | Professional 400         | Bass Ref.   | 15                      | 5                         | Horn          | (5)                      | Horns        |   | 25-20 ±3                                    | 94                      | 180  | 900,4k                    | 8/3                            | 35 x 21 x 17                         | Bik.                |                           | 93                | 899.00 Each                |
|                      | Classic CL-20A           | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |   | 40-20 ±3                                    | 92                      | 40   | 3.5k                      | 8/3                            | 18 x 11 x 10                         | Opt.                |                           | 18                | 199.00 Each                |
|                      | Classic CL-25A           | Bass Ref.   | 8                       | 4                         | Cone          | 1                        | Dome         |   | 37-20 ±3                                    | 92.5                    | 50   | 2.5k,5k                   | 8/3                            | 21 x 11 x 10                         | Opt.                |                           | 25                | 249.00 Each                |
|                      | Classic CL-30A           | Bass Ref.   | 8                       | 4                         | Cone          | 1                        | Dome         |   | 35-20 ±3                                    | 92.5                    | 50   | 2.5k,5k                   | 8/3                            | 33 x 11 x 10                         | Opt.                |                           | 29                | 299.00 Each                |
|                      | BX 100                   | Bass Ref.   | 8                       | 3                         | Cone          | 1                        | Horn         |   | 40-20 ±3                                    | 91                      | 45   | 2k,4.2k                   | 8/3                            | 21 x 12 x 11                         | Bik.                |                           | 22                | 249.00 Each                |
|                      | BX 150                   | Bass Ref.   | 10                      | 3                         | Cone          | 1                        | Horn         |   | 35-20 ±3                                    | 92                      | 60   | 2.3k,5k                   | 8/3                            | 25 x 15 x 12                         | Bik.                |                           | 30                | 299.00 Each                |
|                      | BX 200                   | Bass Ref.   | 12                      | 3                         | Cone          | 1                        | Horn         |   | 30-20 ±3                                    | 93                      | 90   | 2k,3k                     | 8/3                            | 28 x 17 x 13                         | Bik.                |                           | 39                | 349.00 Each                |
|                      | Cornet 40                | Bass Ref.   | 5¼                      |                           |               | 1                        | Dome         |   | 50-20 ±3                                    | 89                      | 30   | 3k                        | 8/3                            | 12 x 8 x 9                           | Bik.                |                           | 8                 | 99.00 Each                 |
|                      | Cornet 50                | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         |   | 47-20 ±3                                    | 90                      | 35   | 1.5k,5k                   | 8/3                            | 15 x 9 x 9                           | Bik.                |                           | 6                 | 139.00 Each                |
| Cornet 60            | Bass Ref.                | 6½  | 3                       | Cone                      | 1             | Dome                     |              | 47-20 ±3  | 90  | 35                      | 1.5k,5k                                      | 8/3                       | 15 x 9 x 9                     | Bik.                                 |                     | 13                        | 149.00 Each       |                            |
| Cornet 70            | Bass Ref.                | (2)6½   |                         |                           | 1             | Dome                     |              | 43-20 ±3  | 90  | 40                      | 400,3k                                       | 8/3                       | 30 x 11 x 11                   | Bik.                                 |                     | 22                        | 199.00 Each       |                            |
| Cornet 75            | Bass Ref.                | 8   | 3                       | Cone                      | 1             | Dome                     |              | 40-20 ±3  | 91  | 55                      | 1.5k,4k                                      | 8/3                       | 34 x 11 x 10                   | Bik.                                 |                     | 22                        | 219.00 Each       |                            |
| Atmosphere Art       | Bass Ref. Wall-Mount     | 5¼<br>5¼  |                         |                           | 1             | Dome                     |              | 40-20 ±3  | 88  | 35                      | 3k   | 8/3                       | 15 x 10 x 6                    | Opt.                                 |                     | 8                         | 399.00 Each       |                            |
| (Continued)          | Silhouette               | Bass Ref.   | 5¼                      | 5¼                        | Cone          | 1                        | Dome         |   | 47-20 ±3                                    | 90                      | 35   | 300,4k                    | 8/3                            | 48 x 10 x 7                          | Opt.                | Bik.                      | 22                | 399.00 Each                |



*Matthew Polk*  
Co-founder, Polk Audio

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*Matthew Polk*

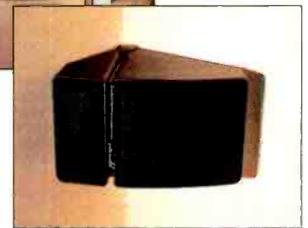
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# LOUDSPEAKERS

| MANUFACTURER        | Model                    | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls: Woofer-W, Midrange-M, Tweeter-T, Super Tweeter-ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish                     | Grille Color and Material | Weight, Lbs. Each | Price, \$                        |
|---------------------|--------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|----------------------------|---------------------------|-------------------|----------------------------------|
| JAMO<br>(Continued) | Converta                 | Bass Ref.   | 4                       |                           |               | 2                        | Cone         |  | 80-20 ±3                                    | 90                      | 30   | 2.5k                      | 8/3                              | 9 Dia                                | Opt., Mtl.                 | Bik. Mtl.                 | 5                 | 199.00 Each                      |
|                     | Compact System           | Sat. & Subwoof.   | (2)6½                   | 3½                        | Cone          | 2                        | Cone         |  | 45-20 ±3                                    | 90                      | 30   | 80,200, 2.5k              | 8/3                              | Three Pieces                         | Bik.                       | Bik. Mtl.                 | 27                | 349.00 Sys.                      |
|                     | SW 100 System            | Sat. & Subwoof.   | (2)6½                   | 4                         | Cone          | 2                        | Cone         |  | 35-20 ±3                                    | 90                      | 45   | 80,200, 4.5k              | 8/3                              | Three Pieces                         | Opt.                       | Opt.                      | 35                | 499.00 Sys.                      |
|                     | SW 300 System            | Sat. & Subwoof.   | (2)8                    | 4                         | Cone          | ¾                        | Dome         |  | 30-20 ±3                                    | 90                      | 45   | 80,200, 3.5k              | 8/3                              | Three Pieces                         | Opt.                       | Mtl.                      | 36                | 699.00 Sys.                      |
|                     | SW 500 System            | Sat. & Subwoof.   | (2)10                   | 4                         | Cone          | 1                        | Dome         |  | 30-20                                       | 90                      | 60   | 200,3.5k                  | 8/                               | Three Pieces                         | Bik. Ash Smoke Acryl. Bik. | Bik. Cloth                | 60                | 799.00 Sys.                      |
|                     | SW 160 SW 600            | Subwoof. Powered Subwoof.                               | (2)6½ (2)10             |                           |               |                          |              | W  | 35-200 ±3<br>30-150 ±3                      | 90<br>90                | 50<br>100                                    | Inc.<br>(Var.)            | 8/3                              | 8 x 14 x 19<br>16 x 13 x 21          | Bik. Bik.                  | Bik. Bik.                 | 29<br>55          | 449.00 Each<br>995.00 Each       |
| JANIS               | W1                       | Slot-Loaded Subwoof.                                    | 15                      |                           |               |                          |              |  | 30-100 ±1                                   | 87                      | 60   | 100                       | 8/7                              | 18 x 22 x 22                         | Oil. Wal.                  | Bik. Wood Bik.            | 100               | 850.00 Each                      |
|                     | W3                       | Slot-Loaded Subwoof.                                    | 12                      |                           |               |                          |              |  | 30-100 ±1                                   | 85                      | 60   | 100                       | 8/7                              | 18 x 18 x 18                         | Oil. Wal.                  | Wood Bik.                 | 67                | 600.00 Each                      |
|                     | System 3/A               | Powered Slot-Loaded Subwoof.                            | 12                      |                           |               |                          |              |  | 30-100 ±1                                   | 85                      | 50   | 100                       | 8/7                              | 18 x 18 x 18                         | Oil. Wal.                  | Wood Bik.                 | 87                | 995.00 Each                      |
| JASCO PRODUCTS      | 408                      | Sat. & Subwoof.   | (2)5½                   | 3¼                        | Cone          | 1¼                       | Dome         |  | 36-20                                       |                         |  |                           | 4/ & 8/                          | Three Pieces                         | Bik.                       | Bik. Mtl.                 | 21                | 199.99 Sys.                      |
|                     | 409                      | Ctr. Ch.  | (2)5¼                   |                           |               | 2                        | Dome         |  | 60-20                                       |                         |  |                           | 8/6                              | 17 x 6 x 6                           | Matte Gray                 | Bik. Mtl.                 | 7                 | 99.99 Each                       |
|                     | 415                      | Home Th.  | 5¼                      |                           |               | 2                        | Dome         |  | 50-20                                       |                         |  |                           | 6/4                              | 12 x 8 x 3                           | Opt. Bik.                  | Opt., Mtl.                | 4                 | 159.95 Pair                      |
|                     | 412                      | Home Th.  | 5                       |                           |               | 2                        | Dome         |  | 50-20                                       |                         |  |                           | 8/                               | 7 x 11 x 7                           | Bik. Bik.                  | Bik. Mtl.                 | 5                 | 99.99 Pair                       |
|                     | 413 449                  | Home Th. Surround                                       | 4¼ 4                    | 2                         |               | 1                        | Dome         |  | 80-15                                       |                         |  |                           | 8/ 6/                            | 8 x 7 x 7<br>8 x 5 x 4               | Bik. Bik. Opt.             | Bik. Mtl. Opt., Mtl.      | 4 3               | 59.99 Pair<br>19.95 Pair         |
| JBL                 | Synthesis 1              | THX   | 18                      |                           |               |                          |              |  |   |                         |  |                           |                                  | Seven Pieces                         |                            |                           |                   | 41,500. Sys. w/6 Amps & THX Unit |
|                     | Synthesis 2              | THX   | 15                      |                           |               |                          |              |  |   |                         |  |                           |                                  | Seven Pieces                         |                            |                           |                   | 29,500. Sys. w/4 Amps & EQ       |
|                     | Synthesis 3              | THX   | 12                      |                           |               |                          |              |  |   |                         |  |                           |                                  | Seven Pieces                         |                            |                           |                   | 19,500. Sys. w/4 Amps & EQ       |
|                     | HT Series (models below) | THX   |                         |                           |               |                          |              |  |   |                         |  |                           |                                  | (3) HT1FS, (2) HT1D, (2) HT1S        |                            |                           |                   | 3,000.00 Sys.                    |
|                     | HT1FS                    | A/V: Front Ch.; Tuned Port                              | 5                       | Cone                      | 1             | Cone                     |              |  | 70-20                                       | 87                      | 100  | 2.8k                      | 8/                               | 17 x 10 x 8                          | Bik. Vnl.                  | Gray Cloth                | 21                | 425.00 Each                      |
|                     | HT1D                     | Srrnd.; Tuned Port                                      | 5                       | Cone                      | 1             | Cone                     |              |  | 110-20                                      | 87                      | 100  | 2.8k                      | 6/                               | 14 x 9 x 8                           | Bik. Vnl.                  | Gray Cloth                | 15                | 825.00 Pair                      |
|                     | HT1S                     | Dipole Tuned Port Subwoof.                              | 12                      |                           |               |                          |              |  | 35-80                                       | 91                      | 100  |                           | 6/                               | 21 x 25 x 18                         | Bik. Vnl.                  | Gray Cloth                | 62                | 525.00 Each                      |
|                     | Sound Effects Music 1    | 2 Sats. & 2 Subs.                                       | 5½                      | 3½                        | Cone          | ¾                        | Dome         |  | 40-20 ±3                                    | 88                      | 10   | 150,3k                    | 8/5                              | Four Pieces                          | Gray                       | Gray Mtl.                 |                   | 869.00 Sys.                      |
|                     | Sound Effects Movies 1   | Ctr. Ch. & 2 Srrnd.                                     | 3½                      |                           | Cone          | ¾                        | Dome         |  | 120-20 ±3                                   | 90                      | 10   | 3k                        | 8/5                              | Three Pieces                         | Gray                       | Gray Mtl.                 |                   | 299.00 Sys.                      |
|                     | Sound Effects Music 2    | Sat. & Powered Subwoof.                                 | (2)5¼                   | (2)3½                     | Cones         |                          | Dome         |  | 40-20 ±3                                    | 90                      | 10   | 120,3.5k                  | 8/5                              | Three Pieces                         | Gray                       | Gray Knit                 |                   | 949.99 Sys. w/Amp                |
|                     | Sound Effects Movies 2   | Ctr. Ch. & 2 Srrnd.                                     | (4)3½                   |                           | Cones         |                          | Dome         |  | 120-20 ±3                                   | 90                      | 10   | 3.5k                      | 8/5                              | Three Pieces                         | Gray                       | Gray Knit                 |                   | 599.00 Sys.                      |
|                     | Sound Effects Center     | Ctr. Ch.  | (2)3½                   |                           |               | ¾                        | Dome         |  | 120-20 ±3                                   | 90                      | 10   | 3.5k                      | 8/5                              | 4 x 14 x 8                           | Gray                       | Gray Knit                 |                   | 259.00 Each                      |
|                     | Sound Effects Surrounds  | Rear Ch.  | 3½                      | Cone                      |               |                          |              |  | 120-20 ±3                                   | 90                      | 10   |                           | 8/5                              | 7 x 7 x 3                            | Opt.                       | Opt.                      |                   | 129.00 Pair                      |
|                     | Sound Effects Sat 2      |   | (2)3½                   |                           |               | ¾                        | Dome         |  | 120-20 ±3                                   | 90                      | 10   | 3.5k                      | 8/5                              | 14 x 4 x 6                           | Gray                       | Gray Knit                 |                   | 399.00 Pair                      |
|                     | MR 25                    | Tuned Port  | 5                       |                           |               | ¾                        | Dome         |  | 70-20 +0,-6                                 | 87                      | 10   | 4.5k                      | 8/                               | 12 x 8 x 9                           | Bik. Vnl.                  | Bik. Knit                 | 8                 | 89.95 Each                       |
|                     | MR 26                    | Tuned Port  | 6½                      |                           |               | ¾                        | Dome         |  | 55-20 +0,-6                                 | 88                      | 10   | 4.5k                      | 8/                               | 15 x 9 x 10                          | Bik. Vnl.                  | Bik. Knit                 | 12                | 119.95 Each                      |
|                     | MR 28                    | Tuned Port  | 8                       |                           |               | ½                        | Dome         |  | 50-20 +0,-6                                 | 90                      | 10   | 3.5k                      | 8/                               | 19 x 10 x 10                         | Bik. Vnl.                  | Bik. Knit                 | 18                | 149.95 Each                      |
|                     | MR 38                    | Tuned Port  | 8                       | 6½                        | Cone          | ½                        | Dome         |  | 45-20 +0,-6                                 | 92                      | 10   | 3.5k                      | 8/                               | 24 x 10 x 12                         | Bik. Vnl.                  | Bik. Knit                 | 25                | 199.95 Each                      |
|                     | MRV 308                  | A/V: Tuned Port   | 8                       | 6½                        | Cone          | ½                        | Dome         |  | 42-20 +0,-6                                 | 92                      | 10   | 3.5k                      | 8/                               | 32 x 10 x 12                         | Bik. Vnl.                  | Bik. Knit                 | 28                | 249.95 Each                      |
|                     | MRV 310                  | A/V: Tuned Port   | 10                      | 6½                        | Cone          | ½                        | Dome         |  | 40-20 +0,-6                                 | 92                      | 10   | 3.5k                      | 8/                               | 36 x 12 x 12                         | Bik. Vnl.                  | Bik. Knit                 | 32                | 349.95 Each                      |
|                     | M Center                 | Ctr. Ch.  | (2)3½                   |                           |               | ¾                        | Dome         |  | 80-20 +0,-6                                 | 87                      | 10   | 4.5k                      | 8/                               | 5 x 14 x 7                           | Bik. Vnl.                  | Bik. Knit                 | 7                 | 149.95 Each                      |
|                     | M 5                      | Tuned Port  | 5                       |                           |               | 2                        | Cone         |  | 75-20 +0,-6                                 | 86                      | 10   | 2.2k                      | 8/                               | 11 x 7 x 7                           | Bik. Vnl.                  | Bik. Knit                 | 7                 | 69.95 Each                       |
|                     | J 520M                   | Tuned Port  | 5                       |                           |               | ¾                        | Dome         |  | 70-20 +0,-6                                 | 87                      | 10   | 4.5k                      | 8/                               | 12 x 8 x 9                           | Bik. Vnl.                  | Bik. Knit                 | 8                 | 89.95 Each                       |
|                     | J 620M                   | Tuned Port  | 6½                      |                           |               | ¾                        | Dome         |  | 55-20 +0,-6                                 | 88                      | 10   | 4.5k                      | 8/                               | 15 x 9 x 10                          | Bik. Vnl.                  | Bik. Knit                 | 12                | 119.95 Each                      |
|                     | J 820M                   | Tuned Port  | 8                       |                           |               | ½                        | Dome         |  | 50-20 +0,-6                                 | 90                      | 10   | 3.5k                      | 8/                               | 19 x 10 x 10                         | Bik. Vnl.                  | Bik. Knit                 | 18                | 149.95 Each                      |
|                     | J 830M                   | Tuned Port  | 8                       | 6½                        | Cone          | ½                        | Dome         |  | 45-20 +0,-6                                 | 92                      | 10   | 3.5k                      | 8/                               | 24 x 10 x 12                         | Bik. Vnl.                  | Bik. Knit                 | 25                | 199.95 Each                      |
|                     | J 900MV                  | A/V: Tuned Port   | 8                       | 6½                        | Cone          | ½                        | Dome         |  | 42-20 +0,-6                                 | 92                      | 10   | 3.5k                      | 8/                               | 32 x 10 x 12                         | Bik. Vnl.                  | Bik. Knit                 | 28                | 249.95 Each                      |
| J 1000MV            | A/V: Tuned Port          | 10  | 6½                      | Cone                      | ½             | Dome                     |              | 40-20 +0,-6  | 92  | 10                      | 3.5k   | 8/                        | 36 x 12 x 12                     | Bik. Vnl.                            | Bik. Knit                  | 32                        | 349.95 Each       |                                  |
| J 50                | Tuned Port               | 5   |                         |                           | 2             | Cone                     |              | 75-20 +0,-6  | 86  | 10                      | 2.2k   | 8/                        | 11 x 7 x 7                       | Bik. Vnl.                            | Bik. Knit                  | 7                         | 69.95 Each        |                                  |
| J Center            | Ctr. Ch.                 | (2)3½   |                         |                           | ¾             | Dome                     |              | 80-20 +0,-6  | 87  | 10                      | 4.5k   | 8/                        | 5 x 14 x 7                       | Bik. Vnl.                            | Bik. Knit                  | 7                         | 149.95 Each       |                                  |
| PS60                | Powered Subwoof.         | 6½  |                         |                           |               |                          |              | 32-250   |   | 50                      | 50-200 (Var.)                                |                           | 11 x 14 x 7                      | Bik. Vnl.                            | Gray Cloth                 | 19                        | 479.95 Each       |                                  |
| PS100               | Powered Subwoof.         | 10  |                         |                           |               |                          |              | 30-250   |   | 50                      | 50-200 (Var.)                                |                           | 14 x 17 x 9                      | Bik. Vnl.                            | Gray Cloth                 | 32                        | 599.95 Each       |                                  |
| PS120               | Powered Subwoof.         | 12  |                         |                           |               |                          |              | 23-250   |   | 100                     | 50-200 (Var.)                                |                           | 15 x 19 x 10                     | Bik. Vnl.                            | Gray Cloth                 | 36                        | 699.95 Each       |                                  |
| SC305               | Ctr. Ch.                 | (2)5  |                         |                           | ½             | Dome                     |              | 100-20   | 87  |                         | 2.7k   | 8/                        | 7 x 20 x 6                       | Bik. Vnl.                            | Gray Cloth                 | 14                        | 199.95 Each       |                                  |
| L1                  | Tuned Port               | 6½  |                         |                           | 1             | Dome                     |              | 47-27 ±6   | 87  | 35                      | 3k   | 8/                        | 16 x 8 x 10                      | Bik. Ash                             | Charc.                     | 16                        | 299.95 Each       |                                  |
| L3                  | Tuned Port               | 8   |                         |                           | 1             | Dome                     |              | 35-27 ±6   | 89  | 35                      | 3k   | 8/                        | 33 x 10 x 12                     | Bik. Ash                             | Charc.                     | 37                        | 449.95 Each       |                                  |
| L5                  | Tuned Port               | 8   | 5,6½                    | Cones                     | 1             | Dome                     |              | 35-27  | 90  | 35                      | 170,900, 4k                                  | 6/                        | 37 x 10 x 13                     | Bik. Ash                             | Charc.                     | 54                        | 669.95 Each       |                                  |
| (Continued)         | L7                       | Tuned Port  | 12                      | 5,8                       | Cones         | 1                        | Dome         |  | 30-27 ±6                                    | 91                      | 35   | 180,900, 4k               | 6/                               | 46 x 10 x 18                         | Bik. Ash                   | Charc.                    | 75                | 999.95 Each                      |

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# LOUDSPEAKERS

| MANUFACTURER       | Model           | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=M, Tweeter=T, Superwoofer=ST | Amplifier Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish     | Grille Color and Material | Weight, Lbs. Each | Price, \$    |             |
|--------------------|-----------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------|---------------------------|-------------------|--------------|-------------|
| JBL<br>(Continued) | LX300           | Tuned Port  | 6½                      |                           |               | 1                        | Dome         |  | 50-23  | 90                      | 10   | 2.7k                      | 8/                               | 16 x 9 x 10                          | Blk. Vnl.  | Blk. Knit                 | 18                | 199.95 Each  |             |
|                    | LX440           | Tuned Port  | 8                       |                           |               | 1                        | Dome         |  | 45-23  | 90                      | 150  | 2.4k                      | 8/                               | 21 x 11 x 13                         | Blk. Vnl.  | Gray Cloth                | 30                | 259.95 Each  |             |
|                    | LX500           | Tuned Port  | 8                       | 5                         | Cone          | 1                        | Dome         |  | 45-23  | 90                      | 10   | 750,3.4k                  | 8/                               | 24 x 11 x 13                         | Blk. Vnl.  | Blk. Knit                 | 34                | 319.95 Each  |             |
|                    | LX600           | Tuned Port  | 10                      | 5                         | Cone          | 1                        | Dome         |  | 40-23  | 91                      | 10   | 800,4.7k                  | 8/                               | 26 x 13 x 12                         | Blk. Vnl.  | Blk. Knit                 | 39                | 429.95 Each  |             |
|                    | Pro Performer   |   | 4½                      |                           |               | 1                        | Dome         |  | 100-18                                       | 88                      | 10   |                           | 6/                               | 6 x 6 x 5                            | Matte Blk. | Blk.                      | 4                 | 199.95 Pair  |             |
|                    | Pro III         | A/V; Tuned Port   | 5                       |                           |               | 1                        | Dome         |  | 65-27  | 87                      | 10   | 3k                        | 4/                               | 9 x 6 x 6                            | Blk.       | Blk.                      | 4                 | 299.95 Pair  |             |
|                    | Pro III Plus    | Sat. & Subwoof.   | 8                       | 5                         | Cone          | 1                        | Dome         |  | 35-27  | 90                      | 10   | 125,3k                    | 4/                               | Three Pieces                         | Blk.       | Blk.                      | 42                | 659.95 Sys.  |             |
| Pro VIII           | Tuned Port      | 6½  |                         |                           | 1             | Dome                     |              | 55-27 ±3   | 90   | 10                      | 3k   | 6/5                       | 15 x 10 x 9                      | Poly. & Rubber                       | Blk. Mtl.  | 10                        | 425.95 Pair       |              |             |
| A/VP3              | A/V; Tuned Port | 5   |                         |                           | 1             | Dome                     |              | 65-27  | 87   | 10                      | 3k   | 4/                        | 9 x 6 x 6                        | Blk.                                 | Blk.       | 13                        | 169.95 Each       |              |             |
| S-3                | In-Wall         | 5¼  |                         |                           | 1             | Dome                     |              | 125-22   | 86   | 10                      |  | 4/                        | 10 x 7 x 4                       | Wht.                                 | Wht.       | 7                         | 224.95 Pair       |              |             |
| S-4                | In-Wall         | 6¼  |                         |                           | 1             | Dome                     |              | 125-22   | 88   | 10                      |  | 4/                        | 12 x 9 x 4                       | Wht.                                 | Wht.       | 8                         | 299.95 Pair       |              |             |
| JENSEN             | CS312           | Bass Ref  | 12                      | 5                         | Cone          | 3                        | Cone         |  | 46-20 ±3                                     | 92                      | 10   |                           | 8/6                              | 31 x 14 x 10                         | Oak Vnl.   | Blk. Knit                 | 10                | 259.00 Pair  |             |
|                    | 1525            | Indoor/ Outdoor   | 5¼                      |                           |               | 2                        | Cone         |  | 80-20 ±3                                     | 89                      | 10   | 7k                        | 8/6                              | 11 x 6 x 5                           | Blk. Poly. | Blk. Mtl.                 |                   | 129.00 Pair  |             |
|                    | CS315           | Bass Ref.   | 15                      | 5                         | Cone          | 3                        | Cone         |  | 41-20 ±3                                     | 90                      | 10   |                           | 8/6                              | 34 x 17 x 11                         | Oak Vnl.   | Blk. Knit                 |                   | 199.00 Each  |             |
|                    | CS310           | Bass Ref.   | 10                      |                           | Cone          | 3                        | Cone         |  | 48-20 ±3                                     | 91                      | 10   |                           | 8/6                              | 28 x 12 x 9                          | Oak Vnl.   | Blk. Knit                 |                   | 159.00 Pair  |             |
|                    | CS308           | Bass Ref.   | (2)8                    |                           | Cone          | 3                        | Cone         |  | 45-20 ±3                                     | 94                      | 10   |                           | 6/                               | 38 x 10 x 13                         | Oak Vnl.   | Blk. Knit                 |                   | 179.00 Each  |             |
|                    | CS265           | Ac. Sus.  | 6½                      |                           | Cone          | 3                        | Cone         |  | 60-20 ±3                                     | 89                      | 10   |                           | 8/6                              | 16 x 9 x 6                           | Oak Vnl.   | Blk. Knit                 |                   | 129.00 Pair  |             |
|                    | CS225           | Ctr. Ch.  | (2)5                    |                           | Cone          | 2                        | Cone         |  | 70-20 ±3                                     | 94                      | 10   |                           | 8/6                              | 18 x 5 x 5                           | Blk. Ash   | Blk. Knit                 | 7                 | 99.00 Each   |             |
|                    | JPS45           | Powered   | 3¼                      |                           |               | 2                        | Cone         |  |  |                         |  | Inc.                      |                                  |                                      | 10 x 4 x 5 | Gray Vnl.                 | Gray              | 4            | 149.00 Pair |
|                    | JPS35           | Powered   | 3¼                      |                           |               |                          |              |  | 280-20 +0,-3                                 |                         |  | Inc.                      |                                  | 6 x 4 x 5                            | Gray       | Gray                      | 3                 | 99.00 Pair   |             |
|                    | JPS25           | Powered   | 2½                      |                           |               |                          |              |  | 120-20 +0,-3                                 | 86                      |  |                           | 6/                               | 5 x 4 x 4                            | Gray       | Gray                      |                   | 59.00 Pair   |             |
| JPS40              |                 | 3¼  |                         |                           | 2             | Cone                     |              | 140-20 +0,-3   | 84   |                         |  | 6/                        | 10 x 4 x 5                       | Gray                                 | Gray       |                           | 59.00 Pair        |              |             |
| JPS30              |                 | 3¼  |                         |                           |               |                          |              |  |  |                         |  | 6/                        | 6 x 4 x 5                        | Gray                                 | Gray       |                           | 39.00 Pair        |              |             |
| JMLab              | Elite           | Sealed  | 4¼                      |                           |               | 1                        | Inv. Dome    |  | 100-20                                       | 90                      | 30   | 4.5k                      | 8/4                              | 9 x 7 x 4                            | Opt.       | Blk. Knit                 | 5                 | 595.00 Pair  |             |
|                    | Axis            | Bass Ref.   | 5¼                      |                           |               | 1                        | Inv. Dome    |  | 60-20  | 89                      | 35   | 3.5k                      | 8/4                              | 7 x 17 x 5                           | Opt.       | Blk. Knit                 | 11                | 395.00 Each  |             |
|                    | Centris         | Bass Ref.   | (2)6                    |                           |               | 1                        | Inv. Dome    |  | 50-23  | 91                      | 40   | 3k                        | 8/4                              | 10 x 22 x 11                         | Opt.       | Blk. Knit                 | 31                | 795.00 Each  |             |
|                    | SW 21P          | Bass Ref. Subwoof.                                      | 8                       |                           |               |                          |              |  | 45-130                                       | 90                      | 50   | 130                       | 6/4                              | 10 x 20 x 14                         | Opt.       |                           | 30                | 595.00 Each  |             |
|                    | SW 21A          | Powered Subwoof.  | 8                       |                           |               |                          |              |  | 40-160                                       | 80                      | 80   | 45-160                    |                                  | 10 x 20 x 14                         | Opt.       |                           | 36                | 995.00 Each  |             |
|                    | SW 31A          | Powered Subwoof.  | 12                      |                           |               |                          |              |  | 30-160                                       | Inc. 130                | Inc.   | 45-160                    |                                  | 16 x 27 x 19                         | Opt.       |                           | 78                | 1995.00 Each |             |
|                    | Symbol I        | Bass Ref.   | 6½                      |                           |               | 1                        | Inv. Dome    |  | 65-19  | 90                      | 30   | 3.8k                      | 8/4                              | 14 x 8 x 9                           | Blk.       | Blk. Knit                 | 11                | 495.00 Pair  |             |
|                    | Symbol II       | Bass Ref.   | 7                       |                           |               | 1                        | Inv. Dome    |  | 60-19  | 91                      | 30   | 3.8k                      | 8/4                              | 17 x 9 x 10                          | Blk.       | Blk. Knit                 | 16                | 650.00 Pair  |             |
|                    | Micron          | Bass Ref.   | 5¼                      |                           |               | 1                        | Inv. Dome    |  | 60-23  | 89                      | 30   | 3k                        | 8/4                              | 12 x 8 x 8                           | Opt.       | Blk. Knit                 | 11                | 695.00 Pair  |             |
|                    | Megane          | Bass Ref.   | 7                       |                           |               | 1                        | Inv. Dome    |  | 55-23  | 91                      | 30   | 3.5k                      | 8/4                              | 16 x 9 x 10                          | Opt.       | Blk. Knit                 | 19                | 1095.00 Pair |             |
|                    | PS 2.1          | Bass Ref.   | 5¼                      |                           |               | 1                        | Inv. Dome    |  | 60-23  | 89                      | 40   | 3.2k                      | 8/4                              | 12 x 10 x 8                          | Opt.       | Blk. Knit                 | 16                | 1395.00 Pair |             |
|                    | PS 5.1          | Bass Ref.   | (2)5¼                   |                           |               | 1                        | Inv. Dome    |  | 60-23  | 92                      | 40   | 2.6k                      | 8/4                              | 19 x 10 x 9                          | Opt.       | Blk. Knit                 | 26                | 1995.00 Pair |             |
|                    | PS 10           | Sealed Subwoof.   | 10                      |                           |               |                          |              |  | 40-120                                       | 90.5                    | 50   | 120                       | 8/4                              | 20 x 13 x 15                         | Opt.       | Blk. Knit                 | 39                | 1295.00 Pair |             |
|                    | Opal 9          | Bass Ref.   | 7                       |                           |               | 1                        | Inv. Dome    |  | 55-20  | 92                      | 30   | 3.5k                      | 8/4                              | 17 x 10 x 11                         | Opt.       | Blk. Knit                 | 20                | 850.00 Pair  |             |
|                    | Opal 19         | Bass Ref.   | 8¼                      |                           |               | 1                        | Inv. Dome    |  | 52-20  | 93.5                    | 30   | 3.5k                      | 8/4                              | 21 x 12 x 13                         | Opt.       | Blk. Knit                 | 25                | 1050.00 Pair |             |
|                    | Opal 29         | Bass Ref.   | 8¼                      | 8¼                        | Cone          | 1                        | Inv. Dome    |  | 47-20  | 93                      | 30   | 150,3.5k                  | 8/6                              | 25 x 12 x 12                         | Opt.       | Blk. Knit                 | 31                | 1295.00 Pair |             |
|                    | Daline 3.1      | Trans. Line   | 5¼                      |                           |               | 1                        | Inv. Dome    |  | 40-23  | 89                      | 40   | 3k                        | 8/4                              | 38 x 7 x 9                           | Opt.       | Blk. Knit                 | 37                | 1295.00 Pair |             |
|                    | Daline 6.1      | Trans. Line   | 6                       | 6                         | Cone          | 1                        | Inv. Dome    |  | 35-23  | 90                      | 40   | 500,3k                    | 8/6                              | 45 x 8 x 11                          | Opt.       | Blk. Knit                 | 49                | 2295.00 Pair |             |
|                    | Profil 3        | Bass Ref.   | 5¼                      |                           |               | 1                        | Inv. Dome    |  | 52-20  | 91                      | 35   | 3k                        | 8/4                              | 33 x 7 x 8                           | Opt.       | Blk. Knit                 | 23                | 995.00 Pair  |             |
|                    | Profil 5B       | Bass Ref.   | 5¼                      | 5¼                        | Cone          | 1                        | Inv. Dome    |  | 48-20  | 92                      | 35   | 3k                        | 8/4                              | 36 x 7 x 8                           | Opt.       | Blk. Knit                 | 25                | 1295.00 Pair |             |
| Profil 7           | Bass Ref.       | 7   | 7                       | Cone                      | 1             | Inv. Dome                |              | 45-20  | 92   | 35                      | 300,3.5k                                     | 8/4                       | 39 x 9 x 10                      | Opt.                                 | Blk. Knit  | 40                        | 1795.00 Pair      |              |             |
| 908.1 Spectral     | Bass Ref.       | (2)7  | 4¼                      | Cone                      | 1             | Inv. Dome                |              | 40-23  | 92.5   | 50                      | 600,3.5k                                     | 8/4                       | 39 x 10 x 13                     | Oak & Blk.                           | Blk. Knit  | 66                        | 3295.00 Pair      |              |             |
| 913.1 Spectral     | Bass Ref.       | (2)8¼   | 5                       | Cone                      | 1             | Inv. Dome                |              | 35-25  | 93.5   | 60                      | 500,3.5k                                     | 8/4                       | 44 x 12 x 15                     | Oak & Blk.                           | Blk. Knit  | 86                        | 4295.00 Pair      |              |             |
| 702 LE             | Bass Ref.       | 7   | 7                       | Cone                      | 1             | Inv. Dome                |              | 45-20  | 92   | 50                      | 150,3.5k                                     | 8/4                       | 34 x 9 x 10                      | Wal.                                 | Blk. Knit  | 42                        | 1995.00 Pair      |              |             |
| 708 LE             | Bass Ref.       | (2)7  | 5                       | Cone                      | 1             | Inv. Dome                |              | 40-20 +0,-3  | 92.5   | 60                      | 150,650,4k                                   | 8/4                       | 37 x 11 x 12                     | Wal.                                 | Blk. Knit  | 49                        | 2595.00 Pair      |              |             |
| Vega               | Bass Ref.       | 10  | 5                       | Cone                      | 1             | Inv. Dome                |              | 35-25  | 92   | 70                      | 200,3k                                       | 6/4                       | 40 x 14 x 16                     | Oak & Blk.                           | Blk. Knit  | 102                       | 5995.00 Pair      |              |             |
| Utopia             | Bass Ref.       | 10  | (2)5                    | Cones                     | 1             | Inv. Dome                |              | 27-25  | 93   | 75                      | 120,2.5k                                     | 6/3                       | 48 x 13 x 16                     | Oak & Blk.                           | Blk. Knit  | 179                       | 8795.00 Pair      |              |             |
| Alcor              | Bass Ref.       | 12  | (2)5                    | Cones                     | 1             | Inv. Dome                |              | 27-25  | 92.5   | 75                      | 300,2.5k                                     | 6/4                       | 48 x 16 x 18                     | Oak & Blk.                           | Blk. Knit  | 188                       | 11,000. Pair      |              |             |
| JOSEPH AUDIO       | RM7si           | Inf. Slope  | 6½                      |                           |               | 1                        | Dome         |  | 55-20 ±2                                     | 88                      | 20   | 2k                        | 8/6                              | 15 x 9 x 11                          | Opt.       | Blk. Knit                 | 25                | 1199.00 Pair |             |
|                    | RM20ti          | Inf. Slope  | 8                       |                           |               | 1                        | Dome         |  | 38-20 ±2                                     | 89                      | 10   | 2k                        | 8/6                              | 36 x 11 x 13                         | Opt.       | Blk. Knit                 | 65                | 2099.00 Pair |             |
|                    | RM50si          | Inf. Slope  | 10                      | 5                         | Cone          | 1                        | Dome         |  | 20-20 ±1.5                                   | 88                      | 20   | 120,2k                    | 8/6                              | 46 x 13 x 18                         | Opt.       | Blk. Knit                 | 130               | 5999.00 Pair |             |
| JPW<br>(Continued) | Ruby 1          | Inf. Baf.   | 5                       |                           |               | 1                        | Dome         |  | 55-22  | 87                      | 35   |                           | 6/                               | 13 x 7 x 9                           | Opt., Wood | Blk.                      | 13                | 1095.00 Pair |             |
|                    | Ruby 2          | Inf. Baf.   | 7                       |                           |               | 1                        | Dome         |  | 50-22  | 88                      | 40   |                           | 6/                               | 17 x 9 x 10                          | Opt., Wood | Blk.                      | 19                | 1595.00 Pair |             |
|                    | Ruby 3          | Inf. Baf.   | 5                       | 5                         | Cone          | 1                        | Dome         |  | 55-22  | 87                      | 50   |                           | 6/                               | 29 x 7 x 9                           | Opt., Wood | Blk.                      | 29                | 2295.00 Pair |             |

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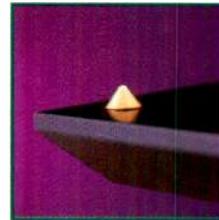
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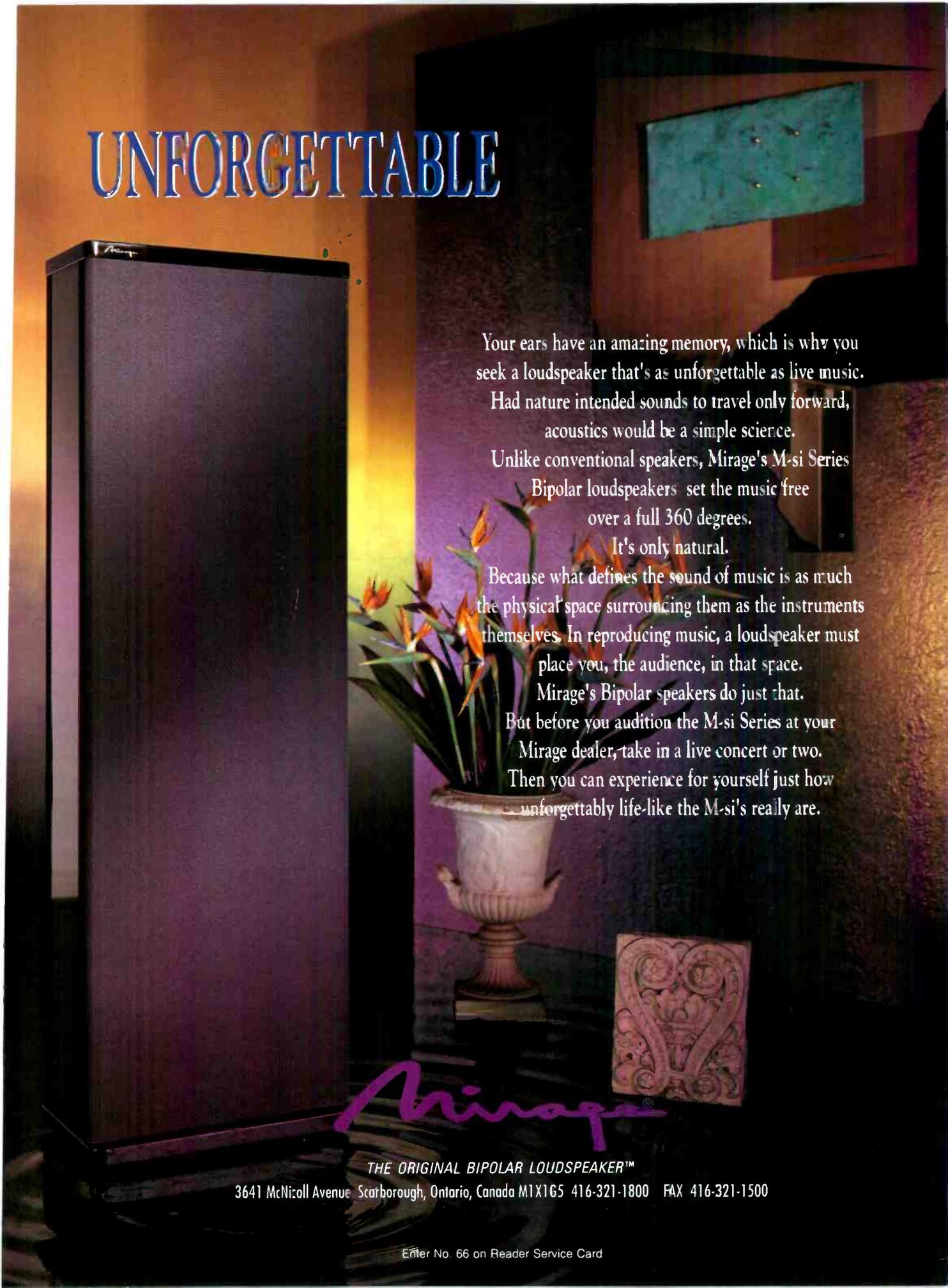
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# LOUDSPEAKERS

| MANUFACTURER              | Model                     | Application, Design Principle, Enclosure or System Type | Woofer Diameter, inches | Midrange Diameter, inches | Midrange Type | Tweeter Diameter, inches | Tweeter Type | Separate Level Controls? Woofer = W, Midrange = M, Tweeter = T, Super Tweeter = ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish          | Grille Color and Material | Weight, Lbs. Each | Price, \$            |
|---------------------------|---------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|---------------------------------|--------------------------------------|-----------------|---------------------------|-------------------|----------------------|
| KEF (Continued)           | Q50                       | Vented  | 6½                      |                           |               | ¾                        | Dome         |  | 45-20 ±3                                    | 89                      | 20   | 2.5k                      | 6/4                             | 36 x 8 x 11                          | Opt.            | Blk. Knit                 | 34                | 700.00 Pair          |
|                           | Q30                       | Vented  | 6½                      |                           |               | ¾                        | Dome         |  | 50-20 ±3                                    | 88                      | 20   | 2.5k                      | 6/4                             | 32 x 8 x 11                          | Opt.            | Bik. Knit                 | 24                | 500.00 Pair          |
|                           | Q10                       | Vented  | 6½                      |                           |               | ¾                        | Dome         |  | 55-20 ±3                                    | 88                      | 20   | 2.5k                      | 6/4                             | 11 x 8 x 10                          | Opt.            | Bik. Knit                 | 11                | 300.00 Pair          |
|                           | CR200F                    | In-Wall/In-Ceiling                                      | 8                       |                           |               | 1                        | Dome         |  | 55-22 ±2                                    | 90                      | 10   | 2.5k                      | /4                              | 13 x 10 x 4                          | Wht.            | Wht. Mtl.                 | 5                 |                      |
|                           | CR160S                    | Coaxial; In-Wall/In-Ceiling                             | 6½                      |                           |               | ¾                        | Dome         |  | 60-20 ±2                                    | 88                      | 10   | 3k                        | /4                              | 9 x 9 x 4                            | Wht.            | Wht. Mtl.                 | 4                 |                      |
|                           | CR160R                    | Coaxial; In-Wall/In-Ceiling                             | 6½                      |                           |               | ¾                        | Dome         |  | 60-20 ±2                                    | 88                      | 10   | 3k                        | /4                              | 9 Dia. x 4                           | Wht.            | Wht. Mtl.                 | 4                 |                      |
|                           | CR250SW                   | Coaxial; In-Wall/In-Ceiling                             | 10                      |                           |               |                          |              |  | 32-150 ±2                                   | 90                      | 10   | 150                       | /4                              | 13 x 10 x 4                          | Wht.            | Wht. Mtl.                 | 8                 |                      |
| KENWOOD                   | CR200Q                    | Coaxial; In-Wall/In-Ceiling                             | 8                       |                           |               | 1                        | Dome         |  | 50-20 ±2                                    | 92                      | 25   | 3k                        | /4                              | 10 x 10 x 4                          | Wht.            | Wht. Mtl.                 | 6                 |                      |
|                           | CR160F                    | Coaxial; In-Wall/In-Ceiling                             | 6½                      |                           |               | ¾                        | Cone         |  | 60-15 ±2                                    | 88                      | 25   | 2.5k                      | /4                              | 9 x 9 x 4                            | Wht.            | Wht. Mtl.                 | 4                 |                      |
|                           | 100                       | Vented; Ctr. Ch.  | 6½                      |                           |               | 1                        | Dome         |  | 70-20 ±3                                    | 25                      | 2.5k   | 6/4                       | 7 x 18 x 7                      | Gray Opt.                            | Bik. Knit       | 12                        | 500.00 Each       |                      |
|                           | 90                        | Vented; Ctr. Ch. or Surround                            | 6½                      |                           |               | ¾                        | Dome         |  | 80-20 ±3                                    | 20                      | 2.5k   | 6/4                       | 7 x 16 x 7                      | Opt.                                 | Bik. Knit       | 9                         | 380.00 Each       |                      |
|                           | KS-H72                    |   | 12                      | 5                         | Cone          | 2                        | Cone         |  | 35-20                                       | 92                      |  | 2k,5k                     | 8/                              | 15 x 37 x 13                         | Bik.            | Bik.                      | 30                | 150.00 Each          |
| KINERGETICS RESEARCH      | KS-H52                    |   | 12                      |                           | Cone          | 2                        | Cone         |  | 35-20                                       | 92                      |  | 2k,5k                     | 8/                              | 14 x 27 x 13                         | Bik.            | Bik.                      | 24                | 250.00 Pair          |
|                           | KS-H32                    |   | 8                       |                           | Cone          | 2                        | Cone         |  | 50-20                                       | 92                      |  | 5k                        | 8/                              | 13 x 22 x 9                          | Bik.            | Bik.                      | 15                | 150.00 Pair          |
|                           | RS-05                     | Surround  |                         |                           |               |                          |              | 80-20  | 90  |                         |  | 8/                        | 11 x 8 x 2                      | Wht. Blk.                            | Wht. Blk.       | 3                         | 99.00 Pair        |                      |
|                           | SW-300                    | Powered Subwoofer.                                      | 10                      |                           |               |                          |              |  |   | Inc.                    | 50-200 (Var.)                                | 8/                        | 16 x 16 x 16                    | Bik.                                 | Bik.            | 36                        | 499.00 Each       |                      |
| KINETIC AUDIO             | SW-800                    | Subwoofer.  | (5)10                   |                           |               |                          | W            |  | 17-100 +0,-3                                | 100                     | 200  | 60-120 (Var.)             | 4/3.2                           | 64 x 12 x 16                         | Opt.            | Bik. Oak                  | 175               | 3995.00 Pair w/Xover |
|                           | SW-150V                   | THX; Powered Subwoofer.                                 | 15                      |                           |               |                          | W            |  | 20-80 +0,-3                                 | Inc.                    | Inc.   | 80                        | 14 x 29 x 20                    |                                      |                 |                           |                   |                      |
|                           | SW-120V                   | Powered Subwoofer.                                      | 12                      |                           |               |                          | W            |  | 20-80 +0,-3                                 | Inc.                    | Inc.   | 80                        | 14 x 23 x 20                    |                                      |                 |                           |                   |                      |
|                           | SW-102V                   | Powered In-Wall Subwoofer.                              | 10                      |                           |               |                          | W            |  | 20-80 +0,-3                                 | Inc.                    | Inc.   | 80                        | 14 x 22 x 20                    |                                      |                 |                           |                   |                      |
| KINERGETICS RESEARCH      | SW-101V                   | Powered In-Wall Subwoofer.                              | 10                      |                           |               |                          | W            |  | 20-80 +0,-3                                 | Inc.                    | Inc.   | 80                        | 4 x 46 x 13                     |                                      |                 |                           |                   |                      |
|                           | Exception                 | TAL (Tapered Acoustic Line)                             | 8                       |                           |               | 1                        | Dome         | T  | 38-22 ±2                                    | 91                      | 15   | 1.8k/2.8k (Sel.)          | Sel.                            | 10 x 10 x 26                         | Opt., Wood Opt. | Bik. Knit                 | 45                | 2000.00 Pair         |
|                           | Inversion                 | TATL (Tap. Ac. Trapezoid Line)                          | 12                      | 2                         | Dome          | 1                        | Dome         | M,T  | 18-22 ±2                                    | 91                      | 15   | 900,7k                    | Sel.                            | 15 x 15 x 40                         | Opt., Wood Opt. | Bik. Knit                 | 95                | 3000.00 Pair         |
|                           | Refined                   | TATL  | 12                      | 6½                        | Cone          | 2,1                      | Domes        | M, (2)T  | 18-22 ±2                                    | 90                      | 25   | 90,1k,9k                  | Sel.                            | 15 x 16 x 48                         | Opt., Wood Opt. | Bik. Knit                 | 140               | 5000.00 Pair         |
|                           | Ethereal                  | TATL  | 12                      | 6½                        | Cone          | 2,1                      | Domes        | (2)M, T  | 12-22 ±1.5                                  | 90                      | 45   | 90,1k,9k                  | Sel.                            | 15 x 18 x 54                         | Opt., Wood Opt. | Bik. Knit                 | 195               | 7000.00 Pair         |
|                           | Nonpareil                 | TATL  | 12                      | 6½                        | Cone          | 2,1½, 1                  | Domes        | (2)M, T,ST   | 12-22 ±1.5                                  | 90                      | 45   | 90,1k,5k, 9k              | Sel.                            | 15 x 20 x 60                         | Opt., Wood Opt. | Bik. Knit                 | 265               | 10,000.00 Pair       |
|                           | Stat                      | TAL   | 6½                      |                           |               | 1                        | Dome         | T  | 38-22 ±3                                    | 91                      | 15   | 2k                        | 6/                              | 9 x 15 x 9                           | Opt., Wood Opt. | Bik. Knit                 | 35                | 1500.00 Pair         |
|                           | Identity (Impulse)        | TATL  | 12                      | 6½                        | Cone          | 1                        | Dome         | M,T  | 18-22 ±2.5                                  | 91                      | 15   | 180,2k                    | 8/                              | 15 x 15 x 26                         | Opt., Wood Opt. | Bik. Knit                 | 95                | 2000.00 Pair         |
|                           | Trapezoid                 | TATL  | 12                      | 6½                        | Cone          | 1½,1                     | Domes        | M,T, ST  | 18-22 ±2.5                                  | 90                      | 25   | 180,2k,9k                 | 8/                              | 16 x 15 x 40                         | Opt., Wood Opt. | Bik. Knit                 | 120               | 3500.00 Pair         |
|                           | Labyrinth                 | TATL  | 12                      | 6½                        | Cone          | 2,1                      | Domes        | (2)M, T  | 16-22 ±2                                    | 90                      | 25   | 180,1k,5k                 | 6/                              | 16 x 18 x 48                         | Opt., Wood Opt. | Bik. Knit                 | 185               | 5000.00 Pair         |
|                           | Trapezium                 | TATL  | 12                      | 6½                        | Cone          | 2,1¾                     | Domes        | (2)M, T,ST   | 12-22 ±2                                    | 90                      | 25   | 90,1k,5k, 9k              | 6/                              | 16 x 20 x 60                         | Opt., Wood Opt. | Bik. Knit                 | 250               | 6500.00 Pair         |
|                           | Standard (Titan)          | TATL  | (2)12                   | 6½                        | Cone          | 2,1¾                     | Domes        | (2)M, T,ST   | 12-22 ±2                                    | 91                      | 45   | 60,90,1k, 5k,9k           | 6/                              | 18 x 22 x 60                         | Opt., Wood Opt. | Bik. Knit                 | 295               | 8500.00 Pair         |
|                           | Nouveau                   | TAL   | 8                       |                           |               | 1                        | Dome         | T  | 38-20 ±3                                    | 92                      | 15   | 2k                        | 6/                              | 10 x 9 x 16                          | Oak             | Knit                      | 40                | 499.00 Pair          |
|                           | Mega-Sine                 | TAL   | 12                      |                           | Dome          | 1                        | Dome         | T  | 28-20 ±3                                    | 92                      | 15   | 2k                        | 4/                              | 14 x 12 x 25                         | Oak             | Knit                      | 50                | 799.00 Pair          |
|                           | Micro-Stat                | TAL   | 6½                      |                           |               | 1                        | Dome         | T  | 40-20                                       | 90                      | 10   | 2k                        | Sel.                            | 8 x 7 x 12                           | Oak             | Knit                      | 25                | 499.00 Pair          |
|                           | Basic Tower, Efficiency I | Vented  | 12                      |                           |               | 1                        | Dome         | T  | 20-20 ±3                                    | 91                      | 20   | 2k                        | 6/                              | 15 x 12 x 38                         | Oak Ven.        | Knit                      | 80                | 1199.00 Pair         |
|                           | KINERGETICS RESEARCH      | Small Stat  | In-Wall                 | 6½                        |               |                          | 1            | Dome   | T   | 38-20 ±3                | 90   | 15                        | 2k                              | 8/5                                  | 7 x 4 x 13      |                           |                   | 14                   |
| In-Wall                   |                           | In-Wall   | 8                       |                           |               | 1                        | Dome         | T  | 36-20 ±2.5                                  | 91                      | 10   | 2k                        | 8/5                             | 9 x 4 x 13                           |                 |                           | 14                | 499.00 Pair          |
| In-Wall Stat              |                           | In-Wall   | 12                      | 2                         | Dome          | 1                        | Dome         | M,T  | 18-22 ±2.5                                  | 91                      | 15   | 1k,7k                     | 8/6                             | 13 x 7 x 24                          |                 |                           | 19                | 900.00 Pair          |
| In-Wall Rex               |                           | In-Wall   | 12                      |                           |               | 1                        | Dome         | M,T  | 18-200 ±2                                   | 91                      | 15   | 180, Opt.                 | Sel.                            | 13 x 6 x 13                          |                 |                           | 15                | 499.00 Pair          |
| In-Wall Subwoofer         |                           | In-Wall Subwoofer.                                      | 12                      |                           |               |                          |              |  | 18-200 ±2                                   | 92                      | 15   | 180, Opt.                 | Sel.                            | 15 x 15 x 26                         | Opt., Wood      | Bik. Knit                 | 85                | 900.00 Pair          |
| Stat Subwoofer            |                           | TATL Subwoofer.   | 12                      |                           |               |                          |              |  | 18-200 ±2                                   | 92                      | 15   | 180, Opt.                 | Sel.                            | 15 x 15 x 26                         |                 |                           | 80                | 700.00 Pair          |
| Basic Stat Subwoofer      |                           | TATL Subwoofer.   | 12                      |                           |               |                          |              |  | 16-200 ±1.5                                 | 92                      | 15   | 180, Opt.                 | Sel.                            | 16 x 15 x 40                         | Opt., Wood      | Bik. Knit                 | 105               | 1500.00 Pair         |
| Trapezoid Subwoofer       |                           | TATL Subwoofer.   | 12                      |                           |               |                          |              |  | 16-200 ±1.5                                 | 92                      | 15   | 180, Opt.                 | Sel.                            | 16 x 15 x 40                         |                 |                           | 95                | 900.00 Pair          |
| Basic Trapezoid Subwoofer |                           | TATL Subwoofer.   | 12                      |                           |               |                          |              |  | 16-200 ±1.5                                 | 92                      | 15   | 180, Opt.                 | Sel.                            | 16 x 15 x 40                         |                 |                           | 95                | 900.00 Pair          |
| KINERGETICS RESEARCH      |                           | Basic Trapezoid Subwoofer                               | TATL Subwoofer.         | 12                        |               |                          |              |  |   | 16-200 ±1.5             | 92   | 15                        | 180, Opt.                       | Sel.                                 | 16 x 15 x 40    |                           |                   | 95                   |
|                           | Onyx 510                  | Ctr. Ch.  | (2)6½                   |                           |               | 1                        | Dome         |  | 80-20 ±3                                    | 92                      | 30   | 2.5k                      | 8/3                             | 21 x 9 x 9                           | Gray Vnl.       | Bik. Knit                 | 26                | From 450.00 Each     |
|                           | Onyx 520                  | Home Th.; Front Ch.                                     | (2)6½                   |                           |               | 1                        | Dome         |  | 40-20 ±3                                    | 92                      | 30   | 2.5k                      | 8/3                             | 49 x 9 x 9                           | Gray Vnl.       | Bik. Knit                 | 47                | 1200.00 Pair         |
|                           | Onyx 540                  | Home Th., Dipole; Surround                              | (2)6½                   | (2)4                      | Cones         | (2)1                     | Domes        |  | 40-20 ±3                                    | 92                      | 30   | 160,2.5k                  | 8/3                             | 49 x 9 x 9                           | Gray Vnl.       | Bik. Knit                 | 47                | 1200.00 Pair         |
|                           | Onyx 560                  | Powered Subwoofer.                                      | 10                      |                           |               |                          |              |  | 23-200 ±3                                   |                         | 125  | Adj.                      |                                 | 21 x 18 x 18                         | Gray Paint      | None                      | 60                | 750.00 Each          |
| KINERGETICS RESEARCH      | KT-60                     | Powered Subwoofer.                                      | 15                      |                           |               |                          |              |  | 23-400 ±3                                   |                         | 350  | Adj.                      |                                 | 36 x 16 x 24                         | Blk. Paint      | None                      | 125               | 1929.00 Each         |
|                           | KT-90DX                   | Powered Subwoofer.                                      | (2)15                   |                           |               |                          |              |  | 23-400 ±3                                   |                         | 750  |                           |                                 | 30 x 47 x 26                         | Blk. Paint      | None                      | 280               | 3420.00 Each         |
|                           | KIRKSAETER                | Prisma 60   | Vented                  | 6                         |               |                          | 1            | Dome   |   | 40-20 ±2                | 90   | 10                        | 2.5k                            | 8/4                                  | 10 x 8 x 17     | Opt.                      | Bik. Knit         | 14                   |
| Prisma 80                 |                           | Vented  | 7.4                     |                           |               | 1                        | Dome         |  | 35-20 ±2                                    | 90                      | 10   | 2.5k                      | 8/4                             | 10 x 11 x 17                         | Opt.            | Bik. Knit                 | 17                | 499.00 Pair          |
| Prisma 100                |                           | Vented  | 7.4                     | 6                         | Cone          | 1                        | Dome         |  | 30-20 ±2                                    | 90                      | 15   | 800,4k                    | 8/4                             | 10 x 10 x 34                         | Opt.            | Bik. Knit                 | 28                | 649.00 Pair          |
| Prisma 150                |                           | Vented  | 9                       | 6                         | Cone          | 1                        | Dome         |  | 30-20 ±2                                    | 90                      | 20   | 700,4k                    | 8/4                             | 11 x 12 x 36                         | Opt.            | Bik. Knit                 | 33                | 799.00 Pair          |
| Prisma 200                |                           | Vented  | (2)7.4                  | 6                         | Cone          | 1                        | Dome         |  | 28-20 ±2                                    | 91                      | 15   | 800,4k                    | 8/4                             | 10 x 10 x 42                         | Opt.            | Bik. Knit                 | 37                | 899.00 Pair          |
| Prisma 250                |                           | Vented  | (2)9                    | 6                         | Cone          | 1                        | Dome         |  | 28-20 ±2                                    | 91                      | 20   | 700,4k                    | 8/4                             | 11 x 12 x 40                         | Opt.            | Bik. Knit                 | 40                | 999.00 Pair          |
| Prisma 300                |                           | Vented  | (2)9                    | 6.2                       | Cone, Dome    | 1                        | Dome         |  | 25-25 ±2                                    | 92                      | 20   | 650,1.2k, 4k              | 8/4                             | 11 x 12 x 44                         | Opt.            | Bik. Knit                 | 44                | From 1399.00 Pair    |

# LOUDSPEAKERS

| MANUFACTURER           | Model              | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Superwoofer=ST | Amplitude Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish          | Grille Color and Material | Weight, Lbs. Each | Price, \$   |
|------------------------|--------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-----------------|---------------------------|-------------------|-------------|
| KIRKSAETER (Continued) | Prisma Center      | Inf. Baf.   | (2)5                    |                           |               | 1                        | Dome         |  | 60-20 ±2                                     | 89                      | 10   | 2.5k                      |                                  | 20 x 6 x 7                           | Blk.            | Blk. Knit                 | 10                | 180.00 Each |
| KLH                    | 61                 | Vented  | 6½                      |                           |               | 1                        | Dome         | No   | 40-20 ±3                                     | 86                      | 5  | 1.6k                      | 6/4                              | 13 x 9 x 9                           | Opt., Vnl.      | Blk. Knit                 | 15                | 275.00 Pair |
|                        | 81                 | Vented  | 8                       |                           |               | 1                        | Dome         | No   | 30-20 ±3                                     | 87                      | 5  | 1.3k                      | 8/6                              | 16 x 10 x 11                         | Opt., Vnl.      | Blk. Knit                 | 21                | 325.00 Pair |
|                        | 62T                | Vented  | (2)6½                   | 5¼                        | Cone          | 1                        | Dome         | No   | 35-20 ±3                                     | 87                      | 25   | 400,900                   | 6/4                              | 38 x 9 x 11                          | Opt., Vnl.      | Blk. Knit                 | 38                | 300.00 Each |
|                        | 82T                | Vented  | (2)6½                   | 3                         | Cone          | 1                        | Dome         | No   | 35-20 ±3                                     | 87                      | 25   | 200,800, 3k               | 6/4                              | 38 x 9 x 11                          | Opt., Vnl.      | Blk. Knit                 | 47                | 500.00 Each |
|                        | Performance SX-8   | Vented  | 12                      | 5¼                        | Cone          | 1                        | Dome         | No   | 29-20  | 92                      | 5  | 800,3k                    | 6/4                              | 30 x 16 x 11                         | Opt., Vnl.      | Blk. Knit                 | 44                | 300.00 Each |
|                        | Performance SX-9   | Vented  | 15                      | 5¼                        | Cone          | 1                        | Dome         | No   | 25-20  | 94                      | 5  | 800,3k                    | 6/4                              | 37 x 18 x 12                         | Opt., Vnl.      | Blk. Knit                 | 61                | 350.00 Each |
|                        | Video Series V-354 | Home Th., Ctr. Ch.                                      | (4)5                    |                           |               | 1                        | Dome         |  | 100-20                                       | 87                      | 5  | 700,1.9k, 3k              | 8/                               | 7 x 25 x 8                           | Blk. Vnl.       | Blk. Knit                 |                   | 250.00 Each |
|                        | Video Series V-41  | Home Th., Main Ch.                                      | (4)5                    |                           |               | 1                        | Dome         |  | 100-20                                       | 86                      | 5  | 700,1.9k, 3k              | 8/                               | 40 x 7 x 8                           | Blk. Vnl.       | Blk. Knit                 |                   | 350.00 Each |
|                        | Video Series V-01  | Home Th., Dipole; Rear Ch.                              | (2)8                    |                           |               | (2)1                     | Domes        |  | 40-20  | 90                      | 5  | 1.8k                      | 8/6                              | 17 x 15 x 11                         | Blk. Vnl.       | Blk. Knit                 |                   | 200.00 Each |
|                        | Video Series V-210 | Home Th., Powered Subwoof.                              | 10                      |                           |               |                          |              | W  | 25-85 or 25-120                              |                         | Inc.   | 85 or 120                 |                                  | 14 x 16 x 15                         | Blk. Vnl.       | None                      |                   | 499.00 Each |
|                        | 42                 | Home Th., Ported Ctr. Ch.                               | (2)4½                   |                           |               | ¾                        | Dome         |  | 60-20  | 89                      | 1  |                           | 8/                               | 5 x 13 x 6                           | Blk. Vnl.       | Mtl.                      |                   | 100.00 Each |
|                        | 4545               | Home Th., Sealed Ctr. Ch.                               | (2)4½                   |                           |               | 1¾                       | Whizzer      |  | 60-20  | 88                      | 1  |                           | 8/                               | 5 x 17 x 6                           | Blk. Vnl.       | Cloth                     |                   | 130.00 Each |
|                        | 5050               | Home Th., Sealed Ctr. Ch.                               | (2)4½                   |                           |               | ¾                        | Dome         |  | 60-22  | 88                      | 1  |                           | 8/                               | 6 x 17 x 6                           | Blk. Vnl.       | Cloth                     |                   | 170.00 Each |
|                        | HT-1               | Home Th.  | (2)5¼                   |                           |               |                          |              |  | 50-20  |                         |  |                           |                                  | Six Pieces                           | Blk.            |                           |                   | 349.00 Sys. |
|                        | HT-2               | Home Th.  | (2)5¼                   |                           |               |                          |              |  | 50-20  |                         |  |                           |                                  | Six Pieces                           | Blk.            |                           |                   | 399.00 Sys. |
|                        | HT-3               | Home Th.  | (2)5¼                   |                           |               |                          |              |  | 50-20  |                         |  |                           |                                  | Six Pieces                           | Blk.            |                           |                   | 599.00 Sys. |
|                        | CS-2503            | Sat. & Subwoof.   | (2)5¼                   | 4½                        |               | ¾                        | Dome         | No   | 50-20  | 86                      | 5  | 150,3k                    | 6/4                              | Three Pieces                         | Blk. Vnl.       | Blk. Knit                 | 31                | 225.00 Sys. |
|                        | 520                | Sat. & Subwoof.   | 5¼                      | 4½                        |               | ¾                        | Dome         | No   | 50-20  | 86                      | 5  | 150,3k                    | 6/4                              | Three Pieces                         | Blk. Plast.     | Blk. Plast.               | 31                | 275.00 Sys. |
|                        | Calibre 3-970      | Sat. & Subwoof.   | (2)6½                   | 4.2                       |               | ¾                        | Dome         | No   | 45-20  | 87                      | 5  | 150,3k                    | 6/4                              | Three Pieces                         | Blk. Plast.     | Blk. Plast.               | 38                | 300.00 Sys. |
|                        | 610/66             | Sat. & Subwoof.   | (2)6½                   | 4                         |               | 1                        | Dome         | No   | 38-20  | 88                      | 5  | 150,3k                    | 6/4                              | Three Pieces                         | Blk. Alum.      | Blk. Alum.                | 45                | 350.00 Sys. |
|                        | 970A               | Indoor/Outdoor  | 4                       | 2                         | Cone          | ¾                        | Dome         | No   | 90-20  | 1                       | 1  | 300,7k                    | 8/6                              | 7 x 5 x 5                            | Blk. Blk. Poly. | Blk. Blk. Mtl.            | 2                 | 49.95 Pair  |
|                        | 610                | Indoor/Outdoor  | 4                       |                           |               | 1                        | Dome         | No   | 80-20  | 85                      | 1  | 2.8k                      | 7/5                              | 7 x 5 x 5                            | Blk. Alum.      |                           | 5                 | 149.00 Pair |

Madisound is pleased to offer our best selling kits at affordable prices.

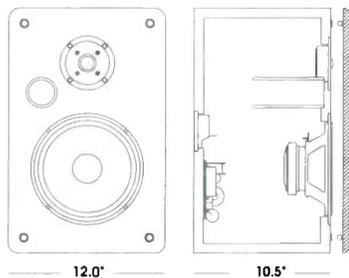
## Cygnets \$375/pr

## Gemini \$860/pr

Many Audio enthusiasts are searching for a modest cost speaker system with the dramatic sound of costly floor standing units. Madisound believes the **Cygnets** approaches this ideal. It utilizes an eight inch woofer and a 1" fabric dome tweeter. These Peerless drivers are part of the prestigious CC series, and it allows the **Cygnets** to perform above 105 dB and reach bass notes below 40 Hz.

The cabinet is a luxurious Oak veneer with solid rounded corners, and is available in a Clear or Black Stained Oak Finish. This kit comes with black grilles, and can be assembled in an evening.

The **Cygnets** looks and sounds like the most sophisticated commercial systems, and your friends will know you built them only if you admit it.



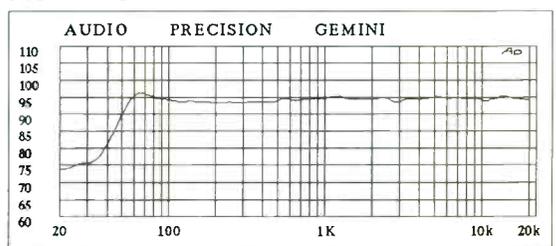
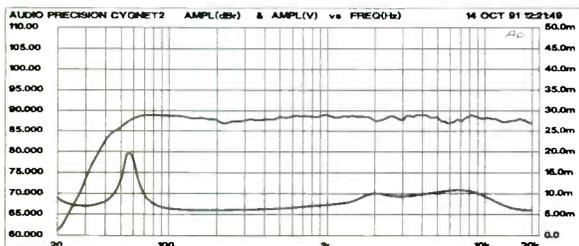
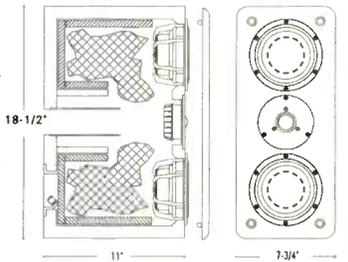
**DYNAUDIO** and **MADISOUND** introduce a new standard for Loudspeaker Systems. The Gemini has the sound quality of an electrostatic loudspeaker, but has the power handling capability and smaller size available in a dynamic loudspeaker. What more needs to be said?

**Woofer:** Dynaudio 15W75, 3 inch voice coil on a cast frame 5 inch woofer—exceptional power capability and bass clarity.

**Tweeter:** Dynaudio D-260 Soft dome with transmission line chamber - smooth clean output even at transients of 1 kilowatt.

**Crossover:** 6dB - Phase and impedance compensated, polypropylene capacitors in series circuits give new meaning to transparency in sound reproduction.

**Cabinet:** MDF up to 1 inch thick! Oak veneers, with grill and clear or black satin finish.



# LOUDSPEAKERS

| MANUFACTURER        | Model                     | Application, Design Principle, Enclosure or System Type | Woofer Diameter, inches | Midrange Diameter, inches | Midrange Type | Tweeter Diameter, inches | Tweeter Type | Separate Level Controls: Woofer=M, Midrange=M, Tweeter=T, Super-tweeter=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish       | Grille Color and Material | Weight, Lbs. Each | Price \$     |
|---------------------|---------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|--------------|---------------------------|-------------------|--------------|
| KLIPSCH             | SW-V                      | Powered Bass Ref. Subwoof.                              | 8                       |                           |               |                          |              | W  | 35-120 ±3                                   | 50 Inc.                 | 85   |                           | 19 x 13 x 14                     | Blk. Vnl.                            | Blk. Knit    | 30                        | 399.00 Each       |              |
|                     | SW8                       | Powered Bass Ref. Subwoof.                              | 8                       |                           |               |                          |              | W  | 32-120 ±3                                   | 65 Inc.                 | 40-120                                       |                           | 19 x 13 x 14                     | Opt.                                 | Blk. Knit    | 36                        | 549.00 Each       |              |
|                     | SW10                      | Powered Bass Ref. Subwoof.                              | 10                      |                           |               |                          |              | W  | 30-120 ±3                                   | 100 Inc.                | 40-120                                       |                           | 21 x 14 x 15                     | Opt.                                 | Blk. Knit    | 43                        | 749.00 Each       |              |
|                     | SW12                      | Powered Bass Ref. Subwoof.                              | 12                      |                           |               |                          |              | W  | 28-120 ±3                                   | 150 Inc.                | 40-120                                       |                           | 24 x 16 x 16                     | Opt.                                 | Blk. Knit    | 60                        | 999.00 Each       |              |
|                     | SW15                      | Powered Bass Ref. Subwoof.                              | 15                      |                           |               |                          |              | W  | 27-120 ±3                                   | 200 Inc.                | 40-120                                       |                           | 26 x 19 x 20                     | Opt.                                 | Blk. Knit    | 82                        | 1499.00 Each      |              |
|                     | IW 100                    | In-Wall   | 6½                      |                           | 1             | Horn                     |              |  |   | 40-20 ±3                | 90   | 2.2k                      | 8/4                              | 14 x 10 x 3                          | Wht.         | Wht. Mtl.                 | 5                 | 360.00 Pair  |
|                     | IW 200                    | In-Wall   | (2)6½                   |                           | 1             | Horn                     |              |  |   | 40-20 ±3                | 93   | 2.2k                      | 8/4                              | 21 x 10 x 3                          | Wht.         | Wht. Mtl.                 | 8                 | 550.00 Pair  |
|                     | epic series FF1           | Bass Ref.   | (2)6½                   |                           | 1             | Horn                     |              |  |   | 37-20 ±3                | 96   | 2.4k                      | 8/4                              | 34 x 13 x 15                         | Opt.         | Gray Knit                 | 70                | 1099.00 Pair |
|                     | epic series FF2           | Bass Ref.   | (2)8                    |                           | 2             | Horn                     |              |  |   | 36-20 ±3                | 98   | 2.2k                      | 8/4                              | 37 x 13 x 16                         | Opt.         | Gray Knit                 | 80                | 1499.00 Pair |
|                     | epic series FF3           | Bass Ref.   | (2)10                   |                           | 2             | Horn                     |              |  |   | 35-20 ±3                | 100  | 1.5k                      | 8/4                              | 41 x 17 x 17                         | Opt.         | Gray Knit                 | 90                | 1999.00 Pair |
|                     | epic series FF4           | Bass Ref.   | (2)12                   |                           | 2             | Horn                     |              |  |   | 34-20 ±3                | 102  | 1.5k                      | 8/4                              | 41 x 17 x 19                         | Opt.         | Gray Knit                 | 100               | 2499.00 Pair |
|                     | KV1                       | Sealed Box  | 5¼                      |                           | 1             | Dhorn                    |              |  |   | 85-20 ±3                | 90   | 1.6k                      | 8/4                              | 7 x 20 x 6                           | Opt.         | Blk. Knit                 | 15                | 179.95 Each  |
|                     | KV2                       | Bass Ref.   | 5¼                      |                           | 1             | Horn                     |              |  |   | 75-20 ±3                | 92   | 1.6k                      | 8/4                              | 7 x 20 x 7                           | Opt.         | Blk. Knit                 | 13                | 249.00 Each  |
|                     | KV3                       | Bass Ref.   | 6½                      |                           | 1             | Horn                     |              |  |   | 63-20 ±3                | 95   | 1.6k                      | 8/4                              | 8 x 22 x 8                           | Opt.         | Blk. Knit                 | 17                | 399.00 Each  |
|                     | KG 5                      | Bass Ref.   | 5¼                      |                           | 1             | Dhorn                    |              |  |   | 60-20 ±3                | 90   | 1.8k                      | 8/4                              | 12 x 9 x 7                           | Blk. Vnl.    | Blk. Knit                 | 10                | 220.00 Pair  |
|                     | KG 1.5                    | Bass Ref.   | 6½                      |                           | 1             | Horn                     |              |  |   | 50-20 ±3                | 90   | 2.2k                      | 8/4                              | 13 x 9 x 9                           | Opt.         | Blk. Knit                 | 15                | 350.00 Pair  |
|                     | KG 2.5                    | Bass Ref.   | (2)6½                   |                           | 1             | Horn                     |              |  |   | 50-20 ±3                | 93   | 2.2k                      | 8/4                              | 20 x 9 x 9                           | Opt.         | Blk. Knit                 | 20                | 450.00 Pair  |
|                     | KG 3.5                    | Bass Ref.   | 8                       |                           | 1             | Horn                     |              |  |   | 36-20 ±3                | 95   | 1.8k                      | 8/4                              | 34 x 11 x 12                         | Opt.         | Blk. Knit                 | 39                | 600.00 Pair  |
|                     | KG 4.5                    | Bass Ref.   | 10                      |                           | 1             | Horn                     |              |  |   | 36-20 ±3                | 96   | 1.6k                      | 8/4                              | 38 x 12 x 13                         | Opt.         | Blk. Knit                 | 54                | 750.00 Pair  |
|                     | KG 5.5                    | Bass Ref.   | (2)10                   |                           | 1             | Horn                     |              |  |   | 34-20 ±3                | 98   | 1.6k                      | 8/4                              | 38 x 12 x 18                         | Opt.         | Blk. Knit                 | 69                | 900.00 Pair  |
|                     | KG SW                     | Bandpass Subwoof.                                       | (2)8                    |                           |               |                          |              |  |   | 38-150 ±3               | 94   | 20                        | 150                              | 8/4                                  | 12 x 24 x 16 | Opt.                      | 42                | 350.00 Each  |
|                     | KT System                 | THX, 3 Front, 2 Surr. & Sub.                            | 15                      | (2)6½                     | (2)1          | Horn, Dhorm              |              |  |   | 35-20                   | 95   | 100                       | 80,2.4k, 2.5k                    | 8/4                                  | Satin Blk.   | Blk. Knit                 | 209               | 3850.00 Sys. |
|                     | Heresy II                 | Inf. Baf.   | 12                      | 1½                        | Horn          | 1                        | Horn         |  |   | 50-20 ±3                | 96   | 20                        | 800,7k                           | 8/4                                  | 22 x 16 x 13 | Opt.                      | 37                | 930.00 Pair  |
|                     | Quartet                   | Pas. Rad.   | 10                      | 1½                        | Horn          | 1                        | Horn         |  |   | 38-20 ±3                | 97   | 20                        | 650,7k                           | 8/4                                  | 31 x 16 x 12 | Opt.                      | 52                | 1050.00 Pair |
|                     | Forté II                  | Pas. Rad.   | 12                      | 1½                        | Horn          | 1                        | Horn         |  |   | 32-20 ±3                | 99   | 20                        | 650,7k                           | 8/4                                  | 35 x 17 x 12 | Opt.                      | 67                | 1298.00 Pair |
| Chorus II           | Pas. Rad.                 | 15  | 1½                      | Horn                      | 1             | Horn                     |              |  | 39-20 ±3                                    | 101                     | 20   | 700,7k                    | 8/4                              | 39 x 19 x 16                         | Opt.         | 89                        | 1790.00 Pair      |              |
| La Scala            | Folded Horn               | 15  |                         | Horn                      | 1             | Horn                     |              |  | 45-17 ±5                                    | 104                     | 20   | 400,6k                    | 8/4                              | 36 x 24 x 25                         | Opt.         | 130                       | 1956.00 Pair      |              |
| Belle Klipsch       | Folded Horn               | 15  | 2                       | Horn                      | 1             | Horn                     |              |  | 45-17 ±5                                    | 104                     | 20   | 500,6k                    | 8/4                              | 36 x 30 x 19                         | Opt.         | 133                       | 3000.00 Pair      |              |
| Klipschorn          | Folded Horn               | 15  | 2                       | Horn                      | 1             | Horn                     |              |  | 35-17 ±3                                    | 104                     | 20   | 400,6k                    | 8/4                              | 52 x 34 x 29                         | Opt.         | 185                       | 4000.00 Pair      |              |
| KNÖLL               | TC06                      | In-Wall Inf. Baf.                                       | 6½                      |                           | 1             | Dome                     | T            |  | 45-21 +1,-4                                 | 90                      | 5  | 2.25k                     | 8/6                              | 12 x 9 x 4                           | Wht. Mtl.    | 3                         | 229.95 Pair       |              |
|                     | SR50                      | In-Wall   | 5                       |                           |               |                          |              |  | 60-18 +1,-4                                 | 91                      | 5  | 8/6                       | 8 Dia. x 4                       | Wht. Mtl.                            | 3            | 139.00 Pair               |                   |              |
| KOSS                | M/85                      | Ac. Sus.  | (2)4½                   |                           | (2)1          | Domes                    |              |  | 50-30                                       | 86                      |  | 6/8                       |                                  | Blk. Vnl.                            | Blk. Knit    | 8                         | 190.00 Pair       |              |
|                     | M/65                      | Ac. Sus.  | 4½                      |                           | (2)1          | Domes                    |              |  | 100-30                                      | 84                      |  | 8/8                       | 5 x 9 x 6                        | Blk. Vnl.                            | Blk. Knit    | 49                        | 135.00 Pair       |              |
|                     | KCS/50                    | Bass Ref.   | 5                       |                           | ¾             | Dome                     |              |  | 70-20                                       | 86                      | 15   | 4/                        | 12 x 7 x 9                       | Blk. Ash Vnl.                        | Blk. Knit    | 9                         | 239.00 Pair       |              |
|                     | KCS/100                   | Bass Ref.   | 6½                      |                           | ¾             | Dome                     |              |  | 60-20                                       | 86                      | 15   | 4/                        | 15 x 8 x 9                       | Blk. Ash Vnl.                        | Blk. Knit    | 11                        | 279.00 Pair       |              |
|                     | KCS/200                   | Bass Ref.   | 8                       |                           | ¾             | Dome                     |              |  | 40-20                                       | 90                      | 15   | 4/                        | 21 x 10 x 11                     | Blk. Ash Vnl.                        | Blk. Knit    | 18                        | 339.00 Pair       |              |
|                     | SA/40                     | Powered   | 3½                      |                           |               |                          |              |  | 50-20                                       | Inc.                    |  |                           | 7 x 4 x 4                        | Blk. Vnl.                            | Blk. Mtl.    |                           | 60.00 Pair        |              |
|                     | SA/30                     | Powered   | 3                       |                           |               |                          |              |  | 100-20                                      | Inc.                    |  |                           | 5 x 4 x 4                        | Blk. Plast.                          | Blk. Mtl.    |                           | 35.00 Pair        |              |
|                     | HD/100                    | Computer Speaker  | 4                       |                           | 1½            |                          |              |  | 60-20                                       |                         | 5  |                           |                                  | 9 x 4 x 5                            | Wht. Plast.  | Wht. Mtl.                 | 2                 | 99.99 Pair   |
|                     | HD/50                     | Computer Speaker  | 3½                      |                           |               |                          |              |  | 150-20                                      |                         | 4.5  |                           |                                  | 8 x 4 x 4                            | Wht. Plast.  | Wht. Mtl.                 | 2                 | 49.99 Pair   |
|                     | HD/40                     | Computer Speaker  | 3½                      |                           |               |                          |              |  | 150-20                                      |                         |  |                           |                                  | 8 x 4 x 4                            | Wht. Plast.  | Wht. Mtl.                 |                   | 29.99 Pair   |
|                     | HD/30                     | Computer Speaker  | 3                       |                           |               |                          |              |  | 170-20                                      |                         | 1.5  |                           |                                  | 6 x 4 x 4                            | Wht. Plast.  | Wht. Mtl.                 | 1                 | 29.99 Pair   |
|                     | HD/20                     | Computer Speaker  | 3                       |                           |               |                          |              |  | 190-20                                      |                         |  |                           |                                  | 6 x 4 x 4                            | Wht. Plast.  | Wht. Mtl.                 | 1                 | 19.99 Pair   |
| HD/6                | Computer Speaker          | (2)4  |                         |                           |               |                          |              | 50-20  | 75  | 5                       | 6/4  | 8 x 5 x 5                 | Wht. Plast.                      | Gray                                 | 2            | 99.99 Pair                |                   |              |
| HD/4                | Computer Speaker          | (2)3½   |                         |                           |               |                          |              | 50-20  | 75  | 5                       | 6/4  | 7 x 4 x 4                 | Wht. Plast.                      | Gray                                 | 1            | 59.99 Pair                |                   |              |
| HD/1                | Computer Speaker          | (2)3  |                         |                           |               |                          |              | 100-20   | 75  | 5                       | 6/4  | 5 x 3 x 4                 | Wht. Plast.                      | Gray                                 | 1            | 39.99 Pair                |                   |              |
| KRON                | K-100.1                   | Home Th.; Vented Ctr. Ch.                               | (2)4                    |                           | ½             | Dome                     |              |  | 65-20 ±3                                    | 90                      | 25   | 8k                        | 4/4.5                            | 20 x 6 x 8                           | Blk. Paint   | Blk. Knit                 | 15                | 199.00 Each  |
|                     | K-101.1                   | Home Th.; Vented Ctr. Ch.                               | (2)4                    |                           | (2)¾          | Domes                    |              |  | 65-21 ±3                                    | 91                      | 25   | 7k                        | 4/4.5                            | 20 x 7 x 9                           | Blk. Paint   | Blk. Knit                 | 15                | 249.00 Each  |
|                     | K-350                     | Vented  | 5¼                      |                           | ¾             | Dome                     |              |  | 65-21 ±3                                    | 91                      | 25   | 5k                        | 4/4.5                            | 8 x 11 x 8                           | Blk. Paint   | Blk. Knit                 | 11                | 199.00 Each  |
|                     | K-400                     | Vented  | 8                       |                           | 1             | Dome                     |              |  | 45-21 ±3                                    | 90                      | 50   | 5k                        | 4/4                              | 12 x 17 x 12                         | Blk. Paint   | Blk. Knit                 | 30                | 249.00 Each  |
|                     | K-200                     | Home Th.; Inf. Baf.                                     | 4                       |                           | ½             | Dome                     |              |  | 110-20 ±3                                   | 90                      | 25   | 4.5k                      | 4/4.5                            | 5 x 7 x 4                            | Opt. Blk.    | Opt., Mtl.                | 6                 | 199.00 Pair  |
|                     | K-300                     | Home Th.; Inf. Baf.                                     | 4                       |                           | ¾             | Dome                     |              |  | 110-21                                      | 90                      | 25   | 4.5k                      | 4/4                              | 5 x 7 x 4                            | Opt. Blk.    | Opt., Mtl.                | 6                 | 299.00 Pair  |
|                     | KR-608 SW                 | Home Th.; Vented Subwoof.                               | (2)8                    |                           |               |                          |              |  | 36-140                                      | 89                      | 50   | 140                       | 4/4                              | 13 x 23 x 17                         | Blk. Paint   | Blk. Knit                 | 45                | 399.00 Each  |
| KR-708 SW           | Home Th.; Vented Subwoof. | 12  |                         |                           |               |                          |              | 33-140   | 89  | 50                      | 140  | 4/4                       | 17 x 18 x 17                     | Blk. Paint                           | Blk. Knit    | 45                        | 449.00 Each       |              |
| LANCER ELEC-TRONICS | LE-25                     | Vented  | 4                       |                           | ¾             | Dome                     |              |  | 55-20                                       | 87                      | 10   | 3.5k                      | 8/6                              | 8 x 8 x 10                           | Opt., Oak    | Blk. Cloth                | 8                 | 110.00 Each  |
|                     | LE-50B                    | Vented  | 6½                      |                           | ¾             | Dome                     |              |  | 49-20                                       | 87                      | 10   | 3k                        | 8/7                              | 9 x 8 x 14                           | Opt., Oak    | Blk. Cloth                | 12                | 137.50 Each  |
|                     | LE-75                     | Vented  | (2)6½                   |                           | 1             | Dome                     |              |  | 42-20                                       | 89                      | 15   | 3.2k                      | 8/6                              | 8 x 10 x 29                          | Opt., Oak    | Blk. Cloth                | 30                | 250.00 Each  |
|                     | LE-110                    | Vented  | 10                      | 4                         | Cone          | 1                        | Dome         |  | 32-20                                       | 89                      | 25   | 800,4k                    | 8/6                              | 15 x 12 x 26                         | Opt., Oak    | Blk. Cloth                | 45                | 375.00 Each  |
|                     | Video HTF                 | Sealed  | (2)4                    |                           | (2)¾          | Domes                    | T            |  | 80-20                                       | 87                      | 20   | 4k                        | 8/8                              | 6 x 8 x 15                           | Opt., Oak    | Blk. Cloth                | 12                | 220.00 Each  |
|                     | Video HTH                 | Sealed  | (2)4                    |                           | 1             | Dome                     | T            |  | 80-20                                       | 87                      | 20   | 4k                        | 8/6                              | 6 x 7 x 15                           | Opt., Oak    | Blk. Cloth                | 11                | 200.00 Each  |
| (Continued)         | Video HTR                 | Sealed  | (2)4                    |                           | (2)¾          | Domes                    |              |  | 70-20                                       | 87                      | 20   | 250,4k                    | 8/8                              | 8 x 7 x 6                            | Opt., Oak    | Cloth                     | 7                 | 440.00 Pair  |

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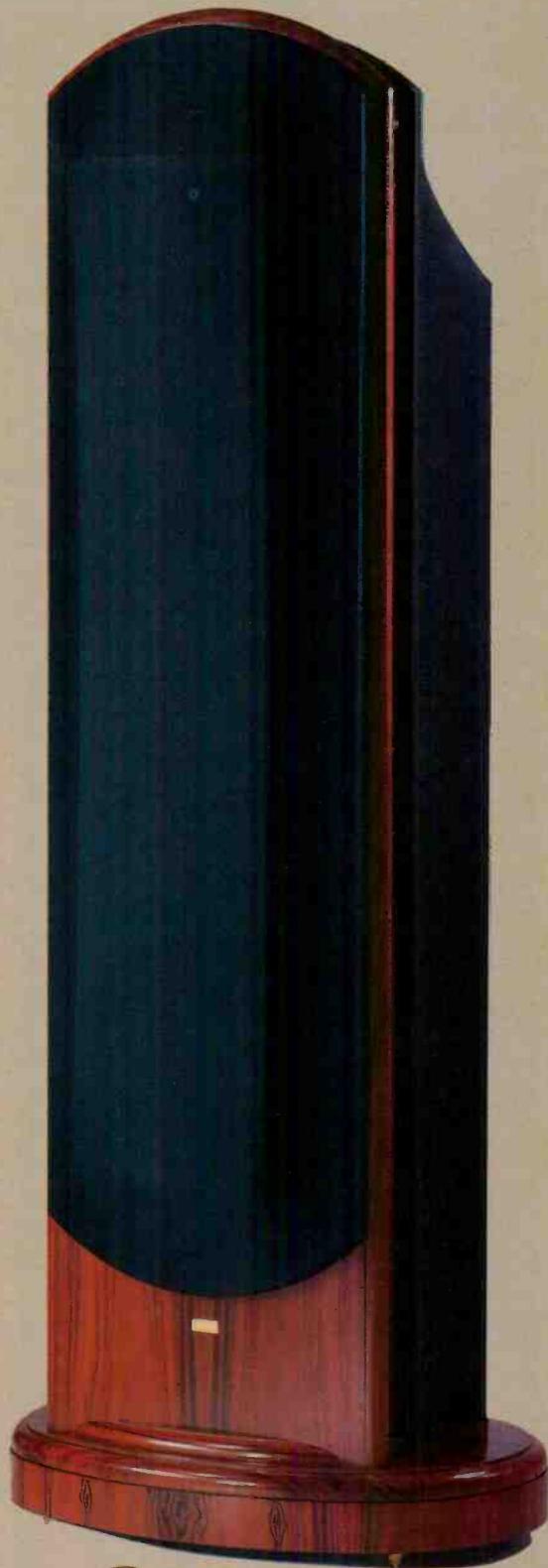
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| MANUFACTURER                             | Model  | Application, Design Principle, Enclosure or System Type       | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Superwoofer=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish              | Grille Color and Material | Weight, Lbs. Each   | Price, \$                 |              |
|--|--|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|---------------------|---------------------------|---------------------|---------------------------|--------------|
| LANCER ELEC-TRONICS (Continued)          | LE-1sw   | Bandpass Subwoof.   | (2)6½                   |                           |               |                          |              |  | 40-160                                      | 88                      | 20   | 160                       | 8/8                              | 9 x 14 x 20                          | Blk. Text.          |                           | 35                  | 250.00 Each               |              |
|  | LE-2sw   | Vented Subwoof.   | 12                      |                           |               |                          |              |  | 30-150                                      | 91                      | 25   | 150                       | 8/6                              | 19 x 24 x 17                         | Blk. Oak            | Blk. Cloth                | 54                  | 400.00 Each               |              |
| LEGACY                                   | Whisper  | Powered; Controlled Directiv. Array; 2 Towers & Sub. F.O.C.S. | (4)15                   | (4)7, 1¼                  | Cones, Dome   | ½x4                      | Ribbon       | W,M,T  | 16-30 ±2                                    | 95                      | 400 Inc.                                     | 50,300, 4k,12k            | 8/4                              | Three Pieces                         | Opt., Wood          | Knit                      | 535 Sys.            | 14,500 Sys. w/Amp & Xover |              |
|  | Focus  | F.O.C.S.  | (3)12                   | (2)7, 1¼                  | Cones, Dome   | ½x4                      | Ribbon       | W,M,T  | 16-30 ±2                                    | 98                      | 10   | 180,2.8k, 12k             | 4/4                              | 55 x 16 x 14                         | Opt., Wood          | Knit                      | 170                 | 4850.00 Pair              |              |
|  | Convergence                                      | F.O.C.S.  | (2)12                   | (2)7, 1¼                  | Cones, Dome   | ½x4                      | Ribbon       | W,M,T  | 18-30 ±2                                    | 96                      | 12   | 180,2.8k, 12k             | 4/4                              | 52 x 16 x 14                         | Opt., Wood          | Knit                      | 150                 | 4050.00 Pair              |              |
|  | Signature III                                    | Bipolar; Slot Loaded  | (3)10                   | (2)7, 1¼                  | Cones, Dome   | ½x4                      | Ribbon       | W,M,T  | 20-30 ±2                                    | 93                      | 30   | 100,300, 2.8k,12k         | 4/4                              | 48 x 12 x 13                         | Opt., Wood          | Knit                      | 120                 | 3196.00 Pair              |              |
|  | Classic  | Bipolar   | (2)10                   | (2)7, 1¼                  | Cones, Dome   | ½x4                      | Ribbon       | W,M,T  | 22-30 ±2                                    | 92                      | 30   | 200,2k,8k                 | 4/4                              | 44 x 12 x 13                         | Opt., Wood          | Knit                      | 110                 | 2248.00 Pair              |              |
|  | Soundstage                                       | Bipolar Array; Vented   | (2)7                    | 7                         | Cone          | (2)1                     | Domes        | M,T  | 32-22 ±2                                    | 93                      | 30   | 200,800, 3k               | 4/4                              | 11 x 13 x 40                         | Opt., Wood          | Knit                      | 80                  | 1696.00 Pair              |              |
|  | Protege  | Bipolar Array; Vented   | (2)7                    |                           |               | (2)1                     | Domes        | T  | 36-22 ±2                                    | 95                      | 30   | 2.8k                      | 4/4                              | 22 x 12 x 12                         | Opt., Wood          | Knit                      | 55                  | 1296.00 Pair              |              |
|  | Super Satellite                                  | Symmetrical Array   | (2)6½                   |                           |               | 1                        | Dome         | T  | 38-22 ±3                                    | 93                      | 30   | 2.8k                      | 4/4                              | 20 x 11 x 10                         | Opt., Wood          | Knit                      | 40                  | 896.00 Pair               |              |
|  | Reference Satellite                              | 4th Order Butterworth QBS Aided                               | 7                       |                           |               | 1                        | Dome         | T  | 40-22 ±2                                    | 92                      | 30   | 2.8k                      | 4/4                              | 13 x 11 x 10                         | Opt., Wood          | Knit                      | 32                  | 748.00 Pair               |              |
|  | Satellite  | 4th Order Butterworth QBS Aided                               | 7                       |                           |               | 1                        | Dome         | T  | 41-22 ±3                                    | 90                      | 30   | 2.6k                      | 6/4                              | 13 x 11 x 10                         | Opt., Wood          | Knit                      | 28                  | 578.00 Pair               |              |
|  | Mini Monitor                                     | QBS Aided   | 5¼                      |                           |               | 1                        | Dome         | T  | 59-22 ±2                                    | 90                      | 30   | 3k                        | 6/4                              | 9 x 7 x 7                            | Opt., Wood          | Knit                      | 16                  | 458.00 Pair               |              |
|  | Pressure Zone Subwoofer                          | Powered Inf. Baf. Subwoof.                                    | 12                      |                           |               |                          |              | W  | 16-100 ±2                                   | 100                     | 200 Inc.                                     | 45-125 (Var.)             | 1k                               | 13 x 16 x 20                         | Opt.                | Knit                      | 70                  | 996.00 Each               |              |
|  | Impact Subwoofer                                 | Vented 4th Order Subwoof.                                     | (2)12                   |                           |               |                          |              | W  | 18-100 ±3                                   | 92                      | 30   | 55,95                     | 8/4                              | 16 x 16 x 27                         | Opt.                | Knit                      | 95                  | 796.00 Each               |              |
|  | Powered Impact Subwoofer                         | Powered, Vented 6th Order Subwoof.                            | (2)12                   |                           |               |                          |              | W  | 16-100 ±2                                   | 100                     | 200 Inc.                                     | 55-125 (Var.)             | 1k                               | 16 x 16 x 27                         | Opt.                | Knit                      | 115                 | 1296.00 Each              |              |
| Cinema Center Channel Dialogue Monologue | 4th Order Butterworth, Ctr. Ch. Powered Ctr. Ch. | (2)7  |                         |                           | 1             | Dome                     | T            | 48-22 ±2   | 96  | 30                      | 3k   | 6/4                       | 9 x 10 x 27                      | Opt.                                 | Knit                | 40                        | 996.00 Each         |                           |              |
|  | Powered Ctr. Ch.                                 | (2)7  |                         |                           | 1             | Dome                     | T            | 48-22 ±3   | 100   | 150 Inc.                | 2.5k   | 1k                        | 9 x 10 x 27                      | Blk. Lacq.                           | Knit                | 42                        | 799.00 Each         |                           |              |
|  |  | (2)5¼   |                         |                           | 1             | Dome                     | T            | 65-22 ±3   | 93  | 15                      | 3.2k   | 4/4                       | 6 x 8 x 18                       | Blk. Lacq.                           | Knit                | 20                        | 299.00 Each         |                           |              |
| LEGEND                                   | 3000   | In-Wall   | 8½                      |                           |               | 1                        | Dome         |  | 25-24                                       | 91                      | 30   | 3k                        | 8/                               | 14 x 11                              | Wht. Opt.           | Wht. Opt.                 | 17                  | 459.00 Pair               |              |
|  | 4000   | In-Wall   | 8½                      |                           |               | 1½                       | Dome         |  | 25-30                                       | 91                      | 30   | 3k                        | 8/                               | 14 x 11                              | Wht. Opt.           | Wht. Opt.                 | 17                  | 559.00 Pair               |              |
|  | 1000   | In-Wall   | 6½                      |                           |               | 1                        | Dome         |  | 35-24                                       | 91                      | 30   | 3k                        | 8/                               | 12 x 9                               | Wht. Opt.           | Wht. Opt.                 | 7                   | 369.00 Pair               |              |
|  | 2000   | In-Wall   | 6½                      |                           |               | 1½                       | Dome         |  | 35-30                                       | 91                      | 30   | 3k                        | 8/                               | 12 x 9                               | Wht. Opt.           | Wht. Opt.                 | 8                   | 489.00 Pair               |              |
|  | S-1  | Subwoof.  | (2)10                   |                           |               |                          |              |  | 25-140                                      | 90                      | 30   | 140                       | 4/                               | 14 x 14                              | Wht. Opt.           | Wht. Opt.                 | 8                   | 600.00 Pair               |              |
|  | S-2  | Subwoof.  | 10                      |                           |               |                          |              |  | 25-140                                      | 90                      | 30   | 140                       | 8/                               | 14 x 14                              | Wht. Opt.           | Wht. Opt.                 | 8                   | 475.00 Each               |              |
|  | LEG-80   | Outdoor Sat.  | 4                       |                           |               | 1                        | Dome         |  | 70-20                                       | 84                      | 5  | 2.5k                      | 8/                               | 8 x 5 x 5                            | Wht. Opt.           | Wht. Opt.                 | 3                   | 185.00 Pair               |              |
|  | P. E. LÉON                                       | Junior AT 1   | Tuned Port              | 8                         |               |                          | ¾            | Cone   |   | 45-20 ±3                | 90   | 15                        |                                  | 8/4                                  |                     | Blk. Blk.                 | Blk. Blk.           | 13                        | 775.00 Pair  |
| Quattro ML2                              |  | Tuned Port  | (2)5                    |                           |               | 1                        | Dome         |  | 50-20 ±3                                    | 90                      | 20   |                           | 8/4                              |                                      | Blk. Blk.           | Blk. Blk.                 | 24                  | 1360.00 Pair              |              |
| Triolog                                  |  | Tuned Port  | (2)7                    |                           |               | 1                        | Dome         |  | 45-20 ±3                                    | 89                      | 20   |                           | 8/4                              |                                      | Blk. Blk.           | Blk. Blk.                 | 18                  | 1450.00 Pair              |              |
|  |  | Tuned Port  | (2)7                    |                           |               | 1                        | Dome         |  | 40-22 ±3                                    | 90                      | 20   |                           | 8/4                              |                                      | Blk. Blk.           | Blk. Blk.                 | 35                  | 1795.00 Pair              |              |
|  |  | Tuned Port  | (2)7                    |                           |               | 1                        | Dome         |  | 35-22 ±2                                    | 90                      | 20   |                           | 8/4                              |                                      | Opt. Blk.           | Blk. Blk.                 | 48                  | From 2550.00 Pair         |              |
| Integraie                                |  | Tuned Port  | (2)10                   | 5                         | Cone          | ¾                        | Dome         |  | 30-22 ±2                                    | 89                      | 25   |                           | 8/4                              |                                      | Opt. Blk.           | Blk. Blk.                 | 83                  | From 3995.00 Pair         |              |
| Epsilon                                  |  | Tuned Port  | (2)7                    | 4                         | Cone          | (2)1                     | Domes        |  | 35-22 ±2                                    | 88                      | 50   |                           | 8/4                              |                                      | Opt. Blk.           | Blk. Blk.                 | 110                 | From 6575.00 Pair         |              |
| M5                                       | Tuned Port                                       | 12, (2)8  | 3                       | Dome                      | 1             | Dome                     |              | 28-22 ±2   | 89  | 50                      |  | 8/7                       |                                  | Opt. Blk.                            | Blk. Blk.           | 154                       | From 11,400.00 Pair |                           |              |
| LINAÉUM                                  | Extreme LFX                                      | Ported  | 7                       |                           |               | 2                        | Linaeum      |  | 60-30                                       | 90                      | 30   | 3k                        | 4/3                              | 9 x 7 x 14                           | Blk. Ash Opt.       | Blk. Blk.                 | 15                  | 300.00 Pair               |              |
|  |  | Ported  | 5¼                      |                           |               | 1¼                       | Linaeum      |  | 70-30                                       | 89                      | 60   | 2.7k                      | 4/3                              | 7 x 7 x 10                           | Blk. Ash Opt.       | Blk. Blk.                 | 9                   | From 600.00 Pair          |              |
|  | LS2 1  | Ported  | 8                       | 6                         | Linaeum       | 1¼                       | Linaeum      |  | 35-23                                       | 90                      | 60   | 600                       | 8/5                              | 11 x 9 x 42                          | Blk. Ash Gloss Blk. | Blk. Blk.                 | 56                  | 895.00 Pair               |              |
|  |  | Ported  | 8                       | 6                         | Linaeum       | 1¼                       | Linaeum      |  | 35-23                                       | 90                      | 60   | 600                       | 8/                               | 11 x 9 x 42                          | Blk. Ash Gloss Blk. | Blk. Blk.                 | 59                  | 2500.00 Pair              |              |
| 3  | Ported   | 10  | 6                       | Linaeum                   | 1¼            | Linaeum                  |              | 25-30  | 91  | 60                      | 450,15k                                      | 8/                        | 14 x 19 x 44                     | Blk. Gloss Blk.                      | Blk. Blk.           | 83                        | 4800.00 Pair        |                           |              |
| 9B System                                | Panels & 2 Subs.                                 | (2)10, 8  | (9)6                    | Linaeum                   | 1¼            | Linaeum                  | W, M/T       | 20-23  | 94, 85                                      | 30, 100                 | 80,200                                       | 6/, 4/                    | Four Pieces                      | Blk. Gloss Blk.                      | Blk. Blk.           | 920 Sys.                  | 16,750.00 Sys.      |                           |              |
| LINN                                     | Keltik   | Isobarik  | (2)9x12                 | 5                         | Cone          | ¾                        | Dome         |  | 20-20 ±1                                    | 70                      |  | Ext.                      | 8/4                              | 10 x 15 x 41                         | Opt. Blk.           | Blk. Knit                 | 121                 | 8995.00 Pair              |              |
|  | Kaber Keilidh Index                              | Inf. Baf.   | (2)5                    |                           |               | ¾                        | Dome         |  | 60-20 ±3                                    | 87                      | 50   | 300,2.7k                  | 8/4                              | 7 x 10 x 35                          | Opt. Blk.           | Blk. Knit                 | 59                  | 2595.00 Pair              |              |
|  | Tukan Sekrit                                     | Inf. Baf.   | (2)6                    |                           |               | ¾                        | Dome         |  | 50-20 ±2                                    | 87                      | 50   |                           | 8/6                              | 8 x 10 x 33                          | Opt. Blk.           | Blk. Knit                 | 37                  | 1295.00 Pair              |              |
|  |  | Ported  | 6                       |                           |               | ¾                        | Dome         |  | 70-20 ±3                                    | 87                      | 50   | 3.5k                      | 8/6                              | 8 x 9 x 17                           | Blk. Vnl. Blk. Wal. | Blk. Knit                 | 17                  | 595.00 Pair               |              |
|  |  | In-Wall/On-Wall   | 5                       |                           |               | ¾                        | Dome         |  | 80-20 ±3                                    | 87                      | 30   |                           | 8/                               | 7 x 7 x 12                           | Blk. Wal.           | Blk. Knit                 | 11                  | 750.00 Pair               |              |
|  |  | Inf. Baf.; Ctr. Ch.   | (2)6                    |                           |               | ¾                        | Dome         |  | 70-20 ±3                                    | 87                      | 30   |                           | 4/                               | 8 x 4 x 17                           |                     | Blk. Knit                 | 7                   |                           |              |
| DAVID LUCAS, INC.                        | Audiocell-P Double                               | ES  |                         |                           |               |                          |              |  | 30-35 ±3                                    | 87                      | 30   |                           | 8/4                              | 26 x 40 x 2                          | Alum. Blk.          | Blk. Knit                 | 38                  | 1995.00 Pair              |              |
|  | Audiocell-P                                      | ES  |                         |                           |               |                          |              |  | 30-35 ±3                                    | 90                      | 30   |                           | 8/4                              | 26 x 80 x 2                          | Alum. Blk.          | Blk. Knit                 | 166                 | 4385.00 Pair              |              |
|  | Audiocell-A (w/Controller)                       | ES  |                         |                           |               |                          |              |  | 30-35 ±2                                    | 87                      | 60   |                           | 8/2                              | 26 x 40 x 2                          | Alum. Blk.          | Blk. Knit                 | 76                  | 2790.00 Pair              |              |
|  | Double Audiocell-A (w/Controller)                | ES  |                         |                           |               |                          |              |  | 30-35 ±2                                    | 90                      | 60   |                           | 8/2                              | 26 x 80 x 2                          | Alum. Blk.          | Blk. Knit                 | 166                 | 5180.00 Pair              |              |
|  | Ballistic Bass (w/Controller)                    | Hybrid ES Subwoof.  | (8)10, (2)26x40         | (4)12                     |               |                          |              |  |   | 15-125 ±3               | 86   | 200                       |                                  | 8/3                                  | 26 x 80 x 18        | Alum. Blk.                | Blk. Knit           | 300                       | 5350.00 Pair |
|  | AE-1   | Dipole  | (4)12                   |                           |               | 1                        | Dipole Dome  | T  | 26-40 ±3                                    | 88                      | 75   | 4k                        | 8/4                              | 15 x 60 x 4                          | Oak Blk.            | Blk. Knit                 | 70                  | 1995.00 Pair              |              |
| MACH 1 ACOUSTICS (Continued)             | M-One  | Inf. Baf.   | 5                       |                           |               | 1                        | Dome         |  | 80-20 ±3                                    | 88                      | 30   |                           | 8/4                              | 8 x 12 x 9                           | Blk. Blk.           | Blk. Knit                 | 15                  | 995.00 Pair               |              |
|  | M-Two  | Inf. Baf.; D'Appolito   | 5                       |                           |               | 1                        | Dome         |  | 80-20 ±3                                    | 92                      | 20   |                           | 6/3                              | 8 x 18 x 9                           | Blk. Blk.           | Blk. Knit                 | 20                  | 1495.00 Pair              |              |
|  | M-Two Five                                       | Inf. Baf.; D'Appolito   | 6½                      |                           |               | 1                        | Dome         |  | 70-20 ±3                                    | 92                      | 20   |                           | 6/3                              | 10 x 21 x 10                         | Blk. Blk.           | Blk. Knit                 | 30                  | 2495.00 Pair              |              |

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# LOUDSPEAKERS

| MANUFACTURER                 | Model                            | Application, Design Principle, Enclosure or System Type | Woofer Diameter, inches | Midrange Diameter, inches | Midrange Type  | Tweeter Diameter, inches | Tweeter Type         | Separate Level Controls? Woofer=M, Midrange=M, Tweeter=T, Super Tweeter=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum   | Dimensions, inches (To Nearest Inch) | Finish                 | Grille Color and Material | Weight, Lbs. Each | Price, \$                 |
|------------------------------|----------------------------------|---|-------------------------|---------------------------|----------------|--------------------------|----------------------|--|---|-------------------------|--|---------------------------|------------------------------------|--------------------------------------|------------------------|---------------------------|-------------------|---------------------------|
| MACH 1 ACOUSTICS (Continued) | M-Three                          | Inf. Baf.   | 10                      | 5                         | Cone           | 1                        | Dome                 |  | 30-20 ±3                                    | 88                      | 50   |                           | 8/4                                | 12 x 48 x 16                         | Opt., Oil Wood         | Blk. Knit                 | 110               | 3495.00 Pair              |
|                              | M-Four.Five                      | Inf. Baf.   | (2)10                   | (2)5                      | Cones          | (2)1.2 1/2               | Domes, Planar Ribbon |  | 30-35 ±3                                    | 92                      | 30   |                           | 4/2                                | 12 x 48 x 16                         | Opt., Oil Wood         | Blk. Knit                 | 125               | 5995.00 Pair              |
|                              | DM-5                             | Inf. Baf.   | 5                       |                           |                | 1 1/4                    | Dome Inv.            |  | 80-25 ±3                                    | 88                      | 30   |                           | 8/4                                | 8 x 12 x 9                           | Opt.                   | Opt.                      | 15                | 3495.00 Pair              |
|                              | DM-10                            | Inf. Baf.   | 9                       | 4                         | Inv. Dome Cone | 1                        | Dome Inv.            |  | 40-40 ±3                                    | 88                      | 50   |                           | 6/3                                | 11 x 44 x 14                         | Opt.                   | Opt.                      | 110               | 7995.00 Pair              |
|                              | DM-10 Signature                  | Inf. Baf.   | 10                      | 5                         |                | 1                        | Dome Inv.            |  | 30-40 ±3                                    | 88                      | 50   |                           | 8/4                                | 12 x 48 x 16                         | Opt.                   | Opt.                      | 135               | 10,995.00 Pair            |
|                              | DM-100                           | Inf. Baf.   | (2)10                   | (2)5                      | Cones          | (2)1 1/4, 3              | Domes, Ribbon        |  | 30-40 ±3                                    | 92                      | 30   |                           | 4/2                                | 12 x 48 x 16                         | Opt.                   | Opt.                      | 145               | 18,995.00 Pair            |
|                              | DM-1000 System                   | Powered; 2 Floor-Standing Sats. & 2 Subs.               | 15,10                   | (2)5                      | Cones          | (2)1 1/4, 3              | Domes, Ribbon        |  | 20-40 ±3                                    | 88                      | Inc.   |                           | Four Spkrs., Four Amps, Two Xovers | Opt.                                 | Opt.                   | 1000 Sys.                 | 149,995.00 Sys.   |                           |
| MADISOUND                    | MDY-3                            | Aperiodic   | 6 1/2                   |                           |                | 1                        | Dome                 |  | 50-20                                       | 88                      | 50   | 2.5k                      | 6/5                                | 16 x 9 x 12                          | Opt., Oak              | Blk. Knit                 | 24                | Kit, 535.00 Pair          |
|                              | Sub II                           | Aperiodic Subwoof.                                      | 12                      |                           |                |                          |                      |  | 36-120                                      | 89                      | 100  | 120                       | 4/3                                |                                      | Blk. Oak               | Blk. Knit                 | 68                | Kit, 375.00 Pair          |
|                              | Sledgling                        | Sealed  | 6 1/2                   |                           |                | 3/4                      | Dome                 |  |   | 90                      |  | 3.2k                      | 4/3.5                              | 9 x 12 x 6                           | Opt.                   | Blk. Knit                 | 12                | Kit, 150.00 Pair          |
|                              | Cygnat                           | Vented  | 8                       |                           |                | 1                        | Dome                 |  | 40-18 ±3                                    | 87                      | 30   | 3k                        | 8/                                 | 12 x 19 x 11                         | Opt., Oak              | Blk. Knit                 | 30                | Kit, 375.00 Pair          |
|                              | Infrabass                        | Vented Subwoof.   | (2)10                   |                           |                |                          |                      |  | 35-120 ±3                                   | 89                      | 50   | 120                       | 8/6.2                              | 29 x 18 x 16                         | Opt., Oak              | Blk. Knit                 | 70                | Kit, 415.00 Each          |
|                              | WS006                            | In-Wall   | 6                       |                           |                | 1                        | Dome                 |  | 45-20 ±3                                    | 90                      | 40   | 3k                        | 8/6                                | 12 x 9 x 4                           | Wht.                   | Wht. Mtl. Mesh            | 5                 | 140.00 Pair               |
|                              | WS008A                           | In-Wall   | 8                       |                           |                | 1                        | Dome                 |  | 35-20 ±6                                    | 89                      | 30   | 2.8k                      | 8/6                                | 10 x 10 x 4                          | Wht.                   | Wht. Mtl. Mesh            | 4                 | 248.00 Pair               |
| MAGNEPAN                     | SMG c                            | Dipole  | 370 Sq. In.             |                           |                | 1 1/2 x 38               | Quasi Ribbon         | T  | 50-26 ±3                                    | 87                      | 40   | 900                       | 4/4                                | 17 x 48 x 2                          | Opt.                   | Opt.                      | 30                | 690.00 Pair               |
|                              | MG.6/QR                          | Dipole  | 420 Sq. In.             |                           |                | 1 1/2 x 40               | Quasi Ribbon         | T  | 45-26 ±3                                    | 85                      | 50   | 900                       | 4/4                                | 19 x 50 x 2                          | Opt.                   | Opt.                      | 35                | 995.00 Pair               |
|                              | MG1.5/QR                         | Dipole  | 480 Sq. In.             |                           |                | 1 1/2 x 52               | Quasi Ribbon         | T  | 40-26 ±3                                    | 85                      | 50   | 900                       | 4/4                                | 19 x 64 x 2                          | Opt.                   | Opt.                      | 45                | 1350.00 Pair              |
|                              | MG2.7/QR                         | Dipole  | 620 Sq. In.             | 98                        | Planar Mag.    | 1 1/2 x 56               | Quasi Ribbon         | M,T  | 34-26 ±3                                    | 87                      | 75   | 600,950                   | 4/4                                | 22 x 71 x 2                          | Opt.                   | Opt.                      | 56                | 1995.00 Pair              |
|                              | MG3.5/R                          | Dipole  | 620 Sq. In.             | 170                       | Planar Mag.    | 1 1/2 x 60               | Quasi Ribbon         | T  | 34-40 ±3                                    | 86                      | 75   | 250,1k                    | 4/3                                | 24 x 71 x 2                          | Opt.                   | Opt.                      | 68                | 3150.00 Pair              |
|                              | MG-20                            | Dipole  | 880 Sq. In.             | 3x48                      | Planar Mag.    | 1 1/2 x 60               | Quasi Ribbon         | T  | 20-40 ±3                                    | 87                      | 100  | 150,3k                    | 4/3                                | 29 x 79 x 2                          | Opt.                   | Opt.                      | 125               | 9200.00 Pair              |
|                              | MG-10                            | Dipole  | 340 Sq. In.             |                           |                | 1 1/2 x 55               | Quasi Ribbon         | T  | 80-26 ±3                                    | 86                      | 50   | 1.1k                      | 4/4                                | 11 x 63 x 2                          | Opt.                   | Opt.                      | 28                | 1175.00 Pair              |
| MANLEY LABS                  | ML10                             | Ported; Dual Concent.                                   | 10                      |                           |                | 1 1/2                    | Horn                 | T  | 55-20 ±3                                    | 90                      | 50   | 1.9k                      | 8/4                                | 21 x 15 x 10                         | Opt., Wood             |                           | 49                | 2095.00 Pair              |
| MARQUIS ELECTRONICS          | Monitor Seven                    | Sealed  | 6 1/2                   |                           |                | 1                        | Dome                 |  | 60-20                                       | 85                      | 20   | 3.5k                      | 8/7                                | 9 x 9 x 15                           | Wal                    | Blk. Knit                 | 16                | 495.00 Pair               |
|                              | Ducote Ten Reference One         | Sealed Sat. & Motional Feedback Woofer                  | 10 15                   | (2)5 1/4                  | Cones          | 1 1                      | Dome Dome            |  | 42-20 20-20                                 | 90 89                   | 30 50 100                                    | 2k 125.3.5k               | 8/5 4/3                            | 15 x 12 x 25 Three Pieces            | Wal Blk Lacq.          | Blk. Knit Blk. Knit       | 46 300            | 1100.00 Pair 5600.00 Sys. |
| MARTIN-LOGAN                 | Stylos Logos                     | In-Wall Ctr. Ch.; Inf. Baf.                             | 6 1/2 6 1/2             | (2) 15x9                  | ES             | 9x39 1                   | ES Dome              |  | 50-20 ±3 50-20 ±3                           | 88 90                   |  | 700 200,5k                | 4/3                                | 63 x 10 x 5 11 x 41 x 12             | Opt. Opt.              | Opt. Opt.                 | 40 40             | 2750.00 Pair 1750.00 Each |
|                              | The Statement                    | ES & Woofer   | (4)12                   |                           |                | 36x72                    | ES                   | W,T  | 16-22 ±1.5                                  | 90                      | 100  | 100                       | 6/3                                | Two Pieces Per Side                  | Opt.                   | Opt.                      | 2000 Sys.         | 60,000.00 Sys.            |
|                              | The Monolith IIIb                | ES & Inf. Baf. Subwoof.                                 | 12                      |                           |                | 24x48                    | ES                   | W,T  | 28-24 ±2                                    | 90                      | 75   | 125                       | 6/2                                | 74 x 27 x 12                         | Opt.                   | Opt.                      | 265 Sys.          | 9000.00 Pair              |
|                              | The Monolith IIIp                | ES & Inf. Baf. Subwoof.                                 | 12                      |                           |                | 24x48                    | ES                   | W,T  | 30-24 ±2                                    | 90                      | 75   | 125                       | 4/2                                | Two Pieces Per Side                  | Opt.                   | Opt.                      | 272 Sys.          | 6500.00 Sys.              |
|                              | The Quest                        | ES & Inf. Baf. Subwoof.                                 | 12                      |                           |                | 18x48                    | ES                   | W,T  | 28-24 ±2                                    | 90                      | 100  | 150                       | 6/2                                | 73 x 19 x 18                         | Opt.                   | Opt.                      | 125 Sys.          | 3995.00 Pair              |
|                              | The Sequel II                    | ES & Inf. Baf. Subwoof.                                 | 10                      |                           |                | 12x48                    | ES                   | W  | 30-24 ±2                                    | 89                      | 50   | 250                       | 6/2                                | 14 x 72 x 13                         | Opt.                   |                           | 100               | 2995.00 Pair              |
|                              | The CLS II Aeries                | ES & Inf. Baf. Woofer                                   | 24x48 8                 |                           |                | 9 1/2 x 40               | ES                   |  | 45-20 ±2 40-20 ±3                           | 85 89                   | 100 60                                       | 500                       | 6/1.5 4/2                          | 28 x 58 x 14 55 x 10 x 13            | Opt. Blk.              | Blk.                      | 75 55             | 3500.00 Pair 1995.00 Pair |
| MASTER-CRAFT AUDIO           | Black Diamond                    | Ac. Sus.  | (2)8                    |                           |                | 1                        | Dome                 | T  | 37-27 ±3                                    | 91                      | 30   | 1.2k,3.3k                 | 6/                                 | 30 x 15 x 8                          | Blk. Oak               | Blk. Knit                 | 44                | 1549.00 Pair              |
|                              | Black Ruby                       | Ac. Sus.  | 8                       |                           |                | 1                        | Dome                 | T  | 40-27 ±3                                    | 89                      | 30   | 3.1k                      | 8/                                 | 12 x 6 x 26                          | Blk. Oak               | Blk. Knit                 | 30                | 1159.00 Pair              |
|                              | Black Pearl                      | Ac. Sus.  | 8                       |                           |                | 1                        | Dome                 | W  | 50-22 ±3                                    | 91                      | 20   | 3.1k                      | 8/                                 | 14 x 10 x 8                          | Blk. Oak               | Blk. Knit                 | 21                | 599.00 Pair               |
|                              | Black Emerald                    | Ac. Sus. Subwoof.                                       | 12                      |                           |                | 1                        | Dome                 |  | 28-150 ±3                                   | 89                      | 50   | 150                       | 8/                                 | 30 x 15 x 10                         | Blk. Oak               | Blk. Knit                 | 42                | 749.00 Each               |
|                              | Music Monitor                    | Ac. Sus.  | 10                      |                           |                | 1                        | Dome                 |  | 40-22 ±3                                    | 92                      | 20   | 2.5k                      | 8/                                 | 26 x 15 x 11                         | Oak                    | Blk. Knit                 | 30                | 699.00 Pair               |
| MAVRICK                      | Ultimate Reference Signature One | Contained Rear Wave & Bandpass Subwoof.                 | (2)18                   | (16)                      | Ribbons        |                          | Ribbon               |  | 15-44 ±2                                    | 90                      | 100  |                           | 5/3.5                              | Six Pieces                           | Opt.                   | Blk. Knit                 |                   | 44,000.00 Sys.            |
| MBL                          | 101                              | Omni, Sealed  |                         |                           |                |                          |                      |  | 38-70                                       | 80                      | 200  | 600,3.5k                  | 8/4                                | 16 x 44 x 16                         | Piano Blk. Opt., Lacq. | Blk. Mtl.                 | 77                | 29,000.00 Pair            |
|                              | 300                              | Vented  | (3)5                    | 5.2                       | Cone, Dome     | 3/8                      | Dome                 |  | 28-45                                       | 86                      | 110  | 250,850, 3.5k             | 8/4                                | 8 x 10 x 45                          | Blk. Opt., Lacq.       | Blk. Cloth                | 49                | 9705.00 Pair              |
|                              | 301                              | Vented  | (2)5                    | 2                         | Dome           | 3/8                      | Dome                 |  | 29-45                                       | 85                      | 80   | 120,800, 4k               | 8/4                                | 8 x 10 x 45                          | Blk. Opt., Lacq.       | Blk. Cloth                | 33                | 5472.00 Pair              |
|                              | 311C                             | Vented  | 5                       | 2                         | Dome           | 3/8                      | Dome                 |  | 38-45                                       | 84                      | 50   | 150,700, 3.5k             | 8/4                                | 8 x 10 x 17                          | Blk. Opt., Lacq.       | Blk. Cloth                | 13                | 3855.00 Pair              |
|                              | 321                              | Vented  | 5                       |                           |                | (2)1                     | Domes                |  | 43-34                                       | 84                      | 40   | 180,2.5k                  | 8/4                                | 7 x 10 x 14                          | Blk. Opt., Lacq.       | Blk. Cloth                | 9                 | 2013.00 Pair              |
|                              | 201                              | Powered, Vented Subwoof.                                | 12                      |                           |                |                          |                      | W  | 18-96                                       | Inc.                    | 48/68/96 (Sel.)                              | 22k                       | 16 x 16 x 20                       | Blk. Opt., Lacq.                     | Blk. Mtl.              | 66                        | 4791.00 Each      |                           |
|                              | 211                              | Powered, Vented Subwoof.                                | 10                      |                           |                |                          |                      | W  | 18-140                                      | Inc.                    | 100/140/700 (Sel.)                           | 22k                       | 16 x 19 x 18                       | Lacq.                                | Blk.                   | 55                        | 2802.00 Each      |                           |

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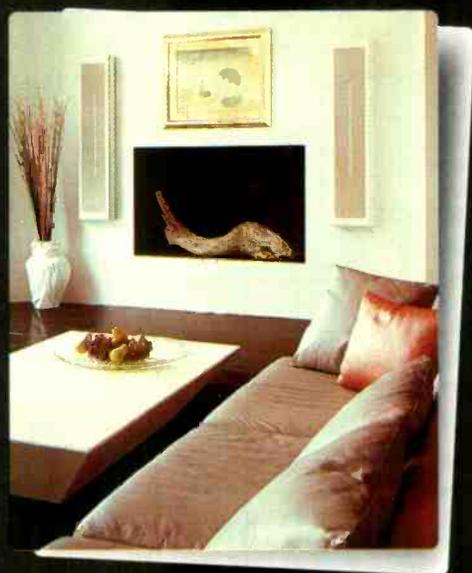
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# LOUDSPEAKERS

| MANUFACTURER              | Model                              | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls: Woofer = W, Midrange = M, Tweeter = T, Super Tweeter = ST | Anechoic Frequency Response, Hz to Hz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish          | Grille Color and Material | Weight, Lbs. Each | Price, \$            |
|---------------------------|------------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-----------------|---------------------------|-------------------|----------------------|
| MB QUART                  | Quart 250                          | Indoor/Outdoor; Inf. Baf.                               | 5/4                     |                           |               | 1/2                      | Dome         |  | 78-22                                      | 50                      | 3.2k   | 4/                        | 8 x 10 x 4                       | Fbgls.                               | Opt.            |                           | 329.00 Pair       |                      |
|                           | Quart One                          | Bass Ref.   | 6 1/2                   |                           |               | 1                        | Dome         |  | 49-32                                      | 60                      | 2.8k   | 4/                        | 9 x 14 x 10                      | Opt.                                 | Opt.            | 13                        | 399.00 Pair       |                      |
|                           | Quart Two XL                       | Bass Ref.   | 6 1/2                   |                           |               | 1                        | Dome         |  | 42-32                                      | 80                      | 2.8k   | 4/                        | 9 x 33 x 10                      | Opt.                                 | Opt.            | 24                        | 549.00 Pair       |                      |
|                           | Quart Three                        | Bass Ref.   | (2)6 1/2                |                           |               | 1                        | Dome         |  | 33-32                                      | 90                      | 120  | 4/                        | 9 x 36 x 10                      | Opt.                                 | Opt.            | 32                        | 799.00 Pair       |                      |
|                           | Quart 500                          | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  |  | 110                     |  | 4/                        | 18 x 11 x 12                     | Opt.                                 | Opt.            | 23                        | 799.00 Pair       |                      |
|                           | Quart 502                          | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 35-22                                      | 90                      | 15   | 3.1k                      | 4/4                              | 19 x 12 x 12                         | Opt.            | Opt.                      | 30                | 849.00 Pair          |
|                           | Quart 600                          | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  |  | 110                     |  | 4/                        | 32 x 10 x 11                     | Opt.                                 | Opt.            | 35                        | 999.00 Pair       |                      |
|                           | Quart 1000                         | Bass Ref.   | 8                       | 6 1/2                     | Cone          | 1                        | Dome         |  |  | 140                     |  | 4/                        | 40 x 11 x 12                     | Opt.                                 | Opt.            | 52                        | 1499.00 Pair      |                      |
|                           | Quart 1600                         | Bass Ref.   | (2)6 1/2                |                           |               | 1                        | Dome         |  |  | 140                     |  | 4/                        | 43 x 13 x 15                     | Opt.                                 | Opt.            | 44                        | 1999.00 Pair      |                      |
|                           | Quart 2000                         | Bass Ref.   | (2)8                    | (2)5 1/4                  | Cones         | 1                        | Dome         |  |  | 200                     |  | 4/                        | 48 x 11 x 14                     | Opt.                                 | Opt.            | 73                        | 2799.00 Pair      |                      |
| Quart 90M                 | In-Wall; Bass Ref.                 | 8   |                         |                           | 1             | Dome                     |              | 75-22  | 87   | 15                      | 45   | 8/6                       | 12 x 10 x 3                      | Wht.                                 | Wht.            | 2                         | 649.00 Pair       |                      |
| 80M                       | In-Wall; Bass Ref.                 | 5 1/4   |                         |                           | 1/2           | Dome                     |              | 70-22  | 87   | 15                      | 3k   | 6/6                       | 9 x 7 x 3                        | Wht.                                 | Wht.            | 8                         | 329.00 Each       |                      |
| CTR                       | Bass Ref.                          | 5 1/4   |                         |                           | 3/4           | Dome                     |              | 38-150   | 89   | Inc.                    | 50-150 (Adj.)                                | 6/6                       | 13 x 15 x 15                     | Blk.                                 | Blk.            | 40                        | 229.00 Each       |                      |
| SUB Ten                   | Powered Subwoofer.                 | 10  |                         |                           |               |                          | W            |  |  |                         |  |                           |                                  | Blk.                                 | Blk.            |                           | 479.00 Each       |                      |
| Point Five                | Ac. Sus.                           | 6 1/2   |                         |                           | 3/4           | Dome                     |              | 68-22  | 87   | 15                      | 2.5k   | 6/6                       | 12 x 9 x 8                       | Blk.                                 | Blk.            | 8                         | From 299.00 Pair  |                      |
| McINTOSH                  | WS 210                             | In-Wall; Inf. Baf.                                      | 6                       |                           |               | 1                        | Dome         |  | 60-22                                      | 87                      | 40   | 1.8k                      | 4/                               |                                      | Mtl.            | Wht.                      |                   | 500.00 Pair          |
|                           | WS 220                             | In-Wall; Inf. Baf.                                      | 8                       |                           |               | 1                        | Dome         |  | 58-22 ±2                                   | 87                      | 50   | 2.5k                      | 4/                               | 19 x 11 x 11                         | Mtl.            | Wht.                      | 49                | 1000.00 Pair         |
|                           | LS 310                             | Inf. Baf.   | 8                       |                           |               | 1                        | Dome         |  |  |                         |  | 4/                        |                                  | Opt.                                 | Wht.            |                           | 1000.00 Pair      |                      |
|                           | LS 330                             | Inf. Baf.   | (2)8                    |                           |               | 1                        | Dome         |  | 55-22 ±2                                   | 88                      | 75   | 3.5k                      | 4/                               | 36 x 13 x 12                         | Wood Opt.       | Blk.                      | 57                | 2000.00 Pair         |
|                           | LS 350                             | Inf. Baf.   | (2)10                   | 5                         | Cone          | 1                        | Dome         |  | 45-22 ±2                                   | 89                      | 100  | 450,2.5k                  | 4/                               | 44 x 16 x 13                         | Wood Opt.       | Blk.                      | 88                | 3000.00 Pair         |
|                           | XRT 24                             | Inf. Baf.   | (2)10                   | 8                         | Cone          | (16)1                    | Domes        |  | 36-22 ±2                                   | 88                      | 200  | 250,1.5k                  | 4/                               | 84 x 15 x 19                         | Wood Opt.       | Blk.                      | 130               | 7500.00 Pair         |
|                           | XRT 26                             | Inf. Baf.   | (2)12                   | 8                         | Cone          | (23)1                    | Domes        |  | 32-22 ±2                                   | 87                      | 200  | 250,1.5k                  | 4/                               | 44 x 16 x 86                         | Wood Opt.       | Blk.                      | 190               | 12,000.00 Pair       |
|                           | XR 290                             | Inf. Baf.   | (4)12                   | (12)5                     | Cones         | (24)1                    | Domes        |  | 20-22 ±2                                   | 87                      | 200  | 400,1.3k                  | 8/                               | 83 x 29 x 13                         | Wood Opt.       | Blk.                      | 348               | 25,000.00 Pair       |
|                           | HT-1                               | THX; Front; Inf. Baf.                                   | (2)8                    |                           |               | (3)1                     | Domes        |  | 55-22 ±2                                   | 89                      | 100  | 1.4k                      | 4/                               | 23 x 16 x 11                         | Wood Opt.       | Blk.                      | 42                | 1000.00 Each         |
|                           | HT-2                               | THX; Vented Subwoofer.                                  | (2)12                   |                           |               |                          |              |  | 42-200 ±2                                  | 91                      | 100  |                           | 4/                               | 21 x 30 x 20                         | Wood Opt.       | Wht.                      | 91                | 1500.00 Each         |
| HT-3                      | THX Surround; In-or On-Wall Dipole | (2)5  |                         |                           | (2)1          | Domes                    |              | 85-12  | 75   | 1.5k                    | 4/   | 16 x 16 x 6               | Wood Wht.                        |                                      | 10              | 2000.00 Pair              |                   |                      |
| HT-4                      | Home Th.; Ctr. Ch.; Inf. Baf.      | (2)6 1/2  |                         |                           | (3)1          | Domes                    |              | 60-22 ±2   | 91   | 1.25k                   | 4/   | 8 x 21 x 11               | Opt., Wood                       | Blk.                                 | 23              | 800.00 Each               |                   |                      |
| MERET AUDIO               | Re                                 | Ported  | 7                       |                           |               | 1                        | Inv. Dome    |  | 70-20 ±1.5                                 | 88                      | 40   |                           | 8/6                              | 17 x 9 x 18                          | Opt.            | Blk. Knit                 | 51                | From 2600.00 Pair    |
|                           | Ay                                 | Ported  | 9                       |                           |               | 1                        | Inv. Dome    |  | 50-20 ±1.5                                 | 88                      | 40   |                           | 8/6                              | 43 x 11 x 31                         | Opt., Wood Ven. | Blk. Knit                 | 145               | From 4200.00 Pair    |
|                           | Ankh                               | Ported  | 5                       |                           |               | 1                        | Dome         |  | 77-20 ±1.5                                 | 87                      | 40   |                           | 8/6                              | 14 x 8 x 13                          | Opt.            | Blk. Knit                 | 35                | From 2100.00 Pair    |
| MERIDIAN                  | DSP6000 (with remote control)      | Powered   | (4)8                    | 6 1/2                     | Cone          | 1                        | Dome         |  | 22-21                                      | 112 Max                 | 200,2.6k                                     |                           |                                  | Two Pieces Per Side                  | Blk. Lacq.      | Blk. Knit                 | 188 Side          | 15,000.00 Pair       |
|                           | DSP5000 (with remote control)      | Powered   | 6 1/2                   | 6 1/2                     | Cone          | 1                        | Dome         |  | 35-21                                      | 108 Max                 | 2.6k   |                           |                                  | 35 x 8 x 12                          | Blk. Ash        | Blk. Knit                 | 69                | 4990.00 Pair         |
|                           | M60H                               | Powered   | 6 1/2                   | 6 1/2                     | Cone          | 1                        | Dome         | W,M,T  | 45-21                                      | 108 Max                 | 2.6k   |                           |                                  | 35 x 8 x 12                          | Blk. Ash        | Blk. Knit                 | 68                | 2995.00 Pair         |
|                           | M30                                | Powered   | 6 1/2                   |                           |               | 1                        | Dome         | W,M,T  | 45-20                                      | 106 Max                 | 2.6k   |                           |                                  | 16 x 7 x 12                          | Blk. Ash        | Blk. Knit                 | 35                | 1990.00 Pair         |
| MERLIN MUSIC SYSTEMS      | EXL I                              | Vented  | 6 1/2                   |                           |               | 1                        | Dome         | T  | 45-19 ±3                                   | 86                      | 30   | 2.7k                      | 8/4                              | 11 x 11 x 38                         | Opt.            | Blk. Knit                 | 77                | 1700.00 Pair         |
|                           | EXL II                             | Vented  | 8                       |                           |               | 1                        | Dome         | T  | 38-20 ±3                                   | 90                      | 30   | 2.2k                      | 8/4                              | 12 x 12 x 42                         | Opt.            | Blk. Knit                 | 70                | 2200.00 Pair         |
|                           | EXL III                            | Vented  | 8                       |                           |               | 1                        | Dome         | M,T  | 33-20 ±3                                   | 88                      | 50   | 500,3k                    | 8/4                              | 13 x 16 x 45                         | Opt.            | Blk. Knit                 | 120               | 3600.00 Pair         |
|                           | EXL IV                             | Vented  | (2)8                    | 4 1/2                     | Cone          | 1                        | Dome         | M,T  | 30-20 ±3                                   | 89                      | 50   | 500,3k                    | 8/4                              | 13 x 16 x 62                         | Opt.            | Blk. Knit                 | 180               | 5800.00 Pair         |
|                           | Pendragon III                      | Vented  | 8                       | 4 1/2                     | Cone          | 1                        | Dome         | M,T  | 33-20 ±3                                   | 88                      | 50   | 500,3k                    | 8/4                              | 14 x 17 x 48                         | Opt.            | Blk. Knit                 | 160               | 7100.00 Pair         |
|                           | Excaltur III                       | Vented  | (2)8                    | (2)4 1/2                  | Cones         | 1                        | Dome         | M,T  | 30-20 ±3                                   | 89                      | 100  | 500,3k                    | 8/4                              | 14 x 17 x 64                         | Opt.            | Blk. Knit                 | 250               | 9200.00 Pair         |
|                           | VSM                                | Vented  | 6 1/2                   |                           |               | 1                        | Dome         | No   | 55-20 ±1.75                                | 88                      | 50   | 2.1k                      | 8/5.6                            | 9 x 11 x 43                          | Blk. Lacq.      | Blk.                      | 90                | 3500.00 Pair         |
| METAPHOR ACOUSTIC DESIGNS | Metaphor 2                         | Ported  | (2)7                    | 6 1/2                     | Cone          | 1                        | Inv. Dome    |  | 35-25                                      | 91                      | 30   |                           | 4.5/3.6                          | 43 x 17 x 12                         | Cherry          | Blk. Knit                 | 122               | 5990.00 Pair         |
|                           | Metaphor 5                         | Ported  | 8                       | 6 1/2                     | Cone          | 1                        | Inv. Dome    |  | 35-23                                      | 91                      | 30   |                           | 4.5/3.5                          | 39 x 15 x 11                         | Cherry          | Blk. Knit                 | 85                | 2990.00 Pair         |
| METAXAS AUDIO SYSTEMS     | Emperor                            | ES  |                         |                           |               |                          |              |  | 15-25 ±5                                   | 96                      | 50   | 80                        | 6/4                              | 71 x 48 x 2                          | Gloss           | Opt. Blk.                 | 125               | 32,000.00 Pair       |
|                           | Empress                            | ES  |                         |                           |               |                          |              |  | 30-22 ±5                                   | 86                      | 50   | 80                        | 6/4                              | 60 x 20 x 2                          | Gloss           | Opt. Blk.                 | 40                | 7000.00 Pair         |
|                           | Czar                               | ES  |                         |                           |               |                          |              |  | 20-25 ±5                                   | 92                      | 50   | 80                        | 6/4                              | 71 x 32 x 3                          | Gloss           | Opt. Blk.                 | 90                | 15,000.00 Pair       |
| MICHAEL GREEN DESIGNS     | Chameleon II                       | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 25-20 ±3                                   | 89                      | 50   |                           | 8/4                              | 42 x 12 x 17                         | Opt.            | Blk. Knit                 | 118               | 4450.00 Pair         |
|                           | Chameleon III                      | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 25-20 ±3                                   | 89                      | 50   |                           | 8/4                              | 42 x 12 x 17                         | Opt.            | Blk. Knit                 | 138               | 5700.00 Pair w/Xover |
| MIRAGE                    | MBS                                | A/V; 3rd Order Sealed Bipolar                           | (2)4 1/2                |                           |               | (2)1/2                   | Domes        |  | 120-20 ±3                                  | 88                      | 20   | 3k                        | 8/6                              | 11 x 7 x 5                           | Opt.            | Opt.                      | 7                 | 350.00 Pair          |
|                           | MCC                                | A/V; B4 Dual Vented Ctr. Ch.                            | (2)4 1/2                |                           |               | 1/2                      | Dome         |  | 60-20 ±3                                   | 86                      | 15   | 2.5k                      | 12/8                             | 6 x 20 x 8                           | Blk. Ash        | Blk. Knit                 | 15                | 170.00 Each          |
|                           | M-1si                              | Bipolar   | (2)8                    | (2)4 1/2                  | Cones         | (2)1                     | Hybrid Domes |  | 25-23 ±2                                   | 86                      | 200  | 300,2k                    | 6/4                              | 60 x 20 x 10                         | Blk. Gloss      | Blk.                      | 185               | 5500.00 Pair         |
|                           | M-3si                              | Bipolar   | 10                      | (2)4 1/2                  | Cones         | (2)1                     | Hybrid Domes |  | 30-23 ±2                                   | 87                      | 100  | 350,2k                    | 7/4                              | 53 x 18 x 9                          | Blk. Gloss      | Blk.                      | 135               | 3000.00 Pair         |
|                           | M-5si                              | Bipolar   | (2)6 1/2                |                           |               | (2)1                     | Hybrid Domes |  | 32-23 ±2.5                                 | 87                      | 100  | 2k                        | 6/4                              | 49 x 16 x 8                          | Blk. Gloss      | Blk.                      | 85                | 1800.00 Pair         |
|                           | M-7si                              | Bipolar, Vented   | 8                       | 5                         |               | 1                        | Hybrid Dome  |  | 35-23 ±3                                   | 88                      | 50   | 500,2k                    | 6/4                              | 45 x 14 x 7                          | Blk. Gloss      | Blk.                      | 80                | 1300.00 Pair         |
|                           | M-990                              | Bipolar, Vented   | (2)6 1/2                | 5                         |               | 1                        | Dome         |  | 35-22 ±3                                   | 88                      | 50   | 500,2k                    | 6/4                              | 44 x 10 x 11                         | Opt.            | Blk.                      | 70                | From 1300.00 Pair    |
|                           | M-790                              | Bipolar, Vented   | 8                       | 5                         |               | 1                        | Dome         |  | 38-22 ±3                                   | 87                      | 50   | 500,2k                    | 6/4                              | 39 x 10 x 11                         | Opt.            | Blk.                      | 60                | 1000.00 Pair         |
|                           | M-490                              | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 40-22 ±3                                   | 86                      | 50   | 2k                        | 6/4                              | 19 x 10 x 11                         | Opt., Wood      | Blk.                      | 28                | 600.00 Pair          |

(Continued)

# The Best Subwoofers In The World!



## 12 SUBS TESTED BY SOUND & IMAGE

| MAKE & MODEL...           | SOUND QUALITY |
|---------------------------|---------------|
| a/d/s/ - MS3              | A             |
| Klipsch - SW-12           | A             |
| Janis - System 3A         | A-            |
| Velodyne - VA1012         | B+            |
| M&K - 90                  | B+            |
| PSB - Subsonic II         | B+            |
| Trad - Thunder Silver     | B+            |
| Scanac - DL15             | B             |
| Energy - AS-180           | B-            |
| Kinergetics - 102V        | B-            |
| Infinity - SSW 10         | C-            |
| Sound Dynamics - A SUB-15 | C+            |

Excerpted from Sound & Image Magazine, Summer 1994, "Sub-Mission." Text by Tom Nousaine. Text used with permission. For a complete test report, contact Sound & Image Magazine at 212.767.6020.

"...Sonically, the MS3 had an exceptionally full sound that was absolutely thrilling to hear."

"...This sub also added a great deal of clean and subtle depth to orchestral music that has lots of lows."

"...Everything sounded great with this sub, which went all the way down to 23 Hz in my living room ... and blasted out 104 dB SPL when playing solo."

"...A *bravura* performance."

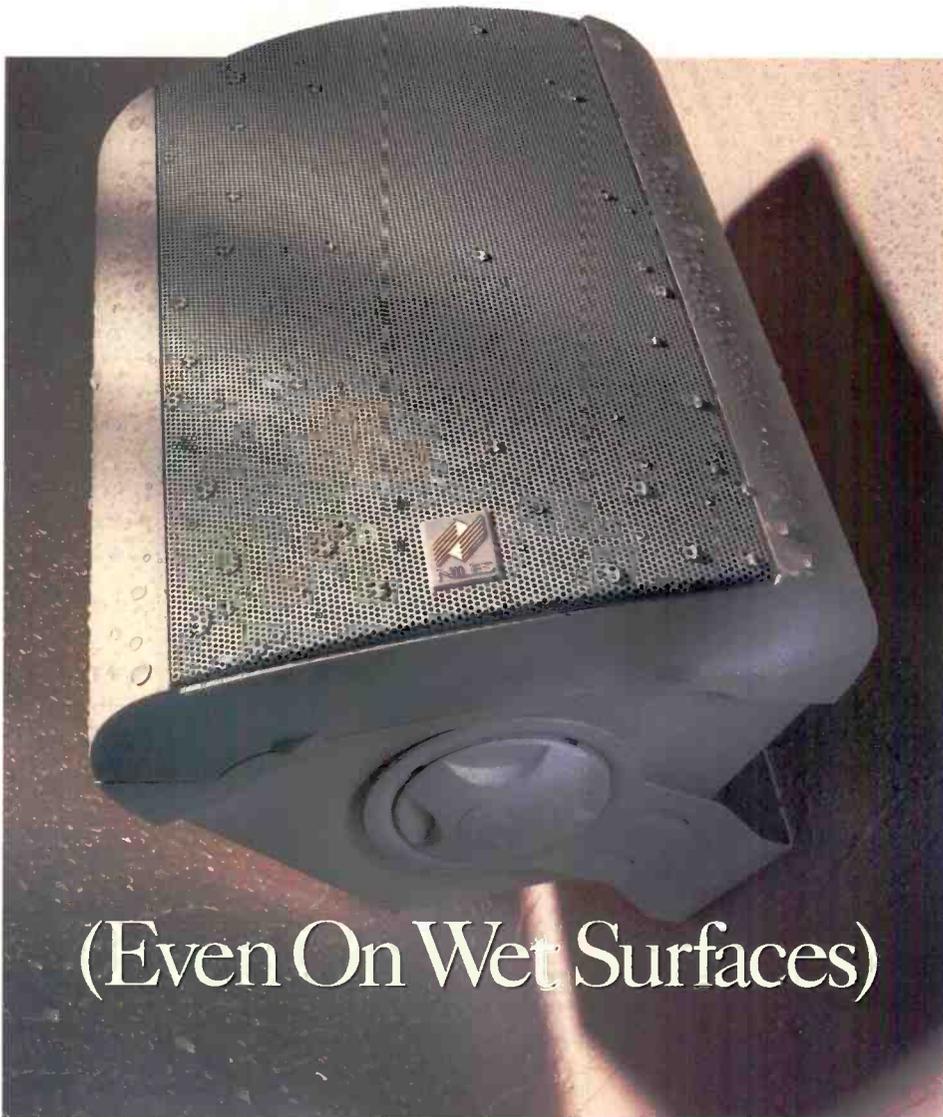
—Tom Nousaine, Sound & Image Magazine

**a/d/s/**  
real music.

# LOUDSPEAKERS

| MANUFACTURER       | Model                     | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W, Midrange-M, Tweeter-T, Super Tweeter-ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish          | Grille Color and Material | Weight, Lbs. Each | Price, \$            |
|--------------------|---------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-----------------|---------------------------|-------------------|----------------------|
| MIRAGE (Continued) | M-290                     | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         |  | 45-22 ±3                                    | 86                      | 50   | 2k                        | 6/4                              | 16 x 9 x 9                           | Opt., Wood      | Blk.                      | 17                | 400.00 Pair          |
|                    | M-90i                     | Bass Ref.   | 5½                      |                           |               | ½                        | Dome         |  | 60-20 ±3                                    | 86                      | 30   | 3.5k                      | 6/4                              | 12 x 7 x 8                           | Opt.            | Blk.                      | 20                | 200.00 Pair          |
|                    | M-190i                    | Bass Ref.   | 6½                      |                           |               | ½                        | Dome         | SW   | 48-23 ±3                                    | 87.5                    | 30   | 2.3k                      | 6/4                              | 14 x 8 x 9                           | Opt.            | Blk.                      | 22                | 250.00 Pair          |
|                    | BPSS-210                  | Powered, Sealed Servo Bipolar Subwoof.                  | (2)10                   |                           |               |                          |              |  | 18-150                                      |                         | 250 Inc.                                     | 42-150 (Var.)             |                                  | 18 x 24 x 17                         | Opt. Blk. Gloss | Blk.                      | 85                | 2200.00 Each w/Xover |
|                    | PS-12-180                 | Powered Subwoof.  | 12                      |                           |               |                          |              | W  | 23-150 +0,-3                                |                         | Inc. Inc.                                    | Var.                      |                                  | 18 x 18 x 20                         | Blk. Ash        | Blk.                      |                   | 750.00 Each          |
|                    | PS-12-90                  | Powered Subwoof.  | 12                      |                           |               |                          |              | W  | 28-150 +0,-3                                |                         | Inc. Inc.                                    | Var.                      |                                  | 17 x 16 x 16                         | Blk. Ash        | Blk.                      |                   | 550.00 Each          |
| MIDS-6.5           | In-Wall                   | 6½  |                         |                           | ½             | Dome                     |              | 45-22 ±3   | 87  | 5                       | 2k   | 8/6                       | 9 x 13 x 3                       | Whit.                                | Whit.           | 4                         | 200.00 Each       |                      |
| MIDS-5.25          | In-Wall, Coaxial          | 5¼  |                         |                           | 1             | Dome                     |              | 60-20 ±3   | 86  | 5                       | 3.5k   | 8/6                       | 7 x 7 x 3                        | Whit.                                | Whit.           | 2                         | 125.00 Each       |                      |
| MC-Si              | Bass Ref., Ctr. Ch.       | (2)5¼   |                         |                           | 1             | Dome                     |              | 45-23 ±3   | 86  | 50                      | 2k   | 8/6                       | 8 x 19 x 12                      | Blk. Gloss                           | Blk.            | 25                        | 600.00 Each       |                      |
| MISSION            | 760i                      | Bass Ref.   | 5¼                      |                           |               | ¾                        | Dome         |  | 60-20 ±2.5                                  | 89                      | 10   |                           | 6/                               | 12 x 8 x 8                           | Blk. Ash        | Blk. Knit                 |                   | 279.00 Pair          |
|                    | 761i                      | Bass Ref.   | (2)5¼                   |                           |               | ¾                        | Dome         |  | 55-20 ±2.5                                  | 89                      | 20   |                           | 8/                               | 15 x 8 x 10                          | Blk. Ash        | Blk. Knit                 |                   | 389.00 Pair          |
|                    | 762i                      | Bass Ref.   | 8                       |                           |               | ¾                        | Dome         |  | 45-20 ±2.5                                  | 92                      | 20   |                           | 8/                               | 20 x 10 x 12                         | Blk. Ash        | Blk. Knit                 |                   | 499.00 Pair          |
|                    | 763i                      | Bass Ref.   | 8                       |                           |               | ¾                        | Dome         |  | 42-20 ±2.5                                  | 92                      | 20   |                           | 8/                               | 31 x 10 x 11                         | Blk. Ash        | Blk. Knit                 |                   | 769.00 Pair          |
|                    | 765i                      | Bass Ref.   | (2)8                    |                           |               | 1                        | Dome         |  | 35-20 ±1.5                                  | 93                      | 20   |                           | 4/                               | 38 x 11 x 14                         | Blk. Ash        | Blk. Knit                 |                   | 1199.00 Pair         |
|                    | 753                       | Inf. Baf., Bass Ref.                                    | (4)5¼                   |                           |               | 1                        | Dome         |  | 40-20 ±1.5                                  | 90                      | 30   |                           |                                  | 35 x 9 x 13                          | Blk.            | Blk. Knit                 |                   | 1799.00 Pair         |
| 752                | Bass Ref.                 | 7½  |                         |                           | 1             | Dome                     |              | 45-20 ±1.5   | 91  | 30                      |  |                           | 35 x 9 x 8                       | Rswd. Blk.                           | Blk. Knit       |                           | 1199.00 Pair      |                      |
| 751                | Bass Ref.                 | 5¼  |                         |                           | 1             | Dome                     |              | 55-20 ±1.5   | 91  | 30                      |  |                           | 13 x 8 x 11                      | Rswd. Blk.                           | Blk. Knit       |                           | 799.00 Pair       |                      |
| M & K SOUND        | MX-90                     | Powered Push-Pull Ac. Sus. Subwoof.                     | (2)12                   |                           |               |                          | W            |  | 20-125 ±2                                   | 125 Inc.                | 50-125 (Adj.)                                | 200/15k                   |                                  | 23 x 16 x 20                         | Opt., Wood      | Blk. Knit                 | 70                | 995.00 Each          |
|                    | MX-80                     | Powered Push-Pull Ac. Sus. Subwoof.                     | (2)12                   |                           |               |                          | W            |  | 20-125 ±2                                   | 75 Inc.                 | 50-125 (Adj.)                                | 200/15k                   |                                  | 23 x 16 x 18                         | Opt., Wood      | Blk. Knit                 | 64                | 850.00 Each          |
|                    | MX-70                     | Powered Push-Pull Ac. Sus. Subwoof.                     | (2)8                    |                           |               |                          | W            |  | 25-125 ±2                                   | 125 Inc.                | 50-125 (Adj.)                                | 200/15k                   |                                  | 18 x 10 x 14                         | Opt., Wood      | Blk. Knit                 | 48                | 850.00 Each          |
|                    | V-90                      | Powered Ac. Sus. Subwoof.                               | 12                      |                           |               |                          | W            |  | 25-125 ±2                                   | 90 Inc.                 | 50-125 (Adj.)                                | 200/15k                   |                                  | 18 x 16 x 17                         | Opt., Wood      | Blk. Knit                 | 50                | 750.00 Each          |
|                    | S-90                      | Ac. Sus., Sat.  | 6½                      |                           |               | 1                        | Dome         | M,T  | 72-20 ±2                                    | 90                      | 10   | 2k                        | 4/4                              | 12 x 12 x 10                         | Opt., Wood      | Blk. Knit                 | 18                | 795.00 Pair          |
|                    | MX-5000 THX               | THX; Powered Push-Pull Ac. Sus. Subwoof.                | (2)12                   |                           |               |                          | W            |  | 18-125                                      | 400 Inc.                |  | 200/15k                   |                                  | 24 x 16 x 26                         | Opt., Wood      | Blk. Knit                 | 115               | 2195.00 Each         |
|                    | S-5000 THX                | THX; Trans. Line; Sat.                                  | (2)6½                   |                           |               | (2)1                     | Domes        | M,T  | 72-20 ±2                                    | 94                      | 25   | 2k                        | 4/4                              | 24 x 12 x 12                         | Opt., Wood      | Blk. Knit                 | 55                | 995.00 Each          |
|                    | SS-500 THX                | THX Surround; Ac. Sus., Sat.                            | (2)5                    |                           |               | (2)1                     | Domes        |  | 80-20 ±2                                    | 90                      | 10   | 2k                        | 4/4                              | 16 x 7 x 7                           | Opt., Wood      | Blk. Knit                 | 25                | 1450.00 Pair         |
|                    | S-100B                    | Ac. Sus., Sat.  | (2)5                    |                           |               | (3)1                     | Domes        | M,T  | 77-22 ±2                                    | 93                      | 7.5  | 2k                        | 4/4                              | 12 x 11 x 9                          | Opt., Wood      | Blk. Knit                 | 22                | 995.00 Pair          |
|                    | V-100                     | Powered Ac. Sus. Subwoof.                               | 12                      |                           |               |                          | W            |  | 20-125 ±2                                   | 200 Inc.                | 50-125 (Adj.)                                | 200/15k                   |                                  | 18 x 16 x 18                         | Opt., Wood      | Blk. Knit                 | 65                | 995.00 Each          |
|                    | MX-100                    | Powered Push-Pull Ac. Sus. Subwoof.                     | (2)12                   |                           |               |                          | W            |  | 20-125 ±2                                   | 200 Inc.                | 50-125 (Adj.)                                | 200/15k                   |                                  | 23 x 16 x 20                         | Opt., Wood      | Blk. Knit                 | 78                | 1295.00 Each         |
|                    | MX-2000                   | Powered Push-Pull Ac. Sus. Subwoof.                     | (2)12                   |                           |               |                          | W            |  | 20-125 ±2                                   | 300 Inc.                | 50-125 (Adj.)                                | 200/15k                   |                                  | 23 x 19 x 26                         | Opt., Wood      | Blk. Knit                 | 105               | 1795.00 Each         |
|                    | MX-1000CC                 | Ctr. Ch. & Powered Ac. Sus. Subwoof.                    | (2)12                   | (2)5                      | Cones         | (3)1                     | Domes        | W,M,T  | 20-22 ±2                                    | 93                      | 150 Inc., 7.5 Ext.                           | 50-125 (Adj.), 2k         | 200/15k, 4/4                     | 26 x 28 x 25                         | Opt., Wood      | Blk.                      | 135               | 1795.00 Each         |
|                    | MX-1000                   | Powered Ac. Sus. Subwoof.                               | (2)12                   |                           |               |                          | W            |  | 20-125 ±2                                   | 150 Inc.                | 50-125 (Adj.)                                | 200/15k                   |                                  | 26 x 28 x 24                         | Blk.            | Blk. Knit                 | 115               | 1295.00 Each         |
|                    | S-1C                      | Push-Pull Ac. Sus., Sat.                                | (2)5                    |                           |               | (2)1                     | Domes        | M,T  | 77-22 ±2                                    | 93                      | 7.5  | 2k                        | 4/4                              | 21 x 8 x 11                          | Opt., Wood      | Blk. Knit                 | 18                | 1495.00 Pair         |
|                    | S-80                      | Ac. Sus., Sat.  | 5                       |                           |               | 1                        | Dome         | M,T  | 85-22 ±2                                    | 90                      | 10   | 2k                        | 4/4                              | 11 x 8 x 7                           | Opt., Wood      | Blk. Knit                 | 9                 | 575.00 Pair          |
|                    | SX7                       | Ac. Sus., Sat.  | 4                       |                           |               | ¾                        | Dome         |  | 100-20 ±2                                   | 87                      | 5  | 2k                        | 4/4                              | 8 x 5 x 5                            | Opt., Mtl.      | Mtl.                      | 6                 | 290.00 Pair          |
| V3B                | Powered Ac. Sus. Subwoof. | 12  |                         |                           |               | W                        |              | 24-125 ±2  | 75 Inc.                                     | 50-125 (Adj.)           | 200/15k                                      |                           | 18 x 18 x 16                     | Blk.                                 | Blk. Knit       | 38                        | 650.00 Each       |                      |
| VX4                | Powered Ac. Sus. Subwoof. | 12  |                         |                           |               | W                        |              | 35-125 ±2  | 50 Inc.                                     | 50-125 (Adj.)           | 200/15k                                      |                           | 18 x 18 x 15                     | Blk.                                 | Blk. Knit       | 33                        | 495.00 Each       |                      |
| VX7                | Powered Ac. Sus. Subwoof. | 8   |                         |                           |               | W                        |              | 40-125 ±2  | 50 Inc.                                     | 90-180 (Adj.)           | 200/15k                                      |                           | 10 x 14 x 11                     | Blk.                                 | Blk. Knit       | 21                        | 450.00 Each       |                      |
| MONITOR AUDIO      | Monitor 1 Gold            | Ported  | 4½                      |                           |               | ¾                        | Dome         | No   | 65-26 ±3                                    | 88                      | 15   |                           | 8/                               | 10 x 6 x 6                           | Blk.            | Blk. Knit                 | 6                 | 299.00 Pair          |
|                    | Monitor 7 Gold            | Ported  | 4½                      |                           |               | ¾                        | Dome         | No   | 60-26 ±3                                    | 88                      | 15   |                           | 8/                               | 14 x 7 x 7                           | Blk.            | Blk. Knit                 | 8                 | 399.00 Pair          |
|                    | Monitor 9 Gold            | Inf. Baf.   | 6                       |                           |               | 1                        | Dome         | No   | 55-26 ±3                                    | 88                      | 15   |                           | 8/                               | 15 x 8 x 8                           | Blk.            | Blk.                      | 11                | 499.00 Pair          |
|                    | Monitor 14 Gold           | Inf. Baf.   | 6                       |                           |               | ¾                        | Dome         | No   | 35-24 ±3                                    | 88                      | 15   |                           | 8/                               | 30 x 8 x 9                           | Blk.            | Blk. Knit                 | 40                | 899.00 Pair          |
|                    | CC200                     | D'Appolito  | 4½                      |                           |               | ¾                        | Dome         | No   | 65-26 ±3                                    | 88                      | 15   |                           | 8/                               | 6 x 17 x 7                           | Opt., Wood      | Blk.                      | 10                | 349.00 Each          |
|                    | MA100 Gold                | Ported  | 4½                      |                           |               | ¾                        | Dome         | No   | 60-26 ±3                                    | 88                      | 15   |                           | 8/                               | 10 x 6 x 6                           | Opt., Wood      | Blk. Knit                 | 6                 | 499.00 Pair          |
|                    | MA700 Gold                | Ported  | 6½                      |                           |               | 1                        | Dome         | No   | 45-30 ±3                                    | 89                      | 20   |                           | 8/                               | 14 x 9 x 10                          | Opt., Wood      | Blk. Knit                 | 18                | 999.00 Pair          |
|                    | MA800 Gold                | Ported  | 6½                      |                           |               | 1                        | Dome         | No   | 40-30 ±3                                    | 89                      | 20   |                           | 8/                               | 20 x 9 x 10                          | Opt., Wood      | Blk. Knit                 | 29                | 1499.00 Pair         |
|                    | MA1200 Gold               | Ported  | 6                       |                           |               | 1                        | Dome         | No   | 35-30 ±3                                    | 89                      | 15   |                           | 8/                               | 36 x 8 x 10                          | Opt., Wood      | Blk. Knit                 | 37                | 1999.00 Pair         |
|                    | Studio 2                  | Ported  | 4½                      |                           |               | 1                        | Dome         | No   | 60-30 ±3                                    | 87                      | 20   | 3.2k                      | 8/                               | 11 x 7 x 8                           | Opt., Wood      | Blk. Knit                 | 20                | 1199.00 Pair         |
|                    | Studio 6                  | Ported  | 6                       |                           |               | 1                        | Dome         | No   | 40-30 ±3                                    | 88                      | 20   | 3.2k                      | 8/                               | 14 x 9 x 10                          | Opt., Wood      | Blk. Knit                 | 22                | 1995.00 Pair         |
|                    | Studio 20 SE              | Ported  | 6                       |                           |               | 1                        | Dome         | No   | 30-30 ±3                                    | 89                      | 20   | 3.2k                      | 8/                               | 36 x 8 x 10                          | Opt., Wood      | Blk. Knit                 | 41                | 3995.00 Pair         |
|                    | Studio 50                 | Ac. Sus.  | (2)6                    | 6                         | Cone          | 1                        | Dome         | No   | 25-30 ±3                                    | 89                      | 30   | 100,3.2k                  | 8/                               | 41 x 8 x 10                          | Opt., Wood      | Blk. Knit                 | 60                | 6995.00 Pair         |

# Corners Beautifully.



Tapered to tuck neatly into corners and under eaves, the OS-10 comes with a clever pivoting bracket that provides endless mounting solutions.



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**ElastoDynamic™ Hybrid Dome Tweeter**  
Impervious to moisture, Niles' unique tweeter design offers extended frequency response with stunning detail and clarity.

## (Even On Wet Surfaces)

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**Sonically.** The OS-10 handily outperforms many traditional bookshelf speakers. Much of its superb sonic character comes from its unique tweeter design. Constructed from a composite matrix of elastomers and natural fiber substrates, the ElastoDynamic™ tweeter yields extended frequency response with stunning detail and clarity. But to be a great speaker, you need great bass. Here the OS-10 shows its true horsepower thanks to its injection-molded, polypropylene woofer cone, supple butyl-rubber surround, and powerful magnet structure.

**Visually.** The OS-10's aerodynamic shape speaks for itself. But what may not be readily apparent speaks just as loudly. The OS-10's



tapered enclosure tucks neatly into corners or under eaves, complementing any decor, inside or out. Its clever pivoting bracket (standard equipment on the OS-10) gives you endless mounting solutions. Available in white or black, either finish is paintable for a truly custom look.

**Functionally.** We don't take the term "weather-proof" lightly. The OS-10 is designed to withstand extreme climates—from Minneapolis to Miami. Its rugged, non-resonant cabinet is totally sealed (insects or moisture can't creep in) and will not fade under the sun's rays. The grills and brackets are

aluminum; the connectors are gold-plated; all the hardware is brass or stainless steel—this speaker will not rust! And we guarantee it for two years.

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# LOUDSPEAKERS

| MANUFACTURER      | Model                      | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer: W, Midrange: M, Tweeter: T, Super-tweeter: ST | Apperchoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum     | Dimensions, Inches (To Nearest Inch) | Finish          | Grille Color and Material | Weight, Lbs. Each              | Price, \$   |
|-------------------|----------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|--------------------------------------|--------------------------------------|-----------------|---------------------------|--------------------------------|-------------|
| MORDAUNT-SHORT    | MS 10                      | Bass Ref.   | 5                       |                           |               | 1                        | Dome         |  | 60-20   | 88                      | 15   | 8/                        | 12 x 8 x 9                           | Blk. Ash                             | Cloth           | 10                        | 279.00 Pair                    |             |
|                   | MS 20                      | Bass Ref.   | 7                       |                           |               | 1                        | Dome         |  | 55-20   | 89                      | 15   | 8/                        | 15 x 9 x 9                           | Blk. Ash                             | Cloth           | 12                        | 379.00 Pair                    |             |
|                   | MS 30                      | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 50-20   | 90                      | 15   | 8/                        | 17 x 10 x 11                         | Blk. Ash                             | Cloth           | 18                        | 499.00 Pair                    |             |
|                   | MS 40                      | Bass Ref.   | (2)7                    |                           |               | 1                        | Dome         |  | 45-20   | 90                      | 15   | 8/                        | 33 x 9 x 11                          | Blk. Ash                             | Cloth           | 25                        | 799.00 Pair                    |             |
|                   | MS 50                      | Bass Ref.   | (2)8                    |                           |               | 1                        | Dome         |  | 40-20   | 90                      | 15   | 8/                        | 35 x 10 x 13                         | Blk. Ash                             | Cloth           | 41                        | 999.00 Pair                    |             |
|                   | CS 1                       | Home Th.  | 4                       |                           |               | 3/8                      |              |  | 80-20   | 87                      | 10   | 8/                        | 10 x 7 x 6                           |                                      |                 | 5                         | 229.00 Pair                    |             |
|                   | SW 1                       | Home Th., Subwoof.                                      | (2)6 3/8                |                           |               |                          |              |  | 45-110  | 90                      | 10   | 8/                        | 10 x 22 x 10                         |                                      |                 | 5                         | 349.00 Pair                    |             |
|                   | Dialogue HT 30 HT 50       | Home Th. Home Th.                                       | 4 8 (2)8                |                           |               | 1 1                      | Dome         |  | 80-20 50-20 40-20                             | 87 90 15 15             | 10 15  | 8/ 8/                     | 10 x 7 x 6 17 x 10 x 13 35 x 10 x 13 |                                      |                 | 5 20                      | 139.00 Each 549.00 Pair        |             |
| MOREL ACOUSTICS   | Renaissance Piccolo Encore | Ac. Sus. Sat. & Subwoof.                                | 5 1/2 (2)9              | 6                         |               | 1 1/2                    | Dome         | No   | 55-20 ±2                                      | 89                      | 20   | 2.3k                      | 10 x 8 x 12                          | Blk.                                 | Blk.            | 15                        | 695.00 Pair                    |             |
|                   | MPL-203                    | Ac. Sus.  | 6                       |                           |               | 1 1/2                    | Dome         |  | 45-28 ±3                                      | 89                      | 15   | 1.8k                      | 6/4 8 x 16 x 9                       | Blk. Lacq. Wood Ven.                 | Blk. Blk. Knit  | 48 18                     | 995.00 Sys. 640.00 Pair        |             |
|                   | CR-7                       | Ac. Sus.  | 6                       |                           |               | 1 1/2                    | Dome         |  | 70-25 ±3                                      | 90                      | 15   | 1.6k                      | 6/4 7 x 11 x 7                       | Blk.                                 | Blk. Knit       | 10                        | 498.00 Pair                    |             |
|                   | MPL-201.III                | Ac. Sus.  | 6                       |                           |               | 1 1/2                    | Dome         |  | 45-20 ±3                                      | 90                      | 10   | 1k                        | 8/6 9 x 13 x 10                      | Blk.                                 | Blk. Knit       | 16                        | 349.00 Pair                    |             |
|                   | MPL-202.II                 | Ac. Sus.  | 6                       |                           |               | 1 1/2                    | Dome         |  | 60-28 ±3                                      | 89                      | 15   | 1.6k                      | 6/4 8 x 13 x 10                      | Wood Ven.                            | Blk. Knit       | 14                        | 545.00 Pair                    |             |
|                   | MPL-403.III                | Ac. Sus.  | 9                       | 3                         | Dome          | 1 1/2                    | Dome         |  | 38-25 ±3                                      | 90                      | 20   | 500.5k                    | 6/4 21 x 12 x 10                     | Wood Ven.                            | Blk. Knit       | 26                        | 845.00 Pair                    |             |
|                   | MPL-501                    | Ac. Sus.  | 9                       | 5 1/2                     | Dome          | 1 1/2                    | Dome         |  | 34-25 ±3                                      | 90                      | 25   | 500.5k                    | 8/6.5 11 x 12 x 33                   | Opt., Wood Ven.                      | Blk. Cloth      | 42                        | 999.00 Pair                    |             |
|                   | Duet                       | Ac. Sus.  | 6                       |                           |               | 1 1/2                    | Dome         |  | 40-22 ±3                                      | 91                      | 15   | 1.8k                      | 5/4 8 x 15 x 12                      | Wood Ven.                            | Blk. Knit       | 20                        | 995.00 Pair                    |             |
|                   | Prelude                    | Trans. Line   | 6                       |                           |               | 1 1/2                    | Dome         |  | 38-21 ±2                                      | 90                      | 25   | 3.8k                      | 8/6.5                                | Wood Ven. Opt.                       | Blk. Cloth      | 48                        | 1499.00 Pair                   |             |
| MORRISON AUDIO    | 1.5                        | Sealed 1/4-Wave Loading                                 | 8                       |                           |               | 1                        | Dome         | T  |   | 88                      | 20   | 4.5k                      | 8/6 12 x 10 x 27                     | Satin Blk.                           | Blk.            | 53                        | 2300.00 Pair                   |             |
| MTX               | AAL 400SB                  | Home Th.; Ctr. Ch.                                      | (2)4                    |                           |               |                          |              |  | 100-20  | 30                      |  | 8/                        |                                      | Opt.                                 | Knit            |                           | 99.95 Each                     |             |
|                   | AAL 525SB                  | Home Th.; Ctr. Ch.                                      | (2)5 1/4                |                           |               |                          |              |  | 90-22   | 88                      | 30   | 7k                        | 8 x 16 x 8                           | Blk.                                 | Blk. Knit       | 13                        | 119.95 Each                    |             |
|                   | AAL 600S                   | Ported  | 6 1/2                   |                           |               | 1/2                      | Dome         |  | 75-22   | 91                      | 50   | 7k                        | 13 x 10 x 7                          | Opt.                                 | Blk. Knit       | 12                        | 139.95 Pair                    |             |
|                   | AAL 830                    | Ported  | 8                       | 3                         | Cone          |                          | Horn         |  | 55-22   | 92                      | 50   | 4/                        | 19 x 12 x 8                          | Opt.                                 | Knit            | 14                        | 229.95 Pair                    |             |
|                   | AAL 1030                   | Ported  | 10                      | 5                         | Cone          | 2x5                      | Horn         |  | 55-22   | 91                      | 50   | 4/                        | 24 x 15 x 10                         | Opt.                                 | Knit            | 34                        | 179.95 Each                    |             |
|                   | AAL 1240                   | Ported  | 12                      | 3.5                       | Cones         | 2x5                      | Horn         |  | 50-22   | 92                      | 50   | 4/4                       | 27 x 16 x 11                         | Opt.                                 | Knit            | 39                        | 199.95 Each                    |             |
|                   | AAL 1540                   | Ported  | 15                      | 3.5                       | Cones         | 2x5                      | Horn         |  | 40-22   | 92                      | 50   | 4/4                       | 29 x 19 x 15                         | Opt.                                 | Knit            | 57                        | 249.95 Each                    |             |
|                   | AAL 2230                   | Ported  | (2)12                   | 5                         | Cone          | 2x5                      | Horn         |  | 38-22   | 93                      | 75   | 4/4                       | 40 x 16 x 15                         | Opt.                                 | Knit            | 82                        | 299.95 Each                    |             |
|                   | PSW 101B                   | Powered Subwoof.  | 12                      |                           |               |                          |              | W  | 38-150  | 100                     | 100  | 10k                       | 17 x 18 x 20                         | Blk.                                 | Blk. Knit       | 38                        | 399.95 Each                    |             |
|                   | HTS P200                   | Powered Subwoof.  | 10                      |                           |               |                          |              | W  | 40-150  | 100                     | 100  | 10k                       |                                      | Blk.                                 | Blk. Knit       | 32                        | 499.95 Each                    |             |
|                   | HTS 428                    | Home Th.; Ctr. Ch.                                      | (2)4                    |                           |               | 1/2                      | Dome         |  |   | 30                      |  | 7k                        | 8/7                                  |                                      | Blk.            | Blk. Knit                 |                                | 159.95 Each |
|                   | HTS 528S                   | Home Th.; Ctr. Ch.                                      | (2)5 1/2                |                           |               | 1/2                      | Dome         |  | 100-20  | 30                      |  | 7k                        | 8/                                   | 8 x 16 x 7                           | Blk.            | Blk. Knit                 | 13                             | 139.95 Each |
|                   | HTS 628S                   | Home Th.  | 6 1/2                   |                           |               | 1/2                      | Dome         |  |   | 30                      |  | 7k                        | 8/                                   | 13 x 10 x 7                          | Blk.            | Blk. Knit                 | 12                             | 99.95 Each  |
|                   | HTS 828                    | Home Th.  | 8                       |                           |               | 3/4                      | Dome         |  |   | 30                      |  | 3.9k                      | 8/7                                  | 18 x 11 x 9                          | Blk.            | Blk. Knit                 |                                | 249.95 Pair |
|                   | HTS 1038                   | Home Th.  | 10                      | 5                         | Cone          | 3/4                      | Dome         |  |   | 40                      |  | 1.6k, 4.3k                | 8/7                                  | 24 x 15 x 11                         | Blk.            | Blk. Knit                 |                                | 199.95 Pair |
|                   | HTS 1238                   | Home Th.  | 12                      | 5                         | Cone          | 3/4                      | Dome         |  |   | 50                      |  | 1.6k, 4.3k                | 8/7                                  | 27 x 15 x 11                         | Blk.            | Blk. Knit                 |                                | 219.95 Each |
|                   | 500                        | In-Wall; Coaxial  | 5 1/4                   |                           |               | 1/2                      | Dome         |  | 69-20 ±6                                      | 88                      | 35   | 3k                        | 8/4                                  | 7 x 7 x 2                            | Wht.            | Wht.                      | 8                              | 99.00 Pair  |
|                   | 520                        | In-Wall   | 5 1/4                   |                           |               | 1                        | Dome         |  | 50-20   | 89                      |  | 2.8k                      | 8/                                   | 8 x 11 x 3                           | Mesh Wht. Steel | Wht.                      | 10                             | 179.00 Pair |
|                   | 600                        | In-Wall; Coaxial  | 6 1/2                   |                           |               | 1/2                      | Dome         |  | 63-20 ±6                                      | 88                      | 35   | 8k                        | 8/4                                  | 9 x 9 x 3                            | Wht.            | Mesh Wht.                 | 9                              | 119.00 Pair |
|                   | 620                        | In-Wall   | 6 1/2                   |                           |               | 1                        | Dome         |  | 45-20   | 90                      |  | 2.8k                      | 8/                                   | 9 x 12 x 3                           | Mesh Wht. Steel | Wht.                      | 11                             | 199.00 Pair |
|                   | 650WR                      | In-Wall; Coaxial  | 6 1/2                   |                           |               | 1/2                      | Dome         |  | 60-20 ±6                                      | 89                      | 35   |                           | 8/4                                  | 9 x 9 x 3                            | Wht.            | Mesh Wht.                 | 9                              | 149.00 Pair |
|                   | 820                        | In-Wall   | 8                       |                           |               | 1                        | Dome         |  | 40-20   | 90                      |  | 2.5k                      | 8/                                   | 10 x 14 x 4                          | Mesh Wht. Steel | Wht.                      | 14                             | 249.00 Pair |
|                   | Signature MS-5             | In-Wall; Bass Ref.                                      | 5 1/4                   |                           |               | 1                        | Dome         | T  | 50-22   | 35                      |  | 8/                        | 8 x 11 x 3                           | Wht.                                 | Mesh Wht.       | 5                         | 249.95 Pair                    |             |
| Signature MS-6    | In-Wall; Bass Ref.         | 6 1/2   |                         |                           | 1             | Dome                     | T            | 45-22  | 35  |                         | 8/   | 9 x 12 x 3                | Wht.                                 | Mesh Wht.                            | 6               | 349.95 Pair               |                                |             |
| Signature MS-8    | In-Wall; Bass Ref.         | 8   |                         |                           | 1             | Dome                     | T            | 40-22  | 35  |                         | 8/   | 10 x 14 x 4               | Wht.                                 | Mesh Wht.                            | 7               | 399.95 Pair               |                                |             |
| Signature CMS-6.5 | In-Ceiling; Coaxial        | 6 1/2   |                         |                           | 1             | Dome                     | T            | 60-22  | 35  |                         | 8/4  |                           | Wht.                                 | Mesh Wht.                            | 5               | 349.95 Pair               |                                |             |
| Signature CMS-8.5 | In-Ceiling; Coaxial        | 8   |                         |                           | 1             | Dome                     | T            | 45-22  | 35  |                         | 8/4  |                           | Wht.                                 | Mesh Wht.                            | 7               | 399.95 Pair               |                                |             |
| 610 RCM           | In-Ceiling                 | 6 1/2   |                         |                           | 1             | Dome                     | T            | 60-20  | 35  |                         | 8/4  |                           | Wht.                                 | Mesh Wht.                            | 4               | 149.95 Pair               |                                |             |
| FS8               | In-Floor Vented Subwoof.   | 8   |                         |                           |               |                          |              | 52-200 ±3  | 90  | 75                      | 200  | 8/6                       | 9 x 11 x 28                          |                                      |                 |                           | 229.95 Each                    |             |
| FS10              | In-Floor Subwoof.          | 10  |                         |                           |               |                          |              | 48-200   | 92  |                         | 200  | 8/                        | 9 x 15 x 29                          | Blk.                                 |                 | 32                        | 259.95 Each                    |             |
| PRO115            | Vented                     | 15  | (2)5                    | Cones                     | 3             | Horn                     |              | 60-21  | 96.6  | 15                      | 2k, 5k                                       | 8/                        | 21 x 30 x 16                         | Gray Cptg.                           | Blk. Steel      | 77                        | 699.95 Each                    |             |
| PRO210            | Vented                     | (2)10   | (2)5                    | Cones                     | 3             | Horn                     |              | 70-21  | 98.6  | 15                      | 2k, 5k                                       | 8/                        | 23 x 18 x 13                         | Gray Cptg.                           | Blk. Steel      | 64                        | 499.95 Each                    |             |
| PRO215            | Vented                     | (2)15   | (2)5                    | Cones                     | 3             | Horn                     |              | 50-21  | 99.2  | 15                      | 2k, 5k                                       | 8/                        | 19 x 47 x 16                         | Gray Cptg.                           | Blk. Steel      | 125                       | 799.95 Each                    |             |
| MUSE ELEC-TRONICS | Eighteen                   | Powered Subwoof.  | (2)10                   |                           |               |                          |              | W  | 15-Sel.                                       | 225                     | Sel.   |                           | 25 x 25 x 25                         | Opt.                                 |                 | 155                       | From Each                      |             |
|                   | Sixteen                    | Powered Subwoof.  | (4)11                   |                           |               |                          |              | W  | 13-Sel.                                       | Inc.                    | Sel.   |                           | 16 x 25 x 50                         |                                      |                 | 280                       | 3000.00 From Each 6000.00 Each |             |

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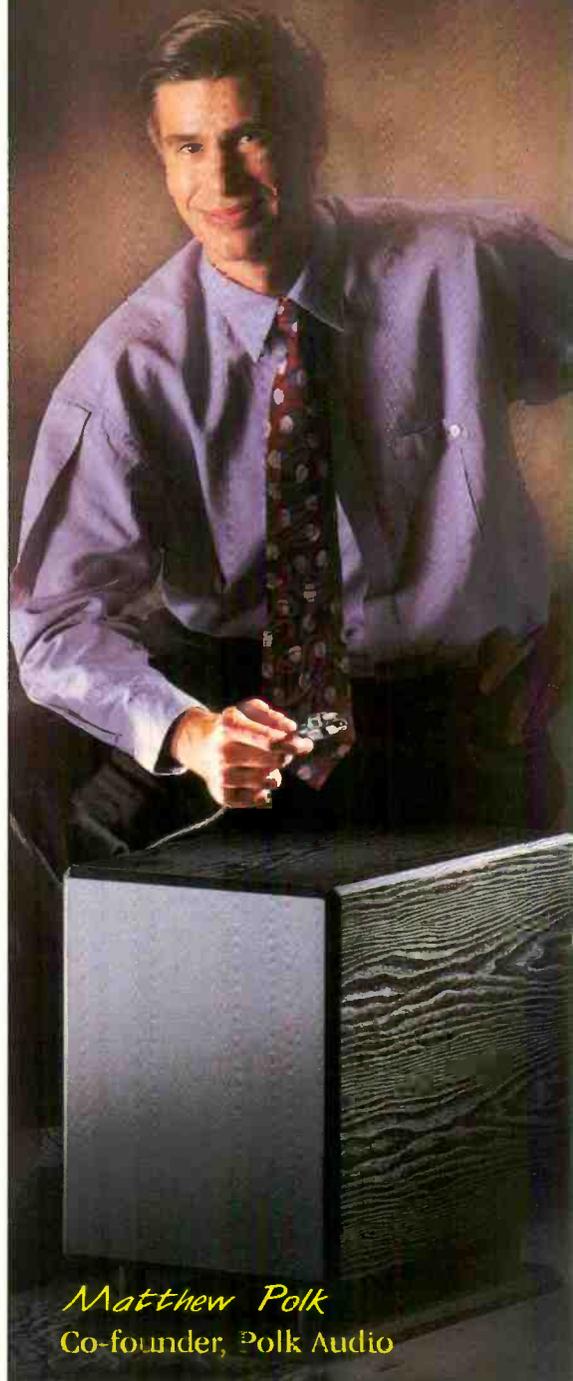
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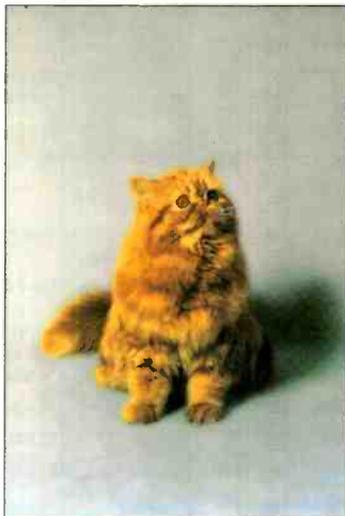
# LOUDSPEAKERS

| MANUFACTURER            | Model                   | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer - W, Midrange - M, Tweeter - T, Super Tweeter - ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (T to Nearest Inch) | Finish              | Grille Color and Material | Weight, Lbs. Each          | Price, \$                  |
|-------------------------|-------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--|---------------------|---------------------------|----------------------------|----------------------------|
| NAIM AUDIO              | NA IBL                  | Inf. Baf.   | 5                       |                           |               | ¾                        | Dome         |  | 45-20 ±3                                    | 87                      | 2.4k   | 6/6                       | 10 x 11 x 32                     | Opt.                                   | Blk. Foam           | 30                        | 1695.00 Pair               |                            |
|                         | NA SBL                  | Inf. Baf.   | 8                       |                           |               | ¾                        | Dome         |  | 30-20 ±3                                    | 88                      | 2.4k   | 6/6                       | 11 x 11 x 34                     | Opt.                                   | Blk. Foam           | 60                        | 3495.00 Pair               |                            |
|                         | NA DBL                  | Inf. Baf.   | 15                      | 5                         | Cone          | ¾                        | Dome         |  | 17-20 ±3                                    | 92                      | 350,3.5k                                     | 4/4                       | 16 x 26 x 47                     | Opt.                                   | Blk. Foam           | 200                       | 14,995.00 Pair             |                            |
| N.E.A.R.                | NEAR-50Me               | Vented  | 8                       | 4                         | Cone          | 1                        | Cone         |  | 27-26 ±2                                    | 91                      | 250,4k                                       | 8/6                       | 10 x 12 x 48                     | Opt.                                   | Blk. Knit           | 58                        | From 1599.00 Pair          |                            |
|                         | NEAR-40Me               | Vented  | 8                       |                           |               | 1                        | Cone         |  | 30-26 ±2                                    | 88                      | 25   | 2.3k                      | 8/6                              | 10 x 11 x 39                           | Opt.                | Blk. Knit                 | 46                         | From 1499.00 Pair          |
|                         | NEAR-20M                | Vented  | (2)5¼                   |                           |               | 1                        | Cone         |  | 40-26 ±2                                    | 88                      | 25   | 2.2k                      | 6/5                              | 7 x 9 x 20                             | Blk. Lacq. Opt.     | Blk. Knit                 | 30                         | 899.00 Pair                |
|                         | NEAR-10M                | Vented  | 5¼                      |                           |               | 1                        | Cone         |  | 45-26 ±2                                    | 88                      | 10   | 1.8k                      | 4/4                              | 7 x 9 x 11                             | Opt.                | Blk. Knit                 | 15                         | From 429.00 Pair           |
|                         | MAST JIB                | Vented Vented Ctr. Ch.                                  | (2)5¼ (2)5¼             |                           |               | 1½ 1½                    | Cone Cone    |  | 38-23 ±2 42-23 ±2                           | 90 30                   | 2.2k 2.2k                                    | 6/5 6/5                   | 7 x 9 x 48 7 x 9 x 20            | Blk. Opt. Lacq. Opt.                   | Blk. Knit Blk. Knit | 49 30                     | 1199.00 Pair 499.00 Each   |                            |
|                         | BOOM-4                  | Vented Subwoof.   | (4)8¼                   |                           |               |                          |              |  | 18-150 ±2                                   | 88                      | 100  | 150                       | 8/6                              | 35 x 24 x 18                           | Opt.                | Blk. Knit                 | 125                        | From 1599.00 Each          |
|                         | BOOM-2                  | Vented Subwoof.   | (2)8¼                   |                           |               |                          |              |  | 22-150 ±2                                   | 88                      | 50   | 150                       | 6/4                              | 16 x 24 x 16                           | Opt.                | Blk. Knit                 | 60                         | 899.00 Each                |
|                         | AEL-1.1                 | Outdoor, Sealed   | 5¼                      |                           |               |                          |              |  | 65-13 ±3                                    | 88                      | 10   |                           | 4/4                              | 8 x 8 x 8                              | Poly. Alum.         | 7                         | 318.00 Pair                |                            |
|                         | AEL-1.2                 | Outdoor, Sealed   | 5¼                      |                           | ½             | Dome                     |              |  | 65-20 ±3                                    | 89                      | 10   | 5k                        | 4/4                              | 8 x 8 x 8                              | Poly. Alum.         | 8                         | 359.00 Pair                |                            |
|                         | AEL-1.4                 | Outdoor, Vented   | 5¼                      |                           | 1             | Cone                     |              |  | 48-26 ±3                                    | 89                      | 25   | 3k                        | 6/5                              | 8 x 5 x 14                             | Poly. ABS           | 13                        | 423.00 Pair                |                            |
|                         | AEL-1.5                 | Outdoor, Vented   | 6½                      |                           | 1             | Cone                     |              |  | 48-20 ±3                                    | 89                      | 25   | 3k                        | 8/6                              | 8 x 8 x 14                             | Poly. ABS           | 15                        | 599.00 Pair                |                            |
|                         | AEL-1.6                 | Outdoor, Vented   | 6½                      |                           | 1             | Cone                     |              |  | 48-20 ±3                                    | 89                      | 25   | 3k                        | 8/6                              | 8 x 5 x 14                             | Poly. ABS           | 15                        | 599.00 Pair                |                            |
|                         | AEL-2.0                 | Outdoor, Vented   | 8                       |                           | 1             | Cone                     |              |  | 40-26 ±3                                    | 91                      | 50   | 3k                        | 8/6                              | 12 x 12 x 20                           | Fb/ls. ABS          | 30                        | 1299.00 Pair               |                            |
|                         | WAF-1                   | In-Wall   | 5¼                      |                           |               |                          |              |  | 65-14                                       | 88                      | 75   |                           | Opt.                             | 7 x 7 x 4                              | Wht. Epoxy Alum.    | 5                         | 279.00 Pair                |                            |
| WAF-2                   | In-Wall, Coaxial        | 5¼  |                         | ½                         | Dome          |                          |              | 65-20  | 88  | 75                      | 5k   | Opt.                      | 7 x 7 x 4                        | Wht. Epoxy Alum.                       | 5                   | 359.00 Pair               |                            |                            |
| NELSON-REED             | 8-04/CM                 | Slot Loaded   | (2)8                    | 3                         | Dome          | 1                        | Dome         | No   | 32-20 ±2                                    | 93                      | 30   | 320,3.5k                  | 8/6                              | 47 x 12 x 15                           | Opt.                | Opt.                      | 100                        | 5400.00 Pair               |
|                         | 6-02/TC                 | Ported  | 6                       |                           |               | 1                        | Dome         | No   | 40-20 ±3                                    | 90                      | 25   | 3.5k                      | 8/7                              | 43 x 9 x 9                             | Opt.                | Opt.                      | 60                         | 1190.00 Pair               |
|                         | 5-02/CM                 | Inf. Baf.   | 5¼                      |                           |               | 1                        | Dome         | No   | 40-20 ±3                                    | 90                      | 25   | 3.5k                      | 8/7                              | 12 x 8 x 8                             | Opt.                | Opt.                      | 12                         | 750.00 Pair                |
|                         | 1201                    | Inf. Baf. Subwoof.                                      | 12                      |                           |               |                          |              |  | 32-125 ±3                                   | 90                      | 25   | 90                        | 6/4                              | 18 x 18 x 18                           | Opt.                | Opt.                      | 40                         | 750.00 Each                |
|                         | 1204/P                  | Inf. Baf. Subwoof.                                      | (4)12                   |                           |               |                          |              |  | 16-62 ±3                                    | 93                      | 100  | 6/2                       | 39 x 18 x 18                     | Opt.                                   | Opt.                | 100                       | 1800.00 Each               |                            |
|                         | 1002 Signature          | Ported  | 10                      |                           |               | 1                        | Dome         | No   | 32-20 ±2                                    | 92                      | 20   | 2.2k                      | 8/7                              | 42 x 13 x 15                           | Opt.                | Opt.                      | 85                         | 2850.00 Pair; Kit, 2050.00 |
|                         | 603                     | Ported  | (2)6½                   |                           |               | 1                        | Dome         | No   | 40-20 ±3                                    | 92                      | 20   | 2.8k                      | 8/7                              | 43 x 9 x 9                             | Opt., Wood          | Opt.                      | 65                         | 1350.00 Pair; Kit, 950.00  |
| 802                     | Ported                  | 8   |                         |                           | 1             | Dome                     | No           | 38-20 ±3   | 89  | 50                      | 2.8k   | 8/7                       | 39 x 12 x 15                     | Opt., Wood                             | Opt.                | 70                        | 1850.00 Pair; Kit, 1250.00 |                            |
| NESTOROVIC LABORATORIES | Type 5AS Mk. IV         | Nestorovic  | 8,10                    | 4                         | Dome          | 4½                       | Planar       | M,T  | 28-40 +1,-3                                 | 91                      | 50   | 1k,7k                     | 8/5                              | 36 x 15 x 15                           | Opt., Wood          | Blk. Knit                 | 85                         | 8500.00 Pair               |
|                         | Reference               | Nestorovic  | 8,10                    | 4                         | Dome          | 4½                       | Planar       | M,T  | 28-40 +1,-3                                 | 91                      | 50   | 1k,7k                     | 8/5                              | 36 x 15 x 15                           | Opt., Wood          | Blk. Knit                 | 85                         | 4500.00 Pair               |
|                         | Type 5AS Mk. IV         | Nestorovic  | 8,10                    | 4                         | Dome          | 4½                       | Planar       | M,T  | 28-40 +1,-3                                 | 91                      | 50   | 1k,7k                     | 8/5                              | 36 x 15 x 15                           | Opt., Wood          | Blk. Knit                 | 85                         | 5200.00 Pair               |
|                         | De Lux                  | Nestorovic  | 8,10                    | 4                         | Dome          | 4½                       | Planar       | M,T  | 28-40 +1,-3                                 | 91                      | 50   | 1k,7k                     | 8/5                              | 36 x 15 x 15                           | Opt., Wood          | Blk. Knit                 | 87                         | 7000.00 Pair               |
|                         | Signature               | Nestorovic  | 8,10                    | 4                         | Oome          | 4½                       | Planar       | M,T  | 28-40 +1,-3                                 | 91                      | 50   | 1k,7k                     | 8/5                              | 36 x 15 x 15                           | Opt., Wood          | Blk. Knit                 | 87                         | 7000.00 Pair               |
|                         | Type 4A Mk. III         | Sat.  | 8                       | 4                         | Dome          | 4½                       | Planar       |  | 60-40 +1,-3                                 | 91                      | 50   | 200,1k,7k                 | 8/6                              | 22 x 12 x 12                           | Opt., Wood          | Blk. Knit                 | 42                         | 4200.00 Pair               |
| Type 8 Mk. II           | Nestorovic Subwoof.     | (2)12   |                         |                           |               |                          |              | 18-250 +1,-3   | 91  | 100                     | 200  | 8/5                       | 22 x 26 x 26                     | Opt., Wood                             | Blk. Knit           | 135                       | 2500.00 Each               |                            |
| System 12A Mk. III      | 2 Sats. & 2 Nest. Subs. | (2)8, (4)12   | (2)4                    | Domes                     | (2)4½         | Planars                  |              | 18-40 +1,-3  | 91  |                         | 200,1k,7k                                    | 8/5                       | Four Pieces                      | Opt., Wood                             | Blk. Knit           | 354                       | 9200.00 Sys.               |                            |
| System 16A Mk. III      | 4 Sats. & 2 Nest. Subs. | (4)8, (4)12   | (4)4                    | Oomes                     | (4)4½         | Planars                  |              | 18-40 +1,-3  | 91  |                         | 200,1k,7k                                    | 8/4                       | Six Pieces                       | Opt., Wood                             | Blk. Knit           | 438                       | 13,400.00 Sys.             |                            |
| NEWFORM RESEARCH        | R8-2                    | Home Th., Monopole                                      | (2)8                    |                           | (2) 15x¾ 15x¾ | Ribbons                  |              |  | 38-20 ±3                                    | 88                      | 30   | 950                       | 8/7                              | 61 x 15 x 11                           | Sim. Blk. Oak       | Blk. Knit                 | 71                         | 2295.00 Pair               |
|                         | R8-1                    | Home Th., Monopole                                      | 8                       |                           | 15x¾          | Ribbon                   |              |  | 42-20 ±3                                    | 87                      | 30   | 1k                        | 8/6                              | 46 x 15 x 11                           | Sim. Blk. Oak       | Blk. Knit                 | 55                         | 1795.00 Pair               |
|                         | R5-2                    | Home Th., Monopole                                      | (2)5¼                   |                           | 8x¾           | Ribbon                   |              |  | 65-20 ±3                                    | 85                      | 30   | 1.2k                      | 8/8                              | 23 x 11 x 9                            | Sim. Blk. Oak       | Blk. Knit                 | 28                         | 995.00 Pair                |
|                         | No Holds Barred         | Home Th., Monopole                                      | (2)8                    | (2)5                      | Cones         | (2) 30x¾ 8x¾             | Ribbons      |  | 33-20 ±3                                    | 93                      | 30   | 80,1.2k                   | 4/3                              | Three Pieces Per Side 9 x 4 x 3        | Blk. Oak Opt.       | Opt.                      | 190 Side 7                 | 7995.00 Sys. 165.00 Each   |
|                         | Ribbon 8                | Custom-Install Monopole Tweeter                         |                         |                           | 15x¾          | Ribbon                   |              |  | 1.2k-20k ±2                                 | 85                      | 30   | 1.2k                      | 8/11                             |  | Blk. Epoxy Blk.     |                           | 14                         | 265.00 Each                |
|                         | Ribbon 15               | Custom-Install Monopole Tweeter                         |                         |                           | 15x¾          | Ribbon                   |              |  | 1k-20k ±2                                   | 87                      | 30   | 1k                        | 8/6                              | 15 x 4 x 3                             | Epoxy Blk.          |                           | 25                         | 440.00 Each                |
|                         | Ribbon 30               | Custom-Install Monopole Tweeter                         |                         |                           | (2) 15x¾ 8x¾  | Ribbons                  |              |  | 1k-20k ±2                                   | 88                      | 30   | 1k                        | 8/7                              | 30 x 4 x 3                             | Epoxy Blk.          |                           | 17                         | 895.00 Pair                |
|                         | Module 8                | Monopole  | 5                       |                           | 15x¾          | Ribbon                   |              |  | 80-20                                       | 85                      | 30   | 1.4k                      | 8/8                              | 16 x 8 x 6                             | Gran.               | Blk. Knit                 | 12                         | 1295.00 Pair               |
|                         | Module 15               | Monopole  | 5                       |                           | 15x¾          | Ribbon                   |              |  | 80-20                                       | 87                      | 30   | 1.2k                      | 8/5                              | 23 x 8 x 6                             | Gran.               | Blk. Knit                 | 17                         | 995.00 Pair                |
|                         | Module 30               | Monopole  | 5                       |                           | (2) 15x¾      | Ribbons                  |              |  | 80-20                                       | 88                      | 30   | 1.1k                      | 8/5                              | 32 x 8 x 6                             | Gran.               | Blk. Knit                 | 30                         | 1695.00 Pair               |
|                         | Sub 1                   | Bass Ref. Subwoof.                                      | 8                       |                           |               |                          |              |  | 32-120 ±3                                   | 88                      | 30   | 120                       | 8/6                              | 21 x 18 x 12                           | Gran.               | Blk. Knit                 | 44                         | 595.00 Each                |
| Sub 2                   | Bass Ref. Subwoof.      | (2)8  |                         |                           |               |                          |              | 32-120 ±3  | 93  | 20                      | 120  | 4/4                       | 22 x 21 x 18                     | Gran.                                  | Blk. Knit           | 65                        | 895.00 Each                |                            |
| NHT                     | Super Zero 1.1          | Ac. Sus.  | 4½                      |                           | 1             | Dome                     |              |  | 85-25 ±3                                    | 86                      | 15   | 2.2k                      | 8/7.5                            | 9 x 6 x 5                              | Opt.                | Opt.                      | 6                          | 115.00 Each                |
|                         | 1.3A                    | Ac. Sus.  | 6½                      |                           | 1             | Dome                     |              |  | 63-25 ±3                                    | 88                      | 20   | 3.2k                      | 8/5.6                            | 12 x 7 x 11                            | Opt.                | Opt.                      | 12                         | 380.00 Pair                |
|                         |                         | Ac. Sus.  | 6½                      |                           | 1             | Dome                     |              |  | 55-25 ±3                                    | 86                      | 20   | 3.1k                      | 8/5.2                            | 17 x 7 x 11                            | Gloss Blk.          | Blk. Knit                 | 15                         | 500.00 Pair                |
|                         | 2.1                     | Ac. Sus.  | (2)6½                   | 6½                        | Cone          | 1                        | Oome         |  | 40-25 ±3                                    | 87                      | 35   | 80,3.3k                   | 8/3.2                            | 34 x 7 x 12                            | Gloss Blk.          | Blk. Knit                 | 31                         | 830.00 Pair                |
|                         | 2.3A                    | Ac. Sus.  | (2)6½                   | 6½                        | Cone          | 1                        | Dome         |  | 35-25 ±3                                    | 86                      | 35   | 70,3.1k                   | 4/2.9                            | 37 x 7 x 12                            | Gloss Blk.          | Blk. Knit                 | 42                         | 1100.00 Pair               |
|                         | 3.3                     | Ac. Sus.  | 12                      | 4½, 6½                    | Cones         | 1                        | Dome         |  | 23-26 ±2                                    | 87                      | 35   | 100,320, 3.5k 130         | 6/4.3                            | 42 x 7 x 31                            | Gloss Blk.          | Blk. Knit                 | 123                        | 4000.00 Pair               |
|                         | SW2                     | Vented Mono Subwoof.                                    | 10                      |                           |               |                          |              |  | 21-350 ±3                                   | 90                      | 20   |                           | 6/4                              | 16 x 16 x 16                           | Lam. Opt.           | Opt.                      | 40                         | 325.00 Each                |
|                         | SW1P                    | Powered Subwoof.  | 8                       |                           |               |                          |              |  |   |                         | 60 Inc.                                      | Sel.                      |                                  | 12 x 17 x 12                           | Gloss Blk.          | Blk. Knit                 | 40                         | 500.00 Each w/Amp          |

(Continued)

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# LOUDSPEAKERS

| MANUFACTURER        | Model                          | Application, Design Principle, Enclosure or System Type         | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W Midrange-M, Tweeter-T, Super Tweeter-ST | Antechlor. Frequency Response, Hz to kHz ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum       | Dimensions, Inches (To Nearest Inch) | Finish   | Grille Color and Material | Weight, Lbs. Each       | Price, \$    |
|---------------------|--------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|---|--|-------------------------|--|---------------------------|--|--------------------------------------|--|---------------------------|-------------------------|--------------|
| NHT (Continued)     | 1.1C                           | Home Th., Ac. Sus.; Ctr. Ch.                                    | 6½                      |                           |               | 1                        | Dome         |   | 63-25 ±3                                     | 88                      | 20   | 3.2k                      | 8/5.6                                  | 12 x 7 x 10                          | Opt., Gloss Matte Wht. Opt.  | Opt.                      | 12                      | 185.00 Each  |
|                     | 1.1iw                          | In-Wall   | 6½                      |                           |               | 1                        | Dome         |   | 55-20 ±3                                     | 88                      | 10   | 2.8k                      | 8/5.5                                  | 13 x 9                               | Matte Wht. Opt.  | Opt.                      | 15                      | 350.00 Pair  |
|                     | VT-1A System (models below)    | Home Th.  |                         |                           |               |                          |              |   |  |                         |  |                           |  | Six Pieces                           | Opt.   |                           | 2125.00 Sys.            |              |
|                     | VT-1A                          | AV; Tuned Column  | 4½                      | 4½                        | Cone          | 1                        | Dome         |   | 45-21 ±3                                     | 87                      | 15   | 110,3.5k                  | 8/5                                    | 40 x 6 x 6                           | Opt., Gloss Opt., Gloss Opt., Gloss Opt., Gloss Blk.   | Opt.                      | 24                      | 725.00 Pair  |
|                     | VT-1C                          | Ac. Sus., Ctr. Ch.  | (2)4½                   |                           |               | 1                        | Dome         |   | 90-21 ±3                                     | 90                      | 15   | 2.8k                      | 8/5                                    | 6 x 22 x 9                           | Opt.   | Opt.                      | 15                      | 320.00 Each  |
|                     | HDP-1                          | Hybrid Dipole; Surround Powered Subwoof.                        | 4½                      |                           |               | (2)3                     | Cones        |   | 105-10 ±3                                    | 86                      | 20   | 450                       | 8/4.4                                  | 10 x 6 x 6                           | Opt.   | Opt.                      | 7                       | 380.00 Pair  |
|                     | SW2P                           |   | 10                      |                           |               |                          |              |   |  | 80 Inc.                 | Sel.   |                           | 16 x 16 x 16                           | Opt.                                 | Blk. Knit  | 50                        | 700.00 Each w/Amp       |              |
| NILES AUDIO         | 75                             | In-Wall; Inf. Baf.  | 5¼                      |                           |               | ¾                        | Dome         |   | 63-20 ±4                                     | 91                      | 3  | 4k                        | 8/7                                    | 7 x 7 x 3                            | Wht. ABS Wht. ABS Wht. ABS Wht. ABS  | Wht. Mtl.                 | 3                       |              |
|                     | 76                             | In-Wall; Inf. Baf.  | 5¼                      |                           |               | ¾                        | Dome         |   | 63-20 ±4                                     | 91                      | 3  | 4k                        | 8/7                                    | 8 Dia. x 3                           | Wht. Mtl.  | Wht. Mtl.                 | 3                       |              |
|                     | 77                             | In-Wall; Inf. Baf.  | 5¼                      |                           |               | ¾                        | Dome         |   | 63-20 ±4                                     | 91                      | 3  | 4k                        | 8/7                                    | 8 Dia. x 3                           | Blk. Mtl.  | Blk. Mtl.                 | 3                       |              |
|                     | 100                            | In-Wall; Inf. Baf.  | 6½                      |                           |               | ¾                        | Dome         | T   | 55-20 ±3                                     | 87                      | 10   | 4k                        | 8/7.5                                  | 12 x 9 x 3                           | Opt., Wht. Opt., Wht. Opt., Wht. Opt., Wht. ABS  | Opt.                      | 3                       |              |
|                     | 200                            | In-Wall; Inf. Baf.  | 6½                      |                           |               | 1                        | Dome         | T   | 50-20 ±2                                     | 88                      | 10   | 2.8k                      | 8/7                                    | 12 x 9 x 3                           | Opt., Wht. Opt., Wht. Opt., Wht. ABS   | Opt.                      | 5                       |              |
|                     | 300                            | In-Wall; Inf. Baf.  | 8                       |                           |               | 1                        | Dome         | T   | 40-20 ±2                                     | 89                      | 10   | 2.5k                      | 8/6.5                                  | 14 x 10 x 4                          | Opt., Wht. Opt., Wht. ABS  | Opt.                      | 6                       |              |
|                     | NSW-100                        | In-Wall; Powered Subwoof.                                       | 8                       |                           |               |                          |              | W   | 38-100 ±2                                    | 92                      | Inc.   | 100                       | 8/8                                    | 45 x 14 x 3                          | Opt., Wht. Opt., Wht. ABS  | Opt.                      | 24                      |              |
|                     | OS-10                          | Indoor/Outdoor, Inf. Baf.                                       | 5¼                      |                           |               | 1                        | Dome         |   | 65-21 ±3                                     | 89                      | 10   | 3.5k                      | 8/                                     |                                      | Opt., Wht. ABS   | Opt.                      | 7                       | 399.95 Pair  |
| NOBIS TECH-NOLOGIES | DMS-1a                         | Subwoof.  | (2)8                    |                           |               |                          |              |   | 27-2 ±3                                      | 91                      | 25   | 4/4                       | 4/4                                    | 40 x 11 x 18                         | Opt.   | Opt.                      | 87                      | 995.00 Each  |
|                     | DM-2st                         | Tuned Port  | (2)6                    |                           |               | 1                        | Dome         |   | 33-20 ±3                                     | 91                      | 10   | 4k                        | 4/4                                    | 40 x 9 x 13                          | Opt.   | Opt.                      | 56                      | 1999.00 Pair |
|                     | DM-3t                          | Tuned Port  | (2)6                    |                           |               | 1                        | Dome         |   | 33-20 ±4                                     | 91                      | 10   | 4k                        | 4/4                                    | 47 x 9 x 11                          | Opt.   | Opt.                      | 51                      | 1099.00 Pair |
|                     | DM-5                           | Tuned Port  | 6                       |                           |               | 1                        | Dome         |   | 33-25 ±3                                     | 90                      | 10   | 4k                        | 4/4                                    | 21 x 9 x 13                          | Opt.   | Opt.                      | 25                      | 699.00 Pair  |
|                     | DM-7                           | Ac. Sus.  | 6                       |                           |               | ¾                        | Dome         |   | 60-20  | 89                      | 10   | 6k                        | 4/4                                    | 15 x 9 x 10                          | Opt.   | Opt.                      | 19                      | 479.00 Pair  |
| NON-SPEAKER         | Ribbon Reference Monitor       | Contained Rear Wave (CRW) & Aperiodic Pressure Release Subwoof. | 12                      | (2)                       | Ribbons       |                          | Ribbon       |   | 36-30 ±3                                     | 87                      | 40   |                           | 5/3.5                                  | Four Pieces                          | Lacq. Oak  | Blk. Knit                 |                         | 4444.00 Sys. |
|                     | Ribbon Reference Standard      | CRW & Bandpass Subwoof.   | 12                      | (4)                       | Ribbons       |                          | Ribbon       |   | 28-30 ±3                                     | 88                      | 50   |                           | 6/3.5                                  | Three Pieces                         | Lacq. Oak  | Blk. Knit                 |                         | 6666.00 Sys. |
|                     | Ribbon Reference Signature One | CRW & Bandpass Subwoof.   | 15                      | (8)                       | Ribbons       |                          | Ribbon       |   | 22-44 ±3                                     | 88                      | 50   |                           | 7/6                                    | Four Pieces                          | Opt.   | Blk. Knit                 |                         | 11,111. Sys. |
| NORMAN LABORATORIES | 12.3                           | Ac. Sus.  | 12                      | 5¼                        | Cone          | 1                        | Dome         |   | 28-30 ±5                                     | 91                      | 25   | 600,3k                    | 8/                                     | 31 x 15 x 13                         | Opt., Wood Opt. | Blk. Knit                 | 54                      | 800.00 Pair  |
|                     | 50                             | Ac. Sus.  | 6½                      |                           |               | ¾                        | Dome         |   | 50-20 ±5                                     | 91                      | 10   | 3k                        | 4/                                     | 13 x 9 x 7                           | Opt., Wood Opt. | Blk. Knit                 | 13                      | 240.00 Pair  |
|                     | 62P                            | Ported  | 6½                      |                           |               | 1                        | Dome         |   | 35-20 ±5                                     | 92                      | 15   | 3k                        | 8/                                     | 19 x 10 x 10                         | Opt., Wood Opt. | Blk. Knit                 | 24                      | 360.00 Pair  |
|                     | 82                             | Ac. Sus.  | 10                      |                           |               | 1                        | Dome         |   | 38-20 ±5                                     | 91                      | 15   | 3k                        | 8/                                     | 23 x 12 x 10                         | Opt., Wood Opt. | Blk. Knit                 | 29                      | 400.00 Pair  |
|                     | 83                             | Ac. Sus.  | 10                      | 5¼                        | Cone          | 1                        | Dome         |   | 38-20 ±5                                     | 91                      | 15   | 600,3k                    | 8/                                     | 23 x 12 x 10                         | Opt., Wood Opt. | Blk. Knit                 | 31                      | 520.00 Pair  |
|                     | 93                             | Ac. Sus.  | 12                      | 5¼                        | Cone          | 1                        | Dome         |   | 35-20 ±5                                     | 92                      | 25   | 600,3k                    | 8/                                     | 26 x 15 x 10                         | Opt., Wood Opt. | Blk. Knit                 | 42                      | 600.00 Pair  |
|                     | 235                            | Ac. Sus.  | 10                      | 5¼                        | Cone          | 1                        | Dome         |   | 38-20 ±5                                     | 91                      | 15   | 600,3k                    | 8/                                     | 23 x 12 x 10                         | Opt., Wood Opt. | Blk. Knit                 | 30                      | 630.00 Pair  |
|                     | 335                            | Ac. Sus.  | 10                      | 5¼                        | Cone          | 1                        | Dome         |   | 35-20 ±5                                     | 92                      | 15   | 600,3k                    | 8/                                     | 33 x 13 x 10                         | Opt., Wood Opt. | Blk. Knit                 | 40                      | 800.00 Pair  |
|                     | 400                            | Ac. Sus.  | 12                      | 5¼                        | Cone          | 1                        | Dome         |   | 28-30 ±5                                     | 91                      | 25   | 600,3k                    | 8/                                     | 33 x 15 x 13                         | Opt., Wood Opt. | Blk. Knit                 | 55                      | 900.00 Pair  |
|                     | 435                            | Ac. Sus.  | (2)10                   | 5¼                        | Cone          | 1                        | Dome         |   | 30-20 ±5                                     | 93                      | 25   | 600,3k                    | 4/                                     | 40 x 15 x 10                         | Opt., Wood Opt. | Blk. Knit                 | 56                      | 1100.00 Pair |
|                     | 635                            | Ac. Sus.  | (3)10                   | 5¼                        | Cone          | 1                        | Dome         |   | 25-20 ±5                                     | 94                      | 30   | 600,3k                    | 4/                                     | 49 x 17 x 11                         | Opt., Wood Opt. | Blk. Knit                 | 78                      | 1800.00 Pair |
| NPR AUDIO           | NPR 602 Omni-Dome              | In-Wall In-Ceiling  | 6 8½                    |                           |               | 1 (4)2½                  | Dome Cones   | No No   | 40-20 30-25                                  | 94 50                   | 50 2k  | 8/ 8/                     | 9 x 12 15 Dia. x 9                     | Wht. Wht.                            | Opt. Opt.  | 5 13                      | 120.00 Pair 600.00 Each |              |
|                     |                                |   |                         |                           |               |                          |              |   |  |                         |  |                           |  |                                      |  |                           |                         |              |
| NSM LOUD-SPEAKERS   | 10                             | Ac. Sus.  | 4½                      |                           |               | 1                        | Dome         |   | 58-20 ±3                                     | 82                      | 50   |                           | 16/6                                   | 10 x 6 x 6                           | Opt.   | Opt.                      | 9                       | 595.00 Pair  |
|                     | 15                             | Ac. Sus.; Subwoof.  | 11                      |                           |               | 1                        | Dome         | No  | 25-250 ±3                                    | 88                      | 50   |                           | 8/6                                    | 14 x 18 x 14                         | Opt.   | Opt.                      | 45                      | 795.00 Each  |
|                     | 20M                            | AV; Coaxial   | 6½                      |                           |               | 1                        | Dome         | No  | 48-20 ±3                                     | 86                      | 50   |                           | 16/4                                   | 14 x 8 x 9                           | Opt.   | Opt.                      | 19                      | 1190.00 Pair |
|                     | 25                             | Ac. Sus.  | 6½                      |                           |               | 1                        | Dome         | No  | 40-20 ±3                                     | 82                      | 50   |                           | 20/10                                  | 22 x 9 x 10                          | Opt.   | Opt.                      | 30                      | 895.00 Pair  |
|                     | 50                             | Ac. Sus.  | 6½                      | 6½                        | Cone          | 1                        | Dome         | No  | 40-20 ±3                                     | 87                      | 50   |                           | 16/4                                   | 36 x 9 x 10                          | Opt.   | Opt.                      | 48                      | 1495.00 Pair |
|                     | 75                             | Ac. Sus.  | (2)6½                   | (2)4½                     | Cones         | 1                        | Dome         | No  | 35-20 ±3                                     | 88                      | 50   |                           | 8/2                                    | 47 x 9 x 10                          | Opt.   | Opt.                      | 74                      | 2795.00 Pair |
| NUMARK              | M335 M218 D30                  | Bass Ref.   | 15                      |                           | Compr.        |                          | Compr.       |   | 39-18 ±3 45-17 ±3 45-18                      | 80 87 87                |  |                           | 34 x 21 x 16 29 x 18 x 17 18 x 12 x 12 | Gray Ozite Blk.                      | Blk.   | 64 53 20                  |                         |              |
|                     |                                | Near-Field Monitor  |                         |                           |               |                          |              |   |  |                         |  |                           |  |                                      |  |                           |                         |              |
| OEM SYSTEMS         | SE-893TC                       | In-Wall; Inf. Baf.  | 8                       | 1                         | Dome          | ½                        | Dome         |   | 30-25 ±5                                     | 92                      | 25   | 750,5k                    | 8/6                                    | 13 x 9                               | Wht.   | Opt., Mtl.                | 9                       | 399.95 Pair  |
|                     | SE-892TC                       | In-Wall; Inf. Baf.  | 8                       |                           |               | 1                        | Dome         |   | 30-25 ±5                                     | 92                      | 25   | 2.5k                      | 8/6                                    | 13 x 9                               | Wht.   | Opt., Mtl.                | 9                       | 349.95 Pair  |
|                     | SE-890C                        | In-Wall; Inf. Baf. Subwoof.                                     | 8                       |                           |               | 1                        | Dome         |   | 30-500 ±5                                    | 90                      | 50   | 120                       | 8/6                                    | 13 x 9                               | Wht.   | Opt., Mtl.                | 9                       | 279.95 Each  |
|                     | SE-790TC                       | In-Wall; Inf. Baf.  | 6½                      |                           |               | 1                        | Dome         |   | 50-22 ±5                                     | 90                      | 25   | 3k                        | 8/6                                    | 11 x 7                               | Wht.   | Opt., Mtl.                | 5                       | 299.95 Pair  |
|                     | SE-694TC                       | In-Wall; Inf. Baf.  | 5¼                      |                           |               | 1                        | Dome         |   | 60-21 ±5                                     | 90                      | 25   | 3.5k                      | 8/6                                    | 8 x 5                                | Wht.   | Opt., Mtl.                | 4                       | 249.95 Pair  |
|                     | SE-891                         | In-Wall; Inf. Baf.  | 8                       |                           |               | 1                        | Dome         |   | 40-22 ±5                                     | 88                      | 25   | 2.5k                      | 8/6                                    | 13 x 9                               | Wht.   | Opt., Mtl.                | 8                       | 279.95 Pair  |
|                     | SE-791                         | In-Wall; Inf. Baf.  | 6½                      |                           |               | 1                        | Dome         |   | 60-21 ±5                                     | 90                      | 25   | 5k                        | 8/6                                    | 11 x 7                               | Wht.   | Opt., Mtl.                | 6                       | 229.95 Pair  |
|                     | SE-690                         | In-Wall; Inf. Baf.  | 5¼                      |                           |               | 1                        | Dome         |   | 60-21 ±5                                     | 90                      | 25   | 5k                        | 8/6                                    | 10 x 6                               | Wht.   | Opt., Mtl.                | 5                       | 199.95 Pair  |
|                     | SE-691                         | In-Wall; Inf. Baf.  | 5¼                      |                           |               | ½                        | Dome         |   | 60-21 ±5                                     | 90                      | 20   | 5k                        | 8/6                                    | 8 x 5                                | Wht.   | Opt., Mtl.                | 4                       | 169.95 Pair  |
|                     | CS-540                         | AV; Ctr. Ch.  | (2)5½                   |                           |               | 1                        | Dome         |   | 40-20  | 91                      | 50   | 3.5k                      | 8/6                                    | 6 x 17 x 7                           | Blk. ABS   | Blk. Mtl.                 | 15                      | 249.95 Each  |
|                     | SE-520                         | Indoor/Outdoor  | 5                       |                           |               | 1                        | Dome         |   | 65-20 ±5                                     | 87                      | 25   | 3k                        | 8/6                                    | 9 x 6 x 5                            | Opt., ABS  | Opt., Mtl.                | 6                       | 269.95 Pair  |

# LOUDSPEAKERS

| MANUFACTURER  | Model                       | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Super Tweeter=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms, Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish    | Grille Color and Material | Weight, Lbs. Each | Price, \$    |
|---------------|-----------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-----------|---------------------------|-------------------|--------------|
| OHM ACOUSTICS | Walsh 100                   | Coherent Line Source                                    | 8                       |                           |               | 1                        | Dome         |  | 40-20 ±3                                    | 89                      | 15   |                           | 8/                               | 10 x 14 x 39                         | Opt.      | Blk. Cloth                | 55                | 1195.00 Pair |
|               | Walsh 200                   | Coherent Line Source                                    | 10                      |                           |               | 1                        | Dome         |  | 32-20 ±3                                    | 90                      | 25   |                           | 8/                               | 12 x 16 x 43                         | Opt.      | Blk. Cloth                | 70                | 1695.00 Pair |
|               | Walsh 300                   | Coherent Line Source                                    | 12                      |                           |               | 1                        | Dome         |  | 25-25 ±3                                    | 88                      | 100  |                           | 6/                               | 14 x 18 x 49                         | Opt.      | Blk. Cloth                | 95                | 2795.00 Pair |
|               | Walsh 5                     | Coherent Line Source                                    | 12                      |                           |               | 1                        | Dome         |  | 25-25 ±3                                    | 88                      | 100  |                           | 6/                               | 17 x 17 x 43                         | Opt.      | Blk. Cloth                | 95                | 7000.00 Pair |
|               | SB1                         | Subwoof.  | 10                      |                           |               |                          |              |  | 42-100 ±3                                   | 90                      | 15   | 100                       | 8/                               | 9 x 13 x 23                          | Blk.      | Blk. Cloth                | 25                | 295.00 Each  |
|               | SB4                         | Subwoof.  | (2)12                   |                           |               |                          |              |  | 28-100 ±3                                   | 90                      | 30   | 100                       | 8/                               | 17 x 18 x 28                         | Blk.      | Blk. Cloth                | 65                | 595.00 Each  |
|               | SAT-1                       | Sat.  | 5¼                      |                           |               |                          |              |  | 100-12 ±3                                   | 90                      | 15   | 100                       | 6/                               | 8 x 7 x 7                            | Blk.      | Blk. Opt.                 | 5                 | 200.00 Pair  |
|               | SAT-2                       | Sat.  | 5¼                      |                           |               | ¾                        | Dome         |  | 100-20 ±3                                   | 90                      | 15   | 100                       | 6/                               | 7 x 6 x 6                            | Mtl.      | Blk. Opt., Wht.           | 7                 | 450.00 Pair  |
| CAM 16 HVC G2 | Vented Coherent Line Source | 6½  |                         |                           | ¾             | Dome                     |              | 46-20 ±3   | 89  | 15                      |  | 8/                        | 18 x 9 x 11                      | Blk. Opt.                            | Blk. Knit | 22                        | 300.00 Each       |              |
|               |                             | 8   |                         |                           | 1             | Dome                     |              | 29-25 ±3   | 86  | 100                     |  | 6/                        | 35 x 11 x 12                     | Blk. Opt.                            | Blk. Knit |                           | 1395.00 Pair      |              |
| ONKYO         | SK-600                      | Ac. Sus.  | 6                       |                           | Cone          | 1                        | Cone         |  | 95-20                                       |                         |  |                           | 8/                               | 8 x 12 x 9                           | Blk. Wood | Blk. Knit                 | 6                 | 140.00 Pair  |
|               | SK-800                      | Ac. Sus.  | 8                       | 4                         | Cone          | 1                        | Cone         |  | 90-20                                       |                         |  |                           | 8/                               | 10 x 16 x 12                         | Blk. Wood | Blk. Knit                 | 8                 | 180.00 Pair  |
|               | SK-1200                     | Ac. Sus.  | 12                      | 4                         | Cone          | ¾                        | Dome         |  | 48-20                                       |                         |  |                           | 8/                               | 14 x 22 x 12                         | Blk. Wood | Blk. Knit                 | 14                | 300.00 Pair  |
|               | SK-01                       | Ac. Sus.  | 10                      | 4                         | Cone          | ¾                        | Dome         |  | 45-20                                       |                         |  |                           | 8/                               | 12 x 35 x 10                         | Blk. Wood | Blk. Knit                 | 18                | 360.00 Pair  |
|               | SK-05                       | Ac. Sus.  | 10                      | 4                         | Cone          | ¾                        | Dome         |  | 40-20                                       |                         |  |                           | 8/                               | 12 x 35 x 10                         | Blk. Wood | Blk. Knit                 | 18                | 380.00 Pair  |
|               | SKC-5                       | Ac. Sus.  | (2)4½                   |                           |               | 1                        | Dome         |  | 40-22                                       |                         |  |                           | 8/                               | 18 x 6 x 8                           | Blk. Wood | Blk. Knit                 | 13                | 110.00 Each  |
|               | SKC-3                       | Ac. Sus.  | 4½                      |                           |               |                          |              |  | 40-15                                       |                         |  |                           | 8/                               | 7 x 11 x 6                           | Blk. Wood | Blk. Knit                 | 7                 | 50.00 Pair   |
| OPTIMUS       | PRO-4000                    | Tuned Port Bass Ref.                                    | 15                      | 5                         | Cone          |                          | Horn         |  | 50-20                                       |                         | 160  |                           | 8/                               | 31 x 17 x 12                         | Oil. Wal. | Blk.                      | 18                | 300.00 Each  |
|               | PRO-300                     | Bass Ref.   | 10                      |                           |               | 3                        | Horn         |  | 60-20                                       | 89                      | 100  |                           | 8/                               | 23 x 12 x 8                          | Oil. Wal. | Blk.                      |                   | 100.00 Each  |
|               | PRO-200                     | Bass Ref.   | 8                       |                           |               | 2½                       | Horn         |  | 65-20                                       |                         | 60   |                           | 8/                               | 18 x 20 x 7                          | Oil. Wal. | Blk.                      |                   | 80.00 Each   |
|               | PRO-220                     | Bass Ref.   | 8                       |                           |               | 2½                       | Horn         |  | 65-20                                       |                         | 60   |                           | 8/                               | 18 x 10 x 8                          | Oil. Wal. | Blk.                      |                   | 80.00 Each   |
|               | PRO-127                     |   | 5                       |                           |               | 1¼                       | Cone         |  | 85-20                                       |                         | 50   |                           | 8/                               | 12 x 8 x 6                           | Oil. Wal. | Blk.                      |                   | 70.00 Each   |
|               | PRO-7                       |   | 4                       |                           |               | 1                        | Dome         |  | 100-20                                      |                         | 50   |                           | 8/                               | 7 x 5 x 5                            | Mtl.      | Mtl.                      |                   | 60.00 Each   |

(Continued)

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# LOUDSPEAKERS

| MANUFACTURER           | Model              | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type    | Separate Level Control? Woofer=W, Midrange=M, Tweeter=T, Superwoofer=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish           | Grille Color and Material | Weight, Lbs. Each | Price, \$ |      |
|------------------------|--------------------|---|-------------------------|---------------------------|---------------|--------------------------|-----------------|---|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------------|---------------------------|-------------------|-----------|------|
| OPTIMUS<br>(Continued) | PRO-77             | Sat. & Subwoof.   | 5                       | 3                         | Cone          | 1                        | Dome            |   | 90-20                                       | 70                      |  | 8/                        | 9 x 6 x 5                        | Mtl.                                 | Mtl.             | 37 Sys.                   | 80.00             | Each      |      |
|                        | PRO-7AV            |   | 4                       |                           |               | 1                        | Dome            | 120-20  | 40  |                         | 8/   | 7 x 5 x 5                 | Mtl.                             | Mtl.                                 | 70.00            |                           | Each              |           |      |
|                        | PRO SWS-500        |   | 10                      |                           |               | 1/2                      | Dome            | 40-18   | 100   |                         | 4/   | Three Pieces              | Blk.                             | Blk.                                 | 300.00           |                           | Sys.              |           |      |
|                        | PRO SWS-501        | 12  | 3 1/2                   |                           | 35-20         | 80                       |                 | 8/  | Three Pieces                                | Blk.                    | Blk.   | 250.00                    | Sys.                             |                                      |                  |                           |                   |           |      |
|                        | PRO SW-12          | Subwoof. Powered Ported Subwoof.                        | 12                      |                           |               |                          |                 | W   |   | 35-200                  | 100  |                           | 8/                               | 13 x 18 x 16                         | Oil. Wal.        | Blk.                      | 150.00            | Each      |      |
|                        | PRO SW-10P         |   | 10                      |                           |               |                          |                 |   |   | 25-175                  | 120  |                           | 8/                               |                                      | Blk. Vnl.        | Blk.                      | 400.00            | Each      |      |
|                        | PRO-LX5            | Bass Ref.   | 5                       |                           |               | 2x4                      | Linæum Dipole   |   | 90-25                                       | 88                      | 2k   | 8/                        | 10 x 6 x 6                       | Mtl.                                 | Blk. Cloth       | 130.00                    | Each              |           |      |
|                        | PRO-LX4            | Bass Ref.   | 4                       |                           |               | 3x3 1/2                  | Linæum Monopole |   | 100-25                                      | 87                      | 3k   | 8/                        | 6 x 10 x 5                       | Oil. Wal.                            | Blk. Cloth       | 70.00                     | Each              |           |      |
|                        | PRO-X77            | Bass Ref.   | 5                       |                           |               | 3x3 1/2                  | Linæum Monopole |   | 90-25                                       | 88                      | 3k   | 8/                        | 9 x 6 x 6                        | Mtl.                                 | Blk. Cloth       | 100.00                    | Each              |           |      |
|                        | PRO-X7             | Bass Ref.   | 4                       |                           |               | 1                        | Dome            |   | 100-20                                      | 87                      | 2.5k   | 8/                        | 8 x 5 x 5                        | Mtl.                                 | Blk. Cloth       | 70.00                     | Each              |           |      |
|                        | PRO-X5             | Ac. Sus.  | 3                       |                           |               | 1                        | Dome            |   | 150-20                                      | 87                      | 10k  | 8/                        | 7 x 4 x 4                        | Mtl.                                 | Blk. Cloth       | 40.00                     | Each              |           |      |
|                        | STS-1000           | Tuned Port  | 12                      | 5                         | Cone          | 3/4                      | Dome            |   | 40-20                                       |                         | 100  |                           | 8/                               | 30 x 14 x 11                         | Oil. Wal.        | Blk.                      | 130.00            | Each      |      |
|                        | STS-100            | Ac. Sus.  | 8                       | 4                         |               | 3/4                      | Dome            |   | 75-20                                       |                         | 50   |                           | 8/                               | 17 x 12 x 11                         | Blk. Vnl.        | Blk. Cloth                | 80.00             | Each      |      |
|                        | STS-50             |   | 5                       | 2 1/2                     |               | Cone                     |                 |   | 90-20                                       |                         | 88   | 2.5k                      | 8/                               | 11 x 7 x 5                           | Wal. Vnl.        | Blk. Cloth                | 40.00             | Each      |      |
|                        | XTS-8              | Sat.  | 3 1/2                   |                           |               | 2 1/2                    | Dome            |   | 220-20                                      |                         | 30   |                           | 8/                               | 8 x 4 x 6                            | Mtl.             | Mtl.                      | 80.00             | Pair      |      |
| XTS-9                  | Bass Ref.          | 5 1/4   |                         |                           | 1 1/4         | Dome                     |                 | 110-20  |   | 50                      |  | 8/                        | 9 x 6 x 6                        | Mtl.                                 | Mtl.             | 130.00                    | Pair              |           |      |
| XTS-30                 | Sat.               | 3   |                         |                           |               |                          |                 |   |   | 7                       |  | 8/                        | 4 x 4 x 3                        | Oil. Wal.                            | Blk.             | 16.00                     | Each              |           |      |
| XTS-25                 | Sat.               | 4   |                         |                           |               |                          |                 |   |   | 10                      |  | 8/                        | 7 x 5 x 4                        | Oil. Wal.                            | Blk.             | 20.00                     | Each              |           |      |
| XTS-22                 | Ac. Sus.           | 4   |                         |                           |               |                          |                 | 100-18  |   | 86                      |  | 8/                        | 9 x 5 x 5                        | Blk. Vnl.                            | Blk. Cloth       | 30.00                     | Each              |           |      |
| XTS-40                 | A/V, Ac. Sus.      | 4   |                         |                           |               |                          |                 | 150-18  |   | 89                      |  | 8/                        | 5 x 5 x 4                        | Blk. Vnl.                            | Mtl.             | 20.00                     | Each              |           |      |
| ORACLE AUDIO           | Mentor Monitor     | Bass Ref.   | 5 1/2                   |                           |               | 3/4                      | Dome            |   | 55-20 ±2                                    | 89                      | 25   | 3.5k                      | 4/2.5                            | 14 x 8 x 12                          |                  |                           | 19                | 1795.00   | Pair |
|                        | Thalia             | Bass Ref.   | 5 1/2                   |                           |               | 3/4                      | Dome            |   | 50-20 ±2                                    | 89                      | 25   | 100.3.5k                  | 4/2.5                            | 36 x 10 x 14                         |                  |                           | 54                | 2995.00   | Pair |
|                        | Mentor Studio      | Bass Ref., 2 Sats. & 2 Subs.                            | 5 1/2                   |                           |               | 3/4                      | Dome            |   | 50-20 ±2                                    | 89                      | 25   | 100.3.5k                  | 4/2.5                            | Four Pieces                          |                  |                           | 64                | 3790.00   | Sys. |
| Minerva Helicon        | Hybrid             | (2)8  | 8                       |                           | 44            | Ribbon                   |                 | 50-20 ±2  | 84  | 60                      | 100.3.5k                                     | 8/4                       | 56 x 15 x 14                     |                                      |                  | 19                        | 5995.00           | Pair      |      |
|                        | Hybrid             | (2)9 1/2  | 5 1/2                   |                           | 44            | Ribbon                   |                 | 35-20 ±2  | 83  | 80                      | 200.3k                                       | 6.5/3                     | 58 x 14 x 14                     |                                      |                  | 64                        | 7995.00           | Pair      |      |
| OWI                    | SPV-02             | Outdoor   | 4                       |                           |               | 2                        | Dome            |   | 90-20                                       | 92                      | 35   | 6k                        | 8/                               | 24 x 18 x 12                         | Concrete, Fbgls. |                           | 50                | 440.00    | Each |
|                        | SMA-02             | Outdoor   | 4                       |                           |               | 2                        | Dome            |   | 90-20                                       | 92                      | 35   | 6k                        | 8/                               | 24 x 18 x 12                         | Concrete, Fbgls. |                           | 50                | 444.00    | Each |
|                        | LPV-03             | Outdoor   | 5 1/4                   | 2                         | Dome          | 1/2                      | Dome            |   | 60-22                                       | 93                      | 35   | 6.9k                      | 8/                               | 25 x 22 x 15                         | Concrete, Fbgls. |                           | 70                | 560.00    | Each |
|                        | LMA-03             | Outdoor   | 5 1/4                   | 2                         | Dome          | 1/2                      | Dome            |   | 60-22                                       | 93                      | 35   | 6.9k                      | 8/                               | 25 x 22 x 15                         | Concrete, Fbgls. |                           | 70                | 560.00    | Each |
|                        | 202                | Surface   | 4                       |                           |               | 2                        |                 |   | 90-20                                       | 92                      | 30   | 6k                        | 8/3                              | 7 x 5 x 4                            | Alum.            | Opt.                      | 5                 | 169.00    | Pair |
|                        | 203                | Surface   | 4                       | 1/2                       |               | 2                        |                 |   | 90-22                                       | 92                      | 30   | 6k,9k                     | 8/3                              | 7 x 5 x 4                            | Alum.            | Opt.                      | 6                 | 189.00    | Pair |
|                        | 502                | Surface   | 5 1/4                   |                           |               | 2                        |                 |   | 60-19                                       | 93                      | 30   | 6k                        | 8/3                              | 7 x 10 x 6                           | Alum.            | Opt.                      | 7                 | 319.00    | Pair |
|                        | 503                | Surface   | 5 1/4                   |                           |               | 2                        |                 |   | 60-22                                       | 93                      | 30   | 6k                        | 8/3                              | 7 x 10 x 6                           | Alum.            | Opt.                      | 7                 | 349.00    | Pair |
|                        | 900                | Surface Subwoof.  | 5 1/4                   | 1                         |               | 2                        |                 |   | 40-450                                      | 93                      | 30   | 430                       | 8/4                              | 7 x 10 x 6                           | Alum.            | Opt.                      | 7                 | 229.00    | Pair |
|                        | M-4F               | In-Wall   | 4                       |                           |               | 4                        |                 |   | 70-18                                       | 90                      | 15   |                           | 4/1                              | 4 x 4                                | Plast.           | Wht.                      | 1                 | 65.00     | Each |
|                        | M-5cx              | Coaxial, In-Wall  | 5 1/4                   |                           | 1/2           | 4                        | Cone            |   | 50-20                                       | 94                      | 15   |                           | 4/1                              | 6 x 6                                | Plast.           | Wht.                      | 2                 | 89.00     | Each |
|                        | 2300               | In-Wall   | 5                       |                           | 2             | 4                        | Ribbon          |   | 50-20                                       | 85                      | 35   |                           | 4/1                              | 9 x 9                                | Plast.           | Wht.                      | 3                 | 229.00    | Each |
| 2301                   | In-Wall/In-Ceiling | 5 1/2   |                         |                           | 4             |                          |                 | 65-20   | 90  | 30                      |  | 6/2                       | 9 x 9                            | Plast.                               | Wht.             | 3                         | 160.00            | Each      |      |
| 3301                   | In-Wall/In-Ceiling | 5 1/2   |                         |                           | 4             |                          |                 | 50-20   | 90  | 30                      |  | 4/1                       | 9 Dia.                           | Plast.                               | Wht.             | 3                         | 217.00            | Each      |      |
| 3302                   | In-Wall/In-Ceiling | 5 1/2   |                         |                           | 4             |                          |                 | 65-20   | 91  | 30                      |  | 4/1                       | 9 Dia.                           | Plast.                               | Wht.             | 3                         | 191.00            | Each      |      |
| OXFORD                 | KT168              | Vented Sat.   | 4                       |                           |               | 3/4                      | Dome            |   | 55-21                                       | 90                      | 20   | 3k                        | 8/                               | 8 x 5 x 5                            | Opt.             | Opt.                      | 3                 | 129.00    | Pair |
| PACIFIC SOUND & SIGNAL | PAC40              | Vented  | 4                       |                           |               | 3/4                      | Dome            |   | 60-21 ±5                                    | 90                      | 5  | 3k                        | 4/3                              | 8 x 5 x 5                            | Blk.             | Blk.                      | 3                 | 129.00    | Pair |
|                        | CF65               | Subwoof.  | (2)6 1/2                |                           |               |                          |                 |   | 30-120                                      | 90                      | 50   | 120                       | 8/6                              | 25 x 14 x 11                         | Blk.             | Blk.                      | 34                | 399.00    | Each |
| PARADIGM               | Micro              | Bass Ref.   | 5                       |                           |               | 3/8                      | Dome            |   | 70-20 ±2.5                                  | 88                      | 15   | 3k                        | 8/4                              | 9 x 7 x 8                            | Opt.             | Opt.                      | 6                 | 70.00     | Each |
|                        | Atom               | Bass Ref.   | 5 1/2                   |                           |               | 3/4                      | Dome            |   | 60-20 ±2                                    | 89                      | 15   | 3k                        | 8/4                              | 11 x 7 x 8                           | Opt.             | Opt.                      | 9                 | 85.00     | Each |
|                        | Titan              | Bass Ref.   | 6 1/2                   |                           |               | 3/4                      | Dome            |   | 55-20 ±2                                    | 88                      | 15   | 3k                        | 8/4                              | 13 x 8 x 10                          | Opt.             | Opt.                      | 13                | 105.00    | Each |
|                        | Phantom            | Bass Ref.   | 8                       |                           |               | 3/4                      | Dome            |   | 40-20 ±2                                    | 90                      | 15   | 2.5k                      | 8/4                              | 19 x 10 x 12                         | Opt.             | Blk. Knit                 | 22                | 155.00    | Each |
|                        | MINI-MkII          | Bass Ref.   | 6 1/2                   |                           |               | 1                        | Dome            |   | 48-20 ±2                                    | 89                      | 15   | 2k                        | 8/4                              | 15 x 9 x 10                          | Opt.             | Blk. Knit                 | 18                | 160.00    | Each |
|                        | 3seMkII            | Bass Ref.   | 8                       |                           |               | 1                        | Dome            |   | 38-20 ±2                                    | 91                      | 15   | 2.5k                      | 8/4                              | 21 x 10 x 12                         | Opt.             | Blk. Knit                 | 24                | 210.00    | Each |
|                        | 5seMk3             | Bass Ref.   | 8                       |                           |               | 1                        | Dome            |   | 32-20 ±2                                    | 90                      | 15   | 2.2k                      | 8/4                              | 33 x 10 x 12                         | Opt.             | Blk. Knit                 | 35                | 265.00    | Each |
|                        | 7seMk3             | Bass Ref.   | (2)6 1/2                |                           |               | 1                        | Dome            |   | 34-20 ±2                                    | 92                      | 15   | 1.8k                      | 6/4                              | 35 x 8 x 15                          | Opt.             | Blk. Knit                 | 43                | 315.00    | Each |
|                        | 9seMk3             | Bass Ref.   | (2)8                    |                           |               | 1                        | Dome            |   | 32-20 ±2                                    | 93                      | 15   | 2k                        | 6/4                              | 37 x 11 x 15                         | Opt.             | Blk. Knit                 | 50                | 375.00    | Each |
|                        | 11seMk3            | Bass Ref.   | (2)8                    | 6 1/2                     | Cone          | 1                        | Dome            |   | 28-20 ±2                                    | 92                      | 15   | 550,1.9k                  | 6/4                              | 44 x 11 x 16                         | Opt.             | Blk. Knit                 | 68                | 525.00    | Each |
|                        | Compact Monitor    | Bass Ref.   | 6 1/2                   |                           |               | 1                        | Dome            |   | 40-20 ±2                                    | 88                      | 15   | 2k                        | 8/4                              | 16 x 9 x 11                          | Opt.             | Blk. Knit                 | 22                |           |      |
|                        | Studio Monitor     | Bass Ref.   | (2)8                    | 5                         | Cone          | 1                        | Dome            |   | 25-20 ±2                                    | 90                      | 15   | 275,2.5k                  | 6/4                              | 44 x 13 x 17                         | Wood Opt.        | Blk. Knit                 | 93                | 950.00    | Each |
|                        | Export/BP          | Bipolar   | (2)6 1/2                |                           |               | (2)1                     | Domes           |   | 28-20 ±2                                    | 90                      | 15   | 2k                        | 8/4                              | 42 x 9 x 14                          | Wood Opt.        | Blk. Knit                 | 60                |           |      |
|                        | Esprit/BP          | Bipolar   | (2)6 1/2                |                           |               | (2)1                     | Domes           |   | 23-20 ±2                                    | 90                      | 15   | 1.7k                      | 8/4                              | 45 x 9 x 14                          | Wood Opt.        | Blk. Knit                 | 70                | 625.00    | Each |
|                        | Eclipse/BP         | Bipolar   | (2)8                    |                           |               | (2)1                     | Domes           |   | 22-20 ±2                                    | 90                      | 15   | 1.7k                      | 6/4                              | 48 x 11 x 17                         | Wood Opt.        | Blk. Knit                 | 80                |           |      |
|                        | CC-100             | Ctr. Ch.: Bass Ref.                                     | (2)5 1/2                |                           |               | 3/4                      | Dome            |   | 70-20 ±2                                    | 92                      | 15   | 2.8k                      | 6/4                              | 6 x 20 x 7                           | Opt.             | Blk. Knit                 | 18                | 200.00    | Each |
|                        | CC-200             | Ctr. Ch.: Bass Ref.                                     | (2)5 1/2                |                           |               | 3/4                      | Dome            |   | 60-20 ±2                                    | 92                      | 15   | 2.8k                      | 6/4                              | 6 x 17 x 15                          | Opt.             | Blk. Knit                 | 20                | 200.00    | Each |
|                        | CC-300             | Ctr. Ch.: Bass Ref.                                     | (2)6 1/2                |                           |               | 1                        | Dome            |   | 38-20 ±2                                    | 92                      | 15   | 2k                        | 6/4                              | 7 x 22 x 15                          | Opt.             | Blk. Knit                 | 25                | 300.00    | Each |
| ADP-100                | Surround           | (2)5  |                         |                           | (2)3/8        | Domes                    |                 | 85-20   | 88  | 15                      | 3k   | 6/4                       | 9 x 9 x 7                        | Opt.                                 | Opt.             | 8                         | 160.00            | Each      |      |
| ADP-150                | Surround           | (2)5 1/2  |                         |                           | (2)3/4        | Domes                    |                 | 65-20   | 89  | 15                      | 3k   | 6/4                       | 11 x 9 x 7                       | Opt.                                 | Opt.             | 12                        | 200.00            | Each      |      |
| SB-80                  | Bandpass Subwoof.  | 8   |                         |                           |               |                          |                 | 40-100 ±2   | 93  | 15                      | 100  | 8/6                       | 17 x 11 x 19                     | Opt.                                 | None             | 33                        | 210.00            | Each      |      |
| SB-100                 | Bandpass Subwoof.  | 10  |                         |                           |               |                          |                 | 36-100 ±2   | 94  | 15                      | 100  | 8/6                       | 17 x 17 x 19                     | Opt.                                 | None             | 42                        | 250.00            | Each      |      |
| SB-120                 | Bandpass Subwoof.  | 12  |                         |                           |               |                          |                 | 26-100 ±2   | 95  | 15                      | 100  | 8/6                       | 17 x 19 x 28                     | Opt.                                 | None             | 57                        | 360.00            | Each      |      |

(Continued)

# LOUDSPEAKERS

| MANUFACTURER         | Model          | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W, Midrange-M, Tweeter-T, Superwoofer-ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish     | Grille Color and Material | Weight, Lbs. Each | Price, \$ |
|----------------------|----------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------|---------------------------|-------------------|-----------|
| PARADIGM (Continued) | PS-1000        | Powered Bandpass Subwoofer                              | 10                      |                           |               |                          |              |  | 28-100 ±2                                   | 120 Inc.                | 50-150 (Var.)                                |                           | 17 x 17 x 19                     | Opt.                                 | None       | 60                        | 520.00 Each       |           |
|                      | AMS-200        | In-Wall, Inf. Baf.                                      | 6½                      |                           | 1             | Dome                     |              |  | 55-20 ±2                                    | 88 15                   | 2k   | 8/6                       | 12 x 8 x 3                       | Wht. Wht.                            | Wht. Mtl.  | 6                         | 190.00 Each       |           |
|                      | AMS-300        | In-Wall, Inf. Baf.                                      | 8                       |                           | 1             | Dome                     |              |  | 45-20 ±2                                    | 89 15                   | 1.5k   | 8/4                       | 13 x 8 x 3                       | Wht. Wht.                            | Wht. Mtl.  | 7                         | 240.00 Each       |           |
| PARADOX              | Purpleheart II | Vented  | 8                       |                           | (2)1          | Domes                    |              |  | 40-20 ±3                                    | 94 25                   | 1.5k   | 6/4                       | 10 x 14 x 22                     | Opt., Wood                           | Blk. Knit  | 70                        | 2400.00 Pair      |           |
| PARAGON ACOUSTICS    | Regent         | Vented  | (2)6½                   |                           | ¾             | Dome                     |              |  | 32-20 ±3                                    | 91 25                   | 2.6k   | 6/3.6                     | 10 x 15 x 47                     | Opt., Wood                           | Blk. Knit  | 150                       | 2800.00 Pair      |           |
|                      | Jubilee        | Phased Aperiodic  | 6½                      |                           | ¾             | Dome                     |              |  | 65-20 ±2.5                                  | 85 30                   | 2.7k   | 8/5                       | 9 x 10 x 16                      | Opt., Wood                           | Blk. Knit  | 46                        | 1495.00 Pair      |           |
| PARAMOUNT PICTURES   | H/T-1          | Home Th.  | 15,12                   | 4½                        | Cone          | 2½                       | Cone, Dome   |  | 38-20 ±3                                    | 91 20                   | 150,800, 6k                                  | 8/                        | Three Pieces                     | Opt.                                 | Blk. Knit  | 345 Sys.                  | 899.95 Sys.       |           |
|                      | H/T-2          | Home Th.  | 12,10                   | 4½, 5¼                    | Cones         | 2½                       | Cone, Dome   |  | 38-20 ±3                                    | 90 20                   | 150,800, 6k                                  | 8/                        | Three Pieces                     | Gloss Blk.                           | Gray Knit  | 345 Sys.                  | 899.95 Sys.       |           |
|                      | H/T-3          | Home Th.  | 12, (2)8 10             | 5¼                        | Cone          | 1½                       | Dome         |  | 38-20 ±3                                    | 90 20                   | 150,800, 6k                                  | 8/                        | Three Pieces                     | Blk. Dark Cherry Charc.              | Blk. Knit  | 325 Sys.                  | 899.95 Sys.       |           |
|                      | H/T-4          | Home Th.  | (2)8 10                 | (2)4½                     | Cones         | (2)½                     | Domes        |  | 40-20 ±3                                    | 88 15                   | 150,5k                                       | 8/                        | 33 x 19 x 32                     | Gray Blk. Ash                        | Gray Knit  | 120 Sys.                  | 399.95 Each       |           |
|                      | H/T-7          | Home Th.  | (2)8                    | (2)4½                     | Cones         | (2)2                     | Cones        |  | 50-20 ±3                                    | 90 15                   | 1k,6k  | 8/                        | Three Pieces                     | Blk. Knit                            | 215 Sys.   | 499.95 Sys.               |                   |           |
|                      | H/T-8.3        | Home Th.  | 10,8                    | (2)4½                     | Cones         | 2½                       | Cone, Dome   |  | 38-20 ±3                                    | 89 15                   | 150,6k                                       | 8/                        | Three Pieces                     | Charc. Gray                          | Gray Knit  | 298 Sys.                  | 849.95 Sys.       |           |
|                      | MM2.5          | A/V; Powered  | 6½                      | (2)4½                     | Cones         | (2)½                     | Domes        | T  | 70-20 ±3                                    | 98 100 Inc.             | 4k   |                           | 12 x 6 x 7                       | Opt., Knit                           | Opt., Knit | 13                        | 249.95 Pair       |           |
|                      | MM3            | A/V; Sat. & Powered Subwoof.                            | 6½                      | (2)4½                     | Cones         | (2)½                     | Domes        | T  | 45-20 ±3                                    | 105 100 Inc.            | 150,4k                                       |                           | Three Pieces                     | Opt.                                 | Opt., Knit | 34 Sys.                   | 349.95 Sys.       |           |
|                      | MM3.5          | A/V; Sat. & Powered Subwoof.                            | (2)6½                   | (2)4½                     | Cones         | (2)½                     | Domes        | T  | 38-20 ±3                                    | 108 100 Inc.            | 150,4k                                       |                           | Three Pieces                     | Opt.                                 | Opt., Knit | 46 Sys.                   | 429.95 Sys.       |           |
|                      | MM-2           | Ctr. Ch.  | 4½                      |                           |               | ½                        | Dome         |  | 85-20 ±3                                    | 86 10                   | 5k   | 8/                        | 5 x 12 x 7                       | Blk. Onyx                            | Gray Knit  | 11                        | 99.95 Each        |           |
| (Continued)          | PC-3A          | Ctr. Ch.  | (2)4½                   |                           | ½             | Dome                     |              | 76-20 ±3   | 88 10                                       | 4.5k                    | 6/   | 5 x 14 x 7                | Opt.                             | Blk. Knit                            | 12         | 149.95 Each               |                   |           |
|                      | AW-3           | Ctr. Ch.  | (2)5¼                   |                           | ¾             | Dome                     |              | 70-20 ±3   | 89 15                                       | 4k                      | 6/   | 7 x 16 x 3                | Opt.                             | Blk. Knit                            | 14         | 199.95 Each               |                   |           |
|                      | CC-4           | Ctr. Ch.  | (2)4½                   |                           | (2)½          | Domes                    |              | 70-20 ±3   | 88 15                                       | 4.5k                    | 6/   | 18 x 9 x 6                | Opt.                             | Blk. Gray Knit                       | 14         | 249.95 Each               |                   |           |
|                      | AW-5           | Home Th.  | 5                       |                           | 1             | Dome                     |              | 55-20 ±3   | 87 10                                       | 3.5k                    | 8/   | 7 x 7 x 11                | Opt.                             | Blk. Knit                            | 11         | 84.95 Each                |                   |           |
|                      | AW-7           | Home Th.  | 7                       |                           | 1             | Dome                     |              | 48-20 ±3   | 88 15                                       | 3k                      | 8/   | 9 x 10 x 14               | Opt.                             | Blk. Knit                            | 18         | 109.95 Each               |                   |           |
|                      | AW-9           | Home Th.  | 9                       |                           | 1             | Dome                     |              | 40-20 ±3   | 89 15                                       | 3k                      | 8/   | 10 x 18 x 9               | Opt.                             | Blk. Knit                            | 22         | 149.95 Each               |                   |           |

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# LOUDSPEAKERS

| MANUFACTURER                   | Model             | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Superwoofer=ST | Anechoic Frequency Response, Hz to KHz, $\pm$ dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish          | Grille Color and Material | Weight, Lbs. Each          | Price, \$                 |
|--------------------------------|-------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-----------------|---------------------------|----------------------------|---------------------------|
| PARAMOUNT PICTURES (Continued) | AW-9.2            | Home Th. Sat. & Subwoof.                                | (2)9                    |                           |               | 1                        | Dome         |  | 36-20 $\pm$ 3                                    | 92                      | 2.5k   | 8/                        | 10 x 40 x 11                     | Opt.                                 | Blk. Knit       | 42                        | 249.95 Each                |                           |
|                                | AW-9.5            |   | (2)9                    |                           |               | 1                        | Dome         |  | 40-20 $\pm$ 3                                    | 89                      | 150.3k                                       | 8/                        | Three Pieces                     | Opt.                                 | Blk. Knit       | 58                        | 499.95 Sys.                |                           |
| PARASOUND                      | AWM360            | Indoor/Outdoor  | 4                       |                           |               | 1                        | Dome         |  | 65-20 $\pm$ 3                                    | 86                      | 10   | 2.6k                      | 8/6                              | 5 x 7 x 5                            | Opt., Mtl.      | Opt., Mtl.                | 5                          | 155.00 Pair               |
|                                | AWS280            | Indoor/Outdoor  | 5 1/4                   |                           |               | 2                        | Cone         |  | 55-20 $\pm$ 3                                    | 88                      | 10   | 3k                        | 8/6                              | 7 x 9 x 7                            | Opt., Mtl.      | Opt., Mtl.                | 10                         | 265.00 Pair               |
|                                | AWM380            | Indoor/Outdoor  | 5 1/4                   |                           |               | 1                        | Dome         |  | 48-20 $\pm$ 3                                    | 88                      | 10   | 2.4k                      | 8/6                              | 7 x 9 x 7                            | Opt., Mtl.      | Opt., Mtl.                | 11                         | 345.00 Pair               |
|                                | CS/T280           | In-Wall   | 8                       |                           |               | 1                        | Dome         |  | 36-22 $\pm$ 3                                    | 89                      | 10   | 2.4k                      | 8/6                              | 10 x 14                              | Wht.            | Wht. Mtl.                 | 7                          | 465.00 Pair               |
|                                | CS/W802           | In-Wall; Subwoof.                                       | 8                       |                           |               |                          |              |  | 29-180 $\pm$ 3                                   | 89                      | 10   | 140                       | 8/6                              | 10 x 14                              | Wht.            | Wht. Mtl.                 | 10                         | 249.00 Each               |
|                                | CS/T265           | In-Wall   | 6 1/2                   |                           |               | 1                        | Dome         |  | 42-22 $\pm$ 3                                    | 88                      | 10   | 2.4k                      | 8/6                              | 9 x 12                               | Wht.            | Wht. Mtl.                 | 6                          | 345.00 Pair               |
|                                | CS/T255           | In-Wall   | 5 1/4                   |                           |               | 1                        | Dome         |  | 54-22 $\pm$ 3                                    | 87                      | 10   | 2.6k                      | 8/6                              | 8 x 11                               | Wht.            | Wht. Mtl.                 | 5                          | 249.00 Pair               |
|                                | CS/T250           | In-Wall   | 5 1/4                   |                           |               | 1                        | Dome         |  | 70-20 $\pm$ 4                                    | 86                      | 10   | 2.2k                      | 8/6                              | 8 x 11                               | Wht.            | Wht. Mtl.                 | 5                          | 139.00 Pair               |
|                                | GMAS-18           | Powered Aperiodic Subwoof.                              | 18                      |                           |               |                          |              | W  | 10-80  |                         | Inc.   |                           | 8/6                              | 36 x 28 x 18                         | Opt.            | Gray Knit                 | 196                        | 3850.00 Each              |
|                                | Normad            | Indoor/Outdoor  | 6 1/2                   |                           |               | 1                        | Dome         |  | 35-20 $\pm$ 4                                    | 90                      |  | 2.4k                      | 8/6                              | 9 x 13 x 8                           | Opt.            | Opt.                      | 8                          | 475.00 Pair               |
| PEGASUS AUDIO                  | Alpha IIA         | Vented  | 6 1/2                   |                           |               | 1                        | Flat         |  | 46-20 $\pm$ 3                                    | 88                      | 25   | 5.5k                      | 8/7.8                            | 20 x 13 x 9                          | Opt., Lam.      | Opt., Knit                | 28                         | 600.00 Pair; Kit, 300.00  |
|                                | Alpha III         | Vented  | 5 1/4                   |                           |               | 3/4                      | Dome         |  | 50-20 $\pm$ 3                                    | 85.6                    | 25   | 4k                        | 4/3                              | 17 x 7 x 11                          | Opt., Lam.      | Opt., Knit                | 20                         | 700.00 Pair; Kit, 330.00  |
|                                | Beta              | Vented  | 6 1/2                   |                           |               | 1                        | Dome         |  | 65-15 $\pm$ 3                                    | 85.6                    | 25   | 6k                        | 8/4.1                            | 17 x 11 x 7                          | Opt., Lam.      | Opt., Knit                | 20                         | 450.00 Pair; Kit, 250.00  |
|                                | Lambda IA         | Vented  | 6 1/2                   |                           |               | 3/4                      | Dome         |  | 45-20 $\pm$ 3                                    | 88                      | 25   | 3.1k                      | 6/3.8                            | 17 x 9 x 11                          | Opt., Lam.      | Opt., Knit                | 20                         | 850.00 Pair; Kit, 400.00  |
|                                | Gemini            | Vented  | (2)6 1/2                |                           |               | 1                        | Flat         |  | 40-20 $\pm$ 3                                    | 87.2                    | 25   | 5.5k                      | 4/3.9                            | 39 x 10 x 10                         | Opt., Lam.      | Opt., Knit                | 43                         | 1500.00 Pair; Kit, 500.00 |
|                                | Athena            | Vented Subwoof.   | 8                       |                           |               |                          |              |  | 35-200 $\pm$ 3                                   | 87                      | 25   |                           | 8/5                              | 39 x 10 x 10                         | Lam. Blk. Matte | None                      | 43                         | 500.00 Each; Kit, 200.00  |
|                                | Apollo            | Vented Subwoof.   | (2)10                   |                           |               |                          |              |  | 29-200 $\pm$ 3                                   | 90                      | 25   |                           | 4/3.1                            | 36 x 14 x 14                         | Lam. Blk. Matte | None                      | 64                         | 675.00 Each; Kit, 300.00  |
|                                | Quartet           | Sealed Sat. & Vented Subwoof.                           | 6 1/2                   | 4 1/2                     | Cone          | 3/4                      | Dome         |  | 46-20 $\pm$ 3                                    | 92                      | 25   | 150.5k                    | 8/7                              | Four Pieces                          | Lam. Opt.       | Opt., Knit                | 70                         | 1299.00 Sys.; Kit, 899.00 |
|                                | Stereo Sub-Woofer | Vented Stereo Subwoof.                                  | (4)8                    |                           |               |                          |              |  | 32-200 $\pm$ 3                                   | 89                      | 50   |                           | 4/2.8                            | 22 x 32 x 13                         | Lam. Blk. Matte | None                      | 70                         | 1299.00 Each; Kit, 899.00 |
| RockMaster 3                   | Vented            | 15  |                         |                           | 4x11          | Horn                     |              | 46-20 $\pm$ 3  | 97   | 40                      | 3.5k   | 6/3.3                     | 32 x 20 x 13                     | Lam. Blk. Paint                      | Blk. Mtl.       | 79                        | 2400.00 Pair; Kit, 1200.00 |                           |

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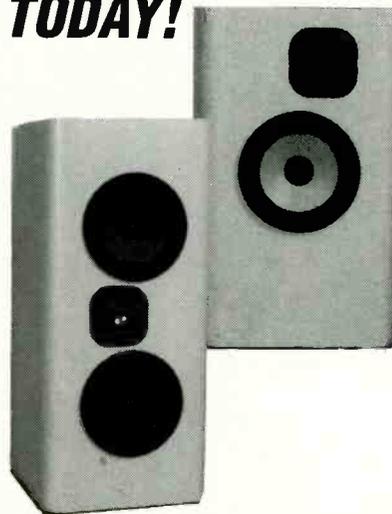
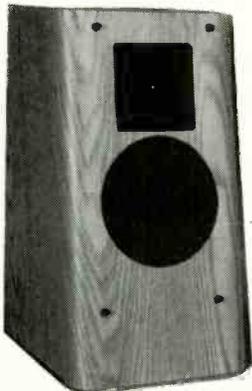
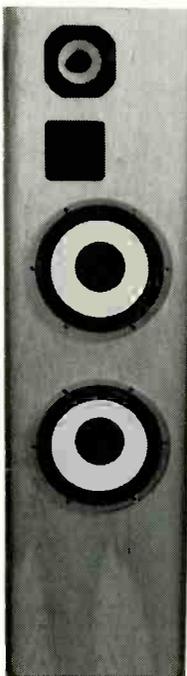
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# LOUDSPEAKERS

| MANUFACTURER           | Model                       | Application, Design Principle, Enclosure or System Type  | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W Midrange-MT Tweeter-T Super Tweeter-ST | Amplitude Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms, Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish      | Grille Color and Material | Weight, Lbs. Each | Price, \$         |
|------------------------|-----------------------------|--|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-------------|---------------------------|-------------------|-------------------|
| PERSONA TECHNOLOGIES   | Personal Home Theatre       | Powered Sat.   | 3                       | 2½                        | Cone          | ½x2                      | Piezo        |  | 75-18 ±3                                     | 88                      | 20 Inc.                                      | 150,11.5k                 | 4/4                              | 4 x 9 x 5                            |             | Gray                      | 2                 | 199.95 Pair       |
| PHASE TECHNOLOGY       | PC 40/50 Mark II            | Ac. Sus. Sat. & Subwoof.                                 | 10                      | 5¼                        | Solid Piston  | 1                        | Dome         |  | 35-20 ±3                                     | 88                      | 25   | 90,1.8k                   | 4/4                              | Three Pieces                         | Opt.        | Blk. Knit                 | 53 Sys.           | 730.00 Sys.       |
|                        | PC 60/50 Mark II            | Ac. Sus. Sat. & Subwoof.                                 | 10                      | 6½                        | Solid Piston  | 1                        | Dome         |  | 35-20 ±3                                     | 88                      | 25   | 95,2.1k                   | 8/6                              | Three Pieces                         | Opt.        | Blk. Knit                 | 65 Sys.           | 830.00 Sys.       |
|                        | PC 40 Mark II               | Ac. Sus.   | 5¼                      |                           |               | 1                        | Dome         |  | 70-20 ±3                                     | 89                      | 15   | 1.8k                      | 4/3.5                            | 6 x 5 x 10                           | Opt.        | Blk. Knit                 | 9                 | 190.00 Each       |
|                        | PC 50 Mark II               | Ac. Sus.   | 10                      |                           |               | 1                        | Dome         |  | 35-90 ±3                                     | 88                      | 25   | 90                        | 8/6                              | 13 x 14 x 15                         | Opt.        | Blk. Knit                 | 33                | 350.00 Each       |
|                        | PC 60 Mark II               | Ac. Sus. Stereo Subwoof.                                 | 6½                      |                           |               | 1                        | Dome         |  | 55-20 ±3                                     | 88                      | 25   | 2.1k                      | 6/4                              | 9 x 8 x 13                           | Opt.        | Blk. Knit                 | 16                | 240.00 Each       |
|                        | PC 80                       | Ac. Sus. Tuned Port                                      | 6½                      |                           |               | 1                        | Dome         |  | 50-20 ±3                                     | 88                      | 25   | 2.5k                      | 6/4                              | 10 x 11 x 16                         | Opt.        | Blk. Knit                 | 32                | 325.00 Each       |
|                        | PC 6.5                      | Ac. Sus.   | 8                       | 5¼                        | Solid Piston  | 1                        | Dome         |  | 42-20 ±2                                     | 89                      | 25   | 450,2k                    | 4/4                              | 11 x 9 x 36                          | Opt.        | Blk. Knit                 | 58                | 450.00 Each       |
|                        | PC 8.5                      | Ac. Sus.   | 10                      | 5¼                        | Solid Piston  | 1                        | Dome         |  | 35-20 ±2                                     | 89                      | 25   | 350,2k                    | 4/4                              | 13 x 12 x 36                         | Opt.        | Blk. Knit                 | 90                | 600.00 Each       |
|                        | PC 10.5                     | Tuned Port   | 10                      | 5¼                        | Solid Piston  | 1                        | Dome         |  | 25-20 ±2                                     | 89                      | 25   | 350,2.2k                  | 6/4                              | 13 x 14 x 44                         | Opt.        | Blk. Knit                 | 110               | From 1100.00 Each |
|                        | PC-Center                   | Ac. Sus.; Ctr. Ch.                                       | (2)5¼                   |                           |               | 1                        | Dome         |  | 75-20  | 90                      | 15   | 2.5k                      | 8/6                              | 20 x 6 x 11                          | Blk. Lam.   | Blk. Knit                 | 26                | 300.00 Each       |
|                        | PC 60AV                     | Ac. Sus.   | 6½                      |                           |               | 1                        | Dome         |  | 55-20 ±2                                     | 88                      | 25   | 2.1k                      | 6/4                              | 9 x 8 x 13                           | Blk. Lacq.  | Blk. Knit                 | 18                | 275.00 Each       |
|                        | PC 80AV                     | Tuned Port   | 6½                      |                           |               | 1                        | Dome         |  | 50-20 ±2                                     | 88                      | 25   | 2.5k                      | 6/4                              | 10 x 11 x 16                         | Blk. Lacq.  | Blk. Knit                 | 26                | 350.00 Each       |
|                        | 2T/T-SUB                    | Sat. & Subwoof.  | (2)6½                   | 5¼                        | Cone          | ¾                        | Dome         |  | 45-20  | 89                      | 10   | 150,3k                    | 8/6                              | Three Pieces                         | Blk. Lacq.  | Blk. Knit                 | 40 Sys.           | 399.00 Sys.       |
|                        | 2T                          | Ac. Sus.   | 5¼                      |                           |               | ¾                        | Dome         |  | 95-20 ±3                                     | 89                      | 10   | 3k                        | 8/6                              | 10 x 6 x 5                           | Blk. Lam.   | Blk. Knit                 | 7                 | 199.90 Pair       |
|                        | T-SUB                       | Bandpass Stereo Subwoof.                                 | (2)6½                   |                           |               |                          |              |  | 45-150 ±3                                    | 89                      | 10   | 150                       | 8/6                              | 18 x 15 x 8                          | Blk. Lam.   | Blk. Knit                 | 28                | 200.00 Each       |
|                        | 1C                          | Ac. Sus.; Ctr. Ch.                                       | (2)5¼                   |                           |               | ¾                        | Dome         |  | 80-20  | 90                      | 15   | 3k                        | 8/6                              | 20 x 6 x 8                           | Blk. Lam.   | Blk. Knit                 | 23                | 170.00 Each       |
|                        | 3T                          | Tuned Port   | 6½                      |                           |               | 1                        | Dome         |  | 50-20 ±3                                     | 90                      | 15   | 3k                        | 8/6                              | 8 x 9 x 16                           | Blk. Lam.   | Blk. Knit                 | 14                | 130.00 Each       |
|                        | 5T                          | Tuned Port   | 6½                      |                           |               | 1                        | Dome         |  | 45-20  | 90                      | 15   | 2.5k                      | 8/6                              | 8 x 11 x 33                          | Blk. Lam.   | Blk. Knit                 | 45                | 215.00 Each       |
| 7T                     | Tuned Port                  | 8  |                         |                           | 1             | Dome                     |              | 40-20 ±3   | 90   | 15                      | 2.5k   | 8/6                       | 10 x 12 x 37                     | Blk. Lam.                            | Blk. Knit   | 52                        | 275.00 Each       |                   |
| 9T                     | Tuned Port                  | 8  | 1½                      | Dome                      | 1             | Dome                     |              | 35-20 ±3   | 91   | 15                      | 800,3k                                       | 8/6                       | 10 x 15 x 39                     | Blk. Lam.                            | Blk. Knit   | 68                        | 375.00 Each       |                   |
| CI 10 IV B             | In-Wall; Sat.               | 5¼   |                         |                           | ¾             | Dome                     |              | 55-20  | 90   | 15                      | 3.5k   | 8/6                       | 8 x 12 x 3                       | Wht. Matte                           | Wht. Steel  | 5                         | 107.50 Each       |                   |
| CI 20 IV B             | In-Wall; Sat.               | 6½   |                         |                           | ¾             | Dome                     |              | 50-20  | 90   | 15                      | 2.8k   | 8/6                       | 8 x 12 x 3                       | Wht. Matte                           | Wht. Steel  | 5                         | 150.00 Each       |                   |
| CI 40 IV B             | In-Wall; Sat.               | 6½   |                         |                           | 1             | Dome                     |              | 45-20  | 90   | 15                      | 2k   | 8/6                       | 8 x 12 x 3                       | Wht. Matte                           | Wht. Steel  | 8                         | 200.00 Each       |                   |
| CI 60 IV               | In-Wall; Sat.               | 6½   |                         |                           | 1             | Dome                     |              | 40-20  | 90   | 15                      | 2.1k   | 8/6                       | 8 x 12 x 4                       | Wht. Matte                           | Wht. Steel  | 8                         | 250.00 Each       |                   |
| CI Sub IV              | In-Wall; Stereo Subwoof.    | 6x9  |                         |                           |               |                          |              | 28-90  | 90   | 25                      | 90   | 8/6                       | 8 x 12 x 4                       | Wht. Matte                           | Wht. Steel  | 9                         | 250.00 Each       |                   |
| PHILIPS                | DSS930                      | Biamp, Powered Inf. Baf.                                 | (2)5¼                   |                           |               |                          | Ribbon       |  | 50-20 ±1                                     | 88                      | Inc.   | 4k                        |                                  | 23 x 9 x 13                          | Blk. Foil   | Blk. Knit                 | 35                | 1000.00 Each      |
|                        | FB850                       | Inf. Baf.  | 7                       | 4                         | Cone          |                          | Ribbon       |  | 38-24  | 20                      | 600,7k                                       | 6/                        |                                  | 34 x 10 x 13                         | Blk. Foil   | Blk. Knit                 | 43                | 425.95 Each       |
|                        | FB830                       | Inf. Baf.  | 8                       | 4                         | Cone          | ¾                        | Dome         |  | 43-20  | 87                      | 10   | 650,7k                    | 6/                               | 25 x 10 x 11                         | Blk. Foil   | Blk. Knit                 | 28                | 549.95 Pair       |
|                        | FB691                       | Tuned Port   | 7                       | 7                         | Cone          | 1                        | Dome         |  | 38-20  | 88                      | 10   | 1.5k,4.5k                 | 6/                               | 26 x 11 x 10                         | Blk. Foil   | Blk. Knit                 | 25                | 299.95 Pair       |
|                        | FB671                       | Tuned Port   | (2)6                    |                           |               | ¾                        | Dome         |  | 40-20  | 87.5                    | 10   | 5k                        | 6/                               | 24 x 10 x 9                          | Blk. Foil   | Blk. Knit                 | 20                | 249.95 Pair       |
| FB651                  | Tuned Port                  | 7  |                         |                           | ¾             | Dome                     |              | 46-20  | 87   | 10                      | 5k   | 6/                        | 16 x 10 x 8                      | Blk. Foil                            | Blk. Knit   | 14                        | 199.95 Pair       |                   |
| PHYSICS                | Illusion FS                 | Dual Vent  | (2)6                    |                           |               | 1                        | Dome         |  | 50-20 ±2                                     | 86                      | 60   | 150,2.5k                  | 4/3                              | 14 Dia. x 35                         | Lacq. Oak   | Blk. Knit                 | 46                | 2000.00 Pair      |
|                        | Illusion M                  | Dual Vent  | (2)4                    |                           |               | 1                        | Dome         |  | 55-20 ±2                                     | 85                      | 50   | 150,2.5k                  | 4/3                              | 7 Dia. x 38                          | Lacq. Oak   | Blk. Knit                 | 32                | 1100.00 Pair      |
|                        | Illusion WM                 | Wall-Mount; Dual Vent                                    | (2)4                    |                           |               | 1                        | Dome         |  | 55-20 ±2                                     | 85                      | 50   | 150,2.5k                  | 4/2                              | 8 x 22                               | Nat. Oak    | Brn. Knit                 | 22                | 1100.00 Pair      |
| PINNACLE LOUD-SPEAKERS | 96db                        | Dual Ported  | (2)6½                   |                           |               | 1                        | Dhorn        |  | 48-20 ±3                                     | 96                      | 8  | 1.8k                      |                                  | 26 x 14 x 15                         | Oak Ven.    | Blk. Knit                 | 60                | 775.00 Pair       |
|                        | 98db                        | Triple Ported  | (2)8                    |                           |               | 1½                       | Dhorn        | T  | 45-20 ±3                                     | 98                      | 5  | 1.8k                      |                                  | 32 x 16 x 16                         | Oak Ven.    | Blk. Knit                 | 72                | 925.00 Pair       |
|                        | PN5+                        | 4th Order. Vented  | 5¼                      |                           |               | ¾                        | Dome         |  | 40-21  | 88                      | 10   |                           | 8/                               | 12 x 7 x 7                           | Blk. Vnl.   | Blk. Knit                 | 8                 | 199.00 Pair       |
|                        | PN8+                        | 4th Order. Vented  | 8                       |                           |               | 1                        | Dome         |  | 30-21  | 92                      | 10   |                           | 8/                               | 19 x 11 x 11                         | Blk. Vnl.   | Blk. Knit                 | 35                | 375.00 Pair       |
|                        | AC 400                      | Ported   | 4                       |                           |               | ¾                        | Dome         |  | 60-21 ±3                                     | 86                      | 5  | 5.5k                      | 8/                               | 10 x 6 x 7                           | Opt., Vnl.  | Blk. Knit                 | 7                 | 179.00 Pair       |
|                        | AC 500                      | Ported   | 5¼                      |                           |               | ¾                        | Dome         |  | 50-21 ±3                                     | 86                      | 10   | 5k                        | 8/                               | 11 x 7 x 8                           | Opt., Vnl.  | Blk. Knit                 | 8                 | 209.00 Pair       |
|                        | AC 550                      | Ported   | 5¼                      |                           |               | ¾                        | Dome         |  | 45-21 ±3                                     | 87                      | 10   | 2.5k                      | 8/                               | 13 x 7 x 8                           | Opt., Vnl.  | Blk. Knit                 | 9                 | 129.00 Each       |
|                        | AC 600                      | Ported   | 6½                      |                           |               | ¾                        | Dome         |  | 40-21 ±3                                     | 88                      | 10   | 4k                        | 8/                               | 16 x 9 x 8                           | Opt., Vnl.  | Blk. Knit                 | 13                | 239.00 Pair       |
|                        | AC 650                      | Ported   | 6½                      |                           |               | ¾                        | Dome         |  | 40-21 ±3                                     | 91                      | 10   | 2.5k                      | 8/                               | 17 x 10 x 8                          | Opt., Vnl.  | Blk. Knit                 | 17                | 230.00 Pair       |
|                        | AC 800                      | Ported   | 8                       |                           |               | 1                        | Dome         |  | 35-21 ±3                                     | 92                      | 10   | 2.2k                      | 8/                               | 19 x 11 x 11                         | Opt., Vnl.  | Blk. Knit                 | 18                | 379.00 Pair       |
|                        | AC 850                      | Ported   | 8                       |                           |               | 1                        | Dome         |  | 30-21 ±3                                     | 93                      | 10   | 2.2k                      | 8/                               | 26 x 10 x 11                         | Opt., Vnl.  | Blk. Knit                 | 24                | 475.00 Pair       |
|                        | AC SUB Arctic 1             | Ported Subwoof.  | (2)5¼                   |                           |               | 1                        | Dome         | W  | 36-150 ±3                                    | 91                      | 20   | 120                       | 8/                               | 21 x 12 x 11                         | Opt., Vnl.  | Blk. Knit                 | 30                | 249.00 Each       |
|                        |                             | Ported   | 5¼                      |                           |               | 1                        | Dome         |  | 45-22 ±3                                     | 86                      | 10   | 2.5k                      | 8/                               | 11 x 7 x 6                           | Opt., Lacq. | Blk. Knit                 | 9                 | 425.00 Pair       |
| Arctic 2               | Ported                      | (2)5¼  |                         |                           | 1             | Dome                     |              | 38-22 ±3   | 90   | 10                      | 3k   | 8/                        | 15 x 10 x 8                      | Opt., Lacq.                          | Blk. Knit   | 13                        | 525.00 Pair       |                   |
| PIONEER                | S-V401 K/H                  | Home Th.; 5 Sats. & Subwoof.                             | (2)4¾                   | 4                         | Cone          | 2½                       | Cone         |  | 40-20  |                         |  | 150,1.3k                  | 8/                               | Six Pieces                           | Opt.        | Opt., Mtl.                | 50 Sys.           | 910.00 Sys.       |
|                        | S-V301 K/H                  | Home Th.; 4 Sats. & Subwoof.                             | (2)4¾                   | 4                         | Cone          | 2½                       | Cone         |  | 40-20  |                         |  | 150,1.3k                  | 8/                               | Five Pieces                          | Opt.        | Opt., Mtl.                | 46 Sys.           | 800.00 Sys.       |
|                        | S-40 K/H                    | Home Th.; 3 Sats. & Subwoof.                             | (2)4¾                   | 4                         | Cone          | 2½                       | Cone         |  | 40-20  |                         |  | 150,1.3k                  | 8/                               | Four Pieces                          | Opt.        | Opt., Mtl.                | 42 Sys.           | 680.00 Sys.       |
|                        | S-3D K/H                    | Home Th.; Sat. & Subwoof.                                | (2)4¾                   | 4                         | Cone          | 2½                       | Cone         |  | 40-20  |                         |  | 150,1.3k                  | 8/                               | Three Pieces                         | Opt.        | Opt., Mtl.                | 38 Sys.           | 570.00 Sys.       |
|                        | S-C55 K/H S-SR55 K/H S-V201 | Ctr. Ch. Sat. Surround Sat. 5 Inf. Baf. Sats. & Subwoof. | 8                       | 4                         | Cone          | 2½                       | Cone         |  | 150-20                                       |                         |  | 1.3k                      | 8/                               | 7 x 11 x 5                           | Opt.        | Opt., Mtl.                | 4                 | 130.00 Each       |
|                        |                             |  | 4                       | Cone                      | 2             | Cone                     |              | 150-20   |  |                         | 3k   | 8/                        | 7 x 11 x 5                       | Opt.                                 | Opt., Mtl.  | 4                         | 230.00 Pair       |                   |
|                        |                             |  | 4                       | Cone                      | 1             | Cone                     |              | 40-20  |  |                         | 150,5k                                       | 8/16                      | Six Pieces                       | Blk.                                 | Blk. Knit   | 30 Sys.                   | 580.00 Sys.       |                   |
| (Continued)            | S-2D                        | Inf. Baf. Sat. & Subwoof.                                | 8                       | 4                         | Cone          | 1                        | Cone         |  | 40-20  |                         |  | 150,5k                    | 8/                               | Three Pieces                         | Blk.        | Blk. Knit                 | 24 Sys.           | 350.00 Sys.       |



# LOUDSPEAKERS

| MANUFACTURER                     | Model                   | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W Midrange-Mk Tweeter-T Superwoofer-ST | Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish      | Grille Color and Material | Weight, Lbs. Each | Price, \$    |
|----------------------------------|-------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|------------------------------------|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-------------|---------------------------|-------------------|--------------|
| PIONEER (Continued)              | S-CR22                  | Inf. Baf. Ctr. Ch. & Surround Sat.                      | 4                       | Cone                      | 1             | Cone                     |              |  | 150-20                             |                         | 5k   | 16/                       | Three Pieces                     | Blk.                                 | Blk. Knit   | 6                         | 230.00 Sys.       |              |
|                                  | S-CR400                 | Ctr. Ch. & Surround                                     | (2)4                    |                           |               |                          |              |  | 50-20                              |                         |  | 8/                        | Three Pieces                     | Blk.                                 | Blk. Knit   | 13                        | 160.00 Sys.       |              |
|                                  | CS-C400                 | Bass Ref. ; Ctr. Ch.                                    | (2)4                    |                           |               |                          |              |  | 50-20                              |                         |  | 8/                        | 13 x 6 x 11                      | Blk.                                 | Blk. Knit   | 7                         | 90.00 Each        |              |
|                                  | CS-C250II Q/K           | Bass Ref.   | 6                       |                           | 2½            | Cone                     | SW, Ctr.     |  | 50-20                              |                         | Inc.   | 8/                        | 12 x 7 x 7                       | Blk. Oak                             | Blk. Knit   | 5                         | 65.00 Each        |              |
|                                  | S-W1000                 | Powered Subwoofer.                                      | 12                      |                           |               |                          |              |  | 20-140                             |                         |  | 8/                        | 20 x 21 x 18                     | Blk.                                 | Blk. Knit   | 46                        | 680.00 Each       |              |
|                                  | S-X7                    | Surround; Bass Ref.                                     | 3½                      |                           |               |                          |              |  | 100-20                             |                         |  | 16/                       | 6 x 8 x 5                        | Blk.                                 | Blk. Mt.    | 3                         | 155.00 Pair       |              |
|                                  | CS-X500 Q/K             | Surround; Ac. Sus.                                      | 4                       |                           |               |                          |              |  | 100-20                             |                         |  | 8/                        | 6 x 8 x 5                        | Blk.                                 | Blk. Knit   | 3                         | 70.00 Pair        |              |
| CS-G53/K                         | Bass Ref.               | 6   | 4¾                      | Cone                      | 2½            | Cone                     |              | 55-20  |                                    |                         | 8/   | 9 x 15 x 8                | Blk.                             | Blk. Knit                            | 8           | 70.00 Each                |                   |              |
| CS-G703                          | Bass Ref.               | 16  | 4¾                      | Cone                      | 2½, ¾         | Cone, Dome               |              | 30-20  |                                    |                         | 6/   | 18 x 40 x 13              | Oak                              | Blk. Knit                            | 44          | 240.00 Each               |                   |              |
| CS-G503                          | Bass Ref.               | 12  | 4¾                      | Cone                      | 2½, ¾         | Cone, Dome               |              | 35-20  |                                    |                         | 6/   | 15 x 36 x 13              | Oak                              | Blk. Knit                            | 34          | 200.00 Each               |                   |              |
| CS-G403                          | Bass Ref.               | 16  | 4¾                      | Cone                      | 2½            | Cone                     |              | 30-20  |                                    |                         | 6/   | 18 x 30 x 13              | Oak                              | Blk. Knit                            | 37          | 195.00 Each               |                   |              |
| CS-G303                          | Bass Ref.               | 12  | 4¾                      | Cone                      | 2½            | Cone                     |              | 35-20  |                                    |                         | 6/   | 15 x 27 x 13              | Oak                              | Blk. Knit                            | 30          | 155.00 Each               |                   |              |
| CS-G203                          | Bass Ref.               | 10  | 4¾                      | Cone                      | 2½            | Cone                     |              | 40-20  |                                    |                         | 6/   | 14 x 24 x 12              | Oak                              | Blk. Knit                            | 21          | 115.00 Each               |                   |              |
| CS-G103                          | Ac. Sus.                | 10  | 4¾                      | Cone                      | 2½            | Cone                     |              | 55-20  |                                    |                         | 6/   | 13 x 23 x 8               | Oak                              | Blk. Knit                            | 14          | 80.00 Each                |                   |              |
| PIONEER ELEC-TRONICS TECH-NOLOGY | CSL-50E                 | Indoor/Outdoor  | 4½                      |                           |               |                          |              |  | 75-20                              | 88                      | 10   | 8/                        | 11 x 6 x 9                       | Wht. Lexan                           | Wht. Steel  | 5                         | 299.00 Pair       |              |
|                                  | CSL-70E                 | Indoor/Outdoor  | 4½                      |                           | ¾             |                          |              |  | 75-22                              | 88                      | 10   | 7k                        | 8/                               | 11 x 6 x 9                           | Wht. Lexan  | Wht. Steel                | 6                 | 369.00 Pair  |
|                                  | CSL-250-J/T             | Outdoor   | 6½                      |                           |               |                          |              |  | 50-20                              | 86                      |  | 8/                        | 13 x 16 x 10                     | Opt.                                 |             | 12                        | 299.00 Each       |              |
|                                  | CSL-300-J/T             | Outdoor   | 6½                      |                           |               |                          |              |  | 50-20                              | 86                      |  | 8/                        | 13 x 18 x 10                     | Opt.                                 |             | 14                        | 369.00 Each       |              |
|                                  | CSL-100-J/T             | Outdoor   | 6½                      |                           | 3½            |                          |              |  | 70-20                              | 82                      |  | 8/                        | 14 x 14 x 9                      | Opt.                                 |             | 33                        | 599.00 Each       |              |
| CSL-1000-J/T                     | Outdoor                 | 6½  |                         | (2)3½                     |               |                          |              | 35-25  | 86                                 |                         | 8/   | 10 x 36 x 10              | Opt.                             |                                      | 61          | 999.00 Each               |                   |              |
| POLK AUDIO                       | LS90                    | Ported  | (4)6½                   |                           | 1             | Dome                     |              |  | 20-26                              | 90                      | 30   | 2.5k                      | 8/                               | 40 x 13 x 15                         | Opt.        | Blk. Knit                 | 69                | 849.95 Each  |
|                                  | LS70                    | Ported  | (2)7½                   |                           | 1             | Dome                     |              |  | 25-26                              | 90                      | 30   | 2.5k                      | 8/                               | 37 x 12 x 15                         | Opt.        | Blk. Knit                 | 59                | From         |
|                                  | LS50                    | Ported  | (2)6½                   |                           | 1             | Dome                     |              |  | 30-26                              | 89                      | 20   | 2.5k                      | 8/                               | 33 x 11 x 12                         | Opt.        | Blk. Knit                 | 46                | 599.95 Each  |
|                                  | S10                     | Pas. Rad.   | 7½                      |                           | 1             | Dome                     |              |  | 25-25                              | 91                      | 20   | 3k                        | 8/                               | 29 x 13 x 10                         | Opt.        | Blk. Knit                 | 33                | 449.95 Each  |
|                                  | S8                      | Pas. Rad.   | 7½                      |                           | 1             | Dome                     |              |  | 28-25                              | 90                      | 20   | 3k                        | 8/                               | 25 x 12 x 9                          | Opt.        | Blk. Knit                 | 28                | 349.95 Each  |
|                                  | S6                      | Pas. Rad.   | 6½                      |                           | 1             | Dome                     |              |  | 30-25                              | 90                      | 20   | 3k                        | 8/                               | 22 x 10 x 8                          | Opt.        | Blk. Knit                 | 18                | 249.95 Each  |
|                                  | S4                      | Ported  | 6½                      |                           | 1             | Dome                     |              |  | 32-25                              | 91                      | 20   | 3k                        | 8/                               | 16 x 10 x 7                          | Opt.        | Blk. Knit                 | 14                | 199.95 Each  |
|                                  | Monitor 6               | Sat. & Subwoofer.                                       | (2)6½                   | 4                         | Cone          | ¾                        | Dome         |  | 35-25                              | 89                      | 10   | 200,3k                    | 8/                               | Three Pieces                         | Blk.        | Blk. Knit                 | 35                | 139.95 Each  |
|                                  | Monitor Mini-Monitor    | Ac. Sus.  | 6½                      |                           | ½             | Dome                     |              |  | 35-25                              | 91                      | 20   | 3k                        | 8/                               | 14 x 9 x 8                           | Blk.        | Blk. Knit                 | 12                | 399.95 Sys.  |
|                                  | LS 1fx                  | Ported  | 5¼                      |                           | ½             | Dome                     |              |  | 42-25                              | 90                      | 10   | 3k                        | 8/                               | 11 x 7 x 7                           | Blk.        | Blk. Knit                 | 8                 | 109.95 Each  |
|                                  | AW-M5                   | Ac. Sus./Outdoor  | (2)4½                   |                           | (2)1          | Domes                    |              |  | 60-26                              | 89                      | 15   | 3k                        | 8/                               | 11 x 6 x 9                           | Opt.        |                           | 9                 | 79.95 Each   |
|                                  | M5                      | Ported  | 6½                      |                           | 1             | Dome                     |              |  | 55-23                              | 91                      | 20   | 3k                        | 8/                               | 13 x 8 x 9                           | Wht.        | Wht.                      | 10                | 249.95 Each  |
|                                  | AW-M3II                 | Ac. Sus./Outdoor  | 6½                      |                           | 1             | Dome                     |              |  | 50-23                              | 91                      | 20   | 3k                        | 8/                               | 13 x 8 x 9                           | Opt.        |                           | 10                | 199.95 Each  |
|                                  | M3II                    | Ported  | 5¼                      |                           | ½             | Dome                     |              |  | 65-20                              | 89                      | 20   | 3k                        | 8/                               | 11 x 6 x 8                           | Wht.        | Wht.                      | 7                 | 159.95 Each  |
|                                  | RM7000                  | Ported  | 5¼                      |                           | ½             | Dome                     |              |  | 60-20                              | 89                      | 20   | 3k                        | 8/                               | 11 x 6 x 8                           | Opt.        |                           | 7                 | 124.95 Each  |
|                                  | RM5000II                | Sats., Ctr. Ch., & Powered Subwoofer.                   | 8                       | (4)3½                     | (3)½          | Domes                    |              |  | 22-22                              | 90                      | 25   | 175,3.5k                  | 8/                               | Four Pieces                          | Opt.        |                           | 60                | 1399.00 Sys. |
|                                  | RM3000II                | Sats., Ctr. Ch., & Pas. Rad. Subwoofer.                 | (2)6½                   | (4)3½                     | Cones         | (3)½                     | Domes        |  | 25-22                              | 90                      | 25   | 175,3.5k                  | 8/                               | Four Pieces                          | Opt.        |                           | 50                | 1099.00 Sys. |
|                                  | RM2000II                | Sat. & Pas. Rad. Subwoofer.                             | (2)6½                   | 3½                        | Cone          | ½                        | Dome         |  | 25-22                              | 90                      | 10   | 175,3.5k                  | 8/                               | Three Pieces                         | Opt.        |                           | 45                | 849.95 Sys.  |
|                                  | SW200LS                 | Ac. Sus. Powered Subwoofer.                             | 10                      | 3½                        | Cone          | ½                        | Dome         | W  | 150-22                             | 90                      | 10   | 3.5k                      | 8/                               | 7 x 4 x 6                            | Opt.        |                           | 6                 | 229.95 Sys.  |
| SW100RM                          | Powered Subwoofer.      | 10  |                         |                           |               |                          | W            | 19-200   | 125                                | Inc.                    | 50-150 (Var.)                                | 8/                        | 19 x 12 x 17                     | Opt.                                 |             | 40                        | 849.00 Each       |              |
| CS350LS                          | Ported: Ctr. Ch.        | (4)4½   |                         | 1                         | Dome          |                          |              | 60-26  | 91                                 | 10                      | 10   | 8/                        | 26 x 7 x 11                      | Blk.                                 | Blk. Knit   | 17                        | 449.00 Each       |              |
| CS250S                           | Ported: Ctr. Ch.        | (2)4½   |                         | 1                         | Dome          |                          |              | 80-25  | 90                                 | 10                      | 10   | 8/                        | 18 x 6 x 8                       | Blk.                                 | Blk. Knit   | 10                        | 299.00 Each       |              |
| CS200                            | Ac. Sus., Ctr. Ch.      | (2)4½   |                         | ½                         | Dome          |                          |              | 90-20  | 89                                 | 10                      | 3k   | 8/                        | 18 x 6 x 6                       | Blk.                                 | Blk. Knit   | 7                         | 219.00 Each       |              |
| AB805                            | In-Wall                 | (2)6½   |                         | 1                         | Dome          |                          |              | 30-25  | 91                                 | 20                      | 3k   | 8/                        | 6 x 16 x 3                       | Wht.                                 | Wht. Mt.    | 8                         | 275.00 Each       |              |
| AB705                            | In-Wall                 | 6½  |                         | 1                         | Dome          |                          |              | 32-25  | 90                                 | 20                      | 3k   | 8/                        | 6 x 10 x 3                       | Wht.                                 | Wht. Mt.    | 5                         | 199.95 Each       |              |
| AB505                            | In-Wall                 | 5¼  |                         | ¾                         | Dome          |                          |              | 67-20  | 89                                 | 20                      | 3k   | 8/                        | 6 x 9 x 3                        | Wht.                                 | Wht. Mt.    | 4                         | 124.95 Each       |              |
| AB610                            | In-Wall                 | 6½  |                         | ¾                         | Dome          |                          |              | 40-20  | 90                                 | 10                      | 3k   | 8/                        | 7 Dia.                           | Wht.                                 | Wht.        | 4                         | 124.95 Each       |              |
| AB410                            | In-Wall                 | 5¼  |                         |                           |               |                          |              | 60-17.5  | 87                                 | 10                      |  | 8/                        | 7 Dia.                           | Wht.                                 | Cloth       | 3                         | 74.95 Each        |              |
| POSH SPEAKER SYSTEMS             | 835-SX (w/Crossover)    | Ac. Sus.; Stereo Subwoofer.                             | 8                       |                           |               |                          |              |  | 35-120 ±3                          | 90                      | 20   | 120                       | 4/                               | 18 x 18 x 7                          | Blk. Plast. | Wht. Mt.                  | 15                |              |
|                                  | 835-S                   | Ac. Sus.; Stereo Subwoofer.                             | 8                       |                           |               |                          |              |  | 35-120 ±3                          | 90                      | 20   | Opt.                      | 4/                               | 18 x 18 x 7                          | Blk. Plast. | Wht. Mt.                  | 15                |              |
|                                  | 835-MX (w/Crossover)    | Ac. Sus.; Subwoofer.                                    | 8                       |                           |               |                          |              |  | 35-120 ±3                          | 90                      | 20   | 120                       | 4/                               | 18 x 18 x 7                          | Blk. Plast. | Wht. Mt.                  | 15                |              |
|                                  | 835-M                   | Ac. Sus.; Subwoofer.                                    | 8                       |                           |               |                          |              |  | 35-120 ±3                          | 90                      | 20   | Opt.                      | 4/                               | 18 x 18 x 7                          | Blk. Plast. | Wht. Mt.                  | 15                |              |
|                                  | In-Wall 5               | In-Wall/In-Ceiling; Inf. Baf.                           | 8                       |                           | ¾             | Dome                     |              |  | 60-20 ±3                           | 90                      | 10   | 5k                        | 8/                               | 18 x 18 x 1                          | Blk. Plast. | Wht. Mt.                  | 6                 |              |
|                                  | Retro 5                 | In-Wall/In-Ceiling; Inf. Baf.                           | 8                       |                           | ¾             | Dome                     |              |  | 60-20 ±3                           | 90                      | 10   | 5k                        | 8/                               | 10 x 14 x 1                          | Blk. Plast. | Wht. Mt.                  | 4                 |              |
|                                  | In-Wall 9               | In-Wall/In-Ceiling; Inf. Baf.                           | 8                       |                           | 1             | Dome                     |              |  | 45-20 ±3                           | 90                      | 10   | 5k                        | 8/                               | 18 x 18 x 1                          | Blk. Plast. | Wht. Mt.                  | 7                 |              |
|                                  | Retro 9                 | In-Wall/In-Ceiling; Inf. Baf.                           | 8                       |                           | 1             | Dome                     |              |  | 45-20 ±3                           | 90                      | 10   | 5k                        | 8/                               | 10 x 14 x 1                          | Blk. Plast. | Wht. Mt.                  | 5                 |              |
|                                  | 528                     | Home Th.; In-Ceiling; Ac. Sus.                          | 8                       |                           | ¾             | Dome                     |              |  | 47-20 ±3                           | 90                      | 10   | 5k                        | 8/                               | 18 x 18 x 7                          | Blk. Plast. | Wht. Mt.                  | 11                |              |
|                                  | 928                     | Home Th.; In-Ceiling; Ac. Sus.                          | 8                       |                           | 1             | Dome                     |              |  | 35-20 ±3                           | 90                      | 10   | 5k                        | 8/                               | 18 x 18 x 7                          | Blk. Plast. | Wht. Mt.                  |                   |              |
| PRES SPEAKERS (Continued)        | Mini S                  | Vented  | 6½                      | 2                         | Dome          | 1                        | Dome         |  | 50-22 ±3                           | 92                      | 40   | 2k                        | 8/6                              | 16 x 10 x 8                          | Oil. Oak    | Blk. Poly.                | 15                | 350.00 Pair  |
|                                  | Ibex                    | Vented  | 8                       | 1½                        | Dome          | 1                        | Dome         |  | 40-22                              | 92                      | 40   | 2k,6k                     | 8/                               | 24 x 12 x 10                         | Oil. Oak    | Blk. Poly.                | 20                | 450.00 Pair  |
|                                  | Mini Dual               | Bass Ref.; Slanted Baf.                                 | 10                      |                           |               | 7                        | Horn         | T  | 35-22                              | 92                      | 40   | 2k,6k                     | 4/4                              | 26 x 15 x 13                         | Oil. Oak    | Blk. Poly.                | 28                | 550.00 Pair  |
| Dual                             | Bass Ref.; Slanted Baf. | 12,6½   | 1¼                      | Dome                      | 7             | Horn                     | T            | 30-22  | 92                                 | 40                      | 200,2k,6k                                    | 4/4                       | 38 x 15 x 13                     | Oil. Oak                             | Blk. Poly.  | 40                        | 690.00 Pair       |              |

# H

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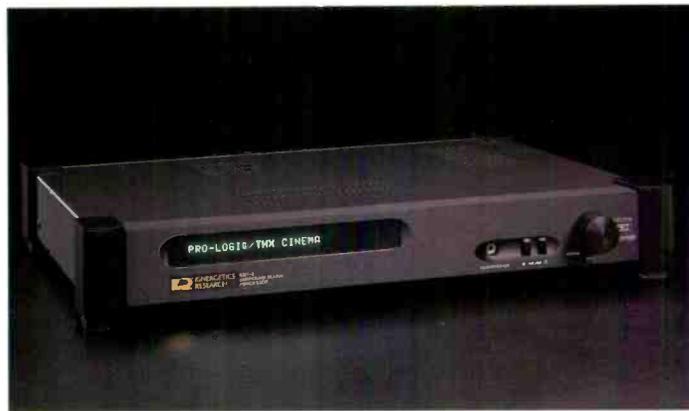
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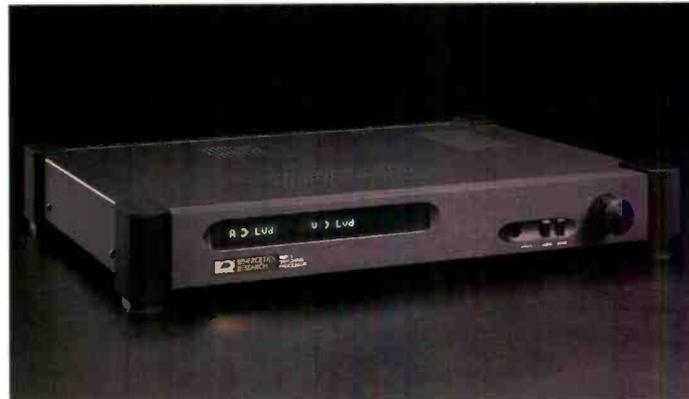
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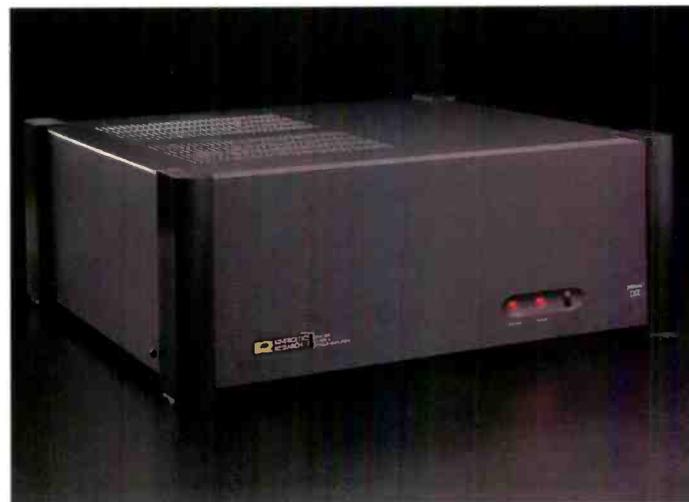
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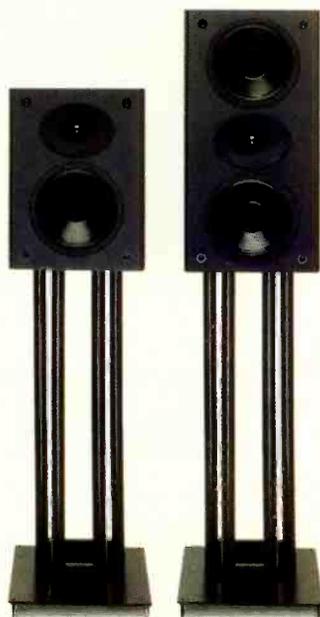
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# LOUDSPEAKERS

| MANUFACTURER                | Model        | Application, Design, Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls: Woofer=W, Midrange=M, Tweeter=T, Super-tweeter=ST | Anechoic Frequency Response, Hz to kHz, $\pm$ dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish     | Grille Color and Material | Weight, Lbs. Each | Price, \$             |
|-----------------------------|--------------|--|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------|---------------------------|-------------------|-----------------------|
| PRES SPEAKERS (Continued)   | Quad Dual    | Bass Ref., Slanted Baf.                                  | (2)12, 6 1/2            | 1 1/4                     | Dome          | 7                        | Horn         | T  | 30-22  | 92                      | 40   | 200,2k,6k                 | 4/4                              | 55 x 15 x 13                         | Oil. Oak   | Blk. Poly.                | 55                | 890.00 Pair           |
|                             | Classic I    | Bass Ref. Sat. & Trans. Line Subwoofer.                  | (2)10                   | 3 1/2                     | Dome          | 3/4                      | Dome         |  | 24-25  | 88                      | 100  | 200,650,6k                | 4/4                              | Three Pieces Per Side                | Oil. Oak   | Blk. Poly.                | 168 Side          | 1150.00 Sys.          |
|                             | SUB PR1      | Subwoofer.   | 15                      |                           |               |                          |              |  | 28-200 +0,-3                                     | 92                      |  |                           | 8/                               | 36 x 24 x 13                         | Oil. Oak   | Blk. Poly.                | 55                | 375.00 Each           |
|                             | SUB PR2      | Subwoofer.   | 12                      |                           |               |                          |              |  | 35-200 +0,-3                                     | 92                      |  |                           | 8/                               | 16 x 13 x 13                         | Oil. Oak   | Blk. Poly.                | 35                | 325.00 Each           |
|                             | SUB TL1      | Trans. Line Subwoofer.                                   | 10                      |                           |               |                          |              |  | 20-200 +0,-3                                     | 90                      |  |                           | 8/                               | 36 x 12 x 36                         | Oil. Oak   | Blk. Poly.                | 180               | 475.00 Each           |
| PROAC                       | Response 1S  | Tuned Port   | 5                       |                           |               | 3/4                      | Dome         |  | 45-20 $\pm$ 5                                    | 86                      | 50   | 5k                        | 8/                               | 12 x 7 x 9                           | Opt., Wood | Blk. Knit                 | 18                | 1800.00 Pair          |
|                             | Response 2   | Tuned Port   | 7                       |                           |               | 3/4                      | Dome         |  | 35-20 $\pm$ 5                                    | 87                      | 75   | 5k                        | 8/                               | 18 x 9 x 11                          | Opt., Wood | Blk. Knit                 | 30                | 3000.00 Pair          |
|                             | Response 3.5 | Tuned Port   | (2)7                    |                           |               | 1                        | Dome         |  | 25-20 $\pm$ 5                                    | 88                      | 100  | 2.5k                      | 8/                               | 52 x 11 x 12                         | Opt., Wood | Blk. Knit                 | 135               | 7500.00 Pair          |
|                             | Response 4   | Tuned Port   | (2)10                   | (2)3                      | Domes         | 1                        | Dome         |  | 20-20 $\pm$ 5                                    | 89                      | 150  | 100,1.5k,5k               | 8/                               | 65 x 14 x 17                         | Opt., Wood | Blk. Knit                 | 300               | 18,000. Pair          |
|                             | Tablette 3   | Tuned Port   | 4                       |                           |               | 3/4                      | Dome         |  | 55-20 $\pm$ 5                                    | 87                      | 30   | 5k                        | 8/                               | 11 x 7 x 9                           | Opt., Wood | Blk. Knit                 | 14                | 900.00 Pair           |
|                             | Studio 100   | Tuned Port   | 7                       |                           |               | 1                        | Dome         |  | 40-20 $\pm$ 5                                    | 88                      | 50   | 2.5k                      | 8/                               | 16 x 8 x 10                          | Opt., Wood | Blk. Knit                 | 23                | 1400.00 Pair          |
|                             | Studio 200   | Tuned Port   | (2)7                    |                           |               | 1                        | Dome         |  | 30-20 $\pm$ 5                                    | 90                      | 100  | 2.5k                      | 8/                               | 43 x 12 x 10                         | Opt., Wood | Blk. Knit                 | 85                | 3200.00 Pair          |
| PROBE AUDIO LABS            | Martinet     | 2 Dipoles & 2 Subs.; Biamp                               | (3)8                    | 8, (2)5 1/2               | Cones         | (2)1, 3/4                | Domes        | No   | 28-22  | 89                      | 100  | 90,600,4.7k               | 3.8/2.4                          | Four Towers                          | Oil. Wal.  | Blk. Knit                 | 464 Sys.          | 10,000. Sys. w/ Bases |
|                             | Jayde        | Semi-Dipole; Biamp                                       | 8                       | 6 1/2                     | Cone          | 1, 3/4                   | Domes        | No   | 38-22  | 87                      | 50   | 600,4.7k                  | 7/4                              | 48 x 15 x 10                         | Oil. Wal.  | Blk. Knit                 | 73                | 2985.00 Pair          |
| PROFES-SIONAL TECH-NOLOGIES | PT265D       | Tuned Port   | (2)6 1/2                |                           |               | 1 1/4                    | Dome         | No   | 40-20 $\pm$ 3                                    | 89                      | 10   | 3k                        | 8/                               | 12 x 14 x 17                         | Opt.       | Opt.                      | 35                | 679.00 Pair           |
|                             | PT6521       | Tuned Port   | 6 1/2                   |                           |               | 1                        | Dome         | No   | 45-20 $\pm$ 3                                    | 89                      | 10   | 3k                        | 8/                               | 13 x 12 x 17                         | Opt.       | Opt.                      | 20                | 578.00 Pair           |
|                             | PT821        | Tuned Port   | 8                       |                           |               | 1 1/4                    | Dome         | No   | 31-20 $\pm$ 3                                    | 91                      | 10   | 2k                        | 8/                               | 10 x 13 x 35                         | Opt.       | Opt.                      | 40                | 849.00 Pair           |
|                             | PT8341       | Tuned Port   | 8                       | 4 1/2                     | Cone          | 1                        | Dome         | No   | 37-20 $\pm$ 3                                    | 90                      | 10   | 300,3k                    | 8/                               | 13 x 12 x 27                         | Opt.       | Opt.                      | 55                | 899.00 Pair           |
| PROPHILE (Continued)        | 1            | Bass Ref.  | 8                       |                           |               | 1                        | Dome         | T  | 55-20 $\pm$ 3                                    | 90                      | 20   | 2.5k                      | 8/6                              | 18 x 11 x 9                          | Opt.       | Blk. Knit                 | 22                | 495.00 Pair           |
|                             | 2            | Bass Ref.  | 8                       |                           |               | 1                        | Dome         | T  | 45-20 $\pm$ 3                                    | 90                      | 20   | 2.5k                      | 8/6                              | 36 x 11 x 11                         | Opt.       | Blk. Knit                 | 45                | 695.00 Pair           |
|                             | 2B           | Bass Ref.  | 8                       |                           |               | 1.2                      | Dome, Cone   | (2)T   | 45-20 $\pm$ 3                                    | 90                      | 30   | 2.5k,4k                   | 8/6                              | 36 x 11 x 11                         | Opt.       | Blk. Knit                 | 46                | 795.00 Pair           |
|                             | 3B           | Bass Ref.  | 10                      |                           |               | 1.2                      | Dome, Cone   | (2)T   | 35-20 $\pm$ 3                                    | 90                      | 40   | 1.7k,4k                   | 8/6                              | 38 x 14 x 11                         | Opt.       | Blk. Knit                 | 58                | 995.00 Pair           |

# When it comes to dollars,

At the Miami Stereophile Show High End '94, audiophiles were asked to select "The Best Sound at the Show". The speaker brands in their top 10 selected systems were Wilson Watt, B&W, Martin Logan, Dunleavy, Cello, Apogee, Dahlquist, Green Mountain, Genesis II and mbl. Not



CA 1

CA 2

surprisingly, most of the speakers in this elite group were expensive, averaging over \$16,000 per pair. The one notable exception: The Prelude System by Dahlquist which costs just \$2,100.\*

Our goal has always been to make a top quality system that is



CA 1+W 1

CA 1+W 2

# LOUDSPEAKERS

| MANUFACTURER         | Model                        | Application, Design Principle, Enclosure or System Type    | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W Midrange-M Tweeter-T Subwoofer-ST | Acoustic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish        | Grille Color and Material | Weight, Lbs. Each | Price, \$         |             |
|----------------------|------------------------------|--|-------------------------|---------------------------|---------------|--------------------------|--------------|---|---|-------------------------|--|---------------------------|---------------------------------|--------------------------------------|---------------|---------------------------|-------------------|-------------------|-------------|
| PROPHILE (Continued) | 4B                           | Bass Ref.  | (2)10                   |                           |               | 1.2                      | Dome, Cone   | (2)T  | 28-20 ±3                                    | 91                      | 60   | 200, 1.7k, 4k             | 6/4                             | 42 x 15 x 11                         | Opt.          | Blk. Knit                 | 82                | 1795.00 Pair      |             |
|                      | 5B                           | Powered Bass Ref.  | 10, 12                  |                           |               | 1.2                      | Dome, Cone   | (2)T  | 23-20 ±3                                    | 91                      | 60; 150 Inc.                                 | 150, 1.7k, 4k             | 8/6                             | 48 x 17 x 11                         | Opt.          | Blk. Knit                 | 125               | 2795.00 Pair      |             |
|                      | CC-1                         | Ctr. Ch.; Bass Ref. Surround; Trans. Line Powered Subwoof. | (2)5                    |                           |               | ¾                        | Dome         | T   | 58-20 ±2                                    | 90                      | 20   | 3k                        | 6/5                             | 19 x 7 x 9                           | Opt.          | Blk. Knit                 | 18                | 295.00 Each       |             |
|                      | RC-1                         |  | (2)4                    |                           | (2)2          | Cones                    | T            | 48-10 ±3  | 90  | 10                      | 2k   | 6/5                       | 36 x 7 x 7                      | Opt.                                 | Blk. Knit     | 30                        | 349.00 Pair       |                   |             |
|                      | PS-1                         |  | 12                      |                           |               |                          |              | W   | 22-125 ±2                                   |                         | 150 Inc.                                     | Var.                      |                                 | 18 x 18 x 22                         | Opt.          | Blk. Knit                 | 68                | 795.00 Each       |             |
| PSB                  | Alpha                        | Tuned Port   | 6                       |                           |               | ½                        | Dome         |   | 90-20 ±2                                    | 90                      | 10   | 3k                        | 6/5                             | 13 x 9 x 10                          | Sim. Blk. Oak | Blk.                      | 10                | 199.00 Pair       |             |
|                      | Alpha-S                      | A/V: Tuned Port  | 6                       |                           |               | ½                        | Dome         |   | 90-20 ±2                                    | 90                      | 10   | 3k                        | 6/5                             | 13 x 9 x 10                          | Opt.          | Opt.                      | 10                | 250.00 Pair       |             |
|                      | 300                          | Tuned Port   | 6½                      |                           |               | ¾                        | Dome         |   | 75-20 ±2                                    | 89                      | 10   | 3k                        | 6/5                             | 14 x 8 x 9                           | Opt., Oak     | Blk.                      | 13                | 299.00 Pair       |             |
|                      | 400                          | Tuned Port   | 6½                      |                           |               | ¾                        | Dome         |   | 60-20 ±1.5                                  | 87                      | 15   | 2.5k                      | 6/5                             | 16 x 8 x 12                          | Opt., Oak     | Blk.                      | 18                | 399.00 Pair       |             |
|                      | 500                          | Tuned Port   | 8                       |                           |               | ¾                        | Dome         |   | 50-20 ±1.5                                  | 90                      | 10   | 2.2k                      | 6/5                             | 23 x 10 x 12                         | Opt., Oak     | Blk.                      | 29                | 499.00 Pair       |             |
|                      | 600                          | Tuned Port   | (2)6½                   |                           |               | ¾                        | Dome         |   | 50-20 ±1.5                                  | 91                      | 10   | 2.2k                      | 8/8                             | 31 x 9 x 13                          | Opt.          | Blk. Knit                 | 32                | 599.00 Pair       |             |
|                      | 800                          | Tuned Port   | (2)8                    |                           |               | 1                        | Dome         |   | 48-20 ±1.5                                  | 90                      | 10   | 2k                        | 8/8                             | 35 x 10 x 13                         | Opt., Oak     | Blk.                      | 45                | 799.00 Pair       |             |
|                      | 200C                         | Ctr. Ch.; Tuned Port                                       | (2)5¼                   |                           |               | ½                        | Dome         |   | 75-21 ±2                                    | 91                      | 10   |                           | 6/6                             | 7 x 19 x 10                          | Blk.          | Blk. Knit                 |                   | 300.00 Each       |             |
|                      | 100C                         | Ctr. Ch.; Tuned Port                                       | (2)4                    |                           |               | ½                        | Dome         |   | 100-20 ±2                                   | 91                      | 10   | 3k                        | 6/6                             | 7 x 17 x 6                           | Blk. Ash      | Blk.                      | 13                | 179.00 Each       |             |
|                      | Stratus C-5                  | Ctr. Ch.; Tuned Port                                       | (2)5¼                   |                           |               | (2)½                     | Domes        |   | 75-21 ±2                                    | 91                      | 10   |                           | 6/6                             | 7 x 19 x 10                          | Opt.          | Blk. Knit                 |                   | 500.00 Each       |             |
|                      | Stratus Mini                 | Tuned Port   | 6½                      |                           |               | ¾                        | Dome         |   | 55-20 ±1.5                                  | 86                      | 10   | 2.2k                      | 4/4                             | 16 x 9 x 13                          | Opt.          | Blk. Knit                 | 25                | From 950.00 Pair  |             |
|                      | Stratus Silver               | Tuned Port   | (2)6½                   |                           |               | 1                        | Dome         |   | 40-20 ±1.5                                  | 89                      | 10   | 500, 2.1k                 | 4/4                             | 39 x 9 x 13                          | Opt.          | Blk. Knit                 | 60                | From 1500.00 Pair |             |
|                      | Stratus Gold                 | Bass Ref.  | 10                      | 6                         | Cone          | 1                        | Dome         |   | 36-20 ±1                                    | 88                      | 10   | 250, 2.2k                 | 4/4                             | 45 x 16 x 17                         | Opt.          | Blk. Knit                 | 95                | From 2100.00 Pair |             |
|                      | HW-1                         | In-Wall  | 6½                      |                           |               | ¾                        | Dome         |   | 56-20 ±2                                    | 89                      | 5  | 2.4k                      | 8/                              | 12 x 9 x 4                           | Wht.          | Wht. Mtl.                 |                   | 350.00 Pair       |             |
|                      | Alpha Subsonic               | Tuned Port; Subwoof.                                       | (2)6½                   |                           |               |                          |              |   | W   | 38-100                  | 89   | 10                        | 100                             | 8/8                                  | 16 x 20 x 17  | Blk.                      | Blk. Knit         | 35                | 299.00 Each |
|                      | Subsonic III                 | Powered Tuned Port; Subwoof.                               | 12                      |                           |               |                          |              |   | W   | 24-Sel.                 |  | 180 Inc.                  | 50-150 (Var.)                   |                                      | 17 x 16 x 16  | Gloss Blk. Blk. Oak       | Blk. Knit         | 49                | 899.00 Each |
| Subsonic II Powered  | Powered Tuned Port; Subwoof. | 12   |                         |                           |               |                          |              | W   | 27-150                                      | 106                     |  |                           |                                 | 16 x 16 x 16                         |               | Blk. Knit                 |                   | 699.00 Each       |             |

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# LOUDSPEAKERS

| MANUFACTURER           | Model                             | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type        | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Super Tweeter=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Maximum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions: Inches (To Nearest Inch) | Finish     | Grille Color and Material | Weight, Lbs. Each | Price, \$                   |                              |
|------------------------|-----------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|---------------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------|---------------------------|-------------------|-----------------------------|------------------------------|
| QUAD                   | ESL-63                            | ES Dipole   |                         |                           |               |                          |                     |  | 32-22 ±3                                    | 86                      | 100  |                           | 8/5                              | 36 x 26 x 10                         | Oak        | Blk. Knit                 | 42                | 6400.00 Pair                |                              |
|                        | U.S.A. Monitor                    | Dipole Subwoof.   | (2)12                   |                           |               |                          |                     | W  | 28-110 +0, -3                               | 86                      | 50   | 110                       | 16/ or 4/                        | 18 x 26 x 10                         | Blk.       | Blk. Knit                 | 45                | 2995.00 Pair w/Xover        |                              |
|                        | Gradient SW-63                    | Dipole Subwoof.   | (2)8                    |                           |               |                          |                     | W  | 28-150 +0, -3                               | 86                      | 25   | *50                       |                                  | 9 x 20 x 6                           | Blk.       | Blk. Knit                 | 20                | 1995.00 Pair w/Xover        |                              |
| QUADRATURE             | DSP 5                             | Active DSP, Ported                                      | 10                      | 5                         | Cone          | 1                        | Dome                |  |   | 88                      | 50   | 375,2.5k                  | 8/6                              | 47 x 13 x 14                         | Opt.       | Blk. Knit                 | 155               | 4800.00 Pair w/DSP Module   |                              |
|                        | DSP 4                             | Active DSP, Ported                                      | (2)8                    | (2)5½                     | Cones         | (4)1                     | Domes               |  |   | 89                      | 50   | 220,2.5k                  | 6/3.5                            | 57 x 13 x 16                         | Opt.       | Blk. Knit                 | 181               | 9500.00 Pair w/DSP Module   |                              |
|                        | DSP 3                             | Active DSP, Pas. Rad.                                   | (4)6½                   | (3)5½                     | Cones         | (6)1                     | Domes               |  |   | 90                      | 50   | 170,2.5k                  | 8/4                              | 68 x 13 x 17                         | Opt.       | Blk. Knit                 | 176               | 14,500.00 Pair w/DSP Module |                              |
|                        | DSP 2                             | Active DSP, Pas. Rad.                                   | (6)6½                   | (6)5½                     | Cones         | (10)1                    | Domes               |  |   | 89                      | 80   | 150,2k                    | 8/5                              | Two Pieces Per Side                  | Opt.       | Blk. Knit                 | 330 Side          | 23,000.00 Sys. w/DSP Module |                              |
|                        | DSP 1                             | Active DSP, Pas. Rad.                                   | (12)6½                  | (12)5½                    | Cones         | (20)1                    | Domes               |  |   | 91                      | 80   | 150,2k                    | 6/3.5                            | Two Pieces Per Side                  | Opt.       | Blk. Knit                 | 630 Side          | 35,000.00 Sys. w/DSP Module |                              |
|                        | DSP 1 Plus                        | Active DSP, Pas. Rad.                                   | (24)6½                  | (12)5½                    | Cones         | (20)1                    | Domes               |  |   | 93                      | 100  | 150,2k                    | 6/3.5                            | Three Pieces Per Side                | Opt.       | Blk. Knit                 | 945 Side          | 42,000.00 Sys. w/DSP Module |                              |
| QUANTA TECHNOLOGIES    | The Amazing Mini-Monitor III MKII | Vented  | 5¼                      |                           |               | 1                        | Dome                |  | 54-22 ±3                                    | 88                      | 20   | 2.5k                      | 8/6                              | 17 x 7 x 11                          | Matte Blk. | Gray Knit                 | 20                | 997.00 Pair; Kit, 688.00    |                              |
|                        |                                   | Hybrid Line   | 6½                      |                           |               | 1                        | Dome                |  | 47-20 ±3                                    | 89                      | 25   | 2k                        | 8/6                              | 20 x 9 x 13                          | Matte Blk. | Gray Knit                 | 28                | 1490.00 Pair; Kit, 1045.00  |                              |
|                        | VII MKII                          | Hybrid Line   | 8                       |                           |               | 1½                       | Dome                |  | 29-20 ±3                                    | 91                      | 40   | 2k                        | 8/6.2                            | 34 x 11 x 18                         | Matte Blk. | Gray Knit                 | 58                | 2990.00 Pair; Kit, 2350.00  |                              |
|                        | A Sub-Woofer                      | Vented Subwoof.   | 8                       |                           |               |                          |                     |  | 30-200 ±3                                   | 89                      | 40   |                           | 8/5.3                            | 25 x 11 x 17                         | Matte Blk. | Blk. Knit                 | 45                | 1290.00 Pair; Kit, 899.00   |                              |
|                        | B Sub-Woofer                      | Hybrid Line Subwoof.                                    | 10                      |                           |               |                          |                     |  | 25-200 ±3                                   | 92                      | 60   |                           | 8/5.2                            | 34 x 14 x 24                         | Matte Blk. | Blk. Knit                 | 78                | 3250.00 Pair; Kit, 2450.00  |                              |
|                        | C Sub-Woofer (The Rock)           | Vented Stereo Subwoof.                                  | (2)10                   |                           |               |                          |                     |  | 26-200 ±3                                   | 92                      | 60   |                           | 8/5.2                            | 24 x 24 x 37                         | Matte Blk. | Blk. Knit                 | 175               | 6500.00 Each                |                              |
|                        | Baby Pyramid MKII                 | Vented  | 5¼                      |                           |               | 1½                       | Dome                |  | 54-20 ±3                                    | 91                      | 40   | 2k                        | 8/5.3                            | 15 x 10 x 11                         | Matte Blk. | Gray Knit                 | 22                | 3990.00 Pair                |                              |
|                        | Baby Pyramid MKIII                | Vented  | 5¼                      |                           |               | 1½                       | Dome                |  | 50-20 ±3                                    | 89                      | 40   | 2k                        | 8/5.2                            | 16 x 11 x 12                         | Matte Blk. | Opt.                      | 44                | 5500.00 Pair                |                              |
|                        | The Pyramid Full Pyramid          | Vented  | 8                       | 10                        | 5¼            | Cone                     | 1½                  | Dome   |   | 27-20 ±3                | 93   | 40                        | 2k                               | 8/                                   |            | Opt.                      | Opt.              | 400 Sys.                    | 9000.00 Pair; 38,000.00 Sys. |
|                        | Great Pyramid                     | Vented  | 12                      | 6½                        | Cone          | 1½                       | Dome                |  | 25-20 ±3                                    | 92                      | 60   | 75,2k                     | 8/4.2                            | Four Pieces                          | Opt.       | Opt.                      | 500 Sys.          | 78,000.00 Sys.              |                              |
| QUANTUM SOUND          | Contra Bass                       | Motor-Driven Subwoof. w/ Pas. Rad. Rotary Driver        | (2)15                   |                           |               |                          |                     |  | 16-125 ±2                                   | 90                      | 100  | 100                       | 4/3                              | 18 x 22 x 37                         | Opt.       | Opt.                      | 120               | 2160.00 Each                |                              |
|                        | Torque Drive Focus Field          |   |                         |                           |               |                          |                     |  | 100-20 ±2                                   | 20                      | 100  | 100                       | 4/4                              | 18 x 14 x 30                         | Opt.       | Opt.                      | 60                | 1495.00 Each                |                              |
| QUINTESSENCE ACOUSTICS | Reference                         | Bass Ref.   | (2)18, (4)12            | (4)7                      | Cones         | (4)1, ½ (2)1             | Domes, Ribbon Domes | No   | 18-39 ±2                                    | 96                      | 100  | 50,150, 3k,10k 200,3k     | 4/                               | Four Pieces                          | Opt.       | Cloth                     | 1050 Sys.         | 40,000.00 Sys. w/Xover      |                              |
|                        | Studio                            | Bass Ref.   | (4)8                    | (2)7                      | Cones         |                          |                     | No   | 27-32 ±3                                    | 91                      | 100  | 200,3k                    | 6/                               | 14 x 46 x 21                         | Opt.       | Cloth                     | 500 Sys.          | 10,000.00 Sys. w/Xover      |                              |
|                        | Blk. Hole                         | Bass Ref. Subwoof.                                      | 18                      |                           |               |                          |                     |  | 18-200 ±1                                   | 98                      | 50   | 50-150 (Var.)             | 8/                               | 28 x 32 x 21                         | Opt.       | Cloth                     | 400 Sys.          | 7000.00 Each w/Xover        |                              |
| RADIO SHACK            | AMX-11                            | Powered   | 3                       |                           |               |                          |                     |  | 40-15                                       |                         | 8 Inc.                                       |                           | 8/                               |                                      | Mtl.       | Mtl.                      |                   | 70.00 Pair                  |                              |
|                        | AMX-15                            | Powered   | 4                       |                           |               |                          |                     |  | 20-20                                       |                         | 5 Inc.                                       |                           | 8/                               | 5 x 5 x 6                            | Mtl.       | Mtl.                      |                   | 120.00 Pair                 |                              |
|                        | AMX-16                            | Powered   | 4                       |                           |               |                          |                     |  | 20-20                                       |                         | 5 Inc.                                       |                           | 8/                               | 5 x 5 x 6                            | Mtl.       | Mtl.                      |                   | 120.00 Pair                 |                              |
| RBH SOUND              | TS-8                              | Powered Subwoof.  | 8                       |                           |               |                          |                     | SW   | 30-200                                      | 105                     | 150 Inc.                                     | 4G-120 (Adj.)             |                                  | 12 x 12 x 14                         | Blk. Oak   | Blk. Knit                 | 31                | 449.00 Each                 |                              |
|                        | TS-10                             | Powered Subwoof.  | 10                      |                           |               |                          |                     | SW   | 30-200                                      | 105                     | 180 Inc.                                     | 4G-120 (Adj.)             |                                  | 14 x 14 x 16                         | Blk. Oak   | Blk. Knit                 | 44                | 549.00 Each                 |                              |
|                        | TS-12                             | Powered Subwoof.  | 12                      |                           |               |                          |                     | SW   | 25-200                                      | 104                     | 220 Inc.                                     | 4G-120 (Adj.)             |                                  | 16 x 18 x 18                         | Blk. Oak   | Blk. Knit                 | 67                | 699.00 Each                 |                              |
|                        | FS-12                             | In-Wall/In-Floor, Subwoof.                              | 12                      |                           |               |                          |                     |  | 30-200                                      | 90                      | 50 Inc.                                      | 85, Opt.                  | 4/4                              | 10 x 14 x 36                         |            |                           | 68                | 499.00 Each                 |                              |
|                        | C-860                             | In-Wall, Inf. Baf.                                      | 8                       | 6                         | Cone          | 1                        | Dome                | T  | 35-22 ±3                                    | 89                      | 20   | 200,3k                    | 4/4                              | 55 x 15 x 3                          | Blk.       | Opt.                      | 56                | 995.00 Pair                 |                              |
|                        | C-820                             | In-Wall, Inf. Baf.                                      | 8                       |                           |               | 1                        | Dome                | T  | 40-22 ±3                                    | 89                      | 20   | 3k                        | 8/6                              | 23 x 15 x 3                          | Blk.       | Opt.                      | 33                | 695.00 Pair                 |                              |
|                        | C-88-SW                           | In-Wall, Subwoof.                                       | 8                       |                           |               |                          |                     | No   | 40-85 ±3                                    | 88                      | 20   | 85                        | 4/4                              | 23 x 15 x 3                          | Blk.       | Opt.                      | 34                | 425.00 Each                 |                              |
|                        | C1212-SW                          | In-Wall, Subwoof.                                       | 12                      |                           |               |                          |                     | No   | 25-85 ±3                                    | 89                      | 20   | 85                        | 4/4                              | 40 x 29 x 5                          | Blk.       | Opt.                      | 90                | 595.00 Each                 |                              |
|                        | D-8.3                             | In-Wall   | 8                       | 1                         | Dome          | 1                        | Dome                | No   | 45-20 ±3                                    | 90                      | 5  |                           | 8/8                              | 15 x 11 x 4                          | Whit.      | Whit.                     | 9                 | 395.00 Pair                 |                              |
|                        | D-8.2                             | In-Wall   | 8                       |                           |               | 1                        | Dome                | No   | 45-20 ±3                                    | 90                      | 5  | 2.5k                      | 8/8                              | 15 x 11 x 4                          | Whit.      | Whit.                     | 9                 | 359.00 Pair                 |                              |
|                        | D-6.2                             | In-Wall   | 6                       |                           |               | 1                        | Dome                | No   | 50-20 ±3                                    | 90                      | 5  | 2.5k                      | 8/8                              | 12 x 9 x 4                           | Whit.      | Whit.                     | 6                 | 295.00 Pair                 |                              |
|                        | D-5.2                             | In-Wall   | 5                       |                           |               | 1                        | Dome                | No   | 65-20 ±3                                    | 90                      | 5  | 3k                        | 8/8                              | 11 x 8 x 3                           | Whit.      | Whit.                     | 4                 | 195.00 Pair                 |                              |
|                        | 900-DX                            | Inf. Baf.   | (2)6                    |                           |               | 1                        | Domes               | T  | 35-22 ±3                                    | 90                      | 20   | 3k                        | 8/6                              | 42 x 7 x 9                           | Opt.       | Opt.                      | 52                | 795.00 Pair                 |                              |
|                        | 800-MX                            | Inf. Baf.   | 8                       | 6                         | Cone          | ½                        | Dome                | T  | 40-22 ±3                                    | 90                      | 20   | 3k                        | 6/4                              | 42 x 7 x 9                           | Opt.       | Opt.                      | 51                | 795.00 Pair                 |                              |
|                        | 1261                              | Inf. Baf.   | 12                      | 6                         | Cone          | ½                        | Dome                | T  | 30-22 ±3                                    | 89                      | 20   | 200,3k                    | 6/4                              | 37 x 12 x 15                         | Opt., Oak  | Blk.                      | 72                | 1095.00 Pair                |                              |
|                        | 861                               | Tuned Port  | 8                       | 6                         | Cone          | 1                        | Dome                | T  | 35-22 ±3                                    | 90                      | 20   | 200,3k                    | 6/4                              | 25 x 12 x 14                         | Opt., Oak  | Blk.                      | 48                | 695.00 Pair                 |                              |
|                        | 812                               | Inf. Baf.   | 8                       |                           |               | 1                        | Dome                | T  | 40-22 ±3                                    | 89                      | 20   | 3k                        | 8/8                              | 19 x 11 x 12                         | Opt., Oak  | Blk.                      | 33                | 595.00 Pair                 |                              |
| 82                     | Inf. Baf.                         | 8   |                         |                           | ¾             | Dome                     | T                   | 45-22 ±3   | 89  | 20                      | 3k   | 8/6                       | 16 x 10 x 8                      | Opt., Oak                            | Blk.       | 22                        | 395.00 Pair       |                             |                              |
| 83                     | Inf. Baf.                         | 8   |                         |                           | ¾             | Dome                     | T                   | 55-22 ±3   | 89  | 20                      | 3k   | 6/4                       | 12 x 8 x 7                       | Opt., Oak                            | Blk.       | 13                        | 295.00 Pair       |                             |                              |
| 53                     | Vented Subwoof.                   | 5¼  |                         |                           | ¾             | Dome                     | No                  | 75-20 ±3   | 90  | 5                       | 2.5k   | 8/8                       | 6 x 8 x 5                        | Opt.                                 | Opt.       | 5                         | 150.00 Pair       |                             |                              |
| SW-12A                 | Subwoof.                          | 12  |                         |                           |               |                          | No                  | 25-85 ±3   | 89  | 20                      | 85   | 4 or 8                    | 18 x 18 x 20                     | Opt., Oak                            | Blk.       | 57                        | 495.00 Each       |                             |                              |
| VDS-15                 | Subwoof.                          | 15  |                         |                           |               |                          | No                  | 25-85 ±3   | 89  | 20                      | 85   | 4 or 8                    | Custom                           | Opt., Oak                            | Blk.       | 73                        | 795.00 Each       |                             |                              |
| 8000                   | Tuned Dual Vent                   | (2)8  | (2)6½                   | Cones                     | 1             | Dome                     | T                   | 30-25 ±3   | 91  | 100                     | 200,3k                                       | 8/4                       | 12 x 55 x 14                     | Lacq. Oak                            | Blk.       | 87                        | 2600.00 Pair      |                             |                              |
| RCA                    | SP1320C                           | Home Th., Inf. Baf., Ctr. Ch.                           | (2)3½                   |                           |               | 1                        | Dome                |  | 170-20 ±4                                   | 86                      | 5  | 2.5k                      | 8/6.9                            | 5 x 17 x 8                           | Blk. Vnl.  | Gray Knit                 | 9                 | 199.00 Each                 |                              |
|                        | SP1420T                           | Bass Ref.   | (2)6½                   |                           |               | 1                        | Dome                |  | 63-20 ±3                                    | 86                      | 5  | 2.5k                      | 8/6.9                            | 45 x 8 x 14                          | Blk. Vnl.  | Gray Knit                 | 39                | 299.00 Each                 |                              |
| (Continued)            | SP2700T                           | Ac. Sus.  | 8                       | 4                         | Cone          | 1                        | Cone                |  | 60-20 ±6                                    | 87                      | 10   | 1k,5k                     | 8/5                              | 44 x 10 x 12                         | Oak        | Blk. Knit                 | 44                | 299.00 Each                 |                              |



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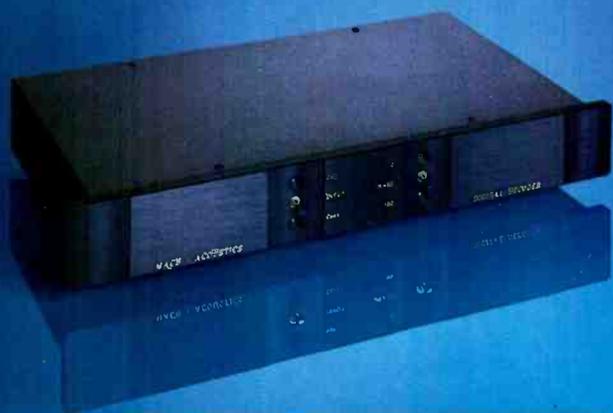
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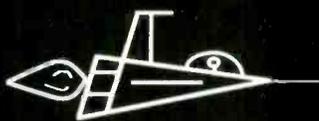
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# LOUDSPEAKERS

| MANUFACTURER                | Model                  | Application, Design Principle, Enclosure or System Type          | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=M, Midrange=M, Tweeter=T, Superwoofer=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish                 | Grille Color and Material  | Weight, Lbs. Each | Price, \$                  |            |
|-----------------------------|------------------------|--|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------------------|----------------------------|-------------------|----------------------------|------------|
| RCA (Continued)             | SP3300BS2              | Bass Ref. Powered Subwoof.                                       | 6 1/2                   |                           | 1             | Dome                     |              |  | 80-20 ±3<br>30-200                          | 86                      | 50<br>Inc.                                   | 2.5k<br>50-150<br>(Var.)  | 8/6.9                            | 14 x 8 x 13<br>17 x 12 x 14          | Blk. Vnl.<br>Gray Knit | Gray Knit                  | 14                | 399.00 Pair<br>449.00 Each |            |
|                             | SP5060S2<br>SP5065S2   | Vented, Surround<br>Vented, Surround                             | 3 1/2<br>3 1/2          |                           |               |                          |              |  | 200-8 ±4.5<br>200-8 ±4.5                    | 88<br>88                | 5<br>5                                       | 8/8<br>8/8                | 8/8<br>8/8                       | 6 x 4 x 3<br>6 x 4 x 3               | Gray<br>Off-Wht.       | Gray Mtl.<br>Off-Wht. Mtl. | 2<br>2            | 149.00 Pair<br>149.00 Pair |            |
| RDL ACOUSTICS               | RDL FS-1               | Ac. Sus.   | 8                       |                           | 1             | Dome                     |              |  |   | 87                      | 15   | 2k                        | 8/5                              | 25 x 11 x 11                         | Lacq.<br>Cherry        | Blk. Knit                  | 32                | 549.00 Pair                |            |
|                             | RDL F-1                | Ac. Sus.   | 8                       |                           | 1             | Dome                     |              |  |   | 87                      | 15   | 2k                        | 8/5                              | 25 x 11 x 11                         | Lacq.<br>Cherry        | Blk. Knit                  | 31                | 549.00 Pair                |            |
|                             | RDL B-1                | Ac. Sus.   | 8                       |                           | 1             | Dome                     |              |  |   | 87                      | 15   | 2k                        | 8/5                              | 20 x 11 x 11                         | Lacq.<br>Cherry        | Blk. Knit                  | 27                | 449.00 Pair                |            |
|                             | RDL S-1                | Ac. Sus.   | 8                       |                           | 1             | Dome                     |              |  |   | 87                      | 15   | 2k                        | 8/5                              | 12 x 12 x 12                         | Lacq.<br>Cherry        | Blk. Knit                  | 19                | 449.00 Pair                |            |
|                             | RDL AV-1               | Ac. Sus.   | 4                       |                           | 1             | Dome                     |              |  |   | 87                      | 15   | 2k                        | 8/5                              | 12 x 7 x 4                           | Lacq.<br>Cherry        | Blk. Knit                  | 8                 | 99.00 Each                 |            |
|                             | RDL 3-Piece System     | Ac. Sus.; Sat. & Subwoof.  | 8                       | 4                         | Cone          | 1                        | Dome         |  |   | 87                      | 15   | 150,2k                    | 8/5                              | Three Pieces                         | Lacq.<br>Blk.          | Blk. Knit                  | 33                | 385.00 Sys.                |            |
|                             | RDL Home Theater Set   | Ac. Sus.; Sat. & Subwoof. Home Th., Ac. Sus.; 5 Sats. & Subwoof. | 8                       | 4                         | Cone          | 1                        | Dome         |  |   | 87                      | 15   | 150,2k                    | 8/5                              | Six Pieces                           | Lacq.<br>Blk.          | Blk. Knit                  | 57                | 680.00 Sys.                |            |
|                             | RDL Micro-Monitor      | Ac. Sus.   | 5 1/4                   |                           | 1             | Cone                     |              |  | 70-20 ±3                                    | 86                      | 15   | 3k                        | 6/5                              | 11 x 7 x 7                           | Blk. Vnl.              | Blk. Knit                  | 6                 | 55.00 Each                 |            |
|                             | RDL Mini-Reference     | Ac. Sus.   | 6 1/2                   |                           | 1             | Cone                     |              |  | 55-20 ±3                                    | 88                      | 15   | 3k                        | 6/4                              | 14 x 9 x 8                           | Blk. Vnl.              | Blk. Knit                  | 9                 | 86.50 Each                 |            |
|                             | RDL Reference 4a       | Ac. Sus.   | 8                       |                           | 1             | Dome                     |              |  | 46-20 ±3                                    | 88                      | 15   | 3k                        | 6/4                              | 19 x 10 x 10                         | Blk. Vnl.              | Blk. Knit                  | 15                | 112.00 Each                |            |
| RDL Reference 2a            | Ac. Sus.               | 10   | 5 1/4                   | Cone                      | 1             | Dome                     |              | 35-20 ±3   | 87  | 15                      | 600,3k                                       | 4/3                       | 32 x 13 x 15                     | Blk. Vnl.                            | Blk. Knit              | 46                         | 212.00 Each       |                            |            |
| RDL Reference 3a            | Ac. Sus.               | 12   | 5 1/4                   | Cone                      | 1             | Dome                     |              | 33-20 ±3   | 87  | 15                      | 600,3k                                       | 4/3                       | 38 x 14 x 16                     | Blk. Vnl.                            | Blk. Knit              | 58                         | 271.00 Each       |                            |            |
| RDL Center Channel          | Ac. Sus.; Ctr. Ch.     | (2)5 1/4   |                         | 1                         | Cone          |                          |              | 55-20 ±3   | 86  | 15                      | 3k   | 6/5                       | 8 x 20 x 6                       | Blk. Vnl.                            | Blk. Knit              | 10                         | 149.00 Each       |                            |            |
| RECOTON                     | SPX110                 | Powered  | 4                       |                           | 2             | Cone                     |              |  | 50-15                                       | 10                      | Inc.   |                           | 8/                               |                                      |                        |                            |                   | 12                         | 99.99 Pair |
|                             | SPX100 V632A           | Powered Air Sus.   | 4 1/4                   |                           | 2             | Cone                     | W,T          |  | 50-15                                       | 85                      | 12   | 800                       | 8/                               | 16 x 7 x 7                           | Matte Blk.             | Blk. Knit                  | 13                | 99.99 Pair                 |            |
|                             | W100                   | Powered Bass Ref.  | 5                       |                           | 2 1/4         | Cone                     |              |  | 50-20 ±5                                    | 85                      | 12   | Inc.                      |                                  | 9 x 6 x 6                            | Matte Blk.             | Blk. Mesh                  | 7                 | 249.00 Pair                |            |
| REGA RESEARCH               | XEL                    | Trans. Line  | (2)5 1/4                |                           | 1             | Dome                     |              |  |   | 92                      | 20   |                           | 8/                               | 39 x 9 x 9                           | Opt., Wood             | Blk. Knit                  | 55                | 1995.00 Pair               |            |
|                             | ELA                    | Trans. Line  | 5 1/2                   |                           | 1             | Dome                     |              |  |   | 85                      | 25   |                           | 8/                               |                                      | Opt. Blk.              | Blk. Knit                  | 8                 | 1250.00 Pair               |            |
|                             | Kyrie EL8              | Trans. Line  | 5 1/2                   |                           | 1             | Dome                     |              |  |   | 100                     | 20   |                           | 8/4<br>8/4                       | 12 x 8 x 8<br>29 x 7 x 8             | Opt. Blk.              | Blk. Knit<br>Blk. Knit     | 8<br>26           | 399.00 Pair<br>895.00 Pair |            |
| RENAISSANCE ACOUSTICS       | Companion Monitor      | Bass Ref.  | 6 1/2                   |                           | 3/4           | Dome                     |              |  | 45-20 ±3                                    | 88                      | 15   | 3k                        | 8/5                              | 19 x 10 x 12                         | Opt., Ven.             | Opt., Knit                 | 18                | 600.00 Pair                |            |
|                             | Companion Mini-Monitor | Ac. Sus.   | 6 1/2                   |                           | 3/4           | Dome                     |              |  | 70-20 ±3                                    | 88                      | 15   | 3k                        | 8/5                              | 12 x 8 x 7                           | Opt., Ven.             | Opt., Knit                 | 12                | 450.00 Pair                |            |
|                             | Companion Sub-1        | Bass Ref.; Stereo Subwoof.                                       | (2)10                   |                           |               |                          |              |  | 35-100 ±3                                   | 88                      | 40   | 100, Opt.                 | 8/6                              | 29 x 18 x 16                         | Opt., Ven.             | Opt., Knit                 | 70                | 775.00 Each                |            |
|                             | Companion Sub-2        | Bass Ref.; Subwoof.  | 10                      |                           |               |                          |              |  | 30-100 ±3                                   | 88                      | 40   | 100, Opt.                 | 8/6                              | 18 x 18 x 16                         | Opt., Ven.             | Opt., Knit                 | 38                | 865.00 Pair                |            |
| RESONANCE                   | R6a                    | Adj. Align.  | 6 1/2                   |                           | 3/4           | Dome                     | No           |  | 48-20 ±2                                    | 90                      | 20   | 3.5k                      | 4/                               | 9 x 14 x 11                          | Opt., Wood             | Blk. Knit                  | 20                | 306.00 Pair                |            |
|                             | R26a                   | Adj. Align.  | (2)6 1/2                |                           | 3/4           | Dome                     | No           |  | 42-20 ±2                                    | 90                      | 20   | 3.5k                      | 8/                               | 10 x 19 x 15                         | Opt., Wood             | Blk. Knit                  | 34                | 450.00 Pair                |            |
|                             | R161c                  | A/V; Adj. Align.   | 6 1/2                   |                           | 1             | Dome                     | M,T          |  | 48-20 ±2                                    | 90                      | 20   | 3.5k                      | 4/                               | 9 x 14 x 11                          | Opt.                   | Blk. Knit                  | 24                | 738.00 Pair                |            |
|                             | R261c                  | A/V; Adj. Align.   | (2)6 1/2                |                           | 1             | Dome                     | M,T          |  | 42-20 ±2                                    | 90                      | 20   | 3.5k                      | 8/                               | 10 x 19 x 15                         | Opt.                   | Blk. Knit                  | 30                | 968.00 Pair                |            |
|                             | R181                   | A/V; Adj. Align.   | 8                       |                           | 1             | Dome                     | M,T          |  | 38-20 ±2                                    | 91                      | 20   | 3.5k                      | 8/                               | 15 x 19 x 10                         | Opt., Wood             | Blk. Knit                  | 32                | 1288.00 Pair               |            |
| ROBERTS ARCHITECTURAL AUDIO | RA850                  | In-Wall; Inf. Baf.   | 8                       |                           | 3/4           | Dome                     |              |  | 28-30 ±3                                    | 90                      | 4  | 3.5k                      | 8/5.5                            | 14 x 10 x 3                          | Wht.                   | Wht. Mtl.                  | 7                 | 649.00 Pair                |            |
|                             | RA820                  | In-Wall; Inf. Baf.   | 8                       |                           | 3/4           | Dome                     |              |  | 35-30 ±3                                    | 90                      | 4  | 3.8k                      | 8/6                              | 14 x 10 x 3                          | Wht.                   | Wht. Mtl.                  | 6                 | 499.00 Pair                |            |
|                             | RA620                  | In-Wall; Inf. Baf.   | 6 1/2                   |                           | 3/4           | Dome                     |              |  | 50-30 ±3                                    | 89                      | 4  | 4.2k                      | 8/6                              | 14 x 10 x 3                          | Wht.                   | Wht. Mtl.                  | 6                 | 299.00 Pair                |            |
|                             | RA600                  | In-Wall; Inf. Baf.   | 6 1/2                   |                           | 3/4           | Dome                     |              |  | 50-20 ±3                                    | 89                      | 4  | 5k                        | 8/6                              | 14 x 10 x 3                          | Wht.                   | Wht. Mtl.                  | 6                 | 249.00 Pair                |            |
|                             | MP260                  | In-Wall; Inf. Baf.   | 6 1/2                   |                           | 2 1/2         | Cone                     |              |  | 50-17 ±3                                    | 90                      | 4  | 4k                        | 8/6                              | 14 x 10 x 3                          | Wht.                   | Wht. Mtl.                  | 6                 | 199.00 Pair                |            |
|                             | RA8SW                  | In-Wall; Subwoof.  | 8                       |                           |               |                          |              |  | 30-150 ±3                                   | 89                      | 4  | 150                       | 8/6                              | 14 x 10 x 3                          | Wht.                   | Wht. Mtl.                  | 12                | 399.00 Each                |            |
| ROCKPORT TECHNOLOGIES       | Procyon                | Powered  | (2)9, 7                 | 4 1/2                     | Cone          | 1                        | Dome         | W  | 22-21 ±2                                    | 88                      | 50; Inc.                                     |                           | 6/5                              | 15 x 24 x 48                         | Gloss Blk.             | Blk.                       | 300               | 30,000.00 Pair             |            |
|                             | Syzygy                 | Bass Ref.  | 9                       | 4 1/2                     | Cone          | 1                        | Dome         |  | 32-21 ±3                                    | 88                      | 50   |                           | 8/5                              | 13 x 20 x 43                         | Gloss Blk.             | Foam Blk. Foam             | 150               | 14,500.00 Pair             |            |
| ROCK SOLID SOUNDS           | Solid Monitor          | Vented Subwoof.  | 5                       |                           | 1             | Dome                     |              |  | 75-20 ±3                                    | 90                      | 20   | 2.5k                      | 8/                               | 10 x 7 x 6                           | Opt., Mtl.             | Opt., Mtl.                 | 5                 | 299.00 Pair                |            |
|                             | Twin Bass              | Vented   | (2)6 1/4                |                           |               |                          |              |  | 45-120 ±3                                   | 91                      | 30   | 120                       | 4/                               | 18 x 8 x 24                          | Opt.                   | Opt.                       | 23                | 350.00 Each                |            |
|                             | Team Monitor           | Vented   | 4                       |                           | 1             | Dome                     |              |  | 80-20 ±3                                    | 87                      | 20   | 2.5k                      | 8/                               | 8 x 5 x 6                            | Opt.                   | Opt., Plast.               | 4                 | 199.00 Pair                |            |
|                             | Team Bass              | Subwoof.   | (2)6 1/4                |                           |               |                          |              |  | 57-200 ±3                                   | 88                      | 30   | 200                       | 4/                               | 18 x 8 x 14                          | Opt.                   |                            | 17                | 250.00 Each                |            |
| ROHRER ACOUSTIC DESIGN      | 702                    | Bass Ref.  | 7                       |                           | 3/8           | Dome                     | T            |  | 40-40                                       | 90                      | 30   | 4.5k                      | 8/7                              | 41 x 19 x 12                         | Oak Blk.               | Blk. Knit                  | 65                | 1600.00 Pair               |            |
|                             | 2602                   | Bass Ref.  | (2)6                    |                           | 3/8           | Dome                     | T            |  | 30-40                                       | 93                      | 20   | 5k                        | 4/3                              | 21 x 9 x 21                          | Blk.                   | Blk. Knit                  | 50                | 2400.00 Pair               |            |
|                             | 10-03                  | Inf. Baf.  | 10                      | (2)4 1/2                  | Cones         | 3/8                      | Dome         | T  | 25-40                                       | 90                      | 30   | 125,4k                    | 8/7                              | 48 x 14 x 14                         | Blk.                   | Foam                       | 70                | 3600.00 Pair               |            |
|                             | 210-03                 | Inf. Baf.  | (2)10                   | (2)4 1/2                  | Cones         | 3/8                      | Dome         | T  | 16-40                                       | 90                      | 30   | 125,4k                    | 4/3                              | 48 x 14 x 14                         | Blk.                   | Foam                       | 70                | 5400.00 Pair               |            |
|                             | 1201                   | Inf. Baf.  | 12                      | (2)4 1/2                  | Cones         | 3/8                      | Dome         | T  | 16-100                                      | 90                      | 30   |                           | 8/6                              | 19 Dia. x 82                         | Blk.                   | Foam                       | 70                | 1600.00 Pair               |            |
|                             | 21201                  | Bass Ref.; Subwoof.  | (2)12                   |                           |               |                          |              |  | 16-100                                      | 96                      | 20   |                           | 4/3                              | 19 Dia. x 82                         | Cloth Blk.             | Blk. Knit                  | 80                | 2400.00 Pair               |            |
|                             | 21501                  | Bass Ref.; Subwoof.  | (2)15                   |                           |               |                          |              |  | 14-100                                      | 96                      | 20   |                           | 8/4                              | 25 Dia. x 82                         | Cloth Blk.             | Blk. Knit                  | 100               | 4800.00 Pair               |            |
|                             | Reference System       | Bass Ref.  | (8)15                   | (12)6                     | Cones         | (16) 1/4 x 3             | Ribbons      | T  | 12-40                                       | 100                     | 20   | 50,5k                     | 4/4                              | Three Pieces Per Side                | Cloth Blk.             | Blk. Knit                  | 500               | 44,000.00 Sys.             |            |
| ROSLINANTÉ                  | Evolution              | Ported   | (2)7                    |                           | 1             | Dome                     |              |  | 28-22                                       | 93                      | 50   | 2.2k                      | 8/7                              | 12 x 48 x 9                          | Marble                 | Blk. Knit                  | 65                | 2000.00 Pair               |            |
| ROSSMAN AUDIO               | SA.5a                  | Powered, Vented  | 5                       |                           | 1             | Dome                     |              |  | 55-20 ±3                                    | Inc.                    | Inc.   | 2.3k                      | 100k                             |                                      | Blk. Lam.              | Blk. Knit                  |                   | 550.00 Pair                |            |
|                             | SA1.0                  | Powered, Vented  | 8                       |                           | 1             | Dome                     |              |  | 40-20 ±3                                    | Inc.                    | Inc.   | 2.3k                      | 100k                             |                                      | Blk. Lam.              | Blk. Knit                  |                   | 650.00 Pair                |            |
| RUARK                       | Swordsmen Plus II      | Inf. Baf.  | 6 1/2                   |                           | 1             | Dome                     | No           |  | 60-20                                       | 20                      |  | 8/                        | 13 x 8 x 10                      | Opt., Wood                           | Blk. Knit              | 17                         | 699.00 Pair       |                            |            |
|                             | Sabre II               | Inf. Baf.  | 6 1/2                   |                           | 1             | Dome                     | No           |  | 60-20                                       | 20                      |  | 8/                        | 15 x 9 x 11                      | Opt., Wood                           | Blk. Knit              | 18                         | 899.00 Pair       |                            |            |
|                             | Templar                | Inf. Baf.  | 6 1/2                   |                           | 1             | Dome                     | No           |  | 50-20                                       | 20                      |  | 8/                        | 28 x 8 x 10                      | Opt., Wood                           | Blk. Knit              | 27                         | 1100.00 Pair      |                            |            |



**MACH 1  
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# LOUDSPEAKERS

| MANUFACTURER            | Model  | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer = W, Midrange = M, Tweeter = T, Super Tweeter = ST | Amphiphonic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish                  | Grille Color and Material | Weight, Lbs. Each              | Price, \$                               |
|-------------------------|--|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-------------------------|---------------------------|--------------------------------|---|
| RUARK (Continued)       | Talisman II                                      | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         | No   | 48-20  | 25                      |  |                           | 8/                               | 33 x 9 x 13                          | Opt., Wood              | Bik. Knit                 | 40                             | 1700.00 Pair                            |
|                         | Broad Sword                                      | Inf. Baf.   | 7                       |                           |               | 1                        | Dome         | No   |  | 25                      |  |                           | 8/                               | 17 x 9 x 12                          | Opt., Wood              | Bik. Knit                 | 24                             | 2100.00 Pair                            |
|                         | Crusader   | Bass Ref.   | 6½                      | 3                         |               | 1                        | Dome         | No   | 50-20 ±3                                       | 25                      |  |                           | 8/                               | 35 x 9 x 13                          | Wood Opt., Wood         | Bik. Knit                 | 66                             | 3300.00 Pair                            |
|                         | Equinox  | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         | No   | 45-20 ±3                                       | 87                      | 2.8k   | 6/3                       | 35 x 10 x 14                     | Wood Opt., Wood                      | Bik. Knit               | 55                        | 4000.00 Pair w/Xovers & Stands |   |
|                         | Accolade   | Bass Ref.   | 11                      |                           |               | 1                        | Dome         | No   |  | 25                      |  |                           | 8/                               | 39 x 11 x 15                         | Opt., Wood              | Bik. Knit                 | 88                             | 6000.00 Pair                            |
| RUSSOUND                | SP501  | In-Wall   | 5¼                      |                           |               |                          |              |  | 70-18  | 88                      | 10   |                           | 8/4                              | 7 x 10 x 3                           | Wht. Plast.             | Wht. Steel                | 5                              | 109.95 Each                             |
|                         | SP502  | In-Wall   | 5¼                      |                           | 2¼            | Dome                     |              |  | 70-20 ±5                                       | 90                      | 10   | 3k                        | 8/4                              | 7 x 10 x 3                           | Wht. Plast.             | Wht. Steel                | 5                              | 99.95 Each                              |
|                         | SP602  | In-Wall   | 6½                      |                           | 2¼            | Dome                     |              |  | 55-20 ±5                                       | 90                      | 10   | 3k                        | 8/4                              | 7 x 10 x 3                           | Wht. Plast.             | Wht. Steel                | 6                              | 124.95 Each                             |
|                         | SP610  | In-Wall   | 6½                      |                           | 1             | Dome                     |              |  | 40-20 ±5                                       | 90                      | 10   | 2.5k                      | 8/4                              | 7 x 10 x 3                           | Wht. Plast.             | Wht. Steel                | 7                              | 179.95 Each                             |
|                         | SP691  | In-Wall Subwoof.  | 6x9                     |                           |               |                          |              |  | 28-90  | 90                      | 10   | 90                        | 8/4                              | 7 x 10 x 3                           | Wht. Plast.             | Wht. Steel                | 9                              | 229.95 Each                             |
|                         | SP692  | In-Wall Subwoof.  | 6x9                     |                           |               |                          |              |  | 28-90  | 90                      | 10   | 90                        | 8/4                              | 7 x 10 x 3                           | Wht. Plast.             | Wht. Steel                | 9                              | 295.00 Each                             |
| SASAKI ACOUSTICS        | CB 300M  | Glass Sphere  | 5¼                      |                           |               | ½                        | Dome         |  | 75-20  | 91                      | 10   | 8k                        | 4/4                              | 11 Sphere                            | Clear Glass             | Bik. Mtl.                 | 15                             | 1779.95 Pair                            |
|                         | CB 250-DX  | Glass Sphere  | 5½                      |                           |               | 1                        | Dome         |  | 80-20  | 87                      | 10   | 3k                        | 4/4                              | 9 Sphere                             | Clear Glass             | Gray Mtl.                 | 13                             | 1099.95 Pair                            |
|                         | CW 160AV/ CB 160AV-S                             | AV; Glass Sphere  | 3½                      |                           |               |                          |              |  | 130-20   | 92                      | 10   |                           | 4/4                              | 6 Sphere                             | Clear Glass Opt., Glass | Opt., Mtl.                | 4                              | 479.95 Pair                             |
|                         | CB 160 MX  | Glass Sphere  | 3½                      |                           |               |                          |              |  | 130-20   | 92                      | 10   |                           | 4/4                              | 6 Sphere                             | Clear Glass             | Bik. Mtl.                 | 4                              | 449.95 Pair                             |
|                         | Bas-1 CB 300M                                    | Subwoof. Glass Sphere                                   | (2)6½ 5¼                |                           |               | ½                        | Dome         |  | 50-200 75-20                                   | 88 91                   | 10 10  | 200 6k                    | 4/4 4/4                          | 19 x 9 x 12 11 Sphere                | Clear Glass             | Bik. Vnl.                 | 27 22                          | 249.95 Each 2599.95 Pair w/Lighted Base |
|                         | CB 500R  | Glass Sphere  | 8                       |                           |               |                          |              |  | 45-15  | 91                      | 10   |                           | 8/8                              | 20 Sphere                            | Clear Glass             | Bik. Mtl.                 | 44                             | 5399.95 Pair                            |
|                         | CB 500S  | Coaxial; Glass Sphere                                   | 10                      |                           | 3             | Dome                     |              |  | 60-16  | 98                      | 10   |                           | 15/15                            | 20 Sphere                            | Clear Glass             | Bik. Mtl.                 | 44                             | 14,000. Pair                            |
| SCAN AMERICAN           | SD-One   | Inf. Baf.   | 4                       |                           |               | ¾                        | Dome         |  | 60-20  | 90                      | 15   | 2.4k                      | 4/4                              | 6 x 9 x 7                            | Wal. Opt.               | Bik. Knit                 | 10                             | 650.00 Pair                             |
|                         | SD-Two   | Inf. Baf.   | 5                       |                           |               | ¾                        | Dome         |  | 50-20  | 88                      | 30   | 2.4k                      | 4/4                              | 12 x 8 x 7                           | Bik. Knit               | Bik. Knit                 | 10                             | 950.00 Pair                             |
|                         | SD-Three   | Inf. Baf.   | 6                       |                           |               | ¾                        | Dome         |  | 40-20  | 89                      | 20   |                           | 4/4                              | 16 x 10 x 8                          | Opt.                    | Bik. Knit                 | 12                             | 1250.00 Pair                            |
|                         | SD-Four  | Inf. Baf.   | 8                       |                           |               | ¾                        | Dome         |  | 25-20  | 89                      | 40   |                           | 4/4                              | 19 x 12 x 10                         | Opt.                    | Bik. Knit                 | 16                             | 1650.00 Pair                            |
|                         | SA 2.5   | Ported  | 5¼                      |                           |               | 1                        | Dome         |  | 55-22  | 86                      | 10   | 2.5k                      | 4/4                              | 13 x 8 x 7                           | Opt.                    | Bik. Knit                 | 8                              | 349.95 Pair                             |
|                         | SA 2.6   | Inf. Baf.   | 6                       |                           |               | 1                        | Dome         |  | 40-22  | 87                      | 15   | 2.5k                      | 4/4                              | 16 x 9 x 7                           | Opt.                    | Bik. Knit                 | 8                              | 449.95 Pair                             |
|                         | SA 2.8   | Inf. Baf.   | 8                       |                           |               | 1                        | Dome         |  | 30-22  | 89                      | 20   | 3.5k                      | 4/4                              | 19 x 11 x 8                          | Opt.                    | Bik. Knit                 | 8                              | 549.95 Pair                             |
|                         | REW 1.6  | Inf. Baf.   | 6                       |                           |               | 1                        | Dome         |  | 30-22  | 88                      | 30   | 2.5k                      | 4/4                              | 16 x 10 x 8                          | Opt.                    | Bik. Knit                 | 8                              | 1600.00 Pair                            |
| SCIENTIFIC FIDELITY     | Crown Joule Substrate (for Crown Joule) Testa II | Ported Subwoof.   | 6½ (2)8                 |                           |               | 1                        | Dome         | W  | 38-25 ±1.5 28-100 ±3                           | 83 83                   | 50 100                                       | 2.5k 100                  | 8/6 4/2                          | 14 x 10 x 16 26 x 10 x 18            | Opt. Opt.               | None Bik. Knit            | 26 65                          | 1590.00 Pair 3250.00 Pair               |
|                         |  | Ported  | (2)6½                   |                           |               | 1                        | Dome         |  | 32-25 ±2.5                                     | 89                      | 20   | 1.8k                      | 8/5                              | 48 x 8 x 13                          | Opt.                    | Bik. Knit                 | 60                             | 2990.00 Pair                            |
| R. SEQUERRA ASSOCIATES  | NFM-Pro  | Near-Field Monitor Subwoof.                             | 6½ (2)10                |                           |               | 2                        | Cone         | T  | 60-19 ±2 20-200 ±6                             | 91 92                   | 50 100                                       | 3.5k 70                   | 8/6                              |                                      | Bik. Nxtl. Bik. Nxtl.   | Bik. Nxtl.                | 19 120                         | 2000.00 Pair 6000.00 Pair               |
|                         | T1-Mk3   | Ribbon Tweeter  | (6)10                   |                           |               | ¾x5 300 Sq. In.          | Ribbon       | T  | 18-45 ±2                                       | 96 97                   | 50 200                                       | 2.4k 60                   | 8/6                              | 96 x 10 x 8                          | Bik. Nxtl. Opt.         | Bik. Nxtl. Opt.           | 7 1200                         | 3000.00 Pair 100,000. Pair              |
|                         | FRR  | Ac. Sus.  | (6)10                   |                           |               |                          |              |  |  |                         |  |                           |                                  |                                      |                         |                           |                                |   |
|                         |  |   |                         |                           |               |                          |              |  |  |                         |  |                           |                                  |                                      |                         |                           |                                |   |
| SHAHINIAN ACOUSTICS     | Super Elf  | Damped Vent   | 5¼                      |                           |               | 1                        | Dome         |  | 45-19 ±3                                       | 90                      | 25   | 4.5k                      | 6/5                              | 15 x 9 x 10                          | Opt., Wood              | Opt., Knit                | 18                             | 750.00 Pair                             |
|                         | Arc  | Pas. Rad.   | 8                       | 1½                        | Dome          | 1                        | Dome         |  | 28-18 ±3                                       | 88                      | 30   | 1.9k,8k                   | 6/4                              | 28 x 14 x 10                         | Opt., Wood              | Opt., Knit                | 42                             | 1550.00 Pair                            |
|                         | Obelisk  | Trans. Line, Pas. Rad.                                  | 8                       | 1½                        | Dome          | (4)¾                     | Domes        |  | 28-22 ±3                                       | 90                      | 50   | 1.8k,9k                   | 5/4                              | 29 x 15 x 13                         | Wood Opt., Wood         | Opt., Knit                | 55                             | 2350.00 Pair                            |
|                         | Hawk Subwoofer                                   | Trans. Line, Pas. Rad. Subwoof.                         | 8                       |                           |               |                          |              | W  | 25-500   | 90                      | 100  | 250/500 (Sel.)            | 6/4                              | 30 x 15 x 11                         | Wood Opt., Wood         | Opt., Knit                | 63                             | 1900.00 Pair                            |
|                         | Double Eagle Subwoofer                           | Stereo Trans. Line, Pas. Rad. Subwoof.                  | (2)8                    |                           |               |                          |              | W  | 20-225   | 90                      | 150  | 140/500 (Sel.)            | 6/3                              | 23 x 15 x 32                         | Wood Opt., Wood         | Opt., Knit                | 105                            | 3000.00 Pair                            |
|                         | Hawk Module                                      |   | (4)4                    |                           |               | (4)1                     | Domes        |  | 250-18   | 90                      | 50   | 250,4.5k, 9.5k            | 5/4                              | 17 x 12 x 7                          | Wood Oil. Birch         | Opt., Knit                | 21                             | 2600.00 Pair                            |
|                         | Diapason Module                                  |   | (4)5¼                   | (2)1½                     | Domes         | (2)¾, (6)¾               | Domes        |  | 140-25 ±3                                      | 91                      | 150  | 140,4k, 7k,11k            | 4/3                              | 22 x 15 x 7                          | Oil. Birch              | Opt., Knit                | 35                             | 5000.00 Pair                            |
| SHERWOOD                | SP-200   | Rear Sat. & Ctr. Ch.                                    |                         | 3½                        | Cone          | 2½                       | Cone         |  | 100-20 ±3                                      | 91                      | 20   |                           | 8/                               | Three Pieces                         | Bik.                    | Bik. Steel Mesh           | 17 Sys.                        | 249.00 Sys.                             |
|                         | SP-250   | Front AV Sat. & Subwoof.                                | 8                       | 3½                        | Cone          | 2½                       | Cone         |  | 30-20 ±3                                       | 89                      | 20   |                           | 6/                               | Three Pieces                         | Bik.                    | Bik. Steel Mesh           | 27 Sys.                        | 299.00 Sys.                             |
|                         | SP-450   | Home Th.: 4 Sats., Ctr. Ch. & Subwoof.                  | 8                       | 3½                        | Cone          | 2½                       | Cone         |  | 30-20 ±3                                       | 89                      | 20   |                           | 6/                               | Six Pieces                           | Bik.                    | Bik. Steel Mesh           | 45 Sys.                        | 549.00 Sys.                             |
| SIGNATURE TECH-NOLOGIES | SRM7.1   | Ac. Sus.  | 6                       |                           |               | ¾                        | Dome         |  | 60-20 ±3                                       | 89                      | 10   | 6k                        | 4/4                              | 15 x 9 x 10                          | Oak                     | Bik. Knit                 | 19                             | 499.00 Pair                             |
|                         | SRM5.1   | Tuned Port  | 6                       |                           |               | 1                        | Dome         |  | 33-25 ±3                                       | 90                      | 10   | 4k                        | 4/4                              | 22 x 9 x 13                          | Oak                     | Bik. Knit                 | 25                             | 699.00 Pair                             |
|                         | SRM3.1   | Tuned Port  | (2)6                    |                           |               | 1                        | Dome         |  | 33-20 ±4                                       | 90                      | 10   | 4k                        | 4/4                              | 47 x 9 x 11                          | Oak                     | Bik. Knit                 | 51                             | 999.00 Pair                             |
|                         | SRM2.1   | Tuned Port  | (2)6                    |                           |               | 1                        | Dome         |  | 33-25 ±3                                       | 91                      | 10   | 4k                        | 4/4                              | 40 x 9 x 13                          | Oak                     | Bik. Knit                 | 56                             | 1899.00 Pair                            |
|                         | SRM.9  | Biamp only; Ac. Sus.                                    | (2)10                   | 6½                        | Cone          | 1                        | Dome         |  | 22-24 ±3                                       | 92                      | 25, 75                                       | 80,4k                     | 4/4                              | 65 x 14 x 19                         | Oak                     | Bik. Knit                 | 165                            | 6500.00 Pair                            |
|                         | SRM1.1   | Subwoof.  | (2)8                    |                           |               |                          |              |  | 27-2 ±3  | 91                      | 25   |                           | 4/4                              | 40 x 11 x 19                         | Oak                     | Bik. Knit                 | 87                             | 799.00 Each                             |
|                         | Profile 1  | In-Wall   | 6½                      |                           |               | ¾                        | Dome         |  | 60-20 ±3                                       | 89                      | 10   | 6k                        | 4/4                              | 12 x 9 x 1                           | Opt.                    | Opt.                      | 3                              | 399.00 Pair                             |
|                         | Profile 2  | In-Wall   | 6½                      |                           |               | ¾                        | Dome         |  | 60-20 ±3                                       | 89                      | 10   | 6k                        | 4/4                              | 12 x 9 x 1                           | Opt.                    | Opt.                      | 3                              | 399.00 Pair                             |
|                         | Profile 3  | In-Wall   | 8                       |                           |               | ¾                        | Dome         |  | 60-20 ±3                                       | 89                      | 10   | 6k                        | 4/4                              | 14 x 12 x 1                          | Opt.                    | Opt.                      | 7                              | 499.00 Pair                             |
|                         | Profile LF                                       | In-Wall; Subwoof.                                       | 10                      |                           |               |                          |              |  | 32-2   | 91                      | 25   |                           | 4/4                              | 12 x 21 x 1                          | Opt.                    | Opt.                      | 14                             | 299.00 Each                             |

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# LOUDSPEAKERS

| MANUFACTURER     | Model   | Application, Design Principle, Enclosure or System Type  | Woofer Diameter, Inches   | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W, Midrange-M, Tweeter-T, Superwoofer-ST | Amplifier Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms, Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish     | Grille Color and Material | Weight, Lbs. Each | Price, \$            |
|------------------|---|--|---------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------|---------------------------|-------------------|----------------------|
| SIGNET           | SL280EXB  | Vented   | 8                         |                           |               | 1                        | Dome         |  | 30-25  | 88                      | 20   | 2.5k                      | 8/7                              | 10 x 13 x 35                         | Opt.       | Bik. Knit                 | 45                | From 900.00 Pair     |
|                  | SL280B/U  | Vented   | 8                         |                           |               | 1                        | Dome         |  | 35-25  | 88                      | 20   | 2.5k                      | 8/7                              | 10 x 13 x 25                         | Bik. Vni.  | Bik. Knit                 | 35                | 700.00 Pair          |
|                  | SL260B/U  | Vented   | 6½                        |                           |               | ¾                        | Dome         |  | 45-25  | 87                      | 20   | 3k                        | 8/7                              | 8 x 13 x 16                          | Bik. Vni.  | Bik. Knit                 | 21                | 450.00 Pair          |
|                  | SL250B/U  | Vented   | 5½                        |                           |               | ¾                        | Dome         |  | 50-22  | 88                      | 15   | 3.3k                      | 8/6                              | 7 x 10 x 13                          | Bik. Vni.  | Bik. Knit                 | 12                | 300.00 Pair          |
|                  | SL240B/U  | Vented   | 5¼                        |                           |               | ¾                        | Dome         |  | 65-20  | 88                      | 10   | 4k                        | 8/5                              | 7 x 6 x 10                           | Opt.       | Bik. Knit                 | 6                 | 200.00 Pair          |
| SNELL ACOUSTICS  | Type A Reference System Type B  | 2 Towers & 2 Subs.   | (4)6½, 18                 | (2)5¼                     | Cones         | 1½, 1                    | Domes        | W, T, ST   | 17-20 ±2                                     | 87                      | 100  | 80,350, 2.8k              | 8/5                              | Four Pieces                          | Opt.       | Bik.                      | 530 Sys.          | 18,999. Sys. w/Xover |
|                  | Type B Minor Type C/V Type CC-1 Type S/12 Type D Type E/III Type J/III Type K/II Type K/IV Type Q Type Qv | Ac. Sus. Ac. Sus. Bass Ref. Inf. Baf. Subwoof. Ported Ported Ported Ac. Sus. Ac. Sus. Ac. Sus. Inf. Baf. | (2)10 (2)5¼ (2)5¼ (2)5¼ 5 | Cones                     | (2)1          | Domes                    | T            |  | 20-20 ±1.5                                   | 86                      | 100  | 40,275, 2.7k, 5k          | 8/4                              | 48 x 25 x 19                         | Opt.       | Bik. Knit                 | 152               | 4799.00 Pair         |
| SNELL MULTIMEDIA | MC Reference Tower  | THX, Inf. Baf.   | (4)6½                     | (2)5¼                     | Cones         | (3)1                     | Domes        |  | 80-20 ±2                                     | 87                      | 80   | 350,2.8k                  | 8/5                              | 63 x 9 x 12                          | Opt.       | Bik.                      | 145               | 6599.00 Each         |
|                  | MC Reference LCR 2800   | THX, Inf. Baf.   | (2)8                      | (2)5                      | Cones         | (3)1                     | Domes        |  | 80-20 ±2                                     | 87                      | 80   | 350,2.8k                  | 8/5                              | 19 x 23 x 12                         | Opt.       | Bik.                      | 64                | 4799.00 Each         |
|                  | MC Reference SUR 2800   | THX; Bass Ref.   | 8                         | (2)6½                     | Cones         | (2)1                     | Domes        |  | 36-20  | 86                      | 50   | 120,300, 2.7k             | 8/4.5                            | 87 x 11 x 8                          | Opt.       | Bik.                      | 110               | 3499.00 Each         |
|                  | LCR 500   | THX; Ac. Sus.  | (2)6½                     |                           | (2)¾          | Domes                    | T            |  | 80-20 ±3                                     | 100                     | 100  | 8/4                       | 22 x 10 x 7                      | Bik.                                 | Bik. Knit  | 35                        | 899.00 Each       |                      |
|                  | SUR 500   | THX, Dipole  | (2)6½                     |                           | (2)1          | Domes                    | T            |  | 125-20 ±3                                    | 100                     | 100  | 8/4                       | 17 x 10 x 8                      | Bik.                                 | Bik. Knit  | 35                        | 899.00 Each       |                      |
|                  | SUR 550   | THX; Subwoof.  | 12                        |                           | (2)¾          | Domes                    | T            |  | 20-80 ±3                                     | 100                     | 100  | 8/8                       | 23 x 19 x 12                     | Bik.                                 | Bik. Knit  | 60                        | 549.00 Each       |                      |
|                  | HCC 500   | Ac. Sus.   | (2)6½                     |                           | (2)¾          | Domes                    | T            |  | 80-20 ±3                                     | 100                     | 100  | 8/4                       | 10 x 22 x 7                      | Bik.                                 | Bik. Knit  | 35                        | 899.00 Each       |                      |
|                  | K/IV  | Ac. Sus.   | 8                         |                           | 1             | Dome                     | T            |  | 70-20 ±2                                     | 90                      | 10   | 2.7k                      | 6/5                              | 18 x 11 x 9                          | Bik.       | Bik. Knit                 | 26                | 249.00 Each          |
|                  | LCR 800   | THX; In-Wall   | (2)6½                     |                           | (2)¾          | Domes                    | T            |  | 80-20  | 89                      | 100  | 4/                        | 22 x 12 x 3                      | Mtl.                                 | Bik. Knit  | 26                        | 1099.00 Each      |                      |
|                  | SUR 850   | THX; In-Wall   | (2)5¼                     | (2)4½                     | (2)1          | Domes                    | T            |  | 120-20                                       | 89                      | 50   | 300,2.8k                  | 8/4                              | 22 x 13 x 4                          | Opt.       | Bik.                      | 24                | 1599.00 Each         |
|                  | SUR 800   | In-Wall, Dipole Surround   | 12                        | (2)3½                     | Cones         | (2)1                     | Domes        |  | 125-20                                       | 88                      | 100  | 4/                        | 12 x 25 x 3                      | Opt.                                 | Bik. Knit  | 24                        | 1399.00 Each      |                      |
|                  | HCC 800   | THX; In-Wall, Subwoof.   |                           |                           |               |                          |              |  | 20-80  | 89                      | 100  | 8/                        | 53 x 14 x 7                      | Bik.                                 | Bik. Knit  | 80                        | 799.00 Each       |                      |
|                  | LCR 1800  | In-Wall, Ctr. Ch.  | (2)6½                     |                           | (2)¾          | Domes                    | T            |  | 80-20  | 89                      | 100  | 4/                        | 12 x 22 x 3                      | Mtl.                                 | Bik. Knit  | 26                        | 1099.00 Each      |                      |
|                  | HCC 1800  | Ac. Sus.   | (2)8                      |                           | (2)1          | Domes                    | T            |  | 80-20  | 93                      | 100  | 2k                        | 25 x 11 x 10                     | Bik. Ven.                            | Bik. Knit  | 45                        | 1499.00 Each      |                      |
| SUB 1800         | THX; Subwoof.   | 18   |                           | (2)1                      | Domes         | T                        |              | 17-80  | 90   | 100                     | 8/   | 45 x 21 x 16              | Bik. Ven.                        | Bik. Knit                            | 120        | 2499.00 Each              |                   |                      |
| SOLO             | H100  | Bass Ref.  | (4)10                     | 2                         | Horn          | (2)1                     | Domes        | M  | 23-20 ±3                                     | 91                      | 30   | 750,14k                   | 4/3                              | 14 x 20 x 78                         | Wal.       | Brn. Knit                 | 290               | 10,000. Pair         |
|                  | H500SE  | Bass Ref.  | (2)8                      | 2                         | Horn          | 1                        | Dome         | M  | 45-27 ±3                                     | 96                      | 30   | 1k,14k                    | 4/3                              | 25 x 19 x 18                         | Wal.       | Brn. Knit                 | 90                | 3780.00 Pair         |
|                  | H800  | Bass Ref.  | (2)6½                     | (2)6½                     | Cones         | 2                        | Horn         | T  | 27-16 ±3                                     | 91                      | 30   | 1.5k                      | 4/3                              | 10 x 18 x 48                         | Wal.       | Brn. Knit                 | 90                | 2980.00 Pair         |
| SONANCE          | S45   | In-Wall, Inf. Baf.   | 8¼                        |                           |               | 1                        | Dome         | T  | 35-22 ±2                                     | 90                      | 5  | 2.7k                      | 8/6                              | 16 x 12 x 3                          | Wht.       | Opt., Wht.                | 11                | 695.00 Pair          |
|                  | S40   | In-Wall; Inf. Baf.   | 8                         |                           |               | 1                        | Dome         | T  | 40-20 ±3                                     | 89                      | 5  | 2.8k                      | 8/8                              | 16 x 12 x 3                          | Wht.       | Opt., Wht.                | 10                | 525.00 Pair          |
|                  | D6000   | In-Wall; Inf. Baf.   | 8                         | 2½                        | Cone          | ¾                        | Dome         | W,M,T  | 33-21 ±2                                     | 91                      | 5  | 175,1.2k, 5k              | 6/4                              | 16 x 10 x 3                          | Wht.       | Opt., Wht.                | 13                |                      |
|                  | D5500   | In-Wall; Inf. Baf.   | 8                         | 2½                        | Cone          | ¾                        | Dome         | W,M,T  | 39-20 ±3                                     | 90                      | 5  | 175,1.5k, 5.5k            | 6/4                              | 16 x 10 x 3                          | Wht.       | Opt., Wht.                | 11                |                      |
|                  | D5000   | In-Wall; Inf. Baf.   | 8                         | 2½                        | Cone          | ¾                        | Dome         | W,M,T  | 45-20 ±3                                     | 90                      | 5  | 1.5k,6k                   | 8/6                              | 16 x 10 x 3                          | Wht.       | Opt., Wht.                | 11                |                      |
|                  | S3500   | In-Wall; Inf. Baf.   | 6½                        |                           |               | 1                        | Dome         | W,T  | 45-20 ±2                                     | 90.5                    | 5  | 175,3k                    | Sel.                             | 12 x 8 x 3                           | Wht.       | Opt., Wht.                | 10                | 489.00 Pair          |
|                  | S3000   | In-Wall; Inf. Baf.   | 6½                        |                           |               | 1                        | Dome         | W,T  | 45-20 ±3                                     | 89                      | 5  | 175,3k                    | Sel.                             | 12 x 8 x 3                           | Wht.       | Opt., Wht.                | 9                 | 389.00 Pair          |
|                  | S2000   | In-Wall; Inf. Baf.   | 6½                        |                           |               | ¾                        | Dome         |  | 55-20 ±3                                     | 89                      | 5  | 3.2k                      | 8/8                              | 12 x 8 x 3                           | Wht.       | Opt., Wht.                | 8                 | 255.00 Pair          |
|                  | S1000   | In-Wall; Inf. Baf.   | 6½                        |                           |               | 2                        | Cone         |  | 70-19 ±5                                     | 90                      | 3  | 3.5k                      | 8/8                              | 12 x 8 x 3                           | Wht.       | Opt., Wht.                | 7                 | 189.00 Pair          |
|                  | M300v   | A/V; In-Wall; Inf. Baf.  | 4                         |                           |               | ½                        | Dome         |  | 65-20 ±2                                     | 88                      | 5  | 3.7k                      | 8/7                              | 9 x 6 x 3                            | Wht.       | Opt., Wht.                | 7                 | 325.00 Pair          |
|                  | M200  | In-Wall; Inf. Baf.   | 4                         |                           |               | ¾                        | Dome         |  | 70-20 ±3                                     | 87                      | 5  | 3.5k                      | 8/8                              | 9 x 6 x 2                            | Wht.       | Opt., Wht.                | 4                 | 240.00 Pair          |
|                  | M100  | In-Wall; Inf. Baf.   | 4                         |                           |               | 1                        | Whizzer      |  | 75-15 ±5                                     | 87                      | 3  |                           | 8/7                              | 9 x 6 x 2                            | Wht.       | Opt., Wht.                | 4                 | 140.00 Pair          |
|                  | PSW1  | In-Wall; Subwoof.  | 8¼                        |                           |               |                          |              |  | 30-125 ±3                                    | 87                      | (2)25  | 125                       | 8/4                              | 16 x 12 x 3                          | Wht.       | Opt., Wht.                | 12                | 329.00 Each          |
|                  | PSW2  | In-Wall; Subwoof.  | 8¼                        |                           |               |                          |              |  | 30-125 ±3                                    | 87                      | (2)25  | 125                       | 8/4                              | 16 x 12 x 3                          | Wht.       | Opt., Wht.                | 14                | 435.00 Each          |
|                  | ASW1S   | In-Wall; Subwoof.  | 8¼                        |                           |               |                          |              |  | 28-100                                       | 92                      |  | 50/75/100 (Sel.)          | 8/8                              | 16 x 12 x 3                          | Wht.       | Opt., Wht.                | 15                | 260.00 Each          |
|                  | SF400   | On-Wall; Vented  | (2)4                      |                           |               | 1                        | Dome         |  | 60-20 ±2.5                                   | 89                      | 5  | 2.9k                      | 8/6                              | 14 x 18 x 3                          | Wht.       | Opt., Wht.                | 14                | 499.00 Pair          |
|                  | SB31  | Outdoor, Sealed  | 4                         |                           |               | 1                        | Dome         |  | 75-20 ±3                                     | 87                      | 5  | 3.5k                      | 6/3                              | 9 x 5 x 6                            | Opt.       | Opt.                      | 9                 | 325.00 Pair          |
|                  | SB21  | Outdoor, Sealed  | 4                         |                           |               | ¾                        | Dome         |  | 80-20 ±3                                     | 86                      | 5  | 3.1k                      | 5/4                              | 9 x 5 x 6                            | Opt.       | Opt.                      | 8                 |                      |
|                  | SB11  | Outdoor, Sealed  | 4                         |                           |               | 1                        | Whizzer      |  | 90-15 ±5                                     | 85                      | 3  |                           | 8/7                              | 9 x 5 x 6                            | Opt.       | Opt.                      | 9                 | 179.00 Pair          |
|                  | MB30  | Outdoor, Sealed  | 6½                        |                           |               | 1                        | Dome         |  | 60-20 ±3                                     | 91                      | 5  | 3.2k                      | 8/6                              | 13 x 8 x 9                           | Opt.       | Opt.                      | 21                | 499.00 Pair          |
|                  | MB20  | Outdoor, Sealed  | 6½                        |                           |               | ¾                        | Dome         |  | 65-20 ±3                                     | 89                      | 5  | 3k                        | 8/6                              | 13 x 8 x 9                           | Opt.       | Opt.                      | 16                | 399.00 Pair          |
|                  | M20R  | Coaxial; In-Wall; Int. Baf.  | 4                         |                           |               | ¾                        | Dome         |  | 70-20 ±3                                     | 87                      | 5  | 3.5k                      | 8/6                              | 7 Dia. x 3                           | Wht.       | Opt.                      | 5                 |                      |
| M10R             | In-Wall; Inf. Baf.  | 4  |                           |                           | 1             | Whizzer                  |              | 75-15 ±5   | 87   | 3                       |  | 8/7                       | 7 Dia. x 3                       | Wht.                                 | Opt.       | 4                         | 120.00 Pair       |                      |
| S1R              | Coaxial; In-Wall; Inf. Baf.   | 6¼   |                           |                           | 2             | Cone                     |              | 70-19 ±5   | 90   | 3                       | 3.5k   | 8/8                       | 10 Dia. x 3                      | Wht.                                 | Opt.       | 8                         |                   |                      |
| S2R              | Coaxial; In-Wall; Inf. Baf.   | 6½   |                           |                           | ¾             | Dome                     |              | 50-20 ±3   | 89   | 5                       | 3.2k   | 8/8                       | 10 Dia. x 3                      | Wht.                                 | Opt., Wht. | 9                         | 425.00 Pair       |                      |

(Continued)



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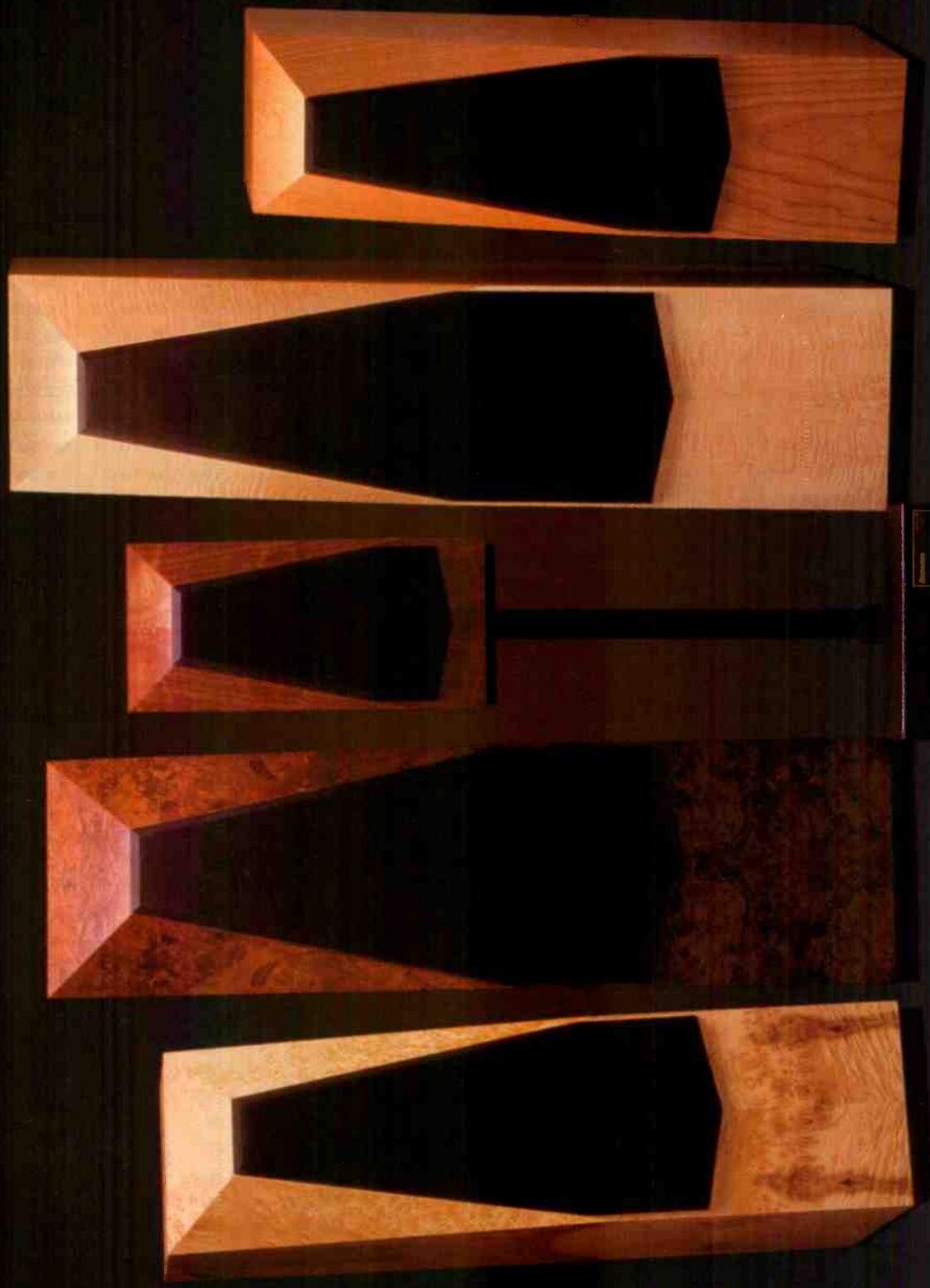
**Westlake  
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**Manufacturing Group**

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**805-499-3686 Fax 805-498-2571**

# LOUDSPEAKERS

| MANUFACTURER        | Model                                   | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer=W, Midrange=M, Tweeter=T, Super Tweeter=ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz   | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish             | Grille Color and Material | Weight, Lbs. Each | Price, \$               |
|---------------------|---|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|-----------------------------|----------------------------------|--------------------------------------|--------------------|---------------------------|-------------------|-------------------------|
| SONANCE (Continued) | S3R                                     | Coaxial; In-Wall; Inf. Baf.                             | 6½                      |                           |               | 1                        | Dome         | W  | 45-20 ±3                                    | 89                      | 5  | 177.3k                      | 6/4                              | 10 Dia. x 3                          | Wht.               | Opt., Wht.                | 9                 | 285.00 Pair             |
|                     | AIS500                                  | In-Wall, Ambient  | 4                       | 3½                        | Cone          | ¾                        | Dome         |  | 60-20 ±5                                    | 89                      | 5  | 3.5k                        | 6/4                              | 16 x 12 x 3                          | Wht.               | Opt., Wht. Blk.           | 9                 | 499.00 Pair             |
|                     | Dir20                                   | Home Th., Coaxial                                       | 6½                      |                           |               | 1                        | Dome         |  | 70-20 ±3                                    | 87                      | 5  | 2.9k                        | 4/4                              | 15 x 9 x 11                          | Blk. Vnl.          | Wht. Blk. Cloth           | 19                |                         |
|                     | DL10                                    | Powered Subwoof.  | 10                      |                           |               |                          |              | W  | 30-150 ±3                                   |                         | 50 Inc. 100 Inc.                             | 40-150 (Adj.) 40-150 (Adj.) |                                  | 14 x 12 x 11                         | Blk. Vnl.          | Blk. Blk. Cloth           |                   | 549.00 Each             |
|                     | DL15                                    | Powered Subwoof.  | 15                      |                           |               |                          |              | W  | 24-150 ±3                                   |                         |  |                             |                                  | 21 x 17 x 19                         | Blk. Vnl.          | Blk. Blk. Cloth           |                   | 899.00 Each             |
| SONY                | SS-EX3                                  | A/V; Sealed   | 5                       |                           |               | 1                        | Dome         |  | 70-20 ±3                                    | 87                      | 10   | 4k                          | 8/5                              | 7 x 10 x 8                           | Blk. Vnl.          | Blk. Knit                 | 9                 | 175.00 Pair             |
|                     | SS-EX5                                  | Sealed  | 8                       |                           |               | ¾                        | Dome         |  | 50-20                                       | 90                      | 10   | 3.5k                        | 8/5                              | 11 x 18 x 10                         | Blk. Vnl.          | Blk. Knit                 | 14                | 225.00 Pair             |
|                     | SS-U310                                 | Sealed  | 6                       |                           |               | 1                        |              |  |   |                         |  |                             | 8/5                              | 10 x 16 x 10                         | Oak Vnl.           | Blk. Knit                 | 25                | 140.00 Pair             |
|                     | SS-U610                                 | Sealed  | 12                      | 5                         | Cone          | 1                        |              |  |   |                         |  |                             | 8/5                              | 16 x 30 x 11                         | Oak Vnl. Blk. Oak  | Blk. Knit                 | 66                | 280.00 Pair             |
|                     | SS-TL4                                  | Trans. Line   | 6½                      | 4                         | Cone          | 1                        |              |  |   |                         |  |                             | 8/5                              |                                      | Blk. Oak Vnl. Blk. | Blk. Knit                 |                   | 480.00 Pair             |
|                     | SA-VA1 (w/ Dolby Pro Logic & remote)    | Home Th.; Powered; 2 Main & 2 Srrnd.                    | 5                       | 4                         | Cone          | 2                        | Cone         | W  |   |                         |  | Inc.                        |                                  | Four Pieces                          | Blk.               | Blk. Knit                 |                   | 599.00 Sys.             |
|                     | SA-VA3 (w/ Dolby Pro Logic & remote)    | Home Th.; Powered; 2 Main & 2 Srrnd.                    | 6½                      | 5                         | Cone          | 2                        | Cone         | W  |   |                         |  | Inc.                        |                                  | Four Pieces                          | Blk.               | Blk. Knit                 | 125 Sys.          | 799.00 Sys.             |
| SS-CR300            | Home Th., Ac. Sus.; Ctr. Ch. & 2 Srrnd. |   | (4)5                    | Cones                     |               |                          |              |  |   |                         |  |                             | Three Pieces                     | Blk.                                 |                    | 18 Sys.                   | 160.00 Sys.       |                         |
| SS-CR600            | Home Th.; Ctr. Ch. & 2 Srrnd.           | (2)5  |                         |                           |               | 1                        |              |  |   |                         |  |                             | Three Pieces                     | Blk.                                 |                    |                           | 329.00 Sys.       |                         |
| SS-CN200AV          | A/V; Ctr. Ch.                           | (2)5  |                         |                           |               | 1                        |              |  |   |                         |  |                             | 17 x 7 x 8                       | Blk.                                 |                    |                           | 13                | 229.00 Each             |
| SS-CN3              | A/V; Bass Ref.; Ctr. Ch.                | (2)4  |                         |                           |               | 1                        |              |  |   |                         |  |                             | 19 x 6 x 7                       | Blk.                                 |                    |                           | 9                 | 280.00 Each             |
| SONY ES             | SS-M3                                   | Sealed  | 6½                      |                           |               | 1                        | Dome         |  | 70-20 ±3                                    | 85                      | 15   | 2k                          | 8/5.5                            | 18 x 12 x 12                         | Cherry             | Blk. Knit                 | 27                | 900.00 Pair             |
|                     | SS-M7                                   | Sealed  | 8                       | 4½                        | Cone          | 1                        | Dome         |  | 47-20 ±3                                    | 86                      | 15   | 400.4k                      | 8/5.5                            | 29 x 16 x 15                         | Cherry             | Blk. Knit                 | 53                | 1400.00 Pair            |
| SOTA                | Time Domain 1                           |   | 7                       |                           |               | 1                        | Inv. Dome    |  | 40-22 ±3                                    | 89                      | 50   | 2.5k                        | 8/4                              | 32 x 12 x 16                         | Oak                | Blk.                      | 55                | 1595.00 Pair            |
|                     | Time Domain Panorama                    |   | 7                       |                           |               | 1                        | Inv. Dome    |  | 60-22 ±3                                    | 89                      | 50   | 2.5k                        | 8/4                              | 16 x 12 x 12                         | Oak                | Foam Blk.                 | 32                | 2095.00 Pair            |
|                     | Time Domain 2                           |   | 8                       | 7                         | Cone          | 1                        | Inv. Dome    |  | 37-22 ±3                                    | 89                      | 50   | 125.2.5k                    | 8/4                              | 40 x 14 x 16                         | Oak                | Foam Blk.                 | 80                | 2795.00 Pair            |
|                     | Time Domain 4                           | Sat. & Subwoof.   | 8                       | 7                         | Cone          | 1                        | Inv. Dome    |  | 40-22 ±3                                    | 89                      | 50   | 125.2.5k                    | 8/4                              | Two Pieces Per Side                  | Oak                | Foam Blk. Foam            | 97 Side           | 3995.00 Sys.            |
| SOUND DYNAMICS      | R-818                                   | Bass Ref.   | (2)8½                   |                           |               | 1                        | Dome         |  | 34-20 ±3                                    | 90                      | 40   | 2.2k                        | 8/6                              | 43 x 10 x 14                         | Blk. Ash           | Blk.                      |                   | 700.00 Pair             |
|                     | R-616                                   | Bass Ref.   | (2)6½                   |                           |               | 1                        | Dome         |  | 39-20 ±3                                    | 89                      | 40   | 2.2k                        | 8/6                              | 39 x 9 x 11                          | Blk. Ash           | Blk.                      |                   | 550.00 Pair             |
|                     | R-515                                   | Bass Ref.   | (2)5¼                   |                           |               | 1                        | Dome         |  | 45-20 ±3                                    | 89                      | 40   | 2.2k                        | 8/6                              | 32 x 8 x 9                           | Blk. Ash           | Blk.                      |                   | 450.00 Pair             |
|                     | R-85                                    | Bass Ref.   | 8                       |                           |               | ¾                        | Dome         |  | 45-20 ±3                                    | 89                      | 30   | 2.2k                        | 6/4                              | 19 x 10 x 10                         | Blk. Ash           | Blk.                      |                   | 280.00 Pair             |
|                     | R-65                                    | Bass Ref.   | 6½                      |                           |               | ½                        | Dome         |  | 48-20 ±3                                    | 87                      | 30   | 2.5k                        | 6/4                              | 13 x 8 x 10                          | Blk. Ash           | Blk.                      |                   | 200.00 Pair             |
|                     | R-55                                    | Bass Ref.   | 5¼                      |                           |               | ½                        | Dome         |  | 60-20 ±3                                    | 86                      | 30   | 3.5k                        | 6/4                              | 11 x 8 x 10                          | Blk. Ash           | Blk.                      |                   | 150.00 Pair             |
|                     | Cinesat-2                               | Bass Ref.   | 4½                      |                           |               | ½                        | Dome         |  | 140-22 ±3                                   | 86                      | 15   | 3.5k                        | 8/6                              | 8 x 5 x 5                            | Opt. Blk.          | Opt. Blk.                 | 5                 | 249.99 Pair             |
|                     | Cinesub                                 | 4th Order Bandpass Subwoof.                             | (2)6½                   |                           |               |                          |              |  | 45-140                                      | 86                      | 15   | 140                         | 6/4                              | 13 x 7 x 16                          | Blk. Ash           | Blk.                      | 20                | 199.99 Each             |
|                     | Cinecenter A Sub-15                     | Qual Vented Powered Bass Ref.; Subwoof.                 | (2)4½                   |                           |               | ½                        | Dome         | SW   | 65-20 20-150                                | 90                      | 15 180 Inc 90                                | 2.5k Var.                   | 12/8                             | 6 x 20 x 8 19 x 20 x 20              | Blk. Ash Blk. Ash  | Blk. Blk.                 | 15 68             | 149.99 Each 900.00 Each |
|                     | A Sub-12                                | Powered Subwoof.  | 12                      |                           |               |                          | W            |  | 23-150                                      |                         |  | Var.                        |                                  | 17 x 18 x 20                         | Blk. Ash           | Blk.                      |                   | 500.00 Each             |
| 65 S                | Bass Ref.                               | (2)12   | 4½                      | Cone                      | ½             | Dome                     |              | 30-20  | 94  | 30                      | 800.3.5k                                     | 8/4                         | 42 x 14 x 11                     | Blk. Ash                             | Blk. Blk.          | 49                        | 600.00 Pair       |                         |
| 45 S                | Bass Ref.                               | 12  | 4½                      | Cone                      | ½             | Dome                     |              | 35-20  | 94  | 30                      | 800.3.5k                                     | 8/4                         | 32 x 14 x 11                     | Blk. Ash                             | Blk. Blk.          | 33                        | 500.00 Pair       |                         |
| SOUND LAB           | Dynastat                                | ES & Dynamic Hybrid                                     | 10½                     |                           |               | 48x10                    | ES           | W,T  | 28-22 ±2                                    | 88                      | 50   | 250                         | 8/4                              | 72 x 17 x 3                          | Opt., Wood         | Opt., Wood                | 75                | 3390.00 Pair            |
|                     | A-1                                     | ES  |                         |                           |               |                          |              | W,M,T  | 30-22 ±2                                    | 86                      | 100  |                             | 8/3                              | 81 x 35 x 11                         | Opt., Wood         | Opt., Wood                | 185               | 13,250. Pair            |
|                     | Pristine A-3                            | ES  |                         |                           |               |                          |              | W,M,T  | 34-22 ±2                                    | 86                      | 100  |                             | 8/4                              | 60 x 28 x 27                         | Opt., Wood         | Opt., Wood                | 100               | 5950.00 Pair            |
|                     | A-3                                     | ES  |                         |                           |               |                          |              | W,M,T  | 32-22 ±2                                    | 86                      | 100  |                             | 8/4                              | 73 x 35 x 11                         | Opt., Wood         | Opt., Wood                | 145               | 9650.00 Pair            |
|                     | Ultimate 2                              | ES  |                         |                           |               |                          |              | W,M,T  | 28-22 ±2                                    | 86                      | 100  |                             | 8/4                              | 70 x 29 x 7                          | Opt., Wood         | Opt., Wood                | 150               | 10,950. Pair            |
| Ultimate 1          | ES                                      |   |                         |                           |               |                          | W,M,T        | 25-22 ±2   | 86  | 100                     |  | 50/3                        | 82 x 37 x 27                     | Opt., Wood                           | Opt., Wood         | 210                       | 20,750. Pair      |                         |
| SOUNDOLIER          | ThundraPro 1                            | Subwoof.  | (2)8                    |                           |               |                          |              |  | 38-500 ±5                                   | 90                      | 10   |                             | 8/4                              | 25 x 11 x 15                         | Opt., Gloss        | Opt., Knit                | 32                | 498.75 Each             |
|                     | ThundraPro 2                            | In-Ceiling/In-Floor; Subwoof.                           | (2)8                    |                           |               |                          |              |  | 40-170                                      | 96                      | 10   |                             | 8/4                              | 11 x 14 x 22                         | Opt., Gloss        | Opt., Knit                | 32                | 498.75 Each             |
|                     | ThundraPro 3                            | In-Wall; Subwoof.                                       | 8                       |                           |               |                          |              |  | 45-500 ±5                                   | 89                      | 10   |                             | 8/7                              | 15 x 11 x 3                          | Wht.               | Wht. Mtl.                 | 5                 | 165.38 Each             |
|                     | AS83                                    | In-Wall   | 8                       | 4                         | Cone          | 1                        | Dome         | T  | 45-20 ±3                                    | 88                      | 10   | 2.2k,5k                     | 8/7                              | 15 x 11 x 3                          | Wht.               | Wht. Mtl.                 | 8                 | 448.88 Pair             |
|                     | AS80                                    | In-Wall   | 8                       |                           |               | 1                        | Dome         | T  | 50-20 ±4                                    | 88                      | 10   | 2.8k                        | 8/7                              | 15 x 11 x 3                          | Wht.               | Wht. Mtl.                 | 6                 | 274.31 Pair             |
|                     | AS62                                    | In-Wall   | 6½                      |                           |               | 1                        | Dome         | T  | 60-20 ±4                                    | 86                      | 5  | 2.5k                        | 8/7                              | 11 x 9 x 3                           | Wht.               | Wht. Mtl.                 | 5                 | 219.65 Pair             |
|                     | AS60                                    | In-Wall   | 6½                      |                           |               | 2                        | Cone         |  | 60-15 ±5                                    | 85                      | 5  | 3.4k                        | 8/7                              | 11 x 9 x 3                           | Wht.               | Wht. Mtl.                 | 3                 | 98.25 Pair              |
|                     | AS30C                                   | In-Ceiling; Ac. Sus.                                    | 6½                      |                           |               | ½                        | Dome         |  | 65-20 ±5                                    | 88                      | 10   | 4k                          | 8/7                              | 10 x 10 x 8                          | Wht.               | Blk. Mtl.                 | 3                 | 229.50 Pair             |
|                     | AS20C                                   | In-Ceiling; Ac. Sus.                                    | 6½                      |                           |               | ½                        | Dome         |  | 65-20 ±5                                    | 88                      | 10   | 4k                          | 8/7                              | 10 x 10 x 8                          | Wht.               | Wht. Mtl.                 | 3                 | 219.17 Pair             |
|                     | W150T                                   | Ac. Sus.; Sat.  | 5¼                      |                           |               | 1                        | Dome         |  | 100-20 ±2.5                                 | 87                      | 20   |                             | 8/7                              | 9 x 6 x 6                            | Opt.               | Opt. Mtl.                 | 10                | 175.31 Each             |
|                     | W130T                                   | Sat.  | 4                       |                           |               | 1                        | Dome         |  | 110-20 ±3                                   | 85                      | 10   |                             | 8/7                              | 7 x 5 x 4                            | Opt.               | Opt. Mtl.                 | 6                 | 107.08 Each             |
|                     | W115T                                   | Sat.  | 4                       |                           |               | 1                        | Cone         |  | 140-14.3                                    | 85                      | 10   |                             | 8/7                              | 7 x 5 x 4                            | Opt.               | Opt. Mtl.                 | 5                 | 58.91 Each              |
|                     | FA136                                   | In-Ceiling; Ac. Sus.                                    | 6½                      |                           |               | ½                        | Dome         |  | 65-20 ±5                                    | 88                      | 10   | 4k                          | 8/7                              | 10 x 10 x 8                          | Wht.               | Wht. Mtl.                 | 3                 | 34.24 Each              |
|                     | SOUNDS EXCLUSIVE                        | R45   | Vented                  | (2)5                      | (2)5          | Cones                    | 1            | Dome   |   | 40-25 ±3                | 90   | 60                          | 300.3.5k                         | 8/6                                  | 8 x 12 x 44        | Opt.                      | Blk. Knit         | 70                      |
| R26                 |   | Vented  | (2)6½                   |                           |               | 1                        | Dome         |  | 45-25 ±3                                    | 90                      | 40   | 3k                          | 4/3.2                            | 9 x 11 x 40                          | Opt.               | Blk. Knit                 | 50                | 2595.00 Pair            |
| R16                 |   | Vented  | 6½                      |                           |               | 1                        | Dome         |  | 50-25 ±3                                    | 86                      | 30   | 3k                          | 8/6                              | 9 x 11 x 19                          | Opt.               | Blk. Knit                 | 25                | 1295.00 Pair            |
| SOUNDWAVE           | Point Source 4.0                        | Inf. Baf.   | (4)8                    |                           |               | (2)1                     | Domes        |  | 29-20 ±3                                    | 90                      | 60   | 100.2k                      | 5/3.5                            | 14 x 17 x 44                         | Blk. Acryl.        | Blk. Knit                 | 87                | 3600.00 Pair            |
|                     | Point Source 3.0                        | Inf. Baf.   | (2)8                    |                           |               | (2)1                     | Domes        |  | 35-20 ±3                                    | 90                      | 50   | 2k                          | 5/5                              | 12 x 17 x 42                         | Blk. Acryl.        | Blk. Knit                 | 57                | 2500.00 Pair            |
|                     | Point Source 2.0                        | Inf. Baf.   | (2)8                    |                           |               | 1                        | Dome         |  | 39-20 ±3                                    | 90                      | 40   | 2k                          | 5/5                              | 12 x 17 x 40                         | Blk. Acryl.        | Blk. Knit                 | 52                | 1890.00 Pair            |
|                     | Point Source 1.0                        | Inf. Baf.   | (2)8                    |                           |               | 1                        | Dome         |  | 47-30 ±3                                    | 90                      | 30   | 2k                          | 5/5                              | 12 x 17 x 21                         | Blk. Acryl.        | Blk. Knit                 | 37                | 1390.00 Pair            |



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# LOUDSPEAKERS

| MANUFACTURER                  | Model                   | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls: Woofer=M, Midrange=Mf, Tweeter=T, SuperTweeter=ST | Acoustic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance Ohms: Normal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish               | Grille Color and Material | Weight, Lbs. Each | Price, \$                |
|-------------------------------|-------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|--------------------------------|--------------------------------------|----------------------|---------------------------|-------------------|--------------------------|
| SDOUNDWAVE (Continued)        | VR-3                    | Inf. Baf.   | (2)8                    |                           |               | (2)1                     | Domes        |  | 32-21 ±3                                    | 90                      | 50   | 2.5k                      | 8/5                            | 10 x 11 x 40                         | Blk. Acryl.          | Blk. Knit                 | 52                | 1590.00 Pair             |
|                               | VR-2                    | Inf. Baf.   | (2)8                    |                           |               | 1                        | Dome         |  | 37-21 ±3                                    | 90                      | 40   | 2.5k                      | 8/5                            | 10 x 11 x 38                         | Blk. Acryl.          | Blk. Knit                 | 47                | 1290.00 Pair             |
|                               | VR-1                    | Inf. Baf.   | 8                       |                           |               | 1                        | Dome         |  | 42-20 ±3                                    | 88                      | 30   | 2.5k                      | 8/5                            | 10 x 11 x 35                         | Blk. Acryl.          | Blk. Knit                 | 37                | 890.00 Pair              |
|                               | Dialogue Center Channel | Inf. Baf.; Ctr. Ch.                                     | 8                       |                           |               | 1                        | Dome         |  | 50-20 ±3                                    | 88                      | 30   | 2.5k                      | 8/5                            | 9 x 21 x 11                          | Blk. Acryl.          | Blk. Knit                 | 30                | 550.00 Each              |
| SOURCE TECH-NOLOGIES          | ESC CC-3                | Vented; Ctr. Ch.  | (2)5                    |                           |               | ¾                        | Dome         | T  | 50-20 ±2                                    | 91                      | 10   | 2.5k                      | 5/4                            | 19 x 7 x 11                          | Gloss Blk.           | Blk. Knit                 | 21                | 449.00 Each              |
|                               | RC-2                    | Vented; Rear Ch.  | 6                       | 4                         | Cone          | 1                        | Dome         | T  | 60-12 ±2                                    | 90                      | 10   | 300,3k                    | 8/6                            | 42 x 7 x 7                           | Gloss Blk.           | Blk. Knit                 | 42                | 595.00 Pair              |
|                               | RC-3 ERC                | Vented; Rear Ch.  | (2)6                    | (2)4                      | Cones         | 1                        | Dome         | T  | 45-12 ±2                                    | 91                      | 10   | 300,3k                    | 5/4                            | 42 x 7 x 9                           | Gloss Blk.           | Blk. Knit                 | 52                | 795.00 Pair              |
|                               | FC 2-288                | Vented  | (2)8                    |                           |               | 1                        | Dome         | T  | 40-20 ±2                                    | 91                      | 20   | 250,2k                    | 6/5                            | 38 x 11 x 11                         | Gloss Blk.           | Blk. Knit                 | 54                | 749.00 Pair              |
|                               | EST.6                   | Vented  | 6                       |                           |               | (2)1                     | Domes        | T  | 45-19 ±2                                    | 89                      | 20   | 2.2k                      | 8/6                            | 34 x 8 x 8                           | Gloss Blk.           | Blk. Knit                 | 42                | 595.00 Pair              |
|                               | EST 1                   | Vented  | 8                       |                           |               | (2)1                     | Domes        | T  | 40-20 ±2                                    | 90                      | 30   | 1.7k                      | 8/6                            | 34 x 14 x 11                         | Gloss Blk.           | Blk. Knit                 | 69                | 795.00 Pair              |
|                               | EST 2                   | Vented  | 10                      | 6                         | Cone          | (2)1                     | Domes        | T  | 30-20 ±2                                    | 89                      | 50   | 200,2.5k                  | 8/6                            | 41 x 15 x 11                         | Gloss Blk.           | Blk. Knit                 | 86                | 1695.00 Pair             |
|                               | ST-3                    | Vented  | 8                       |                           |               | 1                        | Dome         |  | 45-20 ±2                                    | 89                      | 50   | 1.8k                      | 8/6                            | 19 x 12 x 9                          | Gloss Blk.           | Blk. Knit                 | 32                | 1495.00 Pair             |
|                               | ST-4                    | Vented  | 8                       |                           |               | 1                        | Dome         |  | 30-20 ±2                                    | 89                      | 50   | 1.7k                      | 8/6                            | 38 x 11 x 14                         | Gloss Blk.           | Blk. Knit                 | 74                | 1995.00 Pair             |
|                               | Mini 1.0 FC             | Inf. Baf.   | 4                       |                           |               | ½                        | Dome         |  | 90-18 ±3                                    | 88                      | 10   | 3k                        | 8/6                            | 9 x 5 x 5                            | Gloss Blk.           | Blk. Knit                 | 9                 | 99.00 Pair               |
|                               | SW.6                    | Bandpass Subwoof.                                       | (2)5                    |                           |               |                          |              |  | 35-90 ±3                                    | 88                      | 20   | 90                        | 8/6                            | 21 x 7 x 12                          | Gloss Blk.           | Blk. Knit                 | 28                | 349.00 Each              |
|                               | CC-1                    | Vented; Ctr. Ch.  | (2)4                    |                           |               | ¾                        | Dome         |  | 60-20 ±3                                    | 89                      | 10   | 2.7k                      | 5/4                            | 18 x 6 x 8                           | Gloss Blk.           | Blk. Knit                 | 14                | 249.00 Each              |
|                               | RC-1                    | Sealed; Rear Ch.  | (2)4                    |                           |               | 3                        | Cone         | T  | 100-10 ±3                                   | 89                      | 10   | 3k                        | 16/4                           | 10 x 6 x 5                           | Gloss Blk.           | Blk. Knit                 | 8                 | 349.00 Pair              |
| CC-2                          | Vented; Ctr. Ch.        | (2)5  |                         |                           | ¾             | Dome                     | T            | 60-20 ±2   | 91  | 10                      | 2.5k   | 5/4                       | 19 x 7 x 11                    | Gloss Blk.                           | Blk. Knit            | 16                        | 395.00 Each       |                          |
| SPEAKER ART                   | Proclaim II             | Vented  | 8¾                      |                           |               | 1½                       | Dome         |  | 28-21 ±3                                    | 90                      | 100  | 1.2k                      | 8/4                            | 12 x 14 x 42                         | Resin Opt., Wood Dak | Foam Blk.                 | 100               | 10,000.00 Pair           |
|                               | Dodyssey                | Vented  | 8¾                      |                           |               | 1½                       | Dome         |  | 34-21 ±3                                    | 90                      | 100  | 1.2k                      | 8/4                            | 12 x 14 x 27                         | Resin Opt., Wood Dak | Foam Blk.                 | 50                | 7500.00 Pair             |
|                               | Clef II                 | Vented  | 8¾                      |                           |               | 1                        | Dome         |  | 30-21 ±3                                    | 88                      | 100  | 1.7k                      | 8/6                            | 11 x 13 x 21                         | Oak                  | Nylon Blk.                | 45                | 1200.00 Pair             |
|                               | Concept                 | Sealed  | 8¾                      |                           |               | 1                        | Dome         |  | 37-21 ±3                                    | 90                      | 100  | 1.7k                      | 8/6                            | 11 x 13 x 21                         | Oak                  | Nylon Blk.                | 45                | 1050.00 Pair             |
| SPEAKERLAB                    | SL2                     | Bass Ref.   | 5                       |                           |               | ¾                        | Dome         |  | 50-20 ±3                                    | 88                      | 10   | 2.5k                      | 8/6                            | 13 x 7 x 9                           | Dak                  | Blk. Knit                 | 13                | 239.00 Pair; Kit, 189.00 |
|                               | SL3                     | Bass Ref.   | 6½                      |                           |               | ¾                        | Dome         |  | 42-21 ±3                                    | 89                      | 10   | 2.5k                      | 8/6                            | 18 x 9 x 10                          | Oak                  | Blk. Knit                 | 21                | 389.00 Pair; Kit, 289.00 |
|                               | SL4                     | Bass Ref.   | (2)6½                   |                           |               | 1                        | Dome         |  | 35-21 ±3                                    | 91                      | 10   | 2.5k                      | 4/3                            | 32 x 10 x 12                         | Oak                  | Blk. Knit                 | 42                | 539.00 Pair; Kit, 449.00 |
|                               | SL5                     | Bass Ref.   | 8                       | 6½                        | Cone          | 1                        | Dome         |  | 34-21 ±3                                    | 92                      | 20   | 180,2.5k                  | 8/6                            | 37 x 12 x 13                         | Oak                  | Blk. Knit                 | 56                | 659.00 Pair; Kit, 569.00 |
|                               | SL7                     | Bass Ref.   | 12,10                   | 6½                        | Cone          | 1                        | Dome         |  | 25-20 ±3                                    | 94                      | 20   | 350,5k                    | 4/3                            | 39 x 14 x 16                         | Oak                  | Blk. Knit                 | 82                | 999.00 Pair; Kit, 799.00 |
|                               | SLC                     | Ctr. Ch.  | (2)6½                   |                           |               | ¾                        | Dome         |  | 42-21 ±3                                    | 89                      | 10   | 3k                        | 4/3                            | 23 x 8 x 10                          | Oak                  | Blk. Knit                 | 25                | 249.00 Each; Kit, 219.00 |
|                               | SL/SW                   | Bass Ref., Subwoof.                                     | (10)                    |                           |               |                          |              |  | 35-160 ±3                                   | 91                      | 10   | 150                       | 8/7                            | 14 x 23 x 16                         | Oak                  | Blk. Knit                 | 43                | 329.00 Each; Kit, 219.00 |
| SPECO                         | BAS-100/WAS-100         | Powered   | 4                       |                           |               | 1                        | Dome         | W,T  | 55-20 ±3                                    | 90                      | 15   |                           | 8/                             | 7 x 5 x 5                            | ABS                  | Opt.                      | 8                 | 135.00 Pair              |
|                               | DMS-2                   |   | 3                       |                           |               | 2                        | Cone         |  | 60-20 ±3                                    | 90                      | 20   |                           | 8/                             | 6 x 4 x 4                            | ABS                  | Blk. Opt.                 |                   | 57.95 Pair               |
|                               | DMS-3                   |   | 4                       | 2                         | Cone          | 1                        | Dome         |  | 55-20 ±3                                    | 90                      | 30   |                           | 8/                             | 8 x 5 x 5                            | Alum.                | Opt.                      |                   | 99.95 Pair               |
|                               | DMS-3P                  | Outdoor   | 4                       | 2                         | Cone          | 1                        | Dome         |  | 55-20 ±3                                    | 90                      | 30   |                           | 8/                             | 8 x 5 x 5                            | Alum.                | Opt.                      |                   | 104.95 Pair              |
|                               | DMS-6                   |   | 5                       | 2                         | Cone          | 1                        | Dome         |  | 55-20                                       | 90                      | 40   |                           | 8/                             | 9 x 7 x 6                            | Plast.               | Blk.                      | 5                 | 134.95 Pair              |
| SPECTRUM AUDIO                | 106cd                   | Bass Ref.   | 6½                      |                           |               | ¾                        | Dome         |  | 55-21 ±3                                    | 90                      | 25   | 3.5k                      | 8/6                            | 9 x 8 x 13                           | Blk. Vnl.            | Blk. Knit                 | 10                | 249.00 Pair              |
|                               | 108cd                   | Coaxial; Bass Ref.                                      | 8                       |                           |               | ¾                        | Dome         |  | 49-21 ±3                                    | 91                      | 30   | 3.5k                      | 8/5                            | 16 x 11 x 10                         | Opt.                 | Blk. Knit                 | 19                | 399.00 Pair              |
|                               | 208cd                   | Coaxial; Bass Ref.                                      | 8                       |                           |               | ¾                        | Dome         |  | 29-21 ±3                                    | 90                      | 30   | 2.8k                      | 8/5                            | 36 x 11 x 12                         | Opt.                 | Blk. Knit                 | 55                | 599.00 Pair              |
|                               | Mini-Monitor 1000       | Bass Ref.   | 5¼                      |                           |               | 1                        | Dome         |  | 45-23.5 ±3                                  | 87                      | 50   | 1.9k                      | 8/4                            | 17 x 12 x 8                          | Opt.                 | Marble Blk.               | 18                | 1995.00 Pair             |
|                               | Ultra-Monitor           | Ac. Sus.; Bass Ref.                                     | (2)8                    | 3                         | Dome          | 1                        | Dome         |  | 25-23.5 ±3                                  | 91                      | 50   | 200,800,5k                | 4/3                            | 47 x 16 x 12                         | Opt.                 | Blk. Knit                 | 95                | 2495.00 Pair             |
|                               | Bass Ref.               | 8   | 3                       | Dome                      | 1             | Dome                     |              | 29-24 ±2   | 88  | 50                      | 850,4.5k                                     | 8/5                       | 46 x 15 x 15                   | Opt.                                 | Blk. Knit            | 120                       | 3995.00 Pair      |                          |
| SPHERIC AUDIO                 | 18K                     | Ported  | 8                       | 4                         | Dome          | 1                        | Dome         | M,T  | 31-30 ±4                                    | 88                      | 25   | 800,4.5k                  | 8/4                            | 10 x 37                              | Opt.                 | Opt.                      | 26                | 199.99 Each              |
|                               | 25K                     | Ported  | 10                      | 4                         | Dome          | 1                        | Dome         | M,T  | 40-30 ±4                                    | 89                      | 40   | 800,4.5k                  | 8/4                            | 12 x 37                              | Opt.                 | Opt.                      | 35                | 399.99 Each              |
|                               | 32K                     | Ported  | 12                      | 4                         | Dome          | 1                        | Dome         | M,T  | 19-30 ±4                                    | 89                      | 40   | 800,4.5k                  | 8/4                            | 14 x 42                              | Opt.                 | Opt.                      | 43                | 649.99 Each              |
|                               | Antares 18A             | Bass Ref.   | 8                       |                           |               | 2                        |              |  | 35-20 ±4                                    | 91                      | 20   | 3k                        | 8/4                            | 10 x 10 x 19                         | Blk.                 | Blk.                      | 23                | 124.99 Each              |
|                               | Altair 16A              | Dual-Ported Bass Ref.                                   | (2)6                    |                           |               | 1                        | Dome         | M  | 41-21 ±4                                    | 89                      | 30   | 110,1.5k                  | 8/4                            | 9 x 10 x 23                          | Blk.                 | Cloth Blk.                | 30                | 219.00 Each              |
|                               | Avior                   | Sat. & Subwoof.   | 10                      | (2)4                      |               | 1                        |              |  | 35-20 ±4                                    | 90                      | 35   | 100,2.5k                  | 8/4                            | Three Pieces                         | Blk.                 | Cloth Blk.                | 54                | 499.99 Sys.              |
|                               | Callistos               | Sat. & Subwoof.   | 10                      | 4                         |               | 1                        | Dome         |  | 30-23 ±4                                    | 90                      | 45   | 100,2.5k                  | 8/4                            | Three Pieces                         | Opt.                 | Cloth Blk.                | 52                | 599.99 Sys.              |
|                               | Krystal System II       | Sat. & Subwoof.   | 10                      | 4                         |               | 1                        | Dome         | M,T  | 30-20 ±4                                    | 90                      | 45   | 100,3k                    | 8/4                            | Three Pieces                         | Dpt.                 | Cloth                     | 52                | 699.99 Sys.              |
|                               | Helix                   | Ctr. Ch.  |                         | (2)4                      |               | 1                        |              |  | 50-20                                       | 90                      | 15   | 1.5k                      | 8/4                            |                                      | Blk.                 | Blk. Cloth                | 11                | 99.99 Each               |
|                               | Subwoofer               | Ported Subwoof.   | 10                      |                           |               |                          |              |  | 30-125                                      | 90                      | 40   | 100                       | 8/4                            |                                      | Opt.                 | Blk.                      | 48                | 274.99 Each              |
| SPICA                         | TC 60                   | Ported  | 6½                      |                           |               | 1                        | Dome         |  | 48-20 ±3                                    | 87                      | 30   | 2.5k                      | 8/5,6                          | 20 x 12 x 10                         |                      | Blk. Knit                 | 26                | 795.00 Pair              |
| SRD SPEAKER-WORKS (Continued) | 6.2                     | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         |  | 49-20 ±2                                    | 89                      | 10   | 3k                        | 8/                             | 16 x 10 x 8                          | Opt.                 | Blk. Knit                 | 19                | 275.00 Pair              |
|                               | 8.2                     | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 40-20 ±2                                    | 91                      | 20   | 2.5k                      | 8/                             | 19 x 12 x 11                         | Opt.                 | Blk. Knit                 | 28                | 325.00 Pair              |
|                               | 10.3                    | Bass Ref.   | 10                      |                           |               | 1                        | Dome         |  | 33-27 ±2                                    | 89                      | 20   | 750,3.5k                  | 8/                             | 25 x 15 x 12                         | Opt.                 | Blk. Knit                 | 43                | 625.00 Pair              |
|                               | VM-1                    | A/V; Bass Ref.  | (2)5¼                   | 4½                        | Cone          | 1                        | Dome         |  | 45-20 ±2                                    | 89                      | 10   | 3.5k                      | 6/                             | 8 x 18 x 11                          | Opt.                 | Blk. Knit                 | 25                | 419.00 Pair              |
|                               | VM-2                    | A/V; Ac. Sus.   | 6½                      |                           |               | 1                        | Dome         |  | 68-20 ±2                                    | 88                      | 10   | 2.5k                      | 8/                             | 16 x 10 x 8                          | Opt.                 | Blk. Knit                 | 18                | 275.00 Pair              |



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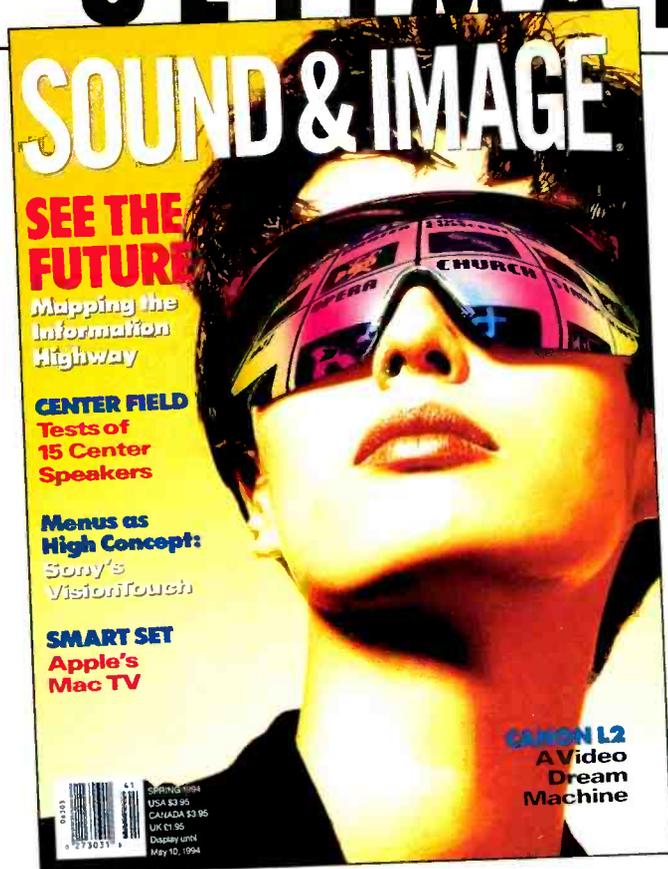
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|---|---------------------------------|---|-------------------------|------------|---------------------------|--------|--------------------------|-------|--------------|--|---|-------------------------|--|---------------------------|------------------------------------|--------------------------------------|----------------------------|---------------------------|-------------------|--------------------------------------|
|   |                                 |   |                         |            |                           |        |                          |       |              |  |   |                         |  |                           |                                    |                                      |                            |                           |                   |                                      |
| SRD<br>SPEAKER-<br>WORKS<br>(Continued) | SS-1                            | Ac. Sus.  | 5                       |            |                           |        |                          |       |              |  | 72-20 ±2                                    | 88                      | 10   | 3.5k                      | 6/                                 | 12 x 8 x 7                           | Opt.                       | Blk. Knit                 | 12                | 225.00 Pair                          |
|   | Sub 10                          | Bass Ref. Subwoof.                                      | 10                      |            |                           |        |                          |       |              |  | 45-125 ±2                                   | 89                      | 20   | 125                       | 8/                                 |                                      | Opt.                       | Blk. Knit                 | 40                | 240.00 Each                          |
|   | Sub 12                          | Ac. Sus. Subwoof.                                       | 12                      |            |                           |        |                          |       |              |  | 38-125 ±2                                   | 90                      | 20   | 125                       | 4/                                 |                                      | Opt.                       | Blk. Knit                 | 60                | 265.00 Each                          |
|   | Sat 1                           | Sat. & Subwoof.   | 10                      | 5          | Cone                      | 1      | Dome                     |       |              |  | 45-20 ±2                                    | 89                      | 20   | 125,3.5k                  | 6/                                 | Three Pieces                         | Opt.                       | Blk. Knit                 | 64                | 449.00 Sys.                          |
| DPL System 1<br>Theater                 |                                 | 5 Sats. & Subwoof.                                      | 12                      | 5          | Cone                      | 1      | Dome                     |       |              |  | 38-20 ±2                                    | 89                      | 20   | 125,3.5k                  | 6/                                 | Six Pieces                           | Opt.                       | Blk. Knit                 | 156               | 1049.00 Sys.                         |
|   | DPL System 2<br>Theater         | 5 Sats. & Subwoof.                                      | 10                      | 6½         | Cone                      | 1      | Dome                     |       |              |  | 45-20 ±2                                    | 88                      | 20   | 125,2.5k                  | 8/                                 | Six Pieces                           | Opt.                       | Blk. Knit                 | 118               | 800.00 Sys.                          |
| SRS LABS                                | ORB-1                           | Sat.  | 4½                      |            |                           |        | ½                        | Dome  |              |  | 65-22 ±3                                    | 38                      | 10   |                           |                                    | 10 x 7 x 10                          | Gray ABS                   | Blk. Mtl.                 |                   | 239.00 Pair                          |
|   | ORB-2                           | Sat.  | 4½                      |            |                           |        | ¾                        | Dome  |              |  | 55-22 ±3                                    | 39                      | 10   |                           |                                    | 10 x 7 x 10                          | Opt.                       | Blk. Mtl.                 |                   | 319.00 Pair                          |
|   | BASER-1                         | Subwoof.  | (2)8                    |            |                           |        |                          |       |              |  | 30-80                                       | 38                      | 10   |                           |                                    | 15 x 11 x 23                         | Gray                       | Blk. Fabr.                |                   | 379.00 Each                          |
| STANHOPE<br>SYSTEMS                     | KW-1                            | Ported, Push-Pull                                       | (2)8                    |            |                           |        |                          |       |              |  | 35-18 ±3                                    | 89                      | 60   | 300.1.4k                  | 4/2.5                              | 17 x 19 x 42                         | Opt.                       | Blk. Knit                 | 94                | 3200.00 Pair                         |
|   | Blazer                          | Ported  | 8                       | 5¼         | Cone                      | 1      | Dome                     |       |              |  | 38-18 ±3                                    | 87                      | 60   | 300.1.4k                  | 6/3.5                              | 10 x 21 x 14                         | Opt.                       | Blk. Knit                 | 55                | 1750.00 Pair                         |
|   | Blazer II                       | Ported  | 8                       |            |                           |        |                          |       |              |  | 40-18                                       | 37                      | 30   | 1.4k                      | 6/3.5                              | 12 x 19 x 10                         | Opt.                       | Blk. Knit                 | 30                | 950.00 Pair                          |
|   | Blazer Plus<br>LAL              | Ported  | 8<br>(2)18              | 5¼<br>10.1 | Cone<br>Horns             | 1<br>2 | Dome<br>Horn             |       |              |  | 38-18<br>40-20                              | 37<br>102               | 60<br>20                                     | 300.1.4k<br>200.1.8k      | 6/3.5<br>6/2.5                     | 12 x 10 x 32<br>26 x 33 x 56         | Opt.                       | Blk.                      | 65                | 1900.00 Pair<br>9500.00 Pair         |
| STEREO-<br>STONE                        | Sub-Rock                        | Outdoor Subwoof.  | (2)10                   |            |                           |        |                          |       |              |  | 30-180 ±0.3                                 | 91                      | 60   | 1.8k                      | 8/4                                | 22 x 20 x 19                         | Opt.,<br>Sim.<br>Rock      |                           | 60                | 699.00 Each                          |
|   | Sierra Stone                    | Outdoor   | 6½                      |            |                           |        | ½                        | Dome  |              |  | 55-20 ±3                                    | 89                      | 15   | 2.8k                      | 8/3                                | 13 x 9 x 9                           | Opt.                       |                           | 22                | 299.00 Each                          |
|   | Sierra Jr.                      | Outdoor   | 6½                      |            |                           |        | ½                        | Dome  |              |  | 55-20 ±5                                    | 88                      | 15   | 2.8k                      | 8/4                                | 13 x 9 x 9                           | Opt.                       |                           | 18                | 299.00 Pair                          |
|   | Classic Stone                   | Outdoor   | 6½                      |            |                           |        | ½                        | Dome  |              |  | 55-20 ±3                                    | 89                      | 15   | 2.8k                      | 8/3                                | 19 x 12 x 10                         | Opt.,<br>Sim.<br>Rock      |                           | 30                | 299.00 Each                          |
|   | Omni Stone                      | Outdoor   | 8                       |            |                           |        | ¾                        | Dome  |              |  | 38-20 ±3                                    |                         |  |                           | 8/3                                | 19 x 12 x 17                         | Opt.,<br>Sim.<br>Rock      |                           | 35                | 399.00 Each                          |
|   | Corner Stone                    | Outdoor   | 8                       |            |                           |        | ¾                        | Dome  |              |  | 38-20 ±3                                    |                         |  |                           | 8/3                                | 19 x 15 x 11                         | Opt.,<br>Sim.<br>Rock      |                           | 39                | 430.00 Each                          |
|   | Yosemite Stone                  | Outdoor   | 8                       |            |                           |        | ¾                        | Dome  |              |  | 38-20 ±3                                    |                         |  |                           | 8/3                                | 19 x 12 x 15                         | Opt.,<br>Sim.<br>Rock      |                           | 39                | 430.00 Each                          |
|   | Stereo Stone                    | Outdoor   | (2)8                    |            |                           |        | (2)¾                     | Domes |              |  | 38-20 ±3                                    | 91                      | 25   | 1.5k                      | 8/3                                | 23 x 20 x 19                         | Opt.,<br>Sim.<br>Rock      |                           | 55                | 650.00 Each                          |
|   | Stereo Rock                     | Outdoor   | (2)8                    |            |                           |        | (2)¾                     | Domes |              |  | 38-20 ±3                                    | 91                      | 25   | 1.5k                      | 8/3                                | 24 x 20 x 18                         | Opt.,<br>Sim.<br>Rock      |                           | 55                | 650.00 Each                          |
|   | Mirage Fountain                 | Outdoor   | (2)8                    |            |                           |        | (2)¾                     | Domes |              |  | 38-20 ±3                                    | 91                      | 25   | 1.5k                      | 8/3                                | 22 x 20 x 19                         | Opt.,<br>Sim.<br>Rock      |                           | 60                | 825.00 Each                          |
| SUMIKO/<br>SONUS<br>FABER               | Extrema                         | Sealed  | 7½                      |            |                           |        | 1¼                       | Dome  |              |  | 27-30 ±2.5                                  | 88                      | 50   | 2.2k                      | 4/3.5                              | 18 x 11 x 22                         | Opt.                       | Blk. Silk                 | 87                | 9890.00 Pair                         |
|   | Electa Amator                   | Ported  | 7                       |            |                           |        | 1¼                       | Dome  |              |  | 42-30 ±2.5                                  | 89                      | 50   | 2.2k                      | 6/4                                | 14 x 8 x 10                          | Opt.                       | Blk. Silk                 | 35                | 5000.00 Pair                         |
|   | Electa                          | Ported  | 7                       |            |                           |        | 1                        | Dome  |              |  | 50-20 ±3                                    | 88                      | 30   | 2k                        | 6/4                                | 14 x 10 x 9                          | Wal.                       | Blk. Silk                 | 31                | 2750.00 Pair                         |
|   | Minima Amator                   | Ported  | 5½                      |            |                           |        | 1                        | Dome  |              |  | 55-25 ±3                                    | 88                      | 30   | 2.4k                      | 6/4                                | 11 x 8 x 9                           | Wal.                       | Blk. Silk                 | 21                | 2500.00 Pair                         |
|   | Minuetto                        | Ported  | 6½                      |            |                           |        | 1                        | Dome  |              |  | 60-20 ±3                                    | 87                      | 30   | 2.2k                      | 6/4                                | 12 x 9 x 8                           | Wal.<br>Brn. Silk          | 26                        | 1500.00 Pair      |                                      |
| SUPERIOR<br>AUDIO                       | SX-1                            | Powered Subwoof.  | 5¼                      |            |                           |        |                          |       | W            |  | 40-250 ±3                                   | 88                      | 40   | 72-250<br>(Adj.)          | 8/                                 | 9 x 9 x 9                            | Blk.                       | Blk.                      | 12                | 250.00 Each                          |
|   | SX-2                            | Powered Subwoof.  | 5¼                      |            |                           |        |                          |       | W            |  | 40-250 ±3                                   | 88                      | 40   | 72-250<br>(Adj.)          | 8/                                 | 9 x 9 x 9                            | Blk.                       | Blk.                      | 10                | 300.00 Each                          |
|   | SX-3                            | Powered Subwoof.  | 10                      |            |                           |        |                          |       | W            |  | 30-250 ±3                                   | 90                      | 80   | 72-250<br>(Adj.)          | 8/                                 | 12 x 12 x 12                         | Blk.                       | Blk.                      | 25                | 400.00 Each                          |
| SWANS<br>SPEAKER<br>SYSTEMS             | Blk. Swan                       | 2 Sats. & 2 Subs.                                       | 13                      | (2)5¼      |                           |        |                          |       |              |  | 25-20                                       | 89                      | 100  | 100,1.5k                  | 4/3                                | Four Pieces                          | Piano<br>Blk.<br>Rswd.     | Blk.<br>Foam<br>Brn.      | 400<br>300        | 11,500. Sys.<br>9500.00 Sys.         |
|   | Leda Gemini                     | 2 Sats. & 2 Subs.                                       | 13                      | (2)5¼      |                           |        |                          |       |              |  | 25-20                                       | 89                      | 100  | 100,1.5k                  | 4/3                                | Four Pieces                          | Rswd.<br>Foam<br>Brn.      | Foam<br>Blk. Knit         | 110               | 5895.00 Pair                         |
|   | Cygnus                          |   | 10                      | (2)5¼      |                           |        |                          |       |              |  | 30-20                                       | 89                      | 50   | 100,1.5k                  | 4/3                                | 16 x 16 x 42                         | Rswd.<br>Foam<br>Blk. Knit | Blk. Knit                 | 56                | From<br>1895.00 Pair<br>2195.00 Pair |
|   | Baton                           |   | 7                       |            |                           |        |                          |       |              |  | 47-18                                       | 90                      | 11   | 1.5k                      | 5/3                                | 11 x 10 x 38                         | Opt.                       | Blk. Knit                 | 28                |                                      |
|   | Decor                           |   | 7                       |            |                           |        |                          |       |              |  | 47-18                                       | 90                      | 11   | 1.5k                      | 5/3                                | 11 x 10 x 17                         | Rswd.                      | Blk. Knit                 | 28                |                                      |
| SYMDEX<br>SYSTEMS                       | Epsilon                         | Ported  | 10                      | 7          | Cone                      | 1      | Dome                     |       |              |  | 25-25                                       | 88                      |  | 100,2.3k                  | 8/4                                | 13 x 13 x 48                         | Opt.                       | Opt., Knit                | 100               | 4500.00 Pair                         |
|   | Signature<br>Gamma<br>Signature | Ported  | 10                      | 7          | Cone                      | 1      | Dome                     |       |              |  | 45-25                                       | 88                      |  | 2.3k                      | 8/4                                | 6 x 10 x 44                          | Opt.                       | Opt., Knit                | 40                | 2250.00 Pair                         |
| SYMPHONIC<br>LINE                       | RG5 MKII                        | Sealed  | 8                       |            |                           |        | 1½                       | Dome  |              |  | 35-22 ±3                                    | 91                      | 50   |                           | 8/4                                | 10 x 15 x 40                         | Pearl<br>Lacq.             | None                      | 85                | 7000.00 Pair                         |
| TADDEO                                  | Arpeggio                        | Transition Load   | 6½                      |            |                           |        | 1½                       | Dome  |              |  | 29-22 ±3                                    | 92                      | 15   | 2.2k                      | 8/5                                | 48 x 9 x 24                          | Cherry                     |                           | 100               | 3495.00 Pair                         |
| TANNOY                                  | Arena                           | Home Th.  | 5                       |            |                           |        |                          |       |              |  | 70-20 ±3                                    | 86                      | 10   | 6/4                       | 9 x 7 x 6                          | Blk.<br>Gray                         | Blk. Knit                  | 4                         | 199.00 Pair       |                                      |
|   | Sub-Sat 3                       | Sat. & Subwoof.   | 5                       |            |                           |        | (2)3x5                   | Domes |              |  | 53-20 ±3                                    | 88                      |  | 7/4                       | Three Pieces                       |                                      | Blk. Knit                  | 16                        | 999.00 Sys.       |                                      |
|   | C-5                             | Bass Ref.   | 5                       |            |                           |        | ¾                        | Dome  |              |  | 58-20                                       | 87                      | 10   | 6/4                       | 12 x 7 x 7                         | Blk. Ash<br>Vnl.                     | Blk. Knit                  | 9                         | 249.00 Pair       |                                      |
|   | C-6                             | Bass Ref.   | 6½                      |            |                           |        | ¾                        | Dome  |              |  | 50-20                                       | 88                      | 10   | 6/4                       | 13 x 8 x 8                         | Blk. Ash<br>Vnl.                     | Blk. Knit                  | 10                        | 299.00 Pair       |                                      |
|   | C-8                             | Bass Ref.   | 8                       |            |                           |        | 1                        | Dome  |              |  | 45-20                                       | 89                      | 10   | 6/4                       | 19 x 10 x 8                        | Blk. Ash<br>Vnl.                     | Blk. Knit                  | 18                        | 399.00 Pair       |                                      |
|   | C-10                            | Bass Ref.   | 10                      |            |                           |        | 1                        | Dome  |              |  | 38-20                                       | 91                      | 10   | 6/4                       | 24 x 12 x 10                       | Blk. Ash<br>Vnl.                     | Blk. Knit                  | 27                        | 499.00 Pair       |                                      |
|   | C-88                            | Bass Ref.   | (2)8                    |            |                           |        | 1                        | Dome  |              |  | 35-20                                       | 92                      | 10   | 6/4                       | 35 x 11 x 14                       | Blk. Ash<br>Vnl.                     | Blk. Knit                  | 45                        | 799.00 Pair       |                                      |
|   | CS650                           | Gtr. Ch.  | 6                       |            |                           |        | 1                        | Dome  |              |  | 60-20 ±3                                    | 89                      | 10   | 4/3                       | 8 x 17 x 9                         | Blk. Ash<br>Vnl.                     | Blk. Knit                  | 13                        | 249.00 Each       |                                      |

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# LOUDSPEAKERS

| MANUFACTURER          | Model                  | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer = W, Midrange = M, Tweeter = T, Superwoofer = ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance Ohms, Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish               | Grille Color and Material | Weight, Lbs. Each | Price, \$    |
|-----------------------|------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|---------------------------------|--------------------------------------|----------------------|---------------------------|-------------------|--------------|
| TANNOY<br>(Continued) | CR650                  | Bass Ref.   | 6½                      |                           |               | ¾                        | Dome         |  | 55-20 ±3                                    | 87                      | 10   |                           | 8/6                             | 9 x 13 x 9                           | Blk. Ash Vni.        | Blk. Knit                 | 9                 | 249.00 Pair  |
|                       | 631                    | Bass Ref.   | 5                       |                           |               | 1                        | Dome         |  | 60-30                                       | 86                      | 10   | 3.5k                      | 6/4                             | 14 x 8 x 6                           | Blk. Knit            | Blk. Knit                 | 9                 |              |
|                       | 632                    | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         |  | 55-30                                       | 87                      | 10   | 3k                        | 8/6                             | 16 x 11 x 9                          | Blk. Wood Ven.       | Blk. Knit                 | 10                |              |
|                       | 633                    | Inf. Baf.   | (2)6½                   |                           |               | 1                        | Dome         |  | 50-30                                       | 89                      | 10   | 400,3k                    | 8/6                             | 28 x 11 x 9                          | Blk. Wood Ven.       | Blk. Knit                 | 24                |              |
|                       | 636                    | Inf. Baf.   | 6½                      | 6½                        |               | 1                        | Coinc. Horn  |  | 50-30                                       | 90                      | 10   | 400,1.7k                  | 6/4                             | 28 x 11 x 9                          | Blk. Wood Ven.       | Blk. Knit                 | 27                |              |
|                       | 637                    | Inf. Baf.   | 8                       | 8                         |               | 1                        | Coinc. Horn  |  | 45-30                                       | 91                      | 10   | 400,1.7k                  | 6/4                             | 32 x 11 x 10                         | Blk. Wood Ven.       | Blk. Knit                 | 38                |              |
|                       | 638                    | Coupled-Chamber Ref.                                    | 8                       | 8                         |               | 1                        | Coinc. Horn  |  | 40-30                                       | 92                      | 10   | 400,1.7k                  | 6/4                             | 36 x 11 x 10                         | Blk. Wood Ven.       | Blk. Knit                 | 42                |              |
|                       | D100                   | Bass Ref.   | 6½                      |                           |               | 1                        | Coinc. Horn  |  | 45-30                                       | 88                      | 30   | 2k                        | 8/5                             | 14 x 10 x 9                          | Blk. Opt., Wood Ven. | Blk.                      | 15                | 1595.00 Pair |
|                       | D500                   | Coupled-Chamber Ref.                                    | (2)8                    |                           |               | 1                        | Coinc. Horn  |  | 40-30                                       | 91                      | 30   | 400,1.7k                  | 6/4                             | 37 x 12 x 13                         | Blk. Opt., Wood Ven. | Blk.                      | 62                | 3795.00 Pair |
|                       | D700                   | Twin Ducted Ref.  | (2)10                   |                           |               | 1                        | Coinc. Horn  |  | 35-30                                       | 93                      | 30   | 200,1.5k                  | 6/4                             | 39 x 15 x 14                         | Blk. Opt., Wood Ven. | Blk.                      | 90                | 4795.00 Pair |
|                       | Stirling TW            | Var. Dst. Port  | 10                      |                           |               | 1                        | Coinc. Horn  |  | 35-25                                       | 93                      | 30   | 1.3k                      | 8/5.5                           | 28 x 20 x 12                         | Wal. Knit            | Beige Knit                | 60                | 5000.00 Pair |
|                       | Edinburgh TW           | Dst. Port   | 12                      |                           |               | ¼                        | Coinc. Horn  |  | 30-25                                       | 95                      | 50   | 1.2k                      | 8/5.5                           | 40 x 26 x 17                         | Wal. Knit            | Beige Knit                | 96                | 6500.00 Pair |
|                       | GRF Memory TW          | Ducted Port   | 15                      |                           |               | ¼                        | Coinc. Horn  |  | 29-25                                       | 95                      | 50   | 1k                        | 8/5.5                           | 44 x 32 x 19                         | Wal. Knit            | Beige Knit                | 184               | 7500.00 Pair |
| Westminster TW        | Compd. Horn            | 15  |                         |                           | ¼             | Coinc. Horn              |              | 18-25  | 99  | 50                      | 300,1k                                       | 8/5.5                     | 51 x 41 x 25                    | Wal. Knit                            | Beige Knit           | 290                       | 12,500.00 Pair    |              |
| Westminster Royal     | Compd. Horn            | 15  |                         |                           | 2             | Coinc. Horn              | T            | 18-22  | 99  | 50                      | 1k   | 8/5.5                     | 55 x 39 x 22                    | Wal. Knit                            | Beige Knit           | 304                       | 30,000.00 Pair    |              |
| TC AUDIO              | SAT2.1                 | Ac. Sus.; Sat.  | 5¼                      |                           |               | ¾                        | Dome         |  | 90-20 ±3                                    | 88                      | 30   | 2.6k                      | Sel.                            | 10 x 6 x 6                           | Lacq. Oak            | Blk. Knit                 | 9                 | 349.95 Pair  |
|                       | SUB10.0                | Subwoof.  | 10                      |                           |               |                          |              |  | 32-90 ±3                                    | 89                      | 30   | 90                        | 6/5                             | 18 x 16 x 16                         | Lacq. Oak            | Blk. Knit                 | 42                | 449.95 Each  |
|                       | TC25.1                 | Ported  | 5¼                      |                           |               | ¾                        | Dome         |  | 49-20 ±3                                    | 89                      | 30   | 2.6k                      | Sel.                            | 13 x 7 x 8                           | Lacq. Oak            | Blk. Knit                 | 16                | 369.95 Pair  |
|                       | TC25.2                 | Ported  | 5¼                      |                           |               | 1                        | Dome         | T  | 49-20 ±3                                    | 89                      | 30   | 2.6k                      | 4/3.8                           | 13 x 7 x 8                           | Lacq. Oak            | Blk. Knit                 | 17                | 599.95 Pair  |
|                       | TC255.2                | Ported  | (2)5¼                   |                           |               | 1                        | Dome         | T  | 38-20 ±3                                    | 89                      | 30   | 2.6k                      | 4/3.8                           | 24 x 8 x 10                          | Lacq. Oak            | Blk. Knit                 | 28                | 999.95 Pair  |
|                       | TC288.2                | Ported  | (2)8                    |                           |               | 1                        | Dome         | T  | 28-20 ±3                                    | 89                      | 50   | 2.3k                      | 4/3.8                           | 48 x 12 x 14                         | Lacq. Oak            | Blk. Knit                 | 68                | 849.95 Each  |
|                       | TC28.0                 | Ported  | 8                       |                           |               | 1                        | Dome         |  | 38-20 ±3                                    | 88                      | 30   | 2.3k                      | 8/7                             | 19 x 10 x 11                         | Lacq. Oak            | Blk. Knit                 | 24                | 599.95 Pair  |
|                       | ASUB10                 | In-Wall/In-Ceiling; Subwoof.                            | 10                      |                           |               |                          |              |  | 32-90 ±3                                    | 90                      | 30   | 90                        | 6/5                             | 12 x 27 x 19                         | Lacq. Oak            | Blk. Knit                 | 58                | 399.95 Each  |
|                       | CSAT2.1                | Ac. Sus.; Ctr. Ch.                                      | 5¼                      |                           |               | ¾                        | Dome         |  | 90-20 ±3                                    | 88                      | 15   | 2.6k                      | Sel.                            | 10 x 6 x 6                           | Lacq. Oak            | Blk. Knit                 | 8                 | 199.95 Each  |
|                       | CSAT1.2                | Ported; Ctr. Ch.  | (2)5¼                   |                           |               | 1                        | Dome         |  | 90-20 ±3                                    | 89                      | 15   | 2.6k                      | Sel.                            | 16 x 6 x 8                           | Lacq. Oak            | Blk. Knit                 | 14                | 379.95 Each  |
|                       | C255.2                 | Ported; Ctr. Ch.  | (2)5¼                   |                           |               | 1                        | Dome         |  | 38-20 ±3                                    | 89                      | 20   | 2.6k                      | Sel.                            | 24 x 8 x 10                          | Lacq. Oak            | Blk. Knit                 | 29                | 499.95 Each  |
|                       | W5                     | In-Wall; Ac. Sus.                                       | 5                       |                           |               | ¾                        | Dome         |  | 50-19                                       | 88                      | 30   | 3k                        |                                 | 10 x 7 x 2                           | Wht. Plst.           | Wht. Mtl.                 | 5                 | 199.95 Pair  |
|                       | W6P+                   | In-Wall; Ported; Time Coherent                          | 6½                      |                           |               | 1                        | Dome         |  | 38-19 ±3                                    | 88                      | 30   | 3k                        |                                 | 12 x 9 x 3                           | Wht. Plst.           | Wht. Mtl.                 | 6                 | 349.95 Pair  |
| W8+                   | In-Wall; Time Coherent | 8   |                         |                           | 1             | Dome                     |              | 35-20 ±3   | 88  | 30                      | 3k   |                           | 15 x 11 x 3                     | Wht. Plst.                           | Wht. Mtl.            | 8                         | 399.95 Pair       |              |
| OD Tube 5             | Outdoor; Ported        | 5¼  |                         |                           | ¾             | Dome                     |              | 49-20 ±3   | 89  | 30                      | 2.6k   | 4/3.8                     | 23 x 8 x 8                      | Lacq. Oak                            | Wht. Latex           | 14                        | 349.95 Pair       |              |
| TC SOUNDS             | TC Sub 0               | Powered Subwoof.  | (2)15                   |                           |               |                          |              | W  | 12-100 +0,-3                                |                         | Adj.   |                           |                                 | 42 x 18 x 20                         | Opt.                 | Blk. Knit                 | 150               | 2495.00 Each |
|                       | TC Sub 1               | Powered Subwoof.  | 15                      |                           |               |                          |              | W  | 12-100 +0,-3                                |                         | Adj.   |                           |                                 | 23 x 18 x 20                         | Opt.                 | Blk. Knit                 | 110               | 1795.00 Each |
|                       | TC Sub 2               | Powered Subwoof.  | 12                      |                           |               |                          |              | W  | 20-100 +0,-3                                |                         | Adj.   |                           |                                 | 20 x 15 x 20                         | Opt.                 | Blk. Knit                 | 90                | 1495.00 Each |
|                       | TC 3                   | Coaxial; Dynamic  | 6                       |                           |               | 1                        | Dome         |  | 50-19 ±3                                    | 87                      | 30   | 3.5k                      | 6/4                             | 14 x 9 x 10                          | Opt.                 | Blk. Knit                 | 23                | 995.00 Pair  |
| TDL                   | Near field Monitor     | Ported  | 5                       |                           |               | ½                        | Cone/ Dome   |  | 50-20                                       | 88                      | 15   | 5k                        | 8/                              | 11 x 7 x 7                           | Opt.                 | Opt.                      | 7                 | 250.00 Pair  |
|                       | RTL1                   | Trans. Line   | 6¾                      |                           |               | 1                        | Dome         |  | 45-20                                       | 87                      | 20   | 3k                        |                                 | 15 x 8 x 9                           | Wood Opt.            | Opt.                      | 18                | 400.00 Pair  |
|                       | RTL2                   | Trans. Line   | 6¾                      |                           |               | 1                        | Dome         |  | 40-20                                       | 87                      | 20   | 3k                        |                                 | 28 x 8 x 9                           | Wood Opt.            | Opt.                      | 26                | 600.00 Pair  |
|                       | RTL3                   | Trans. Line   | (2)6¾                   |                           |               | 1                        | Dome         |  | 35-20                                       | 90                      | 20   | 3k                        |                                 | 34 x 8 x 15                          | Wood Opt.            | Opt.                      | 46                | 900.00 Pair  |
|                       | Studio 1m              | Trans. Line   | 6½                      |                           |               | 1                        | Dome         |  | 28-20                                       | 86                      | 30   | 2k                        | 8/                              | 30 x 9 x 13                          | Wood Opt.            | Opt.                      | 50                | 2000.00 Pair |
|                       | Studio 3               | Trans. Line   | (2)8                    |                           |               | 1                        | Dome         |  | 20-20                                       | 87                      | 30   | 3k                        | 8/4                             | 37 x 12 x 16                         | Wood Opt.            | Opt., Knit                | 59                | 3000.00 Pair |
| Studio 4              | Trans. Line            | 12x 8¼  | 6                       | Cone                      | 1             | Dome                     |              | 19-20  | 87  | 40                      | 300,3.5k                                     | 8/4                       | 43 x 12 x 17                    | Wood Ven. Opt.                       | Opt., Knit           | 66                        | 4000.00 Pair      |              |

(Continued)

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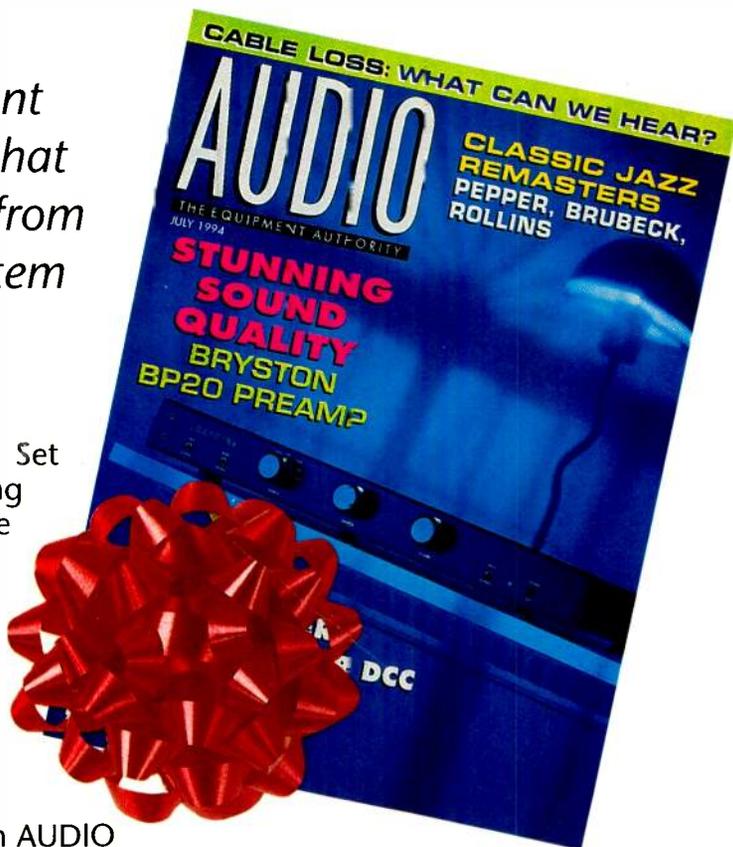
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# LOUDSPEAKERS

| MANUFACTURER            | Model                                      | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls: Woofer—W, Midrange—M, Tweeter—T, Superwoofer—ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish                | Grille Color and Material | Weight, Lbs. Each       | Price, \$      |
|-------------------------|--|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|-----------------------|---------------------------|-------------------------|----------------|
| TDL (Continued)         | Monitor                                    | Trans. Line   | 12x 8¼                  | 6                         | Cone          | 1¾                       | Domes        |  | 18-35                                       | 87                      | 40   | 300.3, 5k, 13k            | 8/4                              | 45 x 12 x 19                         | Opt., Wood Ven.       | Opt., Knit                | 103                     | 6000.00 Pair   |
|                         | Reference Standard                         | Trans. Line   | (2) 12x 8¼              | (2)6                      | Cones         | (2)1¾                    | Domes        |  | 16-35                                       | 87                      | 50   | 200.3, 5k, 13k            | 8/4                              | 48 x 22 x 20                         | Opt., Wood Ven.       | Opt., Knit                | 154                     | 10,000.00 Pair |
| TEAC                    | S-200                                      | Bass Ref.   | 4%                      |                           |               | 9¾                       | Dome         |  | 80-20                                       |                         |  |                           | 6/                               | 6 x 9 x 7                            | Oil, Mahog. Wal. Blk. | Gray Knit                 | 5                       | 249.00 Pair    |
|                         | SW-1 LS-X20                                |   | 5% 5%                   |                           |               |                          |              |  |   |                         |  |                           |                                  | 5 x 17 x 12 11 x 6 x 5               | Blk. Mesh Blk. Mesh   | 18 5                      | 240.00 Each 200.00 Pair |                |
|                         | LS-X10                                     |   | 4%                      |                           |               |                          |              |  |   |                         |  |                           |                                  |                                      |                       | 4                         | 140.00 Pair             |                |
| TERP-SICHORE            | Landes Monitor                             | Tuned Port  | 7½                      |                           |               |                          | Ribbon       |  | 45-24 ±2                                    | 94                      | 10   | 300.2, 4k                 | 6/3                              | 8 x 10 x 16                          | Opt.                  | Blk. Knit                 | 19                      | 750.00 Pair    |
|                         | Landes SSS Monitor                         | Tuned Port  | 5½                      |                           |               | 1                        | Dome         |  | 55-20 ±3                                    | 91                      | 10   | 2.4k                      | 6/3                              | 7 x 10 x 12                          | Opt.                  | Blk. Knit                 | 12                      | 375.00 Pair    |
|                         | Van Arsdale                                | Tuned Port & Trans. Line                                | 8                       | 4                         | Cone          | 1                        | Dome         |  | 32-20 ±2                                    | 91                      | 100  |                           | 8/4                              |                                      | Opt.                  | Blk. Knit                 | 180                     | 3250.00 Pair   |
|                         | 1 Subwoofer                                | Folded Horn Subwoof.                                    | 10                      |                           |               |                          |              |  | 28-250                                      | 91                      | 200  |                           | 6/3                              | 14 x 16 x 25                         | Opt.                  | Blk. Knit                 | 40                      | 600.00 Each    |
| THIEL                   | SCS  | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         | No   | 64-20 ±3                                    | 87                      | 40   | 4k                        | 4/3.5                            | 16 x 8 x 9                           | Opt., Wood Opt., Wood | Blk. Foam Blk. Cloth      | 23                      | 1350.00 Pair   |
|                         | CS.5                                       | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         | No   | 55-20 ±3                                    | 88                      | 30   | 3k                        |                                  | 32 x 8 x 11                          | Opt., Wood Opt., Wood | Blk. Cloth Blk. Cloth     | 42                      | 1400.00 Pair   |
|                         | CS1.5                                      | Pas. Rad.   | 6½                      |                           |               | 1                        | Dome         | No   | 42-22 ±3                                    | 86                      | 50   | 3k                        | 4/3                              | 33 x 8 x 11                          | Opt., Wood Opt., Wood | Blk. Cloth Blk. Cloth     | 70                      | 1990.00 Pair   |
|                         | CS2.2                                      | Pas. Rad.   | 8                       | 3                         | Cone          | 1                        | Dome         | No   | 35-20 ±2                                    | 86                      | 50   | 800.3k                    | 4/3                              | 42 x 12 x 13                         | Opt., Wood Opt., Wood | Blk. Cloth Blk. Cloth     | 107                     | 2750.00 Pair   |
|                         | CS3.6                                      | Pas. Rad.   | 10                      | 4½                        | Cone          | 1                        | Dome         | No   | 29-20 ±1.5                                  | 86                      | 100  | 400.3k                    | 4/2.5                            | 48 x 12 x 17                         | Opt., Wood Opt., Wood | Blk. Cloth Blk. Cloth     | 180                     | 3900.00 Pair   |
|                         | CS7  | Pas. Rad.   | 12                      | 6½.3                      | Cones         | 1                        | Dome         | No   | 25-18 ±1.5                                  | 87                      | 100  | 130.1k, 3k                | 3/2.2                            | 55 x 14 x 19                         | Opt., Wood Opt., Wood | Blk. Cloth Blk. Cloth     | 180                     | 7800.00 Pair   |
|                         | CS5i                                       | Pas. Rad.   | (3)8                    | 5.2                       | Cone, Dome    | 1                        | Dome         | No   | 25-20 ±1                                    | 87                      | 100  | 50, 400, 1k, 3k           | 3/2                              | 64 x 13 x 17                         | Opt., Wood Opt., Wood | Blk. Cloth Blk. Cloth     | 180                     | 12,300.00 Pair |
| TOBY                    | System 93                                  | Sat. & Subwoof.   | 10                      | 6½                        | Cone          | 1¾                       | Dome         |  | 35-20 ±3                                    | 87                      | 30   | 100.1, 8k 100.3k          | 6/4                              | Three Pieces                         | Opt. Blk.             | Blk. Knit Blk. Knit       |                         | 995.00 Sys.    |
|                         | Six Sat                                    | Sat. & Subwoof.   | 10                      | 6½                        | Cone          | 1¾                       | Dome         |  | 35-15 ±3                                    | 87                      | 30   | 100.3k                    | 6/4                              | Three Pieces                         | Opt. Blk.             | Blk. Knit Blk. Knit       |                         | 750.00 Sys.    |
|                         | D-61                                       | Bass Ref.   | 8                       |                           |               | 1                        | Dome         |  | 35-20 ±3                                    | 87                      | 30   | 2.5k                      | 8/6                              | 37 x 14 x 11                         | Opt. Blk.             | Blk. Knit Blk. Knit       |                         | 695.00 Pair    |
|                         | D-28                                       | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         |  | 40-20 ±3                                    | 86                      | 30   | 1.8k                      | 6/4                              | 33 x 10 x 7                          | Opt. Blk.             | Blk. Knit Blk. Knit       |                         | 595.00 Pair    |
| D-7                     | Sealed                                     | 6½  |                         |                           | ¾             | Cone                     |              | 70-18 ±4   | 87  | 30                      | 3k   | 6/4                       | 14 x 9 x 9                       | Opt. Oil, Oak                        | Blk. Knit Blk. Knit   |                           | 240.00 Pair             |                |
| TOTAL MEDIA SYSTEMS     | TMS-8.5                                    | Tuned Port  | 8                       | 2                         | Dome          | 2                        | Ribbon       | No   | 36-27 ±2                                    | 90                      | 50   | 600.6.5k                  | 8/6                              | 11 x 13 x 42                         | Blk. Ash Blk. Ash     | Blk. Knit Blk. Knit       | 53                      | 2700.00 Pair   |
|                         | TMS-8.5C                                   | Ctr. Ch.  | 8                       | 2                         | Dome          | 2                        | Ribbon       | No   | 36-27 ±2                                    | 90                      | 50   | 650.6.5k                  | 8/6                              | 11 x 11 x 43                         | Blk. Ash Blk. Ash     | Blk. Knit Blk. Knit       | 55                      | 1350.00 Each   |
|                         | TMS-SC200BP                                | Dipolar Surround  | 8                       | (2)4                      | Cones         | (2)1                     | Domes        | No   | 36-22 ±2                                    | 90                      | 50   | 200.1.5k                  | 4/3                              | 24 x 14 x 8                          | Blk. Ash Blk. Ash     | Blk. Knit Blk. Knit       | 42                      | 1350.00 Each   |
| TOTEM                   | Rokk                                       | Bass Ref.   | 5                       |                           |               | 1                        | Dome         |  | 50-20 ±2                                    | 88                      | 20   | 3.2k                      | 4/4                              | 15 x 6 x 10                          | Opt., Wood Opt., Wood |                           | 11                      | 895.00 Pair    |
|                         | 1  | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         |  | 50-20 ±3                                    | 87                      | 15   | 2.7k                      | 4/4                              | 13 x 7 x 9                           | Opt., Wood Opt., Wood |                           | 9                       | 1595.00 Pair   |
|                         | 1-BW (bi-wired)                            | Bass Ref.   | 6½                      |                           |               | 1                        | Dome         |  | 50-20 ±3                                    | 87                      | 15   | 2.7k                      | 4/4                              | 13 x 7 x 9                           | Opt., Wood Opt., Wood |                           | 9                       | 1795.00 Pair   |
|                         | Tott                                       | Bass Ref.   | 5                       |                           |               | 1                        | Dome         |  | 50-20 ±5                                    | 85                      | 30   | 3.5k                      | 8/5                              | 11 x 6 x 9                           | Opt., Wood Opt., Wood |                           | 8                       | 995.00 Pair    |
|                         | MANI-2                                     | Bass Ref.   | (2)8                    |                           |               | 1                        | Dome         |  | 27-20 ±3                                    | 85                      | 50   | 4k                        | 4/4                              | 17 x 9 x 12                          | Opt., Wood Opt., Wood |                           | 22                      | 3995.00 Pair   |
| TOWNSHEND AUDIO         | Sir Galahad                                | Vented  | (6)6                    |                           |               | (9)                      | Leaf         |  | 18-25 +6                                    | 95                      | 10   | 6.5k                      | 6/5                              | 16 x 19 x 63                         | Charc. Charc.         | Blk. Knit Blk. Knit       | 350                     | 19,000.00 Pair |
|                         | Sir Lancelot                               | Vented  | (4)6                    |                           |               | (6)                      | Leaf         |  | 18-25 +6                                    | 93                      | 10   | 6.5k                      | 9/8                              | 16 x 19 x 47                         | Charc. Charc.         | Blk. Knit Blk. Knit       | 250                     | 16,000.00 Pair |
|                         | Glastenbury                                | Vented  | 6                       |                           |               | (1)                      | Leaf         |  | 23-25 +6                                    | 84                      | 10   | 6.5k                      | 9/8                              | 11 x 19 x 36                         | Charc. Charc.         | Blk. Knit Blk. Knit       | 110                     | 6000.00 Pair   |
| TRIAD SPEAKERS          | THX InWall LCR/4                           | Home Th.; In-Wall Front Ch.; Sealed                     | (2)5½                   |                           |               | 1¼                       | Dome         |  | 100-20 ±2                                   | 90                      | 75   | 2.6k                      | 4/3                              | 19 x 11 x 4                          | Paint                 | Mtl.                      | 22                      |                |
|                         | THX LCR/6                                  | Home Th.; In-Wall/In-Room Front Ch.; Sealed             | (2)5½                   |                           |               | 1¼                       | Dome         |  | 100-20 ±2                                   | 90                      | 75   | 2.6k                      | 4/3                              | 19 x 11 x 6                          | Paint                 | Mtl.                      | 35                      |                |
|                         | THX InRoom LCR                             | Home Th.; Front Ch.; Sealed                             | (2)5½                   |                           |               | 1¼                       | Dome         |  | 100-20 ±2                                   | 90                      | 75   | 2.6k                      | 4/3                              | 16 x 9 x 6                           | Opt.                  | Blk. Mtl.                 | 30                      |                |
|                         | THX InWall Surround                        | THX; In-Wall Surround; Sealed                           | (2)5½                   |                           |               | (2)1¼                    | Domes        |  | 85-8 ±3                                     | 85                      | 50   | 2.6k                      | 4/3                              | 14 x 14 x 4                          | Paint                 | Mtl.                      | 20                      |                |
|                         | THX InWall Woofer                          | THX; In-Wall Woofer; Sealed                             | (2)10                   |                           |               | (2)1¼                    | Domes        |  | 35-80 ±3                                    | 85                      | 200  | 80                        | 4/3                              | 19 x 14 x 12                         | Paint                 | Mtl.                      | 45                      |                |
|                         | THX OnWall Surround                        | THX; On-Wall Surround; Sealed                           | 5½                      |                           |               | (2)1¼                    | Domes        |  | 85-8 ±3                                     | 85                      | 50   | 2.6k                      | 4/3                              | 14 x 14 x 5                          | Paint                 | Mtl.                      | 20                      |                |
|                         | THX InRoom Woofer                          | THX; Woofer   | (2)10                   |                           |               |                          |              |  | 35-80 ±3                                    | 85                      | 200  | 80                        | 4/3                              | 18 x 20 x 18                         | Paint/Gran. Paint     | Blk. Cloth Opt.           | 70                      |                |
|                         | InWall HT Bronze                           | In-Wall; Sealed Sat.                                    | 4½                      |                           |               | ¾                        | Dome         |  | 110-20 ±3                                   | 87                      | 35   | 2.5k                      | 4/3                              | 11 x 7 x 4                           | Paint                 | Opt.                      | 7                       |                |
|                         | InWall HT Silver                           | In-Wall; Sealed Sat.                                    | 5½                      |                           |               | 1                        | Dome         |  | 100-20 ±2.5                                 | 89                      | 35   | 2.4k                      | 8/6                              | 12 x 8 x 4                           | Paint                 | Opt.                      | 9                       |                |
|                         | InWall HT Gold                             | In-Wall; Sealed Sat.                                    | 7                       |                           |               | 1¼                       | Dome         |  | 72-20 ±2                                    | 91                      | 35   | 2.3k                      | 4/3                              | 19 x 11 x 4                          | Paint                 | Opt.                      | 14                      |                |
| InWall Omni             | In-Wall; Ported Sat.                       | 10  | 5¼                      |                           | 2¼            | Cone                     | W            | 85-16 ±3   | 87  | 35                      | 2.8k   | 8/6                       | 12 x 8 x 4                       | Paint                                | Opt.                  | 8                         |                         |                |
| InWall Thunder Bronze/4 | In-Wall; Sealed Servo Subwoof.             |   |                         |                           |               |                          | W            | 20-180 +0,-3 (Adj.)  | 90  | 150                     | 50-180 Inc.                                  | 8/6                       | 19 x 14 x 4                      | Paint                                | Mtl.                  | 35                        | Sys.                    |                |
| InWall Thunder Bronze/6 | In-Wall; Sealed Servo Subwoof.             |   |                         |                           |               |                          | W            | 20-180 +0,-3 (Adj.)  | 90  | 150                     | 50-180 Inc.                                  | 8/6                       | 19 x 14 x 6                      | Paint                                | Opt.                  | 35                        | Sys.                    |                |
| InWall Thunder Silver/4 | Dual Encl.; In-Wall; Sealed Servo Subwoof. | (2)8  |                         |                           |               |                          | W            | 20-180 +0,-3 (Adj.)  | 88  | 250                     | 50-180 Inc.                                  | 4/3                       | 19 x 14 x 4                      | Paint                                | Mtl.                  | 50                        | Sys.                    |                |
| InWall Thunder Silver/6 | Dual Encl.; In-Wall; Servo Subwoof.        | (2)8  |                         |                           |               |                          | W            | 20-180 +0,-3 (Adj.)  | 88  | 250                     | 50-180 Inc.                                  | 4/3                       | 14 x 14 x 6                      | Paint                                | Opt.                  | 48                        | Sys.                    |                |

(Continued)

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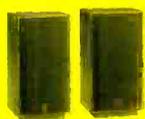
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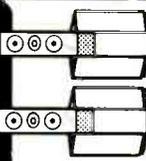
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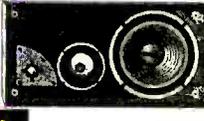
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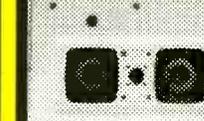
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# LOUDSPEAKERS

| MANUFACTURER               | Model                               | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W, Midrange-M, Tweeter-T, Super Tweeter-ST | Ampehic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish           | Grille Color and Material | Weight, Lbs. Each | Price, \$          |
|----------------------------|-------------------------------------|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------------|---------------------------|-------------------|--------------------|
| TRIAD SPEAKERS (Continued) | InWall Thunder Gold/4               | Dual Encl.; In-Wall; Servo Subwoof.                     | (2)10                   |                           |               |                          |              | W  | 20-180 +0.3 (Adj.)                         | 90                      | 250 Inc.                                     | 50-180 (Adj.)             | 4/3                              | 19 x 14 x 4                          | Paint            | Mtl.                      | 52 Sys.           |                    |
|                            | InWall Thunder Gold/6               | Dual Encl.; In-Wall; Servo Subwoof.                     | (2)10                   |                           |               |                          |              | W  | 20-180 +0.3 (Adj.)                         | 90                      | 250 Inc.                                     | 50-180 (Adj.)             | 4/3                              | 19 x 14 x 6                          | Paint            | Opt.                      | 52 Sys.           |                    |
|                            | InRoom HT Bronze                    | Sat.  | 4½                      |                           | ¾             | Dome                     |              |  | 110-20 ±3                                  | 87                      | 35   | 2.5k                      | 4/3                              | 9 x 5 x 5                            | Opt.             | Blk. Cloth                | 7                 | 225.00 Each        |
|                            | InRoom HT Silver                    | Sat.  | 5½                      |                           | 1             | Dome                     |              |  | 100-20 ±2.5                                | 89                      | 35   | 2.4k                      | 8/6                              | 11 x 6 x 6                           | Opt.             | Blk. Cloth                | 11                | 275.00 Each        |
|                            | InRoom HT Gold                      | Sat.  | 7                       |                           | 1½            | Dome                     |              |  | 72-20 ±2                                   | 91                      | 35   | 2.3k                      | 4/3                              | 14 x 7 x 7                           | Opt.             | Blk. Cloth                | 15                | 375.00 Each        |
|                            | InRoom Thunder Bronze               | Front-Firing Powered Subwoof.                           | 10                      |                           |               |                          |              | W  | 20-180 +0.3 (Adj.)                         | 90                      | 150 Inc.                                     | 50-180 (Adj.)             | 4/3                              | 15 x 14 x 13                         | Opt.             | Blk. Cloth                | 40                | 750.00 Each        |
|                            | InRoom Thunder Silver               | Side-Firing Powered Subwoof.                            | (2)8                    |                           |               |                          |              | W  | 20-180 +0.3 (Adj.)                         | 88                      | 250 Inc.                                     | 50-180 (Adj.)             | 8/6                              | 16 x 17 x 16                         | Paint/Gran.      | Blk. Cloth                | 58                | 1000.00 Each       |
| InRoom Thunder Gold        | Side-Firing Powered Subwoof.        | (2)10   |                         |                           |               |                          | W            | 20-180 +0.3 (Adj.)   | 90   | 250 Inc.                | 50-180 (Adj.)                                | 4/3                       | 18 x 19 x 17                     | Paint/Gran.                          | Blk. Cloth       | 72                        | 1250.00 Each      |                    |
| TSI                        | Omniflex                            | Omnidirectional   |                         |                           |               |                          |              |  | 20-20 ±3                                   | 91                      | 50   |                           | 8/6                              | 22 Dia. x 46                         | Satin Blk.       | Blk. Knit                 | 85                | 7900.00 Pair       |
| T-TECH                     | Prestant-I                          | Subwoof.  | (2)15                   | 5                         | Cone          | 1                        | Dome         |  | 16-125 +4                                  | 92                      | 80   | 125                       | 8/3                              | 38 x 23 x 26                         | Wal.             | None                      | 180               | 5700.00 Pair       |
|                            | Positiv-I                           | Sat.  | (2)15                   |                           |               |                          |              |  | 125-21 +4                                  | 91                      | 80   |                           | 8/3                              | 24 x 14 x 11                         | Wal.             | Brown                     | 180               | 1800.00 Pair       |
| TUBE RESEARCH LABS         | GTRS                                | Subwoof.  | (3)9.2                  | 6                         | Cone          | 1.2                      |              |  | 28-100                                     | 92                      | 80   |                           | 4/2                              | 38 x 23 x 26                         | Wal.             | None                      | 180               | 3500.00 Each       |
| ULTRA AUDIO                | TS-CT1                              | Bandpass  | (2)10                   | (2)5                      | Cones         | 1                        | Dome         |  | 25-20 ±3                                   | 86                      | 50   | 100,3k                    | 7/3                              | 18 Dia. x 63                         | Mtl.             | Blk. Cloth                | 175               | 5900.00 Pair       |
|                            | TS-CW1                              | Bandpass Subwoof.                                       | 12                      |                           |               |                          |              |  | 20-100 ±3                                  | 88                      | 50   | Opt.                      | 8/4                              | 18 Dia. x 48                         | Opt.             | Blk. Cloth                | 69                | 1399.00 Each       |
|                            | TS-S1                               | Bass Ref.   | 6                       |                           | 1             | Dome                     |              |  | 48-25 ±3                                   | 88                      | 50   | 2.8k                      | 8/4                              | 13 x 8 x 15                          | Opt.             | Blk. Cloth                | 38                | 1500.00 Each       |
|                            | TS-1                                | Bass Ref.   | 8                       | 2                         | Dome          | 1                        | Dome         |  | 35-20 ±3                                   | 88                      | 40   | 500,3k                    | 7/3                              | 14 x 10 x 60                         | Oak              | Foam Blk. Cloth           | 100               | 2499.00 Pair       |
| TS-LCR                     | Bass Ref.                           | 4½  |                         | 1                         | Dome          |                          |              | 60-20 ±3   | 88   | 40                      | 4k   | 8/4                       | 11 x 7 x 9                       | Opt.                                 | Blk. Cloth       | 19                        | 490.00 Each       |                    |
| UNITY AUDIO                | CLA 1                               | Bass Ref.   | 10                      | 6½                        | Cone          | 1                        | Dome         | No   | 34-20 ±2                                   | 89                      | 40   | 175,2.2k                  | 8/5                              | 9 x 10 x 44                          | Oak              | Blk. Knit                 | 55                | 2195.00 Pair       |
|                            | CLA 3 ED                            | PARM Loading  | (2)7                    |                           | 1             | Dome                     | No           | 42-20 ±2   | 90   | 40                      | 2.2k   | 5/5                       | 9 x 5 x 38                       | Opt.                                 | Blk. Knit        | 31                        | 1050.00 Pair      |                    |
|                            | Signature 3 ED                      | PARM Loading  | (2)7                    |                           | 1             | Dome                     | No           | 40-20 ±2   | 90   | 40                      | 2.3k   | 6/5                       | 9 x 5 x 38                       | Opt.                                 | Blk. Knit        | 33                        | 1895.00 Pair      |                    |
|                            | Signature 1 ED                      | Bass Ref.   | 11                      | 7                         | Cone          | 1½                       | Dome         | No   | 30-21                                      | 90                      | 50   | 135,2k                    | 8/7                              | 9 x 10 x 43                          | Opt.             | Blk. Knit                 | 68                | 3295.00 Pair       |
| Pyramid ED                 | Bass Ref.                           | 11  | 7                       | Cone                      | 1½            | Dome                     | No           | 28-22 ±1.5   | 88   | 100                     | 135,2.2k                                     | 8/7                       | 11 x 11 x 42                     | Corian                               | Blk. Knit        | 90                        | 5600.00 Pair      |                    |
| PARM ED                    | Biamp.                              | (2)12   | (2)7                    | Cones                     | 1¼            | Dome                     | No           | 23-22 ±1   | 88   | (2)100                  | Adj.   | 5/5                       | Five Pieces                      | Corian                               | Blk. Knit        | 400 Sys.                  | 15,000. Sys.      |                    |
| CCFX                       | Sat. & Subwoof. Ctr. Ch. & Rear Ch. |   | 6½                      | Cone                      | (2)1          | Domes                    | No           | 75-20 ±1   | 89   | 25                      | 2.7k   | 6/5                       | 11 x 8 x 7                       | Blk. Corian                          | Blk. Knit        | 22                        | 995.00 Each       |                    |
| WCFL                       | Ctr. Ch. & Rear Ch.                 |   | 6½                      | Cone                      | (2)1          | Domes                    | No           | 78-20 ±2   | 89   | 25                      | 2.7k   | 6/5                       | 13 x 9 x 7                       | Opt.                                 | Blk. Knit        | 14                        | 485.00 Each       |                    |
| CCLA                       | Ctr. Ch.                            |   | 6½                      | Cone                      | 1             | Dome                     | No           | 78-20 ±2   | 89   | 25                      | 2.7k   | 6/5                       | 13 x 9 x 7                       | Opt.                                 | Blk. Knit        | 13                        | 345.00 Each       |                    |
| The Ambiance               | Bipolar Rear Ch.                    |   | (2)4                    | Domes                     | 1             | Dome                     | No           | 100-20   | 92   | 25                      | 8k   | 6/5                       | 14 x 8 x 3                       | Opt.                                 | Blk. Knit        | 15                        | 795.00 Pair       |                    |
| VANDER-STEEN AUDIO         | 5                                   | Powered, Biamp  | (2)12, 7                | 4½                        | Cone          | 1,¾                      | Domes        | SW, ST   | 22-30 ±3                                   | 86                      | 400 Inc., 100 Ext.                           | 100,600, 5k,12k           | 6/4                              | 14 x 20 x 42                         | Opt., Wood       | Opt., Knit                | 160               | 7995.00 Pair       |
|                            | VCC-1                               | Coaxial; Ctr. Ch.                                       | 6½                      |                           | 1             | Dome                     |              |  | 150-21 ±3                                  | 86                      | 30   | 3.8k                      | 5/4                              | 12 x 10 x 9                          | Opt., Wood       | Opt., Knit                | 25                | 495.00 Each        |
|                            | 1B                                  | Trans. Line   | 8                       |                           | 1             | Dome                     | T            |  | 38-20 ±3                                   | 90                      | 20   | 2.8k                      | 8/6                              | 12 x 10 x 36                         | Opt., Wood       | Opt., Knit                | 50                | 695.00 Pair        |
|                            | 2Ce                                 |   | 10,8                    | 4½                        | Cone          | 1                        | Dome         | M,T  | 29-29 ±3                                   | 88                      | 40   | 600,5k                    | 8/4                              | 16 x 10 x 40                         | Opt., Wood       | Opt., Knit                | 70                | 1295.00 Pair       |
|                            | 3                                   |   | 10,8                    | 4½                        | Cone          | 1                        | Dome         | M,T  | 26-30 ±3                                   | 89                      | 100  | 500,5k                    | 6/4                              | 16 x 10 x 48                         | Opt., Wood       | Opt., Knit                | 100               | 2595.00 Pair       |
|                            | 2W                                  | Powered Inf. Baf. Subwoof.                              | (3)8                    |                           |               |                          |              | W  | 26-80 ±3                                   | Adj.                    | 300 Inc.                                     | 80                        |                                  |                                      | 18 x 17 x 18     | Opt., Wood                | Opt., Knit        | 90                 |
| VECTOR RESEARCH            | VRP-375 Pro-Line                    | Sat. & Subwoof.   | 8                       | 3½                        | Cone          | 2½                       | Cone         |  | 28-20 ±3                                   | 90                      | 25   | 150,3.5k                  | 6/                               | Three Pieces                         | Blk. Vnl.        | Blk. Alum. Mesh           | 26 Sys.           | 899.95 Sys.        |
|                            | VRP-575                             | Sat. & Subwoof.   | 10                      | 3½                        | Cone          | 2½                       | Dome         | M,T  | 28-20 ±3                                   | 90                      | 40   |                           | 8/                               | Three Pieces                         | Blk. Vnl.        | Blk. Cloth                | 28 Sys.           | 1099.95 Sys.       |
|                            | VRP-400C Pro-Line                   | Sat. & Ctr. Ch.   | (2)4                    |                           | 1½            | Dome                     |              |  | 55-20                                      | 87                      | 10   |                           | 4/                               | Three Pieces                         | Blk. Vnl.        | Blk. Cloth                | 22 Sys.           | 799.95 Sys.        |
|                            | VR-3S                               | Sat. & Subwoof.   |                         |                           |               |                          |              |  |  |                         |  |                           |                                  | Three Pieces                         |                  | Blk. Mesh                 |                   | 849.95 Sys.        |
| VELODYNE ACOUSTICS         | VA-810                              | Powered Pas. Rad. Subwoof.                              | 8                       |                           |               |                          |              | W  | 35-85 ±3                                   |                         | 30 Inc.                                      | 85                        |                                  | 15 x 16 x 15                         | Blk. Vnl.        | Blk. Cloth                | 30                | 595.00 Each        |
|                            | VA-1012H                            | Powered Pas. Rad. Subwoof.                              | 10                      |                           |               |                          |              | W  | 28-85 ±3                                   |                         | 60 Inc.                                      | 85                        |                                  | 18 x 19 x 18                         | Blk. Vnl.        | Blk. Cloth                | 40                | 749.00 Each        |
|                            | VA-1215                             | Powered Pas. Rad. Subwoof.                              | 12                      |                           |               |                          |              | W  | 25-85 ±3                                   | 112                     | 200 Inc.                                     | 85                        | 6/                               | 21 x 21 x 21                         | Blk. Vnl.        | Blk. Cloth                | 60                | 999.00 Each        |
|                            | F-1000                              | Powered Servo Sealed Subwoof.                           | 10                      |                           |               |                          |              | W  | 20-85 ±3                                   |                         | 80 Inc.                                      | 85                        |                                  | 15 x 15 x 15                         | Blk. Vnl., Gran. | Blk. Cloth                | 44                | 895.00 Each        |
|                            | F-1200R (w/Remote)                  | Powered Servo Sealed Subwoof.                           | 12                      |                           |               |                          |              | W  | 20-85 ±3                                   |                         | 100 Inc.                                     | 85                        |                                  | 17 x 17 x 17                         | Blk. Vnl., Gran. | Blk. Cloth                | 55                | 1095.00 Each       |
|                            | F-1500R (w/Remote)                  | Powered Servo Sealed Subwoof.                           | 15                      |                           |               |                          |              | W  | 18-85 ±3                                   |                         | 250 Inc.                                     | 85                        |                                  | 21 x 21 x 21                         | Blk. Vnl., Gran. | Blk. Cloth                | 79                | 1595.00 Each       |
|                            | ULD-12 (w/Controller)               | Powered Servo Sealed Subwoof.                           | 12                      |                           |               |                          |              | W  | 18-85 ±3                                   |                         | 100 Inc.                                     | 85                        |                                  | 21 x 16 x 17                         | Opt., Wood       | None                      | 60                | 1295.00 Each w/Amp |
|                            | ULD-15 (w/Controller Amp)           | Powered Servo Sealed Subwoof.                           | 15                      |                           |               |                          |              | W  | 18-85 ±3                                   |                         | 400 Inc.                                     | Var.                      |                                  | 23 x 17 x 19                         | Opt., Wood       | None                      | 90                | 1895.00 Each w/Amp |

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# LOUDSPEAKERS

| MANUFACTURER                   | Model                     | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type              | Separate Level Control, Woofer - W, Midrange - M, Tweeter - T, Super Tweeter - ST | Anechoic Frequency Response, Hz to kHz, ±dB | SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms, Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish                 | Grille Color and Material | Weight, Lbs. Each                                 | Price, \$                |             |
|--------------------------------|---------------------------|---|-------------------------|---------------------------|---------------|--------------------------|---------------------------|---|---|-------------------------|--|---------------------------|----------------------------------|--------------------------------------|------------------------|---------------------------|---|--------------------------|-------------|
| VELODYNE ACOUSTICS (Continued) | ULD-18 (w/Controller Amp) | Powered Sealed Subwoofer.                               | 18                      |                           |               |                          |                           | W   | 18-85 ±3                                    | 400 Inc                 | Var.   |                           | 31 x 24 x 22                     | Opt., Wood                           | None                   | 105                       | 2750.00 Each w/Amp                                |                          |             |
|                                | ULD-18 THX                | THX, Powered Sealed Subwoofer.                          | 18                      |                           |               |                          |                           |   | 18-85 ±3                                    | 400 Inc.                |  |                           | 31 x 24 x 22                     | Opt., Wood Opt., Blk.                | None                   | 105                       | 2995.00 Each w/Amp From 1799.00 Pair 5500.00 Sys. |                          |             |
|                                | DF661                     | Bass Ref.   | 6                       | 6                         | 1             | Dome                     | No                        |   | 65-20 ±3                                    | 75                      | 700,5.5k                                     | 6/                        | 19 x 9 x 11                      |                                      | Blk. Knit              | 40                        |   |                          |             |
|                                | VHT-1 (w/remote for sub.) | Home Th.  | 15                      | (3)6                      | Cones         | (5)1                     | Domes                     | SW  | 18-20 ±2                                    | 88                      | 85,750, 3k,5k                                | 8/4                       | Six Pieces                       | Opt.                                 | Blk. Knit              | 260                       | 5500.00 Sys.                                      |                          |             |
| VHT-2 (w/remote for sub.)      | Home Th.                  | 12  | (6)6                    |                           | (5)1          | Domes                    | SW                        | 20-20 ±2  | 88  | 40                      | 85,3k  | 8/4                       | Six Pieces                       | Blk. Vnl.                            | Blk. Knit              | 200                       | 3000.00 Sys.                                      |                          |             |
| VIDEO ACOUSTICS                | VA 2200                   | In-Wall; Bass Ref.; Surround                            | 5½                      | 3½                        | Cone          | 1                        | Cone                      |   | 90-15 ±6.5                                  | 90                      | 20   | 600,4.5k                  | /8                               | 15 x 15 x 4                          |                        | Mtl.                      | 10  | 549.00 Pair              |             |
|                                | VA 2400                   | In-Wall; Ac. Sus.                                       | 6½                      |                           |               | ¾                        | Dome                      |   | 50-20 ±4                                    | 86                      | 20   | 2.2k                      | /8                               | 21 x 10 x 4                          |                        | Mtl.                      | 10  | 329.00 Each              |             |
| VIDEOTONE                      | Mini-Max Preludium        | Inf. Baf. Sealed Box                                    | 5¼                      |                           |               | 1                        | Dome Dome                 |   | 70-20 ±5 35-25 ±3                           | 89 20                   | 3k 3.5k                                      | 8/4 8/4                   | 11 x 7 x 7 19 x 10 x 9           | Blk. Oil. Wal.                       | Blk. Knit              | 17                        | 299.00 Pair 599.00 Pair                           |                          |             |
| VMPS                           | QSO 626                   | Ported  | (2)6½                   |                           | Cone          | 1                        | Dome                      | T   | 44-18 +0,-3                                 | 92                      | 20   | 2.5k                      | 4/4                              | 22 x 9 x 12                          | Oak                    | Blk.                      | 35  | 349.00 Each              |             |
|                                | QSO 404                   | Ported  | 8                       |                           |               | 1                        | Dome                      | T   | 48-17 +0,-3                                 | 90                      | 20   | 3.5k                      | 8/6                              | 18 x 12 x 9                          | Oak                    | Blk.                      | 25  | 229.00 Each              |             |
|                                | Mini Tower IIa            | Pas. Rad.   | (2)10                   | 5                         | Cone          | (2)1                     | Dome, Piezo Domes, Ribbon | M,T, ST   | 28-30 +0,-3                                 | 92                      | 20   | 500,4.5k, 15k             | 8/6                              | 39 x 12 x 15                         | Opt., Wood Opt., Wood  | Blk. Blk. Cloth           | 70  | 479.00 Each              |             |
|                                | Super Tower III           | Pas. Rad.   | (2)15, 12, (2)10        | (4)5                      | Cones         | (4)1, ¾x3                | M,T, ST                   |   | 17-50 +0,-3                                 | 98                      | 20   | 80,500, 4.5k,15k          | 8/6                              | 72 x 17 x 19                         | Opt., Wood             | Blk. Blk. Cloth           | 300   | 5600.00 Pair             |             |
|                                | QSO 808 Tower II          | Ported Multiband Bass                                   | (3)12                   | 5                         | Cone          | 1, (1)1.2                | Dome, Piezo Domes, Ribbon | M,T, ST   | 34-20 ±3 22-50 ±3                           | 94 95                   | 20   | 600,5k 80,400, 4k,12k     | 8/6 4/4                          | 26 x 15 x 12 43 x 15 x 15            | Oil. Wal. Oil. Wal.    | Blk. Knit Blk. Knit       | 50 95   | 758.00 Pair 1298.00 Pair |             |
|                                | Tower II Special Edition  | Multiband Bass  | (3)12                   | 5                         | Cone          | 1.2                      | Dome, Piezo Domes, Ribbon | M,T, ST   | 22-50 +0,-3                                 | 94                      | 20   | 80,600, 5k,15k            | 4/4                              | 15 x 16 x 45                         | Oak                    | Blk.                      | 100   | 1876.00 Pair             |             |
|                                | Super Tower/R             | Multiband Bass  | (2)15, 12               | (2)5                      | Cones         | (2)1, (2)2               | Domes, Ribbons            | M,T, ST   | 20-50 ±3                                    | 96                      | 20   | 80,400, 4k,12k            | 4/4                              | 49 x 22 x 17                         | Oil. Wal.              | Blk. Knit                 | 150   | 1998.00 Pair             |             |
|                                | Special Edition Smaller   | Multiband Bass  | (2)15, 10               | (2)5                      | Cones         | (2)1.2                   | Domes, Ribbons            | M,T, ST   | 20-50 +0,-3                                 | 94                      | 20   | 80,600, 5k,15k            | 4/4                              | 18 x 18 x 52                         | Oak                    | Blk.                      | 175   | 3400.00 Pair             |             |
|                                | Subwoofer Original        | Pas. Rad., Subwoofer.                                   | 12                      |                           |               |                          |                           |   |   | 28-600 ±3               | 92   | 20                        | Var.                             | 8/6                                  | 26 x 15 x 16           | Oil. Wal.                 | Blk. Knit   | 52                       | 359.00 Each |
|                                | Subwoofer Larger          | Pas. Rad., Subwoofer.                                   | 15,12                   |                           |               |                          |                           |   |   | 19-600 ±3               | 94   | 20                        | Var.                             | 8/6                                  | 27 x 22 x 17           | Oil. Wal.                 | Blk. Knit   | 95                       | 459.00 Each |
|                                | Dedicated Subwoofer       | Pas. Rad., Subwoofer.                                   | (2)12                   |                           |               |                          |                           |   |   | 17-250 ±3               | 95   | 20                        | Var.                             | 4/3                                  | 39 x 22 x 17           | Oil. Wal.                 | Blk. Knit   | 140                      | 649.00 Each |
|                                | Dipole Surround           | Dynamic Dipole  | (2)6                    |                           |               | (2)1                     | Domes                     | T   |   | 26-300 +0,-3            | 92   | 20                        | 100                              | 8/6                                  | 27 x 15 x 16           | Oak                       | Blk.  | 85                       | 459.00 Each |
| FF-1                           | Pas. Rad.                 | (3)12   | (2)5                    | Cones                     | (2)1, (1)1    | Domes, Ribbon            | M,T, ST                   |   | 55-18 ±3                                    | 88                      | 25   | 2.3k                      | 4/4                              | 12 x 8 x 7                           | Blk.                   | Blk. Cloth                | 22  | 349.00 Each              |             |
| WATERWORKS ACOUSTICS           | Soundpipe One             | Indoor/Outdoor, Sealed                                  | 5                       |                           |               | ½                        | Dome                      |   | 80-20 ±3                                    | 88                      | 10   | 6k                        | 8/6                              | 13 x 6 x 9                           | Opt.                   | Stainless Steel           | 6   | 399.00 Pair              |             |
|                                | Soundpipe Two             | Indoor/Outdoor, Sealed                                  | (2)5                    |                           |               | ¾                        | Dome                      |   | 80-20 ±3                                    | 90                      | 10   | 3k                        | 4/3                              | 22 x 6 x 9                           | Opt.                   | Stainless Steel           | 10  | 699.00 Pair              |             |
|                                | Soundpipe Sub             | Indoor/Outdoor, Sealed Subwoofer.                       | 10                      |                           |               |                          |                           |   | 30-100 ±3                                   | 90                      | 10   | 100                       | 4/3                              | 16 Dia. x 18                         | Opt.                   | Stainless Steel           | 30  | 499.00 Each              |             |
|                                | Soundrock                 | Sealed Fbgls. Rock                                      | 8                       |                           | (2)½          | Domes                    |                           |   | 40-25 ±3                                    | 90                      | 30   | 6k                        | 4/3                              | 26 x 21 x 16                         | Gran.                  | Gran.                     | 25  | 499.00 Each              |             |
| WAVEFORM                       | Mach 10                   | Tuned Port  | 15                      | (2)6½                     | Cones         | 1                        | Dome, Ribbon              | W   | 28-20 ±1                                    | 90                      | 150  | 150,2k                    | 8/4                              | 20 x 30 x 48                         | Blk. Gran.             | Blk. Knit                 | 180   | 7500.00 Pair w/Xover     |             |
| WAVEFRONT ACOUSTICS            | Peak One                  | Sealed  | 8¾                      |                           |               | 1½                       | Dome                      |   | 35-25 ±3                                    | 88                      | 30   | 2k                        | 5.5/5.5                          | 10 x 14 x 24                         | Oil. Wal.              | Blk. Cloth                | 55  | 4000.00 Pair             |             |
|                                | Peak Two                  | Sealed  | (2)8¾                   |                           |               | 1½                       | Dome                      |   | 35-25 ±3                                    | 90                      | 25   | 2k                        | 3.2/3.2                          | 12 x 14 x 36                         | Oil. Wal.              | Blk. Cloth                | 80  | 6000.00 Pair             |             |
|                                | Peak One Gold             | Sealed  | 8¾                      |                           |               | 1½                       | Dome                      |   | 35-25 ±3                                    | 88                      | 30   | 2k                        | 5.5/5.5                          | 10 x 15 x 24                         | Lacq. Wal.             | Blk. Cloth                | 75  | 7000.00 Pair             |             |
|                                | Peak Two Gold             | Sealed  | (2)8¾                   |                           |               | 1½                       | Dome                      |   | 35-25 ±3                                    | 90                      | 25   | 2k                        | 3.2/3.2                          | 12 x 15 x 36                         | Lacq. Wal.             | Blk. Cloth                | 100   | 10,000.00 Pair           |             |
|                                | Aspen                     | Ported  | (2)8                    | (2)6                      | Cones         | ¾                        | Dome                      |   | 28-27 ±3                                    | 86                      | 50   | 200,4k                    | 8/3                              | 46 x 12 x 19                         | Oil. Wal. Varn. Cherry | Blk. Cloth                | 150   | 3850.00 Pair             |             |
| WESTLAKE AUDIO                 | C-6                       | Ported  | 6                       |                           |               | ¾                        | Dome                      |   | 44-20 ±3                                    | 86                      | 50   | 2.3k                      | 6/4                              | 21 x 9 x 11                          | Blk. Oak               | Blk.                      | 30  | 1900.00 Pair             |             |
|                                | C-8                       | Ported  | 8                       | 3½                        | Cone          | ¾                        | Dome                      |   | 42-19 ±3                                    | 88                      | 50   | 500,2k                    | 4/3                              | 41 x 11 x 10                         | Blk. Oak               | Blk.                      | 50  | 3000.00 Pair             |             |
|                                | C-10                      | Ported  | 10                      | 3½                        | Cone          | ¾                        | Dome                      |   | 40-19 ±3                                    | 90                      | 50   | 400,2.4k                  | 4/3                              | 43 x 13 x 12                         | Blk. Oak               | Blk.                      | 70  | 3500.00 Pair             |             |
|                                | C-12                      | Ported  | 12                      | 6½                        | Cone          | ¾                        | Dome                      |   | 38-19 ±3                                    | 92                      | 50   | 400,1.8k                  | 4/2                              | 45 x 16 x 13                         | Blk. Oak               | Blk.                      | 95  | 5000.00 Pair             |             |
|                                | BBSM-4VNF                 | Ported  | (2)4                    |                           |               | ¾                        | Dome                      |   | 60-20 ±3                                    | 89                      | 50   | 1.5k                      | 4/2                              | 20 x 7 x 11                          | Opt.                   | Brn.                      | 48  | 2800.00 Pair             |             |
|                                | BBSM-5VNF                 | Ported  | (2)5                    |                           |               | 1¼                       | Dome                      |   | 58-18                                       | 90                      | 50   | 1.2k                      | 4/2                              | 22 x 7 x 12                          | Opt.                   | Brn.                      | 52  | 3000.00 Pair             |             |
|                                | BBSM-6VNF                 | Ported  | (2)6                    | 3½                        | Cone          | 1                        | Dome                      |   | 44-18 ±3                                    | 91                      | 50   | 550,5.5k                  | 4/2                              | 41 x 10 x 14                         | Opt.                   | Brn.                      | 85  | 4500.00 Pair             |             |
|                                | BBSM-8VNF                 | Ported  | (2)8                    | 3½                        | Cone          | 1                        | Dome                      |   | 42-18 ±3                                    | 93                      | 50   | 550,5.5k                  | 4/2                              | 42 x 12 x 16                         | Opt.                   | Brn.                      | 120   | 5500.00 Pair             |             |
|                                | BBSM-10VNF                | Ported  | (2)10                   | 6½                        | Cone          | 1¼                       | Dome                      |   | 40-16 ±3                                    | 95                      | 50   | 550,4k                    | 4/2                              | 46 x 14 x 19                         | Opt.                   | Brn.                      | 165   | 6500.00 Pair             |             |
|                                | BBSM-12VNF                | Ported  | (2)12                   | 6½                        | Cone          | 1¼                       | Dome                      |   | 38-16 ±3                                    | 96                      | 50   | 500,3.5k                  | 4/2                              | 47 x 17 x 21                         | Opt.                   | Brn.                      | 230   | 9000.00 Pair             |             |
|                                | BBSM-4F                   | Ported  | (2)4                    |                           |               | ¾                        | Dome                      |   | 60-20 ±3                                    | 89                      | 50   | 1.5k                      | 4/2                              | 8 x 15 x 10                          | Opt.                   | Brn.                      | 25  | 2500.00 Pair             |             |
|                                | BBSM-6F                   | Ported  | (2)6                    | 3½                        | Cone          | 1                        | Dome                      |   | 44-18 ±3                                    | 91                      | 50   | 550,5.5k                  | 4/2                              | 10 x 22 x 13                         | Opt.                   | Brn.                      | 55  | 4000.00 Pair             |             |
|                                | BBSM-8F                   | Ported  | (2)8                    | 3½                        | Cone          | 1                        | Dome                      |   | 42-18 ±3                                    | 93                      | 50   | 550,5k                    | 4/2                              | 13 x 26 x 16                         | Opt.                   | Brn.                      | 90  | 5000.00 Pair             |             |
|                                | BBSM-10F                  | Ported  | (2)10                   | 6½                        | Cone          | 1¼                       | Dome                      |   | 40-16 ±3                                    | 95                      | 50   | 600,4k                    | 4/2                              | 16 x 30 x 21                         | Opt.                   | Brn.                      | 115   | 6000.00 Pair             |             |
|                                | BBSM-12F                  | Ported  | (2)12                   | 6½                        | Cone          | 1¼                       | Dome                      |   | 38-16 ±3                                    | 96                      | 50   | 500,4k                    | 4/2                              | 19 x 34 x 23                         | Opt.                   | Brn.                      | 160   | 8500.00 Pair             |             |
|                                | BBSM-15F                  | Ported  | (2)15                   | 10                        | Cone          | 1                        | Horn                      |   | 50-15 ±3                                    | 99                      | 50   | 350,1.6k                  | 4/2                              | 27 x 41 x 25                         | Opt.                   | Brn.                      | 345   | 17,000.00 Pair           |             |
|                                | Tower 12                  | Ported  | (2)12                   |                           |               |                          | Horn                      |   | 38-16 ±3                                    | 97                      | 50   | 1.2k                      | 4/3                              | 55 x 27 x 23                         | Gloss                  | Blk.                      | 350   | 25,000.00 Pair           |             |
|                                | TM-3VF                    | Ported  | (2)15                   | 2                         | Horn          | 1                        | Horn                      |   | 34-16                                       | 99                      | 50   | 800,4.5k                  | 4/2                              | 44 x 34 x 21                         | Opt.                   | Opt.                      | 370   | 26,000.00 Pair           |             |
|                                | TM-3F                     | Ported  | (2)15                   | 2                         | Horn          | 1                        | Horn                      |   | 34-16 ±3                                    | 99                      | 50   | 800,4.5k                  | 4/2                              | 31 x 44 x 21                         | Opt.                   | Opt.                      | 345   | 25,000.00 Pair           |             |
|                                | HR-1VF                    | Ported  | (2)15                   | 2.10                      | Horn, Cone    | 1                        | Horn                      |   | 34-16 ±3                                    | 99                      | 50   | 250,1k, 4.5k              | 4/2                              | 48 x 34 x 21                         | Opt.                   | Opt.                      | 375   | 32,000.00 Pair           |             |
|                                | HR-1F                     | Ported  | (2)15                   | 2.10                      | Horn, Cone    | 1                        | Horn                      |   | 34-16 ±3                                    | 99                      | 50   | 250,1k, 4.5k              | 4/2                              | 31 x 44 x 21                         | Opt.                   | Opt.                      | 365   | 31,000.00 Pair           |             |
|                                | HR-7F                     | Ported  | (2)12                   | 10                        | Cone          | 1, ½                     | Horns                     |   | 40-20 ±3                                    | 97                      | 50   | 400,1.8k, 7.5k            | 4/2                              | 24 x 38 x 18                         | Opt.                   | Opt.                      | 185   | 25,500.00 Pair           |             |
| SM-1F                          | Ported                    | (2)18   | 2.12                    | Horn, Cone                | 1, ½          | Horns                    |                           | 20-20 ±3  | 101   | 200                     | 200,800, 3.2k, 10k                           | 4/2                       | 40 x 51 x 33                     | Opt.                                 | Opt.                   | 550                       | 75,000.00 Pair w/Xover                            |                          |             |

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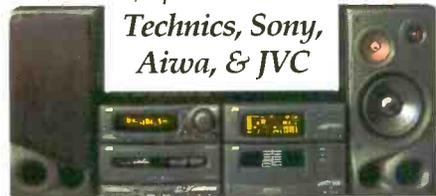
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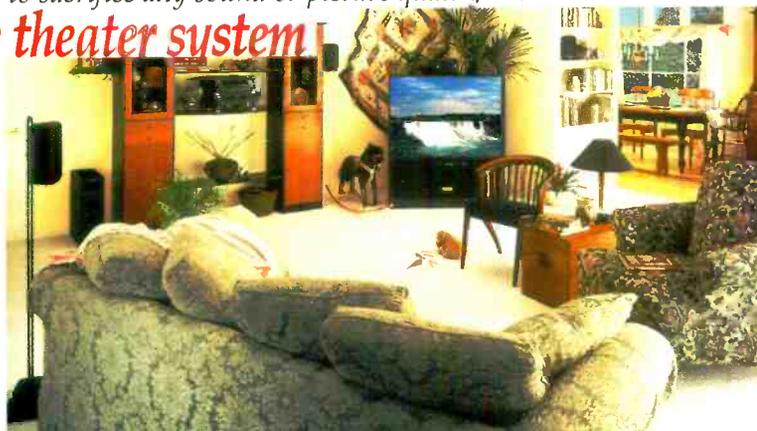
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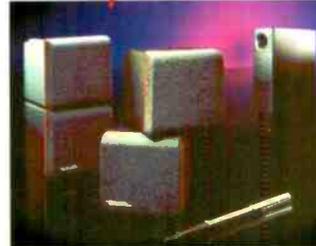
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| MANUFACTURER             | Model                                    | Application, Design Principle, Enclosure or System Type | Woofer Diameter, Inches | Midrange Diameter, Inches | Midrange Type | Tweeter Diameter, Inches | Tweeter Type | Separate Level Controls? Woofer-W Midrange-M Tweeter-T Super tweeter-ST Hz to kHz, ±dB | Anechoic Frequency Response, SPL, 1 Watt/1 Meter, dB | Recommended Minimum Amp Power, Watts/Channel | Crossover Frequencies, Hz | Impedance, Ohms: Nominal/Minimum | Dimensions, Inches (To Nearest Inch) | Finish         | Grille Color and Material | Weight, Lbs. Each | Price, \$           |                     |
|--------------------------|--|---|-------------------------|---------------------------|---------------|--------------------------|--------------|--|--|--|---------------------------|----------------------------------|--------------------------------------|----------------|---------------------------|-------------------|---------------------|---------------------|
| WHARFEDALE               | Modus Cube                               | Home Th., Sat.  | 4                       |                           |               |                          |              |  | 87   | 10   |                           | 8/                               | 6 x 6 x 5                            |                |                           | 4                 | 149.00 Each         |                     |
|                          | Modus Micro                              | Home Th., Sat.  | 4                       |                           |               |                          |              |  | 86   | 10   |                           | 8/                               | 9 x 6 x 5                            |                |                           | 10                | 229.00 Pair         |                     |
|                          | Modus Mini                               | Home Th., Pas. Rad., Sat.                               | 4                       |                           |               | ¾                        | Dome         |  | 86   | 10   |                           | 8/                               | 15 x 6 x 5                           |                |                           | 12                | 299.00 Pair         |                     |
|                          | Modus Centre Cube                        | Home Th.  | 4                       |                           |               |                          |              |  | 87   | 10   |                           | 8/                               | 6 x 7 x 5                            |                |                           | 4                 | 99.00 Each          |                     |
| WILSON AUDIO SPECIALTIES | Watt 5                                   | Ported  | 7                       |                           |               | 1                        | Dome         |  | 55-22  | 91   | 30                        | 2.5k                             | 12 x 17 x 14                         | Opt.           | Bik.                      | 65                | From 8200.00 Pair   |                     |
|                          | Watt 3                                   | Ported  | 6½                      |                           |               | 1                        | Dome         |  | 55-17  | 91   | 50                        | 2.5k                             | 12 x 17 x 14                         | Opt.           | Bik.                      | 60                | From 7450.00 Pair   |                     |
| WIN RESEARCH             | Puppy 5                                  | Ported Subwoof.   | (2)8                    |                           |               |                          |              |  | 28-125   | 91   | 50                        | 125                              | 24 x 11 x 16                         | Opt.           | Bik.                      | 95                | From 6500.00 Pair   |                     |
|                          | Puppy 2                                  | Ported Subwoof.   | (2)8                    |                           |               |                          |              |  | 28-125   | 91   | 50                        | 125                              | 24 x 11 x 16                         | Opt.           | Bik.                      | 80                | From 5450.00 Pair   |                     |
|                          | Whow 3                                   | Ported Subwoof.   | 15                      |                           |               |                          |              |  |  | 93   |                           | 55                               | 16 x 30 x 40                         | Opt.           | Bik.                      | Fr. 270           | From 9950.00 Each   |                     |
|                          | X-1/ Grand Slam WAMM Series 7            | Ported Sat. & Subwoof.                                  | 15, 12 (2) 9x13         | (2)6½                     | Cones         | (3)1                     | Domes        |  | 19.3-27  | 95   | 25                        |                                  | 16 x 25 x 72                         | Opt.           | Bik.                      | 450               | From 64,500.00 Pair |                     |
|                          | SM-10                                    | Tuned Port, Coaxial                                     | 8                       |                           |               | 1¼                       | Planar       |  | 50-25 ±2   | 90   | 25                        | 2.7k                             | 6/4                                  | 20 x 13 x 11   | Bik. Lacq.                |                   | 50                  | 6500.00 Pair        |
|                          | SM-8                                     | Tuned Port  | 8                       |                           |               | 1½                       | Planar       |  | 45-30 ±2   | 95   | 25                        | 1.7k                             | 8/6                                  | 20 x 13 x 11   | Bik. Lacq.                |                   | 50                  | 5500.00 Pair        |
|                          | WOLCOTT AUDIO                            | Omnisphere MDH-2B/2C                                    |                         | (4)6½                     |               |                          | 1½           | Dome   | T  | 30-20 ±3                                     | 90                        | 20                               | 1.8k                                 | 6/3            | 21 x 21 x 49              | Opt., Bik. Foam   | 110                 | From 4850.00 Pair   |
| YAMAHA                   | NS-A325                                  | Sat.  | 3½                      |                           |               | ¾                        | Dome         |  | 150-22 ±3  | 87   | 10                        | 3.5k                             | 6/                                   | 8 x 4 x 4      | Opt.                      | Opt. Knit         | 3                   | 170.00 Pair         |
|                          | NS-A525                                  | Ac. Sus.  | 6                       |                           |               | ¾                        | Dome         |  | 95-20 ±3.5   | 90   | 10                        | 3.5k                             | 8/                                   | 12 x 8 x 9     | Bik. Oak                  | Gray Knit         | 8                   | 125.00 Pair         |
|                          | NS-A635                                  | Ac. Sus.  | 8                       | 4                         | Cone          | ¾                        | Dome         |  | 90-20 ±3.5   | 91   | 10                        | 4.2k, 13k                        | 8/                                   | 16 x 10 x 12   | Bik. Oak                  | Gray Knit         | 16                  | 175.00 Pair         |
|                          | NS-A835                                  | Ac. Sus.  | 12                      | 4                         | Cone          | 1                        | Dome         |  | 50-20 ±3.5   | 92   | 10                        | 6k, 13k                          | 8/                                   | 33 x 15 x 14   | Bik. Oak                  | Gray Knit         | 33                  | 300.00 Pair         |
|                          | NS-A1235                                 | Ac. Sus.  | 12                      | 4                         | Cone          | 1                        | Dome         |  | 40-20 ±3.5   | 92   | 10                        | 600.4k                           | 8/                                   | 39 x 15 x 13   | Bik. Oak                  | Gray Knit         | 44                  | 400.00 Pair         |
|                          | NS-A2835                                 | Ac. Sus.  | (2)8                    | 4                         | Cone          | 1                        | Dome         |  | 50-20  | 92   | 10                        | 4.2k, 9.1k                       | 8/                                   | 42 x 11 x 14   | Bik. Knit                 | Bik. Knit         | 42                  | 499.00 Pair         |
|                          | NS-10M                                   | Ac. Sus.  | 7                       |                           |               | 1¾                       | Dome         |  | 60-20  | 90   |                           | 2k                               | 8/                                   | 8 x 15 x 8     | Bik. Knit                 | Bik. Knit         | 13                  | 398.00 Pair         |
|                          | NS-AC2                                   | Ac. Sus.  | (2)5                    |                           |               | 2                        | Cone         |  | 70-20  | 90   | 10                        | 8/                               | 6 x 18 x 6                           | Lacq.          |                           |                   |                     |                     |
|                          | NS-AC85                                  | Ac. Sus.  | (2)4                    |                           |               | ¾                        | Dome         |  | 70-20 ±3   | 90   | 10                        | 8/                               | 5 x 18 x 6                           | Bik. Knit      | Bik. Knit                 | 8                 | 99.00 Each          |                     |
|                          | NS-AC140                                 | Ac. Sus., Ctr. Ch.                                      | (2)5¼                   |                           |               | 1                        | Dome         |  | 60-20  | 90   | 10                        | 6k                               | 8/                                   | 6 x 19 x 7     | Bik. Knit                 | Bik. Knit         | 12                  | 99.00 Each          |
|                          | NS-AC200                                 | Ac. Sus., Ctr. Ch.                                      | (2)6½                   |                           |               | 1                        | Dome         |  | 50-20  | 90   | 10                        | 6k                               | 8/                                   | 8 x 21 x 10    | Bik. Knit                 | Bik. Knit         | 15                  | 149.00 Each         |
|                          | NS-AC300                                 | Ac. Sus., Ctr. Ch.                                      | (2)6½                   |                           |               | 1                        | Dome         | T  | 50-20  | 90   | 10                        | 6k                               | 8/                                   | 8 x 24 x 10    | Bik. Gloss                | Bik. Knit         | 24                  | 199.00 Each         |
|                          | WSX-10                                   | In-Wall   | 6¾                      |                           |               | 1                        | Dome         |  | 50-25  | 89   |                           | 2k                               | 6/                                   | 13 x 9 x 4     | Bik. Ivory                | Ivory Mtl.        | 5                   | 400.00 Pair         |
|                          | NS-E60                                   | Bass Ref.   | 4                       |                           |               |                          |              |  | 70-20  | 90   | 5                         |                                  |                                      | 7 x 9 x 4      | Cream                     | Screen Cream      | 3                   | 118.00 Pair         |
|                          | NS-E80                                   | Bass Ref., Effects                                      | 4                       |                           |               | 1¼                       | Cone         |  | 90-20 ±3   | 91   |                           | 6/                               | 8 x 11 x 3                           | Wht. Knit      | Wht. Knit                 | 4                 | 198.00 Pair         |                     |
|                          | NS-A90B                                  | Ac. Sus.  | 4½                      |                           |               | 2                        | Cone         |  | 120-18   | 91   | 5                         | 4/                               | 9 x 9 x 3                            | Wht. Vnl.      | Wht. Knit                 | 4                 | 79.00 Pair          |                     |
|                          | NS-A95                                   | Ac. Sus.  | 4½                      |                           |               | 2                        | Cone         |  | 120-18   | 91   | 5                         | 4/                               | 9 x 9 x 3                            | Bik. Vnl.      | Bik. Knit                 | 4                 | 79.00 Pair          |                     |
|                          | NS-A104                                  | Bass Ref., Effects                                      | 4                       |                           |               |                          |              |  | 60-20 ±3   | 88   | 5                         | 6/                               | 12 x 9 x 4                           | Cream          | Cream                     | 4                 | 149.00 Pair         |                     |
|                          | NS-A202                                  | Bass Ref., Effects                                      | 5                       |                           |               | ¾                        | Dome         |  | 70-20 ±3   | 91   | 10                        | 6/                               | 9 x 12 x 3                           | Wht. Knit      | Wht. Knit                 | 4                 | 198.00 Pair         |                     |
|                          | NS-AP100                                 | Ac. Sus., Effects                                       | (2)5, 4¼                |                           |               | 2                        | Cone         |  | 70-20  | 90   | 10                        | 8/                               | Three Pieces                         | Bik.           | Bik. Knit                 | 13                | 149.00 Sys.         |                     |
| NS-ACW1                  | TV Stand w/Ctr. Ch. & Bass Ref. Subwoof. | (2)10   | 6½                      |                           | 1             | Dome                     |              | 25-20 ±3.5   | 90   | 10   | 450.9k                    | 8/                               | 13 x 35 x 25                         | Bik. Vnl.      | Bik. Knit                 | 99                | 349.00 Each         |                     |
| YST-M10                  | Powered Bass Ref. Subwoof.               | 3½  |                         |                           |               |                          |              | 80-20 ±3   |  |  | 10 Inc.                   |                                  | 4 x 9 x 6                            | Opt. Blk. Vnl. | Opt. Blk. Knit            | 4                 | 99.95 Pair          |                     |
| YST-SW60                 | Powered Servo Subwoof.                   | 7   |                         |                           |               |                          | W            | 25-200   | 86   | 50   | Inc.                      |                                  | 8 x 19 x 14                          | Opt. Blk. Vnl. | Opt. Blk. Knit            | 29                | 329.00 Each w/Amp   |                     |
| YST-SW120                | Powered Servo Subwoof.                   | (2)7  |                         |                           |               |                          | W            | 21-180   | 90   | 70   | Inc.                      |                                  | 8 x 24 x 16                          | Bik. Vnl.      | Bik. Knit                 | 35                | 499.00 Each w/Amp   |                     |
| YST-SW200 (w/Remote)     | Powered Servo Subwoof.                   | (2)7  |                         |                           |               |                          | W            | 20-160 +0,-10  |  | 100  | Inc.                      | 40-140 (Var.)                    | 9 x 23 x 16                          | Bik.           | Bik. Knit                 | 40                | 599.00 Each         |                     |
| YST-SW500 (w/Remote)     | Powered Servo Subwoof.                   | 10  |                         |                           |               |                          | W            | 20-160 +0,-10  |  | 120  | Inc.                      | 40-140 (Var.)                    | 13 x 17 x 15                         | Gray           | Gray Knit                 | 49                | 849.00 Each         |                     |
| YAMAMURA SYSTEMS         | Dionisio                                 | Multi-horn  | 6½                      |                           |               |                          |              |  |  | 2  |                           | 8/                               | 72 x 36 x 48                         | Cork & Wood    | None                      | 110               | 25,000.00 Pair      |                     |
| YANKEE AUDIO             | FPR-72 MkIII                             | Planar Ribbon   | 1020 Sq. In.            |                           |               |                          |              |  | 29-20  | 88   | 50                        | None                             | 3/3                                  | 72 x 30 x 3    | Opt., Solid Wood          | Bik. Knit         | 135                 | From 12,000.00 Pair |
|                          | FPR-78                                   | Planar Ribbon   | 1658 Sq. In.            |                           |               |                          |              |  | 22-20  | 88   | 50                        | None                             | 4/4                                  | 78 x 35 x 3    | Opt., Solid Wood          | Bik. Knit         | 225                 | 22,000.00 Pair      |
|                          | FPR-III                                  | Planar Ribbon   | 531 Sq. In.             |                           |               |                          |              |  | 35-20  | 88   | 50                        | None                             | 3/3                                  | 70 x 18 x 3    | Opt., Solid Wood          | Bik.              | 100                 | 3500.00 Pair        |
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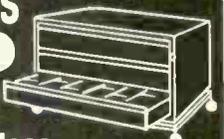
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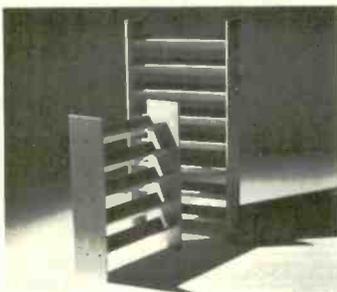


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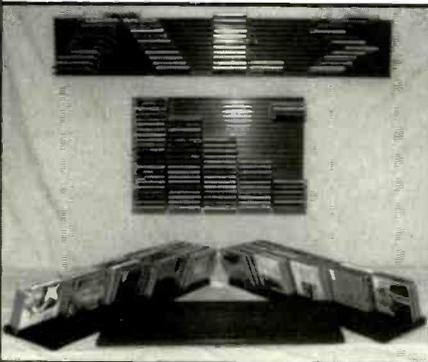
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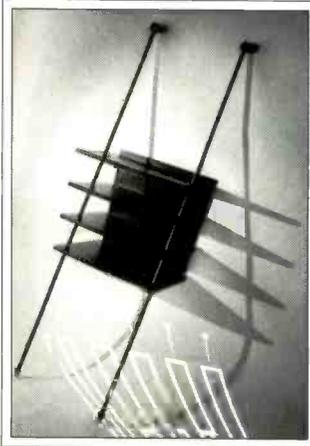
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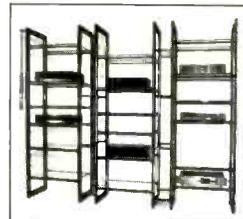
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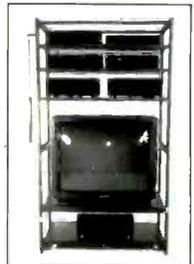


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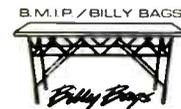


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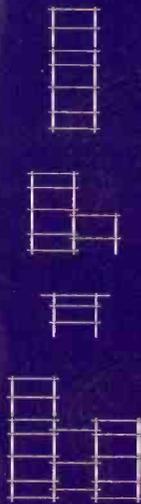
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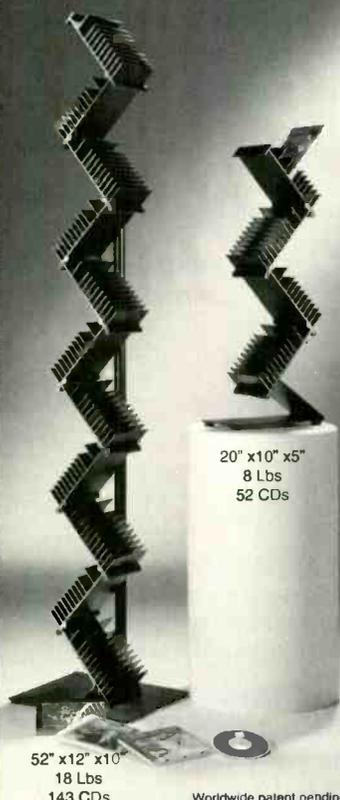
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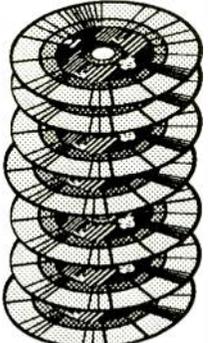
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| <b>KENWOOD</b><br>KNV-7050 325           | <b>ONKYO*</b><br>DX-2066 CALL               | <b>CLARION-COLLINS</b>        |
| <b>NAD*</b><br>710X 705 CALL             | <b>PIONEER</b><br>CD-D2502 CALL             | <b>COUSTIC-INFINITY*</b>      |
| <b>NAKAMICHI*</b><br>RECEIVER 2 CALL     | <b>PHILIPS</b><br>PD-DW902 265              | <b>JBL-KICKER*</b> CALL       |
| <b>ONKYO*</b><br>SV-909PRO IN            | <b>SONY</b><br>CDP-2735 269                 | <b>L.A. SOUND*</b> CALL       |
| <b>PIONEER</b><br>VSK-DIS II CALL        | <b>YAMAHA*</b><br>YCD-335 215               | <b>H.B. QUART-MTX</b>         |
| <b>SONY</b><br>STR-D1011S 369            | <b>YAMAHA*</b><br>RX-V1270 CALL             | <b>PHASE LINEAR</b>           |
| <b>SPARE PARTS</b>                       | <b>YAMAHA*</b><br>RY-V970 CALL              | <b>POLK*PPI*SONY</b>          |
| <b>BOS*</b><br>AM-S-17 LOWEST PRICE      | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SOUNDSTREAM*</b>           |
| <b>CLASSIC</b>                           | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>VIDEO</b>                  |
| <b>HARMAN KARDON*</b><br>ALL MODELS CALL | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SONY</b>                   |
| <b>INFINITY*</b><br>REFERENCE 2 295      | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>CCD TR-500</b> 949         |
| <b>MIRAGE</b><br>MANY MODELS CALL        | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>CCD TR-101</b> 899         |
| <b>NHT</b><br>FULL LINE CALL             | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>CCD TR-65</b> 599          |
| <b>PARADIGM*</b><br>TITAN 9270 CALL      | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>CCD TR-21</b> 499          |
| <b>POLK AUDIO*</b><br>S-8 NEW 160        | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>CCD TR-61</b> 549          |
| <b>PSB</b><br>MANY MODELS CALL           | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>CCD TR-91</b> 729          |
| <b>VELODYNE*</b><br>MANY MODELS CALL     | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>CCD TR-30</b> 569          |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>CCD TR-70</b> 689          |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>CCD TR-7M</b> 1199         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>EVC-100</b> 419            |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SONY PAL SYSTEM</b>        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-920</b> 369.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-150</b> 319.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-420</b> 299.99         |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000 SUPR VHS</b>      |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000S VHS</b> 839.99   |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-750</b> SAME AS TR-01  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-556</b> SAME AS TR-91  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-340</b> SAME AS TR-65  |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-460</b> CCD/HR 2499.99 |
|  | <b>YAMAHA*</b><br>CDD-725 CALL              | <b>SLV-1000</b> 949.99        |
|  |   |                               |



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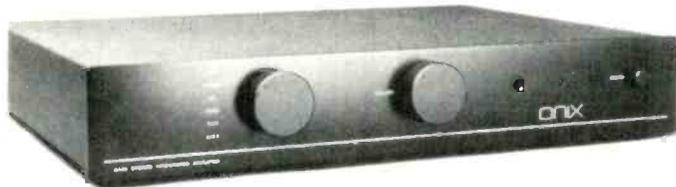
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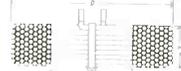
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2888 30th St., #2  
Boulder, Colo. 80301

E.F.A.  
1322 Garner Ave.  
Schenectady, N.Y. 12309

Eidolon Research  
P.O. Box 651  
Urbana, Ill. 61801

Eloc  
See Music to Believe

# 1994 COMPANY ADDRESSES

Electrocompaniet  
See EuroSön

Electronic Visionary  
Systems  
2160 Londonderry Ct.  
Walnut Creek, Cal. 94596

Electrostatic Research  
1015 Laramie St.  
Anaheim, Cal. 92806  
FAX: (714) 996-3266

Electro-Voice  
600 Cecil St.  
Buchanan, Mich. 49107  
FAX: (616) 695-1304

Elite  
See Pioneer

Eminent Technology  
225 East Palmer St.  
Tallahassee, Fla. 32301  
FAX: (904) 224-5999

Encore Electronics  
14818 Goodman  
Overland Park, Kans.  
66223

Energy  
See API

Ensemble  
119 Main St.  
Mount Kisco, N.Y. 10549  
FAX: (914) 241-3196

Entec  
See Crosby Audio Works

Epik Monitor Systems  
129 Woodsworth Lane  
Pleasant Hill, Cal. 94523

Epos  
See Music Hall

Esoteric  
See TEAC

Esoteric Audio Research  
See Discovery Cable

Esoteric Audio U.S.A.  
44 Pearl Pentecost Rd.  
Winder, Ga. 30680  
FAX: (404) 867-2713

Esoteric Sound  
4813 Wallbank Ave.  
Downers Grove, Ill. 60515  
FAX: (708) 960-9137

Esoteric Speaker Products  
60525 Skyway Dr.  
Bend, Ore. 97702  
FAX: (503) 383-1556

Essence  
805 'M' St.  
Lincoln, Nebr. 68508

Etymotic Research  
61 Martin Lane  
Elk Grove Village, Ill.  
60007

Eugenex  
2259 Ward Ave.  
Simi Valley, Cal. 93065

EuroSön  
40 Cain Dr.  
Brentwood, N.Y. 11717  
FAX: (516) 273-4240

Euro-Tech  
19 West 44th St., #1010  
New York, N.Y. 10036  
FAX: (212) 840-2234

Exposure Electronics  
P.O. Box 26736  
Austin, Tex. 78755  
FAX: (512) 338-1343

Expressive Technologies  
P.O. Box 6401  
Holliston, Mass. 01746  
FAX: (508) 429-6583

Fanfare FM  
P.O. Box 455  
Buffalo, N.Y. 14225  
FAX: (905) 793-5984

Fenton Audio  
P.O. Box 212  
Yellow Springs, Ohio  
45387

Fidelus  
See Apex Marketing

First Sound  
833 S.W. Sunset, #157  
Renton, Wash. 98055  
FAX: (206) 277-8653

Fisher  
21350 Lassen St.  
Chatsworth, Cal. 91313

FM Acoustics  
Seestrasse 5A  
CH-8810 Horgen  
Switzerland  
FAX: (011) 411-725-7790

Focus Audio  
43 Riviera Dr., #10  
Markham, Ont.  
Canada L3R 5J6

Forté Audio  
See Threshold

Fosgate-Audionics  
80 Crossways Park West  
Woodbury, N.Y. 11797

Fried Products  
1323 Conshohocken Rd.  
Norristown, Pa. 19401  
FAX: (610) 277-4390

Fuji  
555 Taxter Rd.  
Elmsford, N.Y. 10523

## G

G and D Transforms  
2515 East Thomas Rd.  
Suite 76-721  
Phoenix, Ariz. 85016  
FAX: (602) 275-8122

GC Electronics  
P.O. Box 1209  
Rockford, Ill. 61105

Gemini Sound Products  
1100 Milik St.  
Carteret, N.J. 07008  
FAX: (908) 969-9090

Genelac  
See QMI

Genesis Technologies  
P.O. Box 669  
Minturn, Colo. 81645

Geode  
See Amrita Audio

German Acoustics  
5883 North Victoria Dr.  
Indianapolis, Ind. 46208  
FAX: (317) 299-5578

Gertner Audio  
P.O. Box 14294  
Research Triangle Park,  
N.C. 27709

Gillum Loudspeaker  
Systems  
P.O. Box 123  
Ridgedale, Mo. 65739

Golden String  
P.O. Box 2439  
Redmond, Wash. 98073  
FAX: (206) 558-0891

Golden Tube Audio  
See Solo Electronics

Goldring  
See Music Hall

Gold Sound  
P.O. Box 141  
Englewood, Colo. 80151

Goldstar Electronics  
1000 Sylvan Ave.  
Englewood Cliffs, N.J.  
07632

Gordon Instruments  
P.O. Box 150644  
Nashville, Tenn. 37215

Gradient  
See Pro Audio Ltd.

Grado Laboratories  
4614 Seventh Ave.  
Brooklyn, N.Y. 11220

Joseph Grado  
Signature Products  
921 Tice Pl.  
Westfield, N.J. 07090

Graham Engineering  
6 Kimball Park  
Suite 113  
Woburn, Mass. 01801

Greencorp Magnetics  
1015 West Newport  
Center Dr.  
Suite 105  
Deerfield Beach, Fla  
33442  
FAX: (305) 429-9214

Green Mountain Audio  
111 South 28th St.  
Colorado Springs, Colo.  
80904  
FAX: (719) 633-7066

Gryphon Audio Designs  
4353-G Tuller Rd.  
Dublin, Ohio 43017  
FAX: (614) 792-1411

Reuben Guss  
Enterprises  
215 West 92nd St.  
Suite 7B  
New York, N.Y. 10025

## H

Haffler  
613 South Rockford Dr.  
Tempe, Ariz. 85281  
FAX: (602) 894-1528

Hales Design Group  
16812 Gothard St  
Huntington Beach, Cal.  
92647  
FAX: (714) 841-2427

Hanks Electric Co.  
757 West Montrose St.  
Clermont, Fla. 34711  
FAX: (904) 394-1530

Harbeth Acoustics  
See Musical Surroundings

Harman Kardon  
80 Crossways Park West  
Woodbury, N.Y. 11797

Harmonic Precision  
427 South Upper  
Lexington, Ky. 40508  
FAX: (606) 259-0206

Harms Sound Labs  
2016 Laporte Ave.  
Fort Collins, Colo. 80521  
FAX: (303) 482-0730

Harrison Laboratories  
P.O. Box 1349  
Parker, Colo. 80134  
FAX: (303) 841-2927

Hartley Products  
P.O. Box 4794  
Wilmington, N.C. 28406  
FAX: (910) 392-1077

HeadRoom  
P.O. Box 6549  
521 East Peach  
Bozeman, Mont. 59771  
FAX: (406) 587-9484

High Biscuit  
Audio Systems  
530 North Main St.  
Apt. 202  
Butler, Pa. 16001

Highwire Audio  
1275 Vicente Dr., #189  
Sunnyvale, Cal. 94086

Hovland  
P.O. Box 629  
Culver City, Cal. 90232

Hsu Research  
20013 Rainbow Way  
Cerritos, Cal. 90703  
FAX: (310) 924-7550

HTP International  
1620 South Lewis St.  
Anaheim, Cal. 92805

Hubbell Sound Systems  
P.O. Box 30136  
Des Moines, Iowa  
50310

## I

Ikeda  
See AXISS Distribution

Impulse  
Route 2, Box 477  
Dover, Ark. 72837

Incus Speaker Systems  
5195 Main St  
Williamsville, N.Y. 14221  
FAX: (800) 446-0065

Infinity Systems  
9409 Owensmouth Ave.  
Chatsworth, Cal. 91311

Intersonics  
See Quantum Sound

In-Wall Audio  
P.O. Box 6674  
Incline Village, Nev. 89450

Island Audio  
49 Cedar Swamp Rd.  
Glen Cove, N.Y. 11542

Itone Audio  
3429 Morningside Dr.  
El Sobrante, Cal. 94803  
FAX: (510) 232-3837

## J

Jackson Loudspeaker Co.  
4524 North 35th Pl.  
Phoenix, Ariz. 85018

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Jamo  
United Audio Center  
1907 Janke Dr.  
Northbrook, Ill. 60062

Janis  
See John Marovskis

Jasco Products  
P.O. Box 466  
Oklahoma City, Okla.  
73101

JBL Consumer Products  
80 Crossways Park West  
Woodbury, N.Y. 11797

Jensen  
25 Tri-State Intl. Office Ctr.  
Suite 400  
Lincolnshire, Ill. 60069

JMLab  
See Prism Audio Group

Joseph Audio  
2 Pineridge Rd.  
White Plains, N.Y.  
10603  
FAX: (212) 724-2509

Joule Electra  
222 Post Oak Lane  
North Augusta, S.C.  
29841  
FAX: (803) 279-6461

JPW  
See Music Hall

JRM Engineering  
3716 Broadway N.E.  
Knoxville, Tenn. 37917

JS Audio  
643 Speedwell Ave.  
Morris Plains, N.J. 07950

JVC  
41 Slater Dr.  
Elmwood Park, N.J. 07407

## K

KAB Electro-Acoustics  
P.O. Box 2922  
Plainfield, N.J. 07062

George Kaye  
Audio Labs  
368 Third Ave.  
New York, N.Y. 10016

KEF  
89 Doug Brown Way  
Holliston, Mass. 01746  
FAX: (508) 429-3699

Kenwood  
2201 East Dominguez St.  
Long Beach, Cal. 90810

Kimber Kable  
2752 South 1900 West  
Ogden, Utah 84401

Kinergetics  
Research  
4260 Charter St.  
Vernon, Cal. 90058  
FAX: (213) 582-9434

Kinetic Audio  
P.O. Box 215  
Arlington Heights, Ill.  
60006

Kintek  
224 Calvary St.  
Waltham, Mass. 02254  
FAX: (617) 647-4235

Kirksaeter  
Niederrheinstrasse 193  
D-40470 Düsseldorf 30  
Germany  
FAX: (011) 49  
211-454-2929

KLH  
11131 Dora St.  
Sun Valley, Cal. 91352  
FAX: (818) 767-8246

Klimo  
See Audio Advancements

Klipsch  
8900 Keystone Crossing  
Suite 1220  
Indianapolis, Ind. 46240

Klyne  
Audio Arts  
20604 Grand Mound Way  
S.W.  
Centralia, Wash. 98531

Knöll  
1574 Gulf Rd.  
Suite 1206  
Point Roberts, Wash.  
98281  
FAX: (604) 272-5595

Koss  
4129 North Port  
Washington  
Milwaukee, Wis.  
53212  
FAX: (414) 964-8615

Krell  
45 Connair Rd.  
Orange, Conn. 06477

KRON  
See EADG

KSS  
Audio Engineering  
2973 Calle Gaucho  
San Clemente, Cal. 92672

Kuzma  
See Muse Electronics

## L

Lamm Audio Laboratory  
185 Avenue 'S'  
Brooklyn, N.Y. 11223  
FAX: (718) 382-9093

Lancer Electronics  
12340 McCann Dr.  
Santa Fe Springs, Cal.  
90670

Langevin  
13880 Magnolia Ave.  
Chino, Cal. 91710

LAT International  
317 Provincetown Rd.  
Cherry Hill, N.J. 08034  
FAX: (609) 428-1832

Legacy Audio  
See Reel to Real Designs

Legend Audio  
5775 Lindero Canyon Rd.  
Westlake Village, Cal.  
91362  
FAX: (818) 879-5717

Lenbrook  
633 Granite Ct.  
Pickering, Ont.  
Canada L1W 3K1  
FAX: (905) 831-6936

P. E. Léon  
See Dimexs

Mark Levinson  
See Madrigal

Lexicon  
100 Beaver St.  
Waltham, Mass. 02154  
FAX: (617) 891-0340

Linaeum  
1238 N.W. Glisan  
Suite 404  
Portland, Ore. 97209

Linear Acoustic  
See Music to Believe

Linn  
See Audiophile Systems

Lirpa Labs  
Main & Elm Sts.  
New York, N.Y. 10101  
FAX: (900) 410-8463

London (Decca)  
See Pro Audio Ltd.

Loran  
10-48 Clark St.  
Warren, Pa. 16365

LT Sound  
7980 LT Pkwy.  
Lithonia, Ga. 30058  
FAX: (404) 482-6972

David Lucas, Inc.  
924 Hulton Rd.  
Oakmont, Pa. 15139  
FAX: (412) 828-0422

Luxman Electronics  
915 Washington Ave. S.  
Minneapolis, Minn. 55415  
FAX: (612) 338-8129

## M

Mach 1 Acoustics  
R.R. 2, Box 334-A  
Wilton, N.H. 03086  
FAX: (603) 654-9826

Madison Fielding  
200 William St.  
Port Chester, N.Y. 10573

Madisound  
P.O. Box 44283  
Madison, Wisc. 53744  
FAX: (608) 831-3771

Madrigal Audio  
Laboratories  
P.O. Box 781  
Middletown, Conn. 06457  
FAX: (203) 346-1540

Magnavox  
See Philips

Magnepan  
1645 Ninth St.  
White Bear Lake, Minn.  
55110  
FAX: (612) 426-0441

Magnum Dynalab  
8 Strathearn Ave., Unit 9  
Brampton, Ont.  
Canada L6T 4I9  
FAX: (905) 791-5583

Magnum Dynalab U.S.A.  
1237 East Main St.  
Rochester, N.Y. 14609  
FAX: (716) 482-8859

Manley Laboratories  
13880 Magnolia Ave.  
Chino, Cal. 91710

Marantz  
440 Medinah Rd.  
Roselle, Ill. 60172  
FAX: (708) 307-2687

Marchand Electronics  
P.O. Box 473  
Webster, N.Y. 14580  
FAX: (716) 872-1960

John Marovskis  
Audio Systems  
2889 Roebbling Ave.  
Bronx, N.Y. 10461

Marquis Electronics  
901 Charity St.  
Abbeville, La. 70510

Martin-Logan  
P.O. Box 707  
Lawrence, Kans. 66044

Mastercraft Audio  
Box 2661  
Huntington Station, N.Y.  
11746

Mavrick  
Southern California  
Phone: (619) 432-6666

Maxell  
22-08 Route 208 South  
Fair Lawn, N.J. 07410  
FAX: (201) 796-8795

May Audio Marketing  
P.O. Box 1048  
Champlain, N.Y. 12919

MBI  
8655 East Via De Ventura  
Suite G-263  
Scottsdale, Ariz. 85258

MB Quart  
Electronics  
25 Walpole Park South  
Walpole, Mass. 02081  
FAX: (508) 668-8979

McCormack Audio  
542 North Hwy. 101  
Leucadia, Cal. 92024  
FAX: (619) 436-0107

McIntosh Laboratory  
2 Chambers St.  
Binghamton, N.Y. 13903

Melos Audio  
452 Lincoln Blvd.  
Middlesex, N.J. 08846  
FAX: (908) 302-0507

Memorex  
10100 Pioneer Blvd.  
Suite 110  
Santa Fe Springs, Cal.  
90670

Meret Audio  
10920 Indian Tr., #301  
Dallas, Tex. 75229  
FAX: (214) 243-0332

Meridian  
3800 Camp Creek Pkwy.  
Bldg. 2400, Suite 112  
Atlanta, Ga. 30331  
FAX: (404) 346-7111

Merlin Music Systems  
4705 South Main St.  
Hemlock, N.Y. 14466  
FAX: (716) 367-2685

Merrill Audio  
2125 Central Ave.  
Memphis, Tenn. 38104

Metaphor  
Acoustic Designs  
15390 Twin Creeks Ct.  
Centreville, Va. 22020

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Metaxas Audio Systems  
20 MacQuarie St.  
Prahran  
Melbourne, Victoria 3181  
Australia  
FAX: (011) 613-510-1522

Michael Green Designs  
See Ultra Systems

J. A. Michell  
See Artech Electronics

Micromega  
See Golden String

Milbert Amplifiers  
P.O. Box 1027  
Germantown, Md. 20874  
FAX: (301) 428-0831

Mirage  
See API

Mission Electronics  
400 Matheson Blvd. East  
Unit 31  
Mississauga, Ont.  
Canada L4Z 1N8

MIT  
Music Interface  
Technologies  
3037 Grass Valley, #8212  
Auburn, Cal. 95603

M & K Sound  
10391 Jefferson Blvd.  
Culver City, Cal. 90232  
FAX: (310) 202-8782

Modern Audio  
Consultants  
112 Swanhill Ct.  
Baltimore, Md. 21208

Monarchy Audio  
380 Swift Ave., #21  
South San Francisco, Cal.  
94080  
FAX: (415) 588-0335

Mondial  
2 Elm St.  
Ardley, N.Y. 10502  
FAX: (914) 693-7199

Monitor Audio  
P.O. Box 1355  
Buffalo, N.Y. 14205  
FAX: (905) 428-0004

Monrio  
See RB Electronics

Monster Cable  
274 Watis Way  
South San Francisco, Cal.  
94080

Bruce Moore Audio Design  
See RB Electronics

March  
See Audio Advancements

Mordaunt-Short  
See Audio Plus Services

Morel Acoustics  
414 Harvard St.  
Brookline, Mass. 02146  
FAX: (617) 277-2415

Morrison Audio  
334 King St. East  
Unit 407  
Toronto, Ont.  
Canada M5A 1K8

MSB Technology  
P.O. Box 141  
Moss Beach, Cal. 94038  
FAX: (415) 747-0405

MTX  
MTX Soundcraftsmen  
The Pointe at South  
Mountain  
4545 East Baseline Rd.  
Phoenix, Ariz. 85044  
FAX: (602) 438-8692

Museatex Audio  
ADS Technologies  
One Progress Way  
Wilmington, Mass. 01887  
FAX: (508) 658-8498

Muse Electronics  
P.O. Box 2198  
Garden Grove, Cal.  
92642  
FAX: (714) 554-5643

Musical Concepts  
1832 Borman Ct.  
Suite 1  
St. Louis, Mo. 63031

Musical Design  
See Musical Concepts

Musical Surroundings  
5856 College Ave.  
Suite 146  
Oakland, Cal. 94618  
FAX: (510) 420-0392

Music for Others  
7714 Big Bend Blvd.  
St. Louis, Mo. 63119  
FAX: (314) 645-6434

Music Hall  
108 Station Rd.  
Great Neck, N.Y. 11023

Music Reference  
P.O. Box 40807  
Santa Barbara, Cal.  
93140  
FAX: (805) 250-1825

Music & Sound Imports  
See Camelot Technology

Music to Believe  
1135 North Main St.  
Naperville, Ill. 60563  
FAX: (708) 983-6073

MXC  
16730 Schoenborn St.  
North Hills, Cal. 91343  
FAX: (818) 894-8094

J & J Myers  
22 Parsons Dr.  
Swampscott, Mass. 01907  
FAX: (617) 581-2164

## N

NAD  
See Lenbrook

Nady Systems  
6701 Bay St.  
Emeryville, Cal. 94608  
FAX: (510) 652-5075

Naim Audio  
1748 North Sedgwick St.  
Chicago, Ill. 60614

Nakamichi  
955 Francisco St.  
Torrance, Cal. 90502

NBS Audio Cables  
401 First St. South, #302  
Minneapolis, Minn. 55401

N.E.A.R.  
New England  
Audio Resource  
12 Foss Rd.  
Lewiston, Maine 04240  
FAX: (207) 795-0613

NEI  
5337 North Marine Dr.  
Portland, Ore. 97203  
FAX: (503) 289-8361

Nelson-Reed  
8440 North Willbrook  
Unit 169  
Fresno, Cal. 93720

Nestorovic Laboratories  
8307 N.E. 110th Pl.  
Kirkland, Wash. 98034

N.E.W.  
Box 1148  
Rancho Santa Fe, Cal.  
92067  
FAX: (619) 756-4099

Newform Research  
P.O. Box 475  
Midland, Ont.  
Canada L4R 4L3  
FAX: (705) 835-9000

NHT  
Now Hear This  
535 Getty Ct.  
Bldg. A  
Benicia, Cal. 94510

Nikko Audio  
See AVS Technologies

Niles Audio  
P.O. Box 160818  
Miami, Fla. 33116  
FAX: (305) 238-0185

Nitty Gritty  
4650 Arrow Hwy., #F4  
Montclair, Cal. 91763

Nobis Technologies  
N-114 W-18605  
Clinton Dr.  
Germantown, Wisc.  
53022  
FAX: (414) 253-9033

Noise Cancellation  
Technologies  
800 Summer St.  
Stamford, Conn. 06901  
FAX: (203) 348-4106

Nonspeaker  
See Mavrick

Nordost Corp.  
58 Pearl St.  
Framingham, Mass. 01701

Norman Laboratories  
1905 Atchison Dr.  
Norman, Okla. 73069

NPR Audio  
Route 109  
P.O. Box 440  
Melville Village, N.H.  
03850

NSM Consumer Electronics  
See EuroSön

NSM Loudspeakers  
P.O. Box 326  
Garden City, N.Y. 11530  
FAX: (516) 538-0933

Numark  
111 Dupont Dr.  
Providence, R.I. 02907  
FAX: (401) 946-5350

NuReality  
2907 Doimler St.  
Santa Ana, Cal. 92705

## O

OCM Technology  
See Magnum Dymalab

OEM Systems  
740 Freepart  
Suite 106  
Sparks, Nev. 89431  
FAX: (800) 291-0561

Ohm Acoustics  
241 Taaffe Pl.  
Brooklyn, N.Y. 11205  
FAX: (718) 857-2472

Onix  
See Audiophile Imports

Onkyo  
200 Williams Dr.  
Ramsey, N.J. 07446

Optimus  
See Radio Shack

Oracle Audio  
See Audio Plus Services

Orltron Electronics  
See SW Marketing

Ortofon  
65 East Bethpage Rd.  
Plainview, N.Y. 11803

Örvös  
R.R. 4  
Brighton, Ont.  
Canada K0K 1H0  
FAX: (613) 475-3633

OVI  
1160 Mahalo Pl.  
Compton, Cal. 90220

Owl  
See Audio "78"

Oxford  
See Knöll

## P

PAC  
Perfectionist  
Audio Components  
32 Church St.  
Malverne, N.Y. 11565  
FAX: (516) 887-6009

Pacific Sound & Signal  
See Knöll

Packburn Electronics  
P.O. Box 335  
DeWitt, N.Y. 13214

Panasonic  
One Panasonic Way  
Secaucus, N.J. 07094

Paradigm  
See AudioStream

Paradox  
16350 Enramada Rd.  
Victorville, Cal. 92392

Paragon Acoustics  
123 State St.  
St. Paul, Minn. 55107  
FAX: (612) 224-7674

Paramount Pictures  
See HTP International

Parasound  
950 Battery St.  
San Francisco, Cal. 94111  
FAX: (415) 397-0144

Pass Laboratories  
21555 Limestone Way  
Foresthill, Cal. 95631  
FAX: (916) 367-2193

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PBN Speakers  
See Audiovector

Pegasus Audio  
See The Speaker Factory

Perreux Technologies  
P.O. Box 248  
Buffalo, N.Y. 14225  
FAX: (716) 896-9802

Persona Technologies  
See Monster Cable

Peterson-Klaus  
See Sound Values

Phase Technology  
6400 Youngerman Cir.  
Jacksonville, Fla. 32244

Philips  
One Philips Dr.  
Knoxville, Tenn. 37914

PhyZics  
2680 Post Oak Ct. N.E.  
Marietta, Ga. 30062

Pickering  
101 Sunnyside Blvd.  
Plainview, N.Y. 11803  
FAX: (516) 349-0230

Pink Triangle  
See Pro Audio Ltd.

Pinnacle Loudspeakers  
255 Executive Dr.  
Plainview, N.Y. 11803

Pioneer  
P.O. Box 1540  
Long Beach, Cal. 90801  
FAX: (310) 952-2821

Pioneer Electronics Technology  
1800 West Holt Ave.  
Pomona, Cal. 91768  
FAX: (909) 623-9923

Placete Engineering  
7345 Cascade  
Boise, Idaho 83704  
FAX: (208) 377-9378

Platinum Electronics  
1095 Spice Island Dr.  
Sparks, Nev. 89431

PointSource Audio  
P.O. Box 788  
Whiting, Ind. 46394

Polk Audio  
5601 Metro Dr.  
Baltimore, Md. 21215  
FAX: (410) 764-5266

Polyfusion Audio  
30 Ward Rd.  
Lancaster, N.Y. 14086  
FAX: (716) 681-2763

POSH Speaker Systems  
7865 N.E. Day Rd. West  
Bainbridge Island, Wash.  
98110

Presence Audio  
See First Sound

Pres Speakers  
123-A North Main St.  
S. Deerfield, Mass. 01373

Prism Audio Group  
14038 Tanglewood Ct.  
Dallas, Tex. 75234  
FAX: (214) 980-1687

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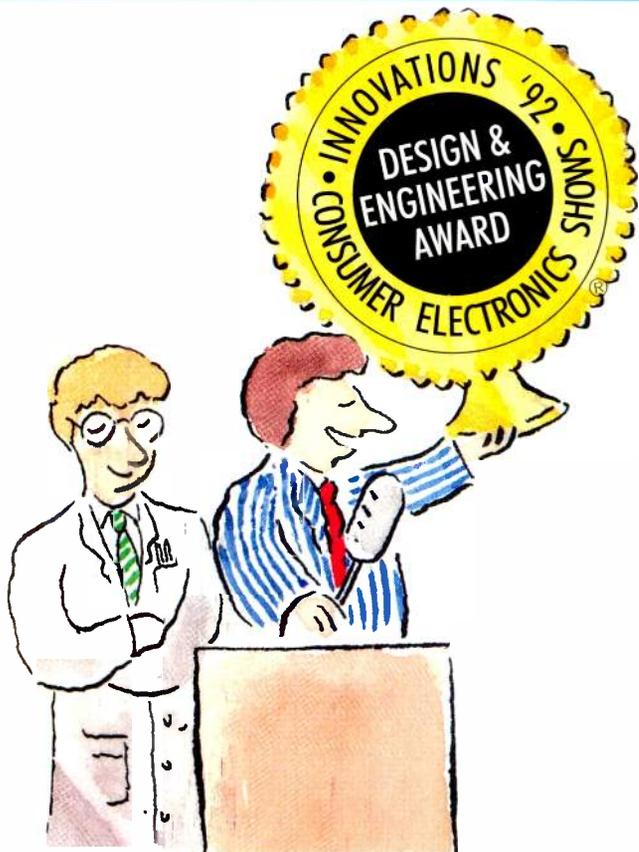


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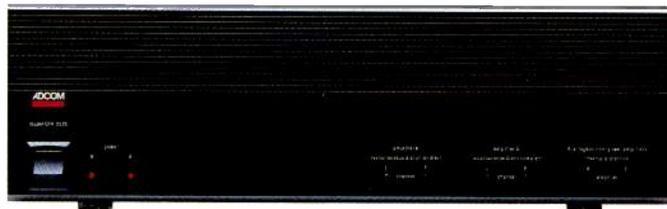
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