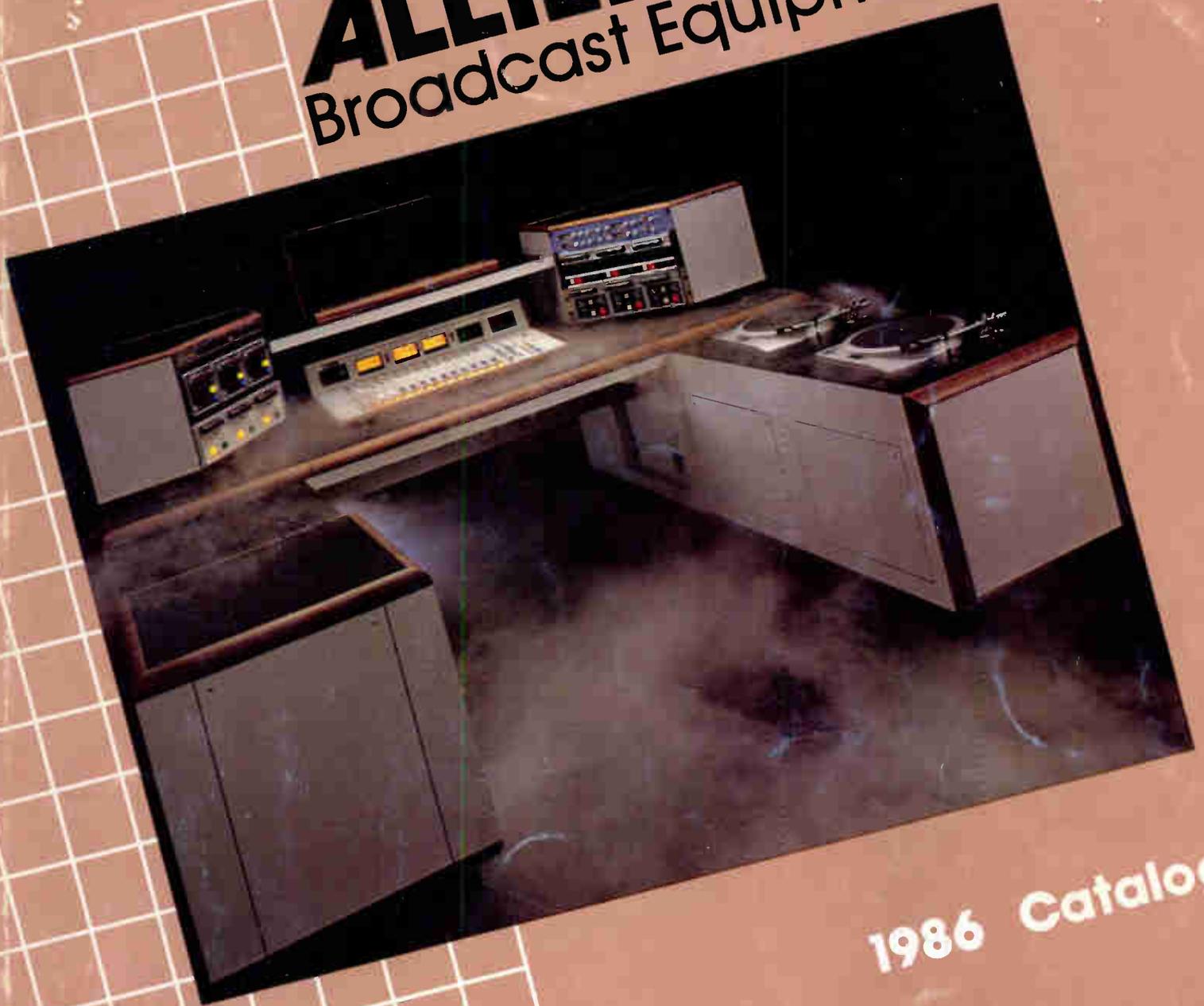
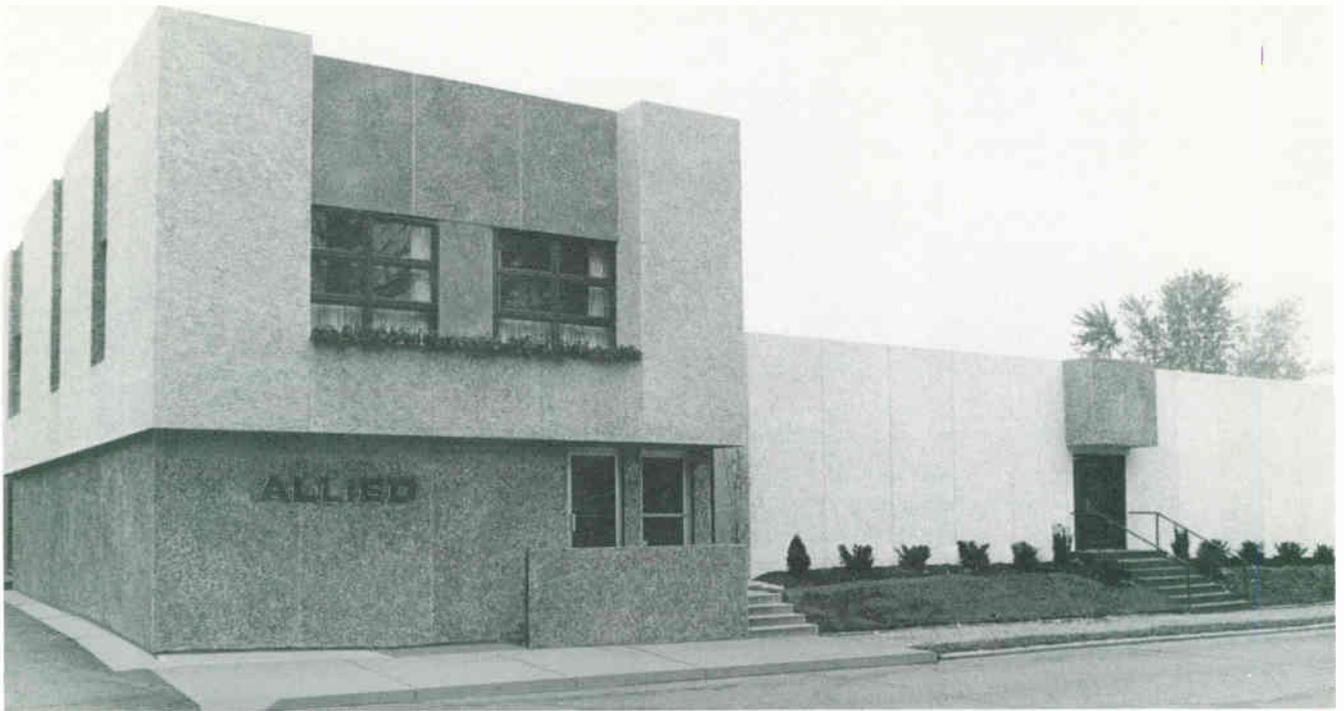


ALLIED

Broadcast Equipment



1986 Catalog



CORPORATE OFFICE: 635 South E Street • P. O. Box 1487 • Richmond, IN 47375

Dear Broadcasters:

As technology moves forward, so does the ability of Allied to accommodate you with the latest advances the industry offers.

With this 1985-86 catalog issue you will find many new and innovative items -- as well as the familiar standbys. Allied Broadcast is excited with our growth and continued maintenance of our leader position in the field of domestic audio broadcast equipment, as well as a leader in the world marketplace through Allied International with some 60 world-wide representatives. We also lead the way in space with our Satellite Broadcast Equipment, and most recently established Allied Broadcast Equipment Canada, Ltd.

It has been a great year for us, and although we are growing, you will find the same friendly, honest atmosphere in our sales, service and quote endeavors.

We're proud of the Allied "family" and the personal touch method of doing business in today's sophisticated environment.

Our business depends upon the people we deal with -- broadcasters. If you feel we are "doing our thing" right, we'd appreciate your comments. By the same token, if you feel we've "done you wrong," your message is just as important. Allied is here to serve you. What better way than listening to our clientele? Thanks!

Sincerely,

ROY M. RIDGE
President
Allied Corporation

DAVID C. BURNS
National Sales Manager
Allied Broadcast Equipment

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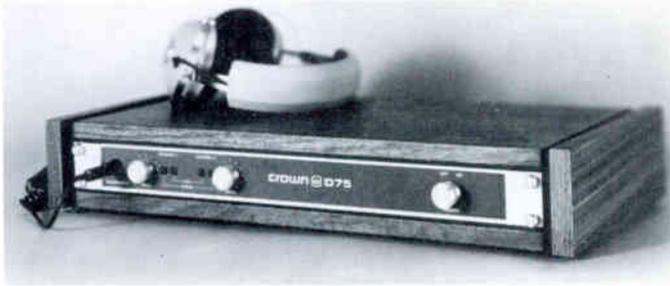
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AMPLIFIERS

CROWN D-75 AMPLIFIER



The CROWN D-75 offers significant benefits to the professional user, benefits like IOC input/output comparator that reports all forms of signal overload, lockable level control shafts, active-balanced XLR connectors as well as unbalanced 1/4" phone plugs and signal presence indicators that notify the user whenever the D-75 output signal is greater than 1/8 watt. 35 watts per channel.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$524.00

ALLIED PRICE \$ _____

D-150A SERIES II



Retaining the D-150A tradition for sonic accuracy and reliability, the CROWN D-150A Series II is rated at 80 watts per channel into 8 ohms, 250 watts into 8 ohms mono. The frequency response is ± 0.1 dB DC to 20 kHz at one watt into 8 ohms; ± 1 dB DC to 100 kHz., less than .001% harmonic distortion, less than .01 I.M. distortion and 6 volts per microsecond slew rate.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$729.00

ALLIED PRICE \$ _____

DC-300A SERIES II



Since its introduction, the DC-300 and its modifications have been a standard of sonic accuracy, power and reliability. It is FTC rated at 250 watts per channel into 8 ohms; 500 watts into 8 ohms mono. The DC-300A Series II looks different from the front, with a scratch resistant, baked enamel front panel, new power switch, and relocated level controls.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1149.00

ALLIED PRICE \$ _____

PS-400



The CROWN PS-400 power amp is designed and built for the professional sound system. Into 8 ohms it will provide 180 watts per channel, into 8 ohms mono it will provide 520 watts. Check the all-pro features, terminal strips and phono jacks, ground separation strip, mono-stereo switch with binding posts conveniently positioned for quick conversion, detented controls, 4 second turn-on delay, IOC and signal presence indicators.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1259.00

ALLIED PRICE \$ _____

PS-200



The CROWN PS-200 power amplifier is designed as a low power companion for the PS-400. Like the 400, the 200 is designed, and built for professional sound systems. It delivers 90 watts per channel into 8 ohms, 270 watts into 8 ohms mono. It is another powerful, all-day reliable CROWN amplifier that is unaffected by mismatches, shorted outputs, low impedance or physical abuse.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$819.00

ALLIED PRICE \$ _____

SL-2



The CROWN Straight Line Two is a rack-mounted preamplifier for total control. Automatic muting eliminates thumps and pops and it features 5 switched and 1 unswitched 115AC outlets. It has tuner, phono, auxiliary and processor inputs and (2) main, (2) tape, processor and front outputs. The SL-2 features detented level controls for reset, a loudness control for accurate bass, ± 10 dB of bass boost and ± 10 dB of treble boost. Case optional.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$595.00

ALLIED PRICE \$ _____

CROWN PL-2



The CROWN Power Line Two is a rack-mounted power amplifier rated at 50 watts per channel with detented level controls for precision selection of level. The PL-2 features a dynamic analyzing display which includes IOC distortion indication.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$625.00

ALLIED PRICE \$ _____

PL-3



The CROWN Power Line Three is a rack-mounted power amplifier rated at 90 watts per channel into 8 ohms, with a T.H.D. of less than .05%, and I.M.D. of less than .05% and a slew rate of 12 volts per microsecond. The frequency analyzing display shows peak levels in all three frequency bands, provides information on spectral balance to check system, music, amplifier, speakers or room.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$995.00

ALLIED PRICE \$ _____

PL-4



The CROWN Power Line Four is a rack-mounted power amplifier rated at 165 watts per channel into 8 ohms. It features a frequency analyzing display that includes IOC distortion indication.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1495.00

ALLIED PRICE \$ _____

UREI 6150



UREI amplifiers offer exceptionally large power supplies, exceedingly high speed and high current circuitry combine to produce low-end punch and high end sparkle which is unexcelled in professional power amplifiers. Moderate use of negative feedback results in fast recovery from transient overloads and avoids high-order harmonic distortion during clipping. The UREI 6150 is rated at 80 watts per channel.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$746.00

ALLIED PRICE \$ _____

6500



As opposed to the "fix-it-up-with-feedback" approach in common use today, UREI carefully departed from conventional design techniques. Each amplifier stage in the 6500 was engineered for optimum performance with no overall feedback. The 6500 features two channels on an independent, modular plug-in chassis with front panel access. The 6500 is rated at 275 watts into 8 ohms per channel output with .1 THD.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$2396.00

ALLIED PRICE \$ _____

SYMETRIX A-220



The SYMETRIX A-220 is a rack-mounted stereo amplifier rated at 20 watts per channel into 8 ohms, 40 watts mono into 8 ohms with .08% maximum distortion, an input impedance of 20K ohms balanced and 30K ohms unbalanced. The A-220 uses 3-pin XLR type connectors for balanced input, 1/4" phone jacks for unbalanced inputs. The outputs are dual banana jacks (rear panel) and headphone jack on the front panel.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$289.00

ALLIED PRICE \$ _____

"WE DELIVER WHAT WE PROMISE"

AMPLIFIERS

NAD 3020B



The NAD 3020B is a 20 watt state-of-the-art unit, offering totally uncompromised performance at a cost that buyers can afford. Among other things, the 3020B contains a unique "soft-clipping" circuit which allows it to play much louder than its rated power suggests. The 3020B has less than .02% of all types of distortion and a LED peak power indicator. Rack mount optional.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$178.00

ALLIED PRICE \$ _____

BGW 85



The BGW 85 is a rack-mounted power amplifier rated at 35 watts per channel at 8 ohms, with 0.1% T.H.D. 20 Hz to 20 kHz, 90 watts into 8 ohms mono, with 0.15% T.H.D. (The Model 85 features modular circuit assembly, toroidal mains transformer, packaged & cased transistors.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$449.00

ALLIED PRICE \$ _____

150



The BGW 150 is a rack mounted power amplifier rated at 50 watts per channel into 8 ohms, 150 watts into 8 ohms mono, with intermodulation distortion of less than .02%, a frequency response of -.25 dB 20 Hz to 20 kHz and is designed for any load impedance equal to or greater than 4 ohms.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$699.00

ALLIED PRICE \$ _____

ATI MICRO AMP SERIES



The ATI M-1000 dual microphone and L-1000 dual line series of Micro Amps are rackable, handsome, micro-sized, stackable, versatile and RF protected. The series provide +22 dBm at clipping for transformer and single ended outputs, +26 dBm for balanced differential outputs. They're quiet, total amplifier noise is typically within 1 dB of the thermal noise of source impedance. A 13 microsecond slew rate minimizes the irritating harshness of TIM distortion. 100 dB open loop gain per stage and 50 mHz gain bandwidth product hold typical circuit harmonic distortion below .005% even at 20 kHz.

L1000-1 dual transformer outputs.....\$315.00
ALLIED PRICE \$ _____

L1000-2 balanced differential outputs.....\$315.00
ALLIED PRICE \$ _____

L1000-3 unbalanced outputs.....\$295.00
ALLIED PRICE \$ _____

M1000-1 dual transformer outputs.....\$345.00
ALLIED PRICE \$ _____

M1000-2 balanced differential outputs.....\$345.00
ALLIED PRICE \$ _____

M1000-3 unbalanced outputs.....\$325.00
ALLIED PRICE \$ _____

ATI PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES CALL FOR THE ALLIED PRICE

RTS 1400



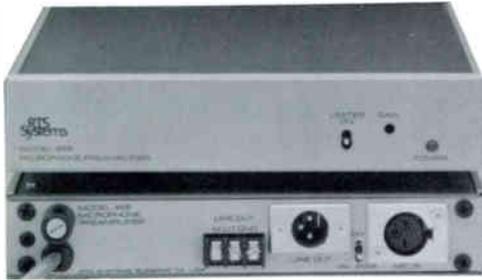
The RTS 1400 is more than a microphone preamp. It is a unique and versatile tool. Its well planned features, rugged construction and excellent specifications make it a professional problem solver, an audio "adapter" with countless applications. The 1400's gain is continuously variable via a front panel control. At any level of operation the 1400 can sufficiently boost the mic level input to any load. It's perfect for location recording, remote broadcasting and production.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$251.00

ALLIED PRICE \$ _____

"PROFESSIONAL PEOPLE, SALES, SERVICE & PRODUCT"

RTS 465



The Model 465 is a single channel, wideband microphone preamp designed for pro use in areas such as broadcast operations, television production, sound reinforcement and more. It features outstanding electrical specifications along with fully floating transformer balanced input and output circuits, switchable phantom power and an integral power supply. The 465 employs a switchable limiter to preclude the possibility of preamp overload from any mic source.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$454.00

ALLIED PRICE \$ _____

HAFLER



The Hafler P-500 rack mounted amplifier has been well accepted in critical audio circles. It has the quality and reliability which is required for commercial and professional sound installations.

The P500 is very conservatively rated to deliver 255 watts per channel on a continuous basis into an 8 ohm load. In practice, over 300 watts is available across the audio band before the onset of clipping. To achieve this with a wide safety margin, six high power MOSFETs are employed on each channel. Their high current capability enables them to drive difficult reactive loads with ease. Paralleled loudspeakers, and other low impedance loads, are easily accommodated by the P500's enormous reserve, and safe operation (restricted only by thermal limits) into loads even below 2 ohms (typically 500 w/ch into 2 ohms). So rugged is the design, that it can deliver over 20 amperes into a short circuit (before the supply fuses open)! When switched to mono operation, the amplifier's rated output is 800 watts into 8 ohms, which is capable of driving a 70 volt line distribution system directly. In practice, well over 900 watts of mono power is available.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$950.00

ALLIED PRICE \$ _____

**“ENTIRE CONTENTS COPYRIGHT
ALLIED BROADCAST
EQUIPMENT, INC.”**

ORBAN 8100A/1



The ORBAN 8100A FM OPTIMOD® offers wideband or multiband operation, more versatile setup controls that permit precise “tuning” for different formats, improved voice/music balances, an improved stereo generator with cleaner baseband, new overshoot compensation that permits full modulation at all frequencies, yet doesn't increase low frequency IM distortion, plus a dual-chassis option, built-in crosstalk test generator, rigorous RFI shielding and true VC gain control. FM's favorite processor!

MANUFACTURER'S SUGGESTED LIST PRICE.....\$4395.00

ALLIED PRICE \$ _____

9100A/1 & 2



The 9100A/1 and A/2 ORBAN OPTIMOD® was designed for the state-of-the-art AM broadcaster. If your station has an AM transmitter and audio chain which will come close to passing an FM proof, an STL good out to 15 kHz (for co-located facilities) and an antenna system capable of 11 kHz minimum bandwidth there is not a better AM processor made.

9100A/1 mono.....\$4395.00 ALLIED PRICE \$ _____

9100A/2 stereo.....\$5295.00 ALLIED PRICE \$ _____

**ORBAN PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES.
CALL FOR THE ALLIED PRICE**

MOSELEY SCD-9



The MOSELEY SCD-9 stereo demodulator transforms a composite stereo waveform into discrete left and right channels for AM stereo and FM broadcast. It includes de-emphasis circuitry, 15 kHz low pass filters and front panel and stereo indication, with a SPDT relay for external control. An easy way to take advantage of composite STLs for AM Stereo.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1595.00

ALLIED PRICE \$ _____

ORBAN 8182A



The new, second-generation ORBAN OPTIMOD® TV 8182A. Licensed from CBS TECHNOLOGY CENTER, and incorporating the latest research technology, the in-built loudness controller automatically recognizes program material whose perceived loudness exceeds a certain threshold, then quickly and indiscernably lowers the gain until the loudness is consistent with the rest of the program. The result is smoother more easily-listenable audio, operator errors are corrected and obnoxious commercials are tamed.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$4995.00

ALLIED PRICE \$ _____

8182A/SG

This fresh "out of the box" ORBAN 8182A/SG OPTIMOD TELEVISION STEREO GENERATOR when mated to your existing 8182A stereo audio processor for precise harmonization, gives you: left and right computer-optimized filters, a dbx encoder card, sum-and-difference 11-pole 15 kHz low pass filters, sync bus to simplify installation, video loop through, built in monitor, stereo base band generator, user-adjustable base band clipper. For audio processing and base band generation in TV stereo, this is it!!

MANUFACTURER'S SUGGESTED LIST PRICE.....\$4995.00

ALLIED PRICE \$ _____

418A



The ORBAN 418A is a complete limiting system consisting of a pair of ganged broadband compressor/limiters with exceptionally smooth and subtle characteristics, followed by a high frequency limiter with four different time constants, user selectable by means of a front-panel switch. This variable time constant feature is unique in the industry and permits the characteristics of the high-frequency limiter to be tailored to recording medium following the limiter. Not suitable for use by itself as an FM processor.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$899.00

ALLIED PRICE \$ _____

**"PRICES ARE U.S.
DOMESTIC ONLY"**

422A/424A



The ORBAN 424A has a real compression ratio control for those few times when you want to maintain some real dynamic range. However you will be astonished at the openness and apparent dynamic range available even at the infinite ratio. You may be even more astonished when you discover the apparent loudness increase achieved without the usual side effects.

422A single channel.....\$629.00 ALLIED PRICE \$ _____

424A dual channel.....\$989.00 ALLIED PRICE \$ _____

**ORBAN PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES.
CALL FOR THE ALLIED PRICE**

US AUDIO GATEX® NOISE GATE



The GateX® audio processing tool is an innovative way to offer state-of-the-art technology that is highly effective. At your fingertips, control: reverberation decay time, background noise in multiple mic conferences, program feed line noise reduction as well as unused open mic's during live performances or filming. All user controlled parameters are optimized for ease in set up and operation.

MANUFACTURER'S SUGGESTED LIST PRICE\$435.00

ALLIED PRICE \$ _____

TEXAR AUDIO PRISM



The TEXAR AUDIO PRISM is a very high-performance multi-band audio processor designed for major market broadcast use and other applications where sophisticated program handling is required. It utilizes four intelligent digitally-controlled processor cards to achieve high apparent loudness while producing few processing artifacts. This absence of undesirable subliminal listener aggravation reduces listener tune-out, producing higher quarter-hour ratings.

For AM broadcast, the AUDIO PRISM is designed to be used with the TEXAR EAGLE AM Modulation Controller. For FM, the AUDIO PRISM is designed to be used in conjunction with a high-quality limiter/stereo generator combination. If transmitter and studio are at separate locations, the preferred placement for the AUDIO PRISM is at the studio. This prevents accidental overdriving of the telephone lines or STL and provides the maximum signal-to-noise ratio over the program circuit.

AM or FM Audio Prism.....\$1995 per channel

AM Eagle Clipper.....\$495 per channel

"WE ARE A 'SOUND' BUSINESS!!"

COMPELLOR™ COMPRESSOR/LEVELER/PEAK LIMITER



Presenting the COMPELLOR™, a revolutionary audio processor. It delivers intelligent compression, leveling, peak limiting simultaneously! The COMPELLOR™ control circuits are actually analog computers that constantly monitor the input, adapt and control a single VCA per channel for minimal signal path. Operating controls are kept to a minimum, for the COMPELLOR™ intelligently varies all the parameters for you. All you need do is set input level to control the amount of processing, adjust output level, and set the balance between compression and leveling. That's it.

This smart, versatile, cost effective processor is equally at home in broadcast pre-processing, microphone control, audio production, tape duplicating, live sound and film dubbing; producing the "sound" audio engineers have always sought but seldom found.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1195.00

ALLIED PRICE \$ _____

APHEX AURAL EXCITER™ II B



The remarkable Apex Aural Exciter is a unique proprietary audio processing device that makes use of highly advanced psychoacoustic principals to effectively restore and enhance audio presence, brightness and intelligibility. The patented psychoacoustic process creates the perception of an increase in mid and high frequency energy, with *no* actual increase in power or level.

The Broadcast Aural Exciter has complete R.F. shielding and safety bypass relays in the event of power failure. Designed specifically for on-air use, this unit provides AM stations with the clarity and brightness of FM, while restoring to FM the naturalness and openness normally lost due to processing.

The most impressive aspect of the Apex Broadcast Aural Exciter is the fact that the lower the quality of the playback system, the better the comparative benefit derived. The sound of your broadcast will satisfy the most demanding audiophile, and at the same time grab the attention of the rush-hour commuter.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$2950.00

ALLIED PRICE \$ _____

AURAL EXCITER TYPE B



The Aural Exciter Type B is engineered for less demanding situations. It utilizes the same psychoacoustic principles to make Aural Excitement available to small clubs, studios, halls, restaurants, musicians, tape duplicators and sound contractors operating on a more modest budget. Retaining the most important features of its bigger brothers, the Aural Exciter Type B is a small, lightweight package with extensive capabilities limited only by the user's imagination.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$495.00

ALLIED PRICE \$ _____

EMT 266 X & 277 DX TRANSIENT LIMITERS



EMT 277 AM Transient Limiter

The EMT 266 & 277 transient limiters were designed for absolute prevention of overdriving through use of the transient-limiter principle. Basic achievement is realized by means of predelay of the signal to be controlled.

Most limiters are designed with feed-back control to maintain long-term stability. With this technique, overdriving occurs at the output by the very nature of the design. This contributes to the inevitability of brief overshoots.

The EMT approach solves these problems with 2 interesting circuit configurations:

- predelay of the program signal
- an additional feedback regulated control limiter

The 266X for FM and the 277 DX for AM. Mono and Stereo configurations available.

PRICES UPON APPLICATION

CRL AM-4 STEREO



This four band system will outperform any other multi-band compressor. It provides maximum density to increase coverage and pre-emphasis for improved fidelity. The AM-4 stereo package contains the SPP800 PREPARATION PROCESSOR, a two band AGC unit that is gated to prevent noise pull-up, one SEP800 STEREO SPECTRAL ENERGY PROCESSOR, four band compressor/expanders with gating in each band, and an SMP900 AM STEREO MATRIX PROCESSOR, a state-of-the-art limiter which processes L+R and L-R separately.

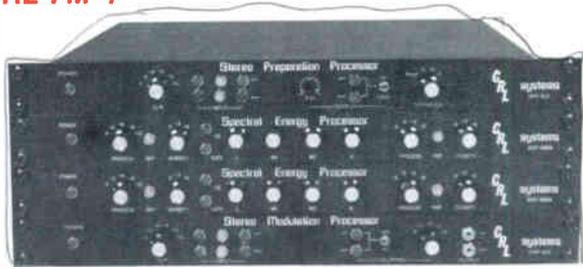
MANUFACTURER'S SUGGESTED LIST PRICE.....\$5950.00

ALLIED PRICE \$ _____

**“PUT OUR PAST
EXPERIENCE TO WORK
IN YOUR FUTURE
SUCCESS”**

PROCESSORS

CRL FM-4



This is the ultimate FM system. Maximum fidelity, maximum loudness and maximum control. The FM-4 connects to your stereo generator and includes SPP800, a PREPARATION PROCESSOR, a two band AGC that is gated to prevent noise pull up, SMP800, an FM STEREO MODULATOR PROCESSOR, that provides absolute peak control and maximum fidelity and one SEP800 SPECTRAL ENERGY PROCESSOR, four band compressor/expanders with gating in each band.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$5750.00

ALLIED PRICE \$ _____

UREI LA-4



The UREI LA-4 compressor/limiter is another great performer in the expanding product line from UREI, the company which has built and sold more limiters and compressors throughout the world than any other manufacturer. Making use of patented electro-optical attenuator technology, the LA-4 offers smooth, predictable performance coupled with ease of operation. Features a long-life LED optical attenuator, selectable compression ratios and simple stereo coupling. 50 μ sec preemphasis selectable.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$496.00

ALLIED PRICE \$ _____

UREI 1176LN



The UREI 1176LN single channel limiter features FET gain reduction ahead of the first stage. No tricky balancing required ever, there's no distortion adding active element in the gain reduction circuit, pushbutton selection of four different compression ratios and ultra fast attack time independent of peak duration or frequency and it's fully adjustable from the front panel.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$596.00

ALLIED PRICE \$ _____

UREI 1178



The UREI 1178 dual peak limiter is a two channel version of the 1176LN. The 1178 was designed for those applications where two channels of program material are processed and the balance of these audio channels must be maintained. The two limiters in the 1178 are perfectly matched to assure the high degree of tracking necessary for critical stereo applications. Limiting is accomplished by utilizing FET's as voltage variable resistors.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$896.00

ALLIED PRICE \$ _____

VALLEY PEOPLE 610



The Model 610 dual compressor/expander offers the convenience of two high-quality compressors with flexibility of multi-function dynamics processing in an attractive rack package. Each of the two channels consists of a compressor section and an expander section both controlling the common channel VCA. A special release coupling circuit provides symmetrical release characteristics for both the compressor and expander making interactive processing possible, thus eliminating the problems associated with using separate dedicated-function units.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$995.00

ALLIED PRICE \$ _____

DBX160X



The DBX 160X compressor/limiter provides the studio operator, broadcaster or sound reinforcement specialist with outstanding performance and operational flexibility in a slim-line rack mount package. The 160X has all the features of the famous 160 and more. It is the only compressor/limiter that offers you the choice of OVER EASY or hard-knee operation, regardless of the compression ratio selected.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$420.00

ALLIED PRICE \$ _____

**“PRODUCT AND SERVICE
FOR THE INDUSTRY”**

“ONE STOP SHOPPING @ ALLIED”

DBX165A



The DBX 165A is a result of combining the 165 and PEAKSTOP. The PEAKSTOP circuit which follows the compressor/limiter circuitry is a specially "soft clipper" that rounds the leading and trailing edges off the peak being clipped. By avoiding the normally sharp edges of a clipped peak, far fewer high order harmonics are generated making PEAKSTOP less audible than other types of clippers.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$670.00

ALLIED PRICE \$ _____

ORBAN 111B/1



The versatility of the quasi-parametric midrange equalizer complements the simple, inflexible equalization found on many low-cost mixers, and permits the owners of such systems to get the exact reverb sound they want. In addition, the 111B has very high basic input sensitivity (-30 dBm), and a front-panel input gain control makes it usable with all mixers—even those with unusually low level sends.

This versatility is complemented by a fully-professional 9 dBm balanced, floating output. This arrangement vastly improves immunity to RF interference, and assures easy integration into any system without introducing ground loops and hum.

- NUMBER OF CHANNELS: two, entirely independent except for power supply.
- REVERBERATION ELEMENT: six-spring array (per channel).
- DELAY TIME: Approximately 30 milliseconds between direct sound and first reflection.
- INPUT LEVEL: will accept input levels between -30 and +4 dBm. Audio-taper input level attenuator available on the front panel. Limiter will control overloads up to 25 dB above limiting threshold before clipping and distortion occur.
- INPUT IMPEDANCE: 10,000 ohms, unbalanced. Source impedance non-critical.
- OUTPUT LEVEL: nominally 0 dBm, adjustable by front panel control, ± 20 dBm clipping level allows adequate headroom for equalization and spring resonances.
- OUTPUT IMPEDANCE: 600 ohms; transformer-coupled; balanced and floating.
- DIMENSIONS: 19"W x 3½"H x 12"D.
- SHIPPING WEIGHT: 10 pounds

PRICE UPON APPLICATION

MODULATION SCIENCES



The CP-803 Composite Processor corrects the distortion that conventional processors sometime create. Conventional audio processors work with the left and right audio. But the CP-803 deals with the stereo composite signal that comes out of the stereo generator.

This baseband signal is made up of the L + R main channel, the 19 kHz pilot and the L-R subcarrier. By working on this signal instead of left and right audio, many audio problems are avoided.

The CP-803 gives you extra loudness with no audible increase in distortion. The amount of free dB's you obtain depends on the pre-processing of the audio before it reaches the unit. The less pre-processing beforehand, the more you get from the CP-803. RACK MOUNT IS EXTRA.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$889.00

ALLIED PRICE \$ _____

VALLEY PEOPLE 440



The VALLEY PEOPLE 440 limiter/compressor/dynamic sibilance processor offers the convenience of a peak limiter, a high quality compressor/expander package and a dynamic sibilance processor section, each controlling a common voltage controlled amplifier. The employment of linear integration detection allows the unit's detector to emulate the response of the human ear in order to maintain correct musical relationships in processed material. In the compressor section you get proprietary circuitry such as linear integration detection, peak reversion correction, and anticipatory release computation. The control section features adjustable threshold, attack time, ratio and release time. Other features are easy to read metering, bypass switch, an auto mode, switchable sensitivity to configure DSP and an intercoupling device. This is a new and revolutionary piece of equipment! FM 75 μ sec preemphasis selectable.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$599.00

ALLIED PRICE \$ _____

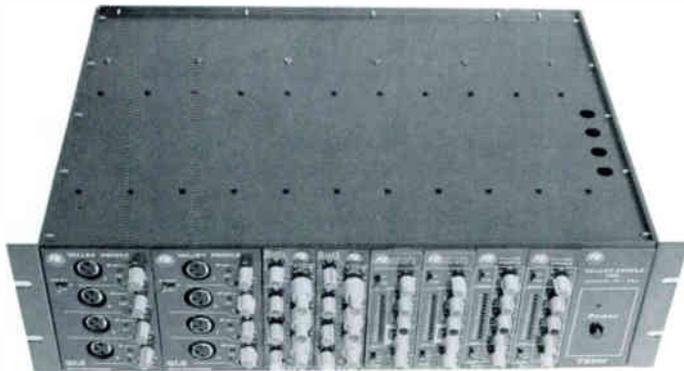
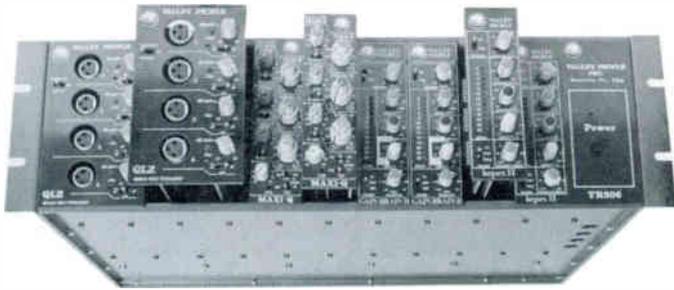
RELIABLE

RESPECTED

RENOWN

**“SHIPPING AND HANDLING
WILL BE ADDED”**

VALLEY PEOPLE — 800 SERIES



QLZ (813)

Transparent, low-noise, distortion-free operation is what the QLZ transformerless quad mic preamp delivers. Each of the four independent, low impedance inputs is adjustable from 20 dB to 60 dB of gain. An LED clip indicator and phase reverse switch are provided for each input. The QLZ is also equipped with 48 volt 'phantom' powering.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$550.00

MAXI Q (812)

The wide 7-octave range on each of the 812's 3 frequency bands results in a 6-octave overlap insuring effective spectrum coverage. Series filters are used to eliminate filter interaction and reduce noise and distortion usually developed in the summing stage. The exclusive 'tune' mode allows the operator to 'solo' filter settings prior to affecting equalization.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$400.00

KEPEX II (810)

Beyond its unsurpassed noise gating capability, the KEPEX II handily eliminates tape hiss, equipment hum and buzz and undesirable ambient noise. Increased dynamic range is recognized via the 810's active expansion mode.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$400.00

GAIN BRAIN II (811)

This limiter/compressor preserves program dynamic integrity because it understands music and speech. The 811 does not respond to arbitrary voltage or power levels; its response is variable depending upon the degree of waveform complexity.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$400.00

TR806 RACK

The TR806 processing package is designed to house and power up to 10 single-card "800" series modules. This rack mounting scheme is the most cost effective means of implementing the full complement of Valley People "800" series equipment. A TR806 unit fits into a 5 1/4" x 19" rack space.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$800.00

CALL FOR THE ALLIED DEAL

VALLEY PEOPLE — 400 SERIES



Design criteria dictated that the "400" series do all things exceedingly well to outperform the very best "dedicated-purpose equipment." Proprietary circuitry evolved through exhaustive studies of the physics and psycho-acoustics of dynamic manipulation is employed in the "400" series to increase dynamic integrity or "listenability." Yet, the "400" series remains the most versatile and cost-efficient approach to multi-function signal processing on the market today!

The Dyna-Mite (430), available in mono or stereo, performs several variations of 18 specific operating modes, including: limiting; expanding; noise gating; keying; FM limiting; de-essing; and "voice-over".

MANUFACTURER'S SUGGESTED LIST PRICE.....\$560.00

The Dyna-Mic/Mite (431), combination adds transformerless brilliance to a variety of input impedances and optimizes them for routing through the 3-band EQ section and/or the Dyna-Mite. The signal then appears at the output enhanced by processing which only a device of this caliber can deliver.

MANUFACTURER'S SUGGESTED LIST.....\$560.00

The Dyna-Mic (432), available in mono or stereo, offers 2 independent, transformerless preamps, with on-board 3-band tone control. Each of the 2 inputs on a Dyna-Mic card may be optimized for microphone, line or musical instrument impedances and levels. The single output of each card is switchable to +4 dBm, -10 dBv or -20 dBv nominal line levels.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$560.00

CALL FOR THE ALLIED DEAL

BARCUS-BERRY 202R



The Barcus-Berry 202R uses a sound technology which is based on load reactance compensation and specifically designed to enhance overall quality of sound produced by any dynamic speaker. The company has designed this quality as BBE Sound™.

This new unit utilizes high speed dynamic gain-control circuitry to audibly improve the reproduction of program transients. The processing and effect occurs in real time and may be used in any signal chain without encoding/decoding.

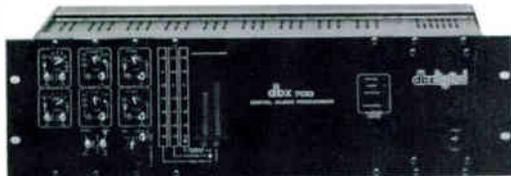
The 19-inch rack-mountable chassis occupies two standard EIA spaces; adding the piece requires nothing more than insertion between the program source and an amplifier, recorder or signal transmission line. A simple adjustment is all that is required for normal set-up.

Phase adjustments are primarily directed toward preventing high-frequency time lag and the automatic gain changes are based on interband program amplitude ratios. The swept frequency response of the system is essentially flat from 20 Hz to 20 kHz.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1495.00

ALLIED PRICE \$ _____

dbx 700 DIGITAL AUDIO PROCESSOR



From the time that digital was first applied to recording, it was both a blessing and a curse. The sound was a blessing. The price was cursed. But once that sound was heard, there was no turning back. So dbx, the very same people who brought you breakthroughs in noise reduction, turned its collective technical prowess to the matter of the curse. And in true dbx fashion, they came up with a way to make that crisp, clean digital sound available at an astoundingly affordable price.

The "hows, whys and wherefores" are important. Because all along, digital audio encoding/decoding could be achieved two different ways. One way is PCM (pulse-code modulation). It's the accepted and great-sounding (but very expensive) circuit you find in digital recording systems right now. The other way is DM (delta modulation). It's less expensive but produces less-than-acceptable sound. So when dbx entered the digital ring, they knew their task was to create the best of both worlds. dbx engineers did just that, by tackling what were thought to be the insurmountable problems inherent in basic delta modulation.

Precision Companding solves a major problem with delta modulation—limited dynamic range. The dbx 700 offers a dynamic range of more than 110 dB, resulting in an unbelievably low noise floor that's completely neutral-sounding. (Other forms of delta modulation have less dynamic range and may have a noise floor with a distinct tonal character.) The compander's novel design and the direct digital link between encoder and decoder guarantee not just that it cannot mistrack but that its overall performance is absolutely transparent.

Linear Prediction estimates a signal's future by monitoring its recent past. It does this 700,000 times a second. This further increases the dynamic range of our fixed delta modulator and prevents the audible noise modulation common in other forms of DM.

The bottom line is the extraordinary sound quality of digital at a fraction of the cost of the competition. A cost so low that you can create a digital remote transmission system with the dbx 700 Digital Audio Processor and the MA/COM system that will rival live performance.

SPECIFICATIONS:

Channels:	two
Frequency response:	10 Hz-20 kHz \pm 1/2 dB
Dynamic range:	(unweighted, maximum rms signal to noise floor, input shorted, noise bandwidth 20 kHz): greater than 110 dB
Wow/flutter:	less than 0.01% unweighted; less than 0.006% wrms
THD:	less than 0.03% total harmonic distortion, 1 kHz, 1 V rms input
Sampling rate:	700 k bits/sec
A/D conversion:	precision-companded, linear-predictive delta modulation
Headphone jack:	yes
Console connections:	Line in, balanced, 10 k-ohms. Line out, electronically balanced; will drive 600 ohms to +24 dBm
Dimensions:	5 1/4" H x 19" W x 11 1/2" D
Weight:	approx. 20 lbs

PRICE UPON APPLICATION **2 Required for STL**

"THE FIRST FAMILY OF BROADCAST EQUIPMENT"

NOISE REDUCTION

DBX 900 SERIES



Today's signal processing plays a greater role in sound production than ever before. With this in mind, DBX has created the Series 900 modular signal processing system. The Model 902 De-esser can be used as a conventional broadband de-esser or for attenuating only a user-determined portion of the high frequency range. The Model 903 Compressor with its OVER EASY compressor gives smoother, more listenable compression. The Model 904 Noise Gate is the ultimate noise gate, with a combination of features not found on any other noise gate. Features like adjustable attack and release rates, threshold adjustment from -30 to +30 dB, attenuation limit adjustment from 0 to 60 dB, with DBX OVER EASY downward expansion for a smooth sound.

DBX 902.....\$350.00 **ALLIED PRICE \$ _____**

DBX 903.....\$350.00 **ALLIED PRICE \$ _____**

DBX 904.....\$350.00 **ALLIED PRICE \$ _____**

DBX PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES CALL FOR THE ALLIED PRICE

DBX 941/942 and 906



The DBX Models 941 and 942 provide broadcasters with Type II noise reduction in the convenient Series 900 modular format. The 941 is a two-channel encode only Type II noise reduction unit, the 942 is a two channel decode only Type II noise reduction module which features an additional switchable provision for decoding DBX encoded discs. The Model 906 Flanger answers the need for an electronic system that achieves precise, predictable control of the flanging effect while providing the signal quality, 100:1 frequency sweep and low noise previously obtained by using matched tape machines.

DBX 941.....\$260.00 **ALLIED PRICE \$ _____**

DBX 942.....\$270.00 **ALLIED PRICE \$ _____**

DBX 906.....\$750.00 **ALLIED PRICE \$ _____**

Housing including power supply.....\$525.00 **ALLIED PRICE \$ _____**

Blank panels (each).....\$17.50 **ALLIED PRICE \$ _____**

DBX PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES CALL FOR THE ALLIED PRICE

NOISE REDUCTION / EQUALIZATION

ALLIED
Broadcast Equipment

DBX 140 TYPE II



The DBX 140 simultaneous encode/decode broadcast noise reduction system is a two channel compressor/expander providing a minimum of 30 dB broadband audio noise reduction with a 10 dB increase in system headroom. The two channels feature independent encode and decode circuitry. Not compatible with type I. The DBX system eliminates tape hiss in recording, and prevents the noise build-up normally encountered in transferring information from one recorded medium to another.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$590.00

ALLIED PRICE \$ _____

EQUALIZATION

ORBAN 622



The 622 parametric equalizer consists of a balanced input buffer amplifier, and input attenuator, and four peak/dip equalization sections connected in series, assuring no interaction between sections. The final section contains a current booster capable of driving 600 ohm loads. The output of the input buffer and each of the equalization sections is monitored at all times by the overload indicator. The EQ IN/OUT switch bypasses all circuitry but the input buffer and output amplifier. It is arranged so that the gain and signal polarity are maintained constant in the IN and OUT modes.

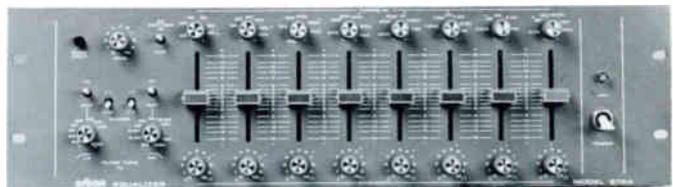
622A single channel.....\$569.00 ALLIED PRICE \$ _____

622B dual channel.....\$879.00 ALLIED PRICE \$ _____

**RET-5 optional output balancing transformer
(1 per channel).....\$16.00**

**ORBAN PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES.
CALL FOR THE ALLIED PRICE.**

ORBAN 672A/674A



The ORBAN mono Model 672A and stereo Model 674A are cost effective, professional, quasi-parametric equalizers with the convenience of graphic type EQ controls. Wide range high and low pass filters with 12 dB/octave Butterworth slopes follow the graphic section for added versatility. Each feature has been thoughtfully

chosen and cleverly implemented to make the equalizer a particularly powerful tool in nearly all areas of audio.

672A mono.....\$689.00 ALLIED PRICE \$ _____

674A stereo.....\$1299.00 ALLIED PRICE \$ _____

**RET-6 optional output balancing transformer
(1 per channel).....\$16.00**

**ORBAN PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES.
CALL FOR THE ALLIED PRICE.**

WHITE 4400



The Model 4400 is White Instruments new 1/3 octave, L-C active graphic equalizer. It culminates over ten years experience in building L-C graphic equalizers. The 4400 features active inductor-capacitor tuned filters. The resonant frequency of each filter is derived passively by a tuned L-C pair. This approach, though expensive, drastically reduces the number of active devices necessary to build a 28-band graphic equalizer.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$950.00

ALLIED PRICE \$ _____

WHITE 4100A



The Model 4100A is White Instruments two channel, octave band L-C active graphic equalizer that has been updated to be as versatile as possible for the audio professional. The 4100A is reputed to be the only two channel, octave band graphic equalizer to feature active, inductor-capacitor tuned filters. The resonant frequency of each filter is derived passively by a tuned L-C pair. This approach, although expensive, drastically reduces the number of active devices necessary to build a ten band graphic equalizer.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$890.00

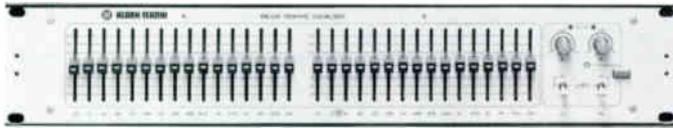
ALLIED PRICE \$ _____

**“PRICES ARE SUBJECT
TO CHANGE
WITHOUT NOTICE”**

KLARK/TEKNIK

Klark/Teknik's continuing commitment to provide products suitable for professional sound engineering industry has led to development of the Series 300 Graphic Equalizers. Utilizing the microelectronic proprietary filter design the Klark/Teknik Series 300 will provide dependable system performance to the installer.

DN332

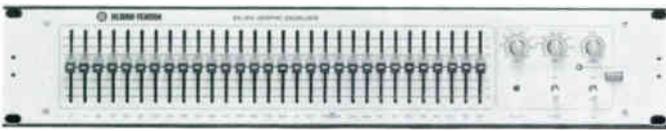


Primarily the DN332 dual 2/3 octave 16 band equalizer is used for stereo tonal control but the unit can be used in virtually any situation where equalization is required and particularly in outside broadcasting to equalize lines but where rack space availability is of obvious importance. The use of the DN332 can provide the engineer with two full frequency range 2/3 octave channels of equalization within only 2" vertical rack space.

Model	Description	Price
DN332	Dual 2/3 octave, 16 band.....	\$1095.00
		ALLIED PRICE \$
DN332B	DN332 with balanced outputs.....	\$1245.00
		ALLIED PRICE \$

KLARK/TEKNIK PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

DN300



Primarily the DN300 1/3 octave 30 band mono equalizer is used for tonal control but the unit can be used in virtually any situation where equalization is required and particularly studio listening rooms to improve the overall frequency response of the monitoring sound system and to obtain optimal matching between stereo channels for accurate imaging.

Model	Description	Price
DN300	1/3 octave mono, 30 band equalizer.....	\$975.00
		ALLIED PRICE \$
DN300B	DN300 with balanced output.....	\$1050.00
		ALLIED PRICE \$

KLARK/TEKNIK PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

DN360



Primarily the DN360 dual 1/3 octave 30 band equalizer is used for stereo tonal control but the unit can be used in virtually any situation where equalization is required but particularly in Audio and Video cassette duplication, to correct for frequency response or tonal irregularities during mastering and to adjust for tape loading characteristics.

Model	Description	Price
DN360	dual 1/3 octave, 30 band equalizer.....	\$1575.00
		ALLIED PRICE \$
DN360B	DN360 with balanced output.....	\$1725.00
		ALLIED PRICE \$

KLARK/TEKNIK PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

WHITE INSTRUMENTS 151



The White Instruments Model 151 is a compact, battery-powered, digitally generated pink noise generator with 268,000,000 bit word length, a flat output from 20 Hz through 20 kHz, with microphone or line level output.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$140.00

ALLIED PRICE \$

CROWN EQ-2



The CROWN EQ-2 is a stereo equalizer featuring eleven bands per channel providing full equalization from 10 Hz to 20 kHz with each band featuring a ±15 dB boost or cut capability. 19-position step switches permit precision control of the individual band levels. The filters are of 1/2 octave constant band width design, set nominally on octave centers. Each filter has an associated control allowing ±.5 octave adjustment of the center frequency. The two channels can be cascaded to produce a full range 1/2 octave equalizer. The EQ-2 may be rack-mounted or as shown, an optional cabinet is available. Case is optional.

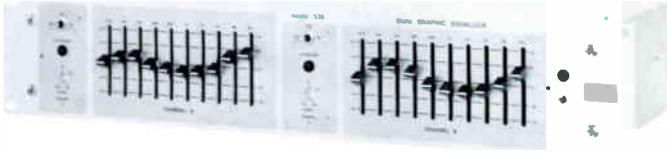
MANUFACTURER'S SUGGESTED LIST PRICE.....\$1299.00

ALLIED PRICE \$

ALLIED ALSO HAS A CATALOG FOR SATELLITE EQUIPMENT AS WELL AS A CATALOG FROM ALLIED INTERNATIONAL FOR USE IN OVERSEAS SALES. IF YOU HAVE NEED OF EITHER, PLEASE CALL FOR YOUR COPY.

EQUALIZATION

UREI 535

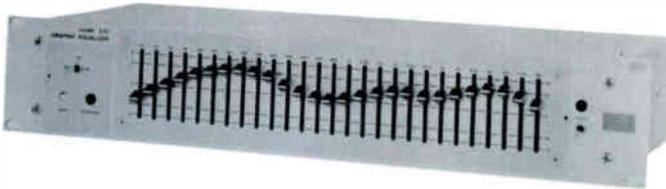


The UREI 535 dual graphic equalizer offers 10 filter sections per channel with increased control range, and more output capability. The 535 provides 12 dB of boost or cut at each of its 10 frequencies, which are centered at ISO one-octave increments from 31.5 Hz to 16 kHz, with balanced bridging differential amplifier inputs, variable gain, floating transformer isolated outputs of 150 ohms or greater load and is rack-mountable.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$896.00

ALLIED PRICE \$ _____

UREI 537

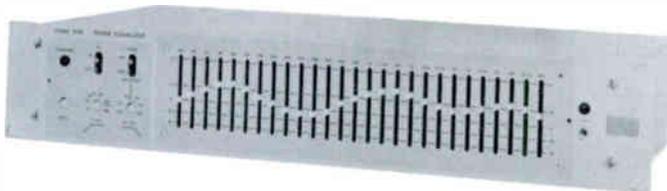


The Model 537 is a 1/3 octave equalizer set for general purpose frequency response adjustment of audio signals. It offers 27 adjustable equalizers on ISO 1/3 octave center frequencies, 12 dB boost or attenuation at each center frequency, stepless-noiseless controls, precision calibrated, state-of-the-art L-C filter circuitry, low distortion-low noise with minimum phase shift, zero insertion loss and is rack-mountable.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$896.00

ALLIED PRICE \$ _____

UREI 539



The Model 539 is an active filter set specifically designed for room "equalization" or tuning. The 539 utilizes advanced circuit technology and latest state-of-the-art components to achieve quantum improvements in performance and at lower cost. Signal to noise ratio is better than 110 dB at maximum output. Filter parameters have been optimized to produce excellent combining and minimum phase shift.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1046.00

ALLIED PRICE \$ _____

EVENTIDE H949



The EVENTIDE H949 Harmonizer is used by top bands and top recording organizations around the world. They are incredibly versatile units combining digital delay, pitch change, and a variety of other features. Harmonizers can be used for doubling vocals, for delay equalization in sound reinforcement, and for many types of reverb/echo. When used with a variable speed tape recorder, a Harmonizer can be used to tailor program material to fit a particular time slot, while retaining the original pitch.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$3500.00

ALLIED PRICE \$ _____

EVENTIDE BD931/BD932



EVENTIDE, the world leader in digital broadcast audio delays, presents the "no compromise" economy obscurity delays, the mono BD931 and stereo BD932 each in 3.2 and 6.4 second configurations. Priced to be cost effective even for stations that air only limited talk programming. Digital RAM based circuitry eliminates all the problems of tape loop delays. 16 kHz band width.

BD931 mono 3.2 seconds.....\$1795.00

ALLIED PRICE \$ _____

BD931 mono 6.4 seconds.....\$2295.00

ALLIED PRICE \$ _____

BD932 stereo 3.2 seconds.....\$2595.00

ALLIED PRICE \$ _____

BD932 stereo 6.4 seconds.....\$4495.00

ALLIED PRICE \$ _____

EVENTIDE PRICES ABOVE ARE MFR'S SUGGESTED LIST PRICES. CALL FOR THE ALLIED PRICE.

EVENTIDE BD955



The Model BD955 was designed specifically for policing of live talk shows. It is a RAM based digital delay line, available in two frequency ranges, 7.5 kHz for reproduction of telephone audio and 15 kHz for quality reproduction of the full spectrum. There are two maximum delay times available, 3.2 or 6.4 seconds. The unit has a unique "catch up" feature which enables it, after the objectionable material has been dumped, to regain its delay safety margin automatically. Two of the same model are required for stereo.

BD955 7.5 kHz 3.2 seconds.....\$2700.00

ALLIED PRICE \$ _____

BD955 7.5 kHz 6.4 seconds.....\$3350.00

ALLIED PRICE \$ _____

BD955 15 kHz 3.2 seconds.....\$3350.00

ALLIED PRICE \$ _____

BD955 15kHz 6.4 seconds.....\$4300.00

ALLIED PRICE \$ _____

Stereo interconnect add \$150

EVENTIDE PRICES ABOVE ARE MFR'S SUGGESTED LIST PRICES. CALL FOR THE ALLIED PRICE.

EVENTIDE H969



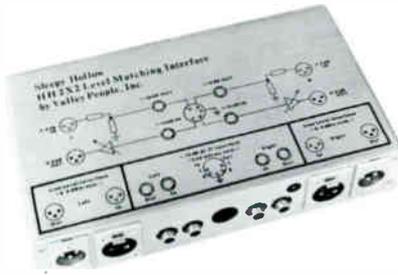
Eventide presents "the next step in pitch change technology" with its PRO PITCH HARMONIZER® H969 giving you the cleanest, highest quality pitch change ever. The digital electronic-splicing algorithm attains glitch-free pitch changes. Its 16 bit liner PCM circuitry delivers superb audio quality in all modes. At your fingertips are instant pitch change presets with independent pitch and delay readouts — all fast and sure! Wide range delay — up to 3 seconds, variable time presets and delays, plus flanging and doppler features. This is Eventides best harmonizer ever!

MANUFACTURER'S SUGGESTED LIST PRICE.....\$4500.00

ALLIED PRICE \$ _____

INTERFACES

VALLEY PEOPLE HH 2 x 2



The HH 2 x 2 level matching interface is a line amplifier/attenuator which interfaces +4 or +8 dBm professional recording or broadcasting equipment with -10 dBm high fidelity and semi-pro equipment. Because the unit is transformerless, it achieves improved transient response. Each HH 2 x 2 level matching interface is a complete stereo system. Indeed, it is a stereo amplifier which boosts -10 dBm signals to a nominal +4 or +8 line level output.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$215.00

ALLIED PRICE \$ _____

VALLEY PEOPLE HH 2 x 2B

You've told us that the HH 2 x 2 level matching interface is the most cost effective and reliable product to solve the age old dilemma of interfacing -10 dB equipment to the studio and broadcast standards of +4 and +8 dB. But, what about those high RF fields, and the need to drive line levels for longer distances? In response to these situations, VALLEY PEOPLE has designed the HH 2 x 2B. In addition to the original features the 2 x 2B offers electronic balancing for the +4/+8 outputs and improved RFI rejection.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$250.00

ALLIED PRICE \$ _____

**"THERE'S MORE TO ALLIED
THAN BROADCAST EQUIPMENT"**

HENRY MATCHBOX



The MATCHBOX is the ideal, inexpensive way to correctly interconnect high fidelity or semi pro equipment with pro studio gear. The MATCHBOX is bi-directional, with four independent amplifiers providing full stereo input and output interface. Two amplifiers convert a stereo IHF HI-Z unbalanced source to LO-Z balanced outputs at studio level. A second pair of amplifiers converts the stereo balanced studio line source to unbalanced IHF outputs to feed the inputs of an IHF device. All circuitry is active and direct coupled for absolute sonic transparency.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$195.00

ALLIED PRICE \$ _____

RTS 444



The Model 444 is a dual, two channel buffer amplifier designed to interface professional systems with semi-pro and high fidelity equipment. Although components designed for home use offer desirable features for studio applications, interconnections between the two kinds of equipment are complicated by differences in levels, impedances and balanced and unbalanced modes of operation. The 444 corrects these problems while maintaining signal integrity.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$350.00

ALLIED PRICE \$ _____

— NOTES —

CONEX CG-25



The CONEX 25 Hz tone generator has built-in high pass filters for both the left and right channels, front panel LED indication of tone duration, silence and maximum length of untimed tone. All timing intervals, tone lengths and audio levels are easily adjustable from the rear panel. Standard six-pin "Cinch Jones" type connectors are provided for simple connection between the console and the recorder. The tone is switch-selectable to allow recording tone on either channel. For ease of servicing all integrated circuits are socket mounted. The CG-25 offers low distortion circuitry, the oscillator and audio have less than .5% total harmonic distortion.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$350.00

ALLIED PRICE \$ _____

CONEX CS-25A

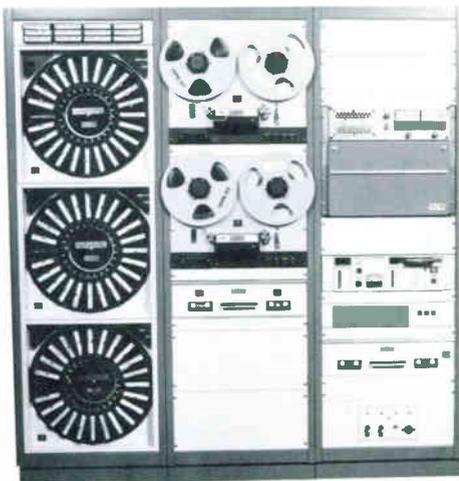


The CS-25 dual 25 Hz tone sensor is a compact and reliable bridging-type 25 Hz tone sensor for use in broadcast automation and tape control systems. The unit features two independent sensors, allowing very economical expansion of existing systems. The CS-25 offers front panel stop-delay adjustment to accommodate any tape format, indicator lights on the front panel to indicate presence of tone, front panel disable switches which inhibit the relays allowing the tape to run without stopping at tones or signalling of the automation system.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$395.00

ALLIED PRICE \$ _____

SONOMAG (SMC) ESP-2



The industry's most cost effective programming tool, the ESP-2, will operate fully automated, satellite fed, live assist, or in any combination.

The ESP-2's 4,000 event memory (expandable to 8,000) allows programming days in advance. With its 682 step, seven day, user pro-

grammable clock, the ESP-2 executes time instructions for updates, network joins or external time functions with ease.

The ESP-2 gives the operator full manual control of up to 20 audio sources for live assist operation or semi-auto operation.

The ESP-2 will replace outdated programmers; and with appropriate interfaces, your existing source equipment can be used in many cases.

TYPICAL MUSIC SERVICE SYSTEM

- ESP-2 Programmer (Rack Mounted, with Remote Control Head)
- 3-Random Access Carousels
- 3-SMC/OTARI ARS-1000 Reel to Reel Reproducers with SMC exclusive Auto-Rewind/Recue and 25 Hz tone sensors
- 2-721 Dual Cartridge Playbacks (4 single play sources)
- 3-System Racks, fully cabled

PRICES VARY WITH APPLICATION CONTENT

CALL FOR THE ALLIEDEAL

MPA PROGRAMMER 3A "LIVE ASSIST"



The PROGRAMMER 3A is the latest in a series of highly successful radio music programming aids. The 3A allows the stations to take advantage of music formats which have been recorded on reel-to-reel tape for automation systems. Up to four reel-to-reel tape decks can be controlled by PROGRAMMER 3A. The outputs can be wired mono or stereo directly to program and cue buses of a studio console eliminating the need for additional console inputs. A memory circuit allows the operator to select the music deck he will play next.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$990.00

ALLIED PRICE \$ _____

MPA 25 Hz PROCESSOR



Designed and built to fill a need in the broadcast field, the PERSONS 25 Hz tone processor performs all the tone handling functions required to interface a reel-to-reel recorder with an automation or "live assist" system. One 25 Hz tone processor will handle one stereo or two mono tape decks. Each 25 Hz tone processor consists of two 25 Hz tone decoders tied to two program amplifiers with 25 Hz notch filters. The 25 Hz tone detectors offer accurate, false-free recognition of tones. The stop/delay timers are precise and repeatable. All logic circuits are relay contacts for interfacing with any tape deck and system. Incoming and outgoing terminations are brought to a convenient, clearly marked terminal strip on the rear.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$399.00

ALLIED PRICE \$ _____

COMPUSONICS DSP 1000 SERIES



For the first time, in-house digital recording by an instrument that's totally broadcast ready and realistically priced. The model 1000 provides a system of recording, reproducing, and processing digital audio signals. The format is remarkably small when one considers delivered specifications which rival the compact disc.

Proprietary data reproduction permits use of a standard 5 1/4" floppy "diskette" for recording and playback of broadcast program material. The 1000 interfaces directly with broadcast levels and impedances and is broadcast ready.

PRICES UPON APPLICATION — CALL FOR THE ALLIEDEAL

COMPUSONICS DSP2002 PRODUCTION SERIES



CompuSonic created the DSP-2002 for professional radio and television broadcasting service. Functionally, the DSP-2002 equals or exceeds conventional tape recorders with the additional benefits of digital sound quality, random access and interactive editing. Recording time capacity ranges from 30 to 960 minutes in stereo, depending on the number of Storage Modules installed.

COMPUSONICS DSP 2000 MIXER SERIES



The CompuSonic DSP-2000 is a series of computer audio consoles for digital mixing, recording and editing. The numeric designations represent the number of microphone or line input channels. The DSP-2004 is the smallest console, supporting 4 inputs. The DSP-2016 is a 16 input console, and so on. The recording time capacity of any DSP-2000 Series console may range from 30 to 960 minutes in stereo, depending on the number of Music Workspace (storage) Modules installed. The key features of the DSP-2000's are:

- Trackball Array control panel integrated to 19" color console display for mixer and recorder control functions
- Ergonomic adjustable console and display
- Fast set-up mobile
- Instant access, no tape re-wind
- No signal loss on dubbing or re-mixes
- High signal to noise ratio

- Ease of editing
- Stereo mix-down to Compact Disk PCM master format
- Data reduction for efficient storage

***Specifications for all 2000 Series**

SPECIFICATIONS

Resolution.....16 bits
Wow & Flutter.....none
Signal to noise.....92 dB
Channel separation.....92 dB
Frequency response.....20 to 15,000 Hz
Dynamic range.....better than 92 dB
Sample rate.....50,000 Hz (other rates optional)
Distortion at 1 kHz, 10V peak to peak.....less than .01%, 3d Harmonic

- Plain English menu; no computer training is required to operate the DSP-2002
- Stereo or mono audio input and output are under software control
- Twelve inch video monitor with detached typewriter style keyboard
- Random access and playback in programmable sequence
- Compatible with digital VCR audio archival storage
- High capacity hard-disk and SuperFloppy drives
- Auto-data reduction for efficient storage
- No signal loss on re-dubbing
- No tape rewind or cueing

PRICES UPON APPLICATION — CALL FOR THE ALLIEDEAL

CARTRIDGE MACHINES

BROADCAST ELECTRONICS 2100 SERIES



The 2100 family of tape cartridge machines combines versatile operation, quality components and top specifications, all at an economical price. There's more value in the 2100 series than ever found before in any professional cart machine. The combination of advanced engineering and cost saving production methods produces a cart machine with double value for the most quality minded users.

2100P Play, Mono...\$1150.00	ALLIED PRICE \$ _____
2100RP Rec./Play, Mono...\$1725.00	ALLIED PRICE \$ _____
2100PS Play, Stereo...\$1250.00	ALLIED PRICE \$ _____
2100RPS Rec/Play, Stereo...\$2025.00	ALLIED PRICE \$ _____

Accessory prices upon request

BROADCAST ELECTRONICS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

“PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE”

CARTRIDGE MACHINES

BROADCAST ELECTRONICS 3000 SERIES



Series 3000 machines have all the standard features: a direct drive hysteresis synchronous motor, an air damped solenoid with excellent reserve capability, and a 1/2" thick machined aluminum deck. In addition, these machines are loaded with extras like the Phase Lok III head bracket, low voltage solenoid switching, advanced integrated circuit/solid-state design with exceptionally wide dynamic operating ranges, long life NORTRONICS DURACORE heads, and an outstanding set of performance specifications.

3100P Play, Mono...\$1250.00	ALLIED PRICE \$ _____
3100PS Play, Stereo...\$1400.00	ALLIED PRICE \$ _____
3200P Play, Mono...\$1275.00	ALLIED PRICE \$ _____
3200RP Rec/Play, Mono...\$2175.00	ALLIED PRICE \$ _____
3200PS Play, Stereo...\$1425.00	ALLIED PRICE \$ _____
3200RPS Rec/Play, Stereo...\$2525.00	ALLIED PRICE \$ _____
3300P Play, Mono...\$1350.00	ALLIED PRICE \$ _____
3300RP Rec/Play, Mono...\$2225.00	ALLIED PRICE \$ _____
3300PS Play, Stereo...\$1525.00	ALLIED PRICE \$ _____
3300RPS Rec/Play, Stereo...\$2575.00	ALLIED PRICE \$ _____
3400P Play, Mono...\$1400.00	ALLIED PRICE \$ _____

3400PS Play, Stereo...\$1550.00	ALLIED PRICE \$ _____
3400RP Rec/Play, Mono...\$2225.00	ALLIED PRICE \$ _____
3400RPS Rec/Play, Stereo...\$2575.00	ALLIED PRICE \$ _____

Accessory prices upon request
BROADCAST ELECTRONICS PRICES ABOVE ARE MFR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

BROADCAST ELECTRONICS 5300 SERIES



The Model 5300B is the most advanced multi-deck cartridge machine on the market. It is a top-of-the-line pro machine that features solid-state integrated circuit design, a direct drive hysteresis synchronous motor, air damped solenoid, 1/2" thick machined aluminum deck and long life NORTRONICS DURACORE heads. Features unique to this multi-deck design are plug in decks, computer ribbon cabling, rear panel LED service aids, and run lights adjacent to each deck.



Record Module

5301B Play, Mono...\$2950.00	ALLIED PRICE \$ _____
5302B Cue Tones/Play, Mono...\$3150.00	ALLIED PRICE \$ _____
5303B Play, Stereo...\$3450.00	ALLIED PRICE \$ _____
5304B Cue Tones/Play, Stereo...\$3650.00	ALLIED PRICE \$ _____

Accessory prices upon request
BROADCAST ELECTRONICS PRICES ABOVE ARE MFR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

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BROADCAST ELECTRONICS DELAY MACHINES

The versatile delay cartridge machines handle a variety of functions, continuous delay, network delay, normal recording and normal playback yet with all the same top performance specifications of 3000 series. These delay machines take the worry out of live telephone talk shows and interviews. When in the delay mode, the tape crosses the erase/record head where it is erased and the live material recorded. The tape then moves through a full cycle of the cartridge before reaching the playback head. The time span of the delay is determined by the length of the cartridge.

- 3200RP/DL.....\$2550.00 **ALLIED PRICE \$** _____
- 3300RP/DL.....\$2600.00 **ALLIED PRICE \$** _____
- 3400RP/DL.....\$2600.00 **ALLIED PRICE \$** _____

Accessory prices upon request

BROADCAST ELECTRONICS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

RAMKO PHASESTABLE



The problems of stereo phase stability in cart machines is overcome with RAMKO PHASESTABLE cart machines. From the inception of the PHASESTABLE line RAMKO has always maintained there was an electronic solution. By employing leading-edge technology, RAMKO determined that the PHASESTABLE could out perform everything in the audio chain, right on through the transmitter. The signal-to-noise, distortion, and wow/flutter performance rivals reel-to-reel specs giving the ultimate in stability.

- PS1 Play, Stereo...\$2738.00 **ALLIED PRICE \$** _____
- RPS1 Rec/Play, Stereo...\$4400.00 **ALLIED PRICE \$** _____

Accessory prices upon request

RAMKO PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

RAMKO PRIMUS



The PRIMUS line of cart machines continues a standard of excellence that has made the RAMKO name one of the most respected in the industry. With all the standard features of the RAMKO line, the PRIMUS machines will deliver several years of dependable service.

- P-1S Play, Stereo...\$1930.00 **ALLIED PRICE \$** _____
- RP-1S Rec/Play, Stereo...\$2729.00 **ALLIED PRICE \$** _____
- P-1M Play, Mono...\$1794.00 **ALLIED PRICE \$** _____
- RP-1M Rec/Play, Mono...\$2485.00 **ALLIED PRICE \$** _____

Accessory prices upon request

RAMKO PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICE. CALL FOR TODAY'S ALLIED PRICE.

TAPECASTER



For the broadcaster who doesn't need an expensive multi-deck cart machine configuration, the TAPECASTER line has become a standard. With either stereo or mono playback or playback/record machines available, the dependable, sturdy TAPECASTER line is more machine for the dollar.

- X700RP mono record/play.....\$850.00 **ALLIED PRICE \$** _____
- X700P mono play.....\$650.00 **ALLIED PRICE \$** _____
- X700RPD mono record/play/delay.....\$1000.00
ALLIED PRICE \$ _____
- X700RPS stereo record/play.....\$1000.00
ALLIED PRICE \$ _____
- X700PS stereo play.....\$750.00 **ALLIED PRICE \$** _____
- Auxillary tone option.....\$75.00 **ALLIED PRICE \$** _____

Accessory prices upon request

TAPECASTER PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICE. CALL FOR TODAY'S ALLIED PRICE.

AUDICORD E-SERIES PLAYBACK



The Models E-10 through E-16 offer modular construction, interchangeable transports and other assemblies, 1 or 3 tones in mono or stereo, a replay reminder system, full remote control that's automation compatible with latching connectors and a slip/lift cover.

- E-10 mono, 1 cue, desk.....\$819.00 **ALLIED PRICE \$** _____
- E-10R mono, 1 cue, rack mount.....\$819.00
ALLIED PRICE \$ _____
- E-11 mono, 3 cue, desk.....\$849.00 **ALLIED PRICE \$** _____
- E-11R mono, 3 cue, rack mount.....\$849.00
ALLIED PRICE \$ _____
- E-15 stereo, 1 cue, desk.....\$889.00 **ALLIED PRICE \$** _____
- E-15R stereo, 1 cue, rack mount.....\$889.00
ALLIED PRICE \$ _____
- E-16 stereo, 3 cue, desk.....\$919.00 **ALLIED PRICE \$** _____
- E-16R stereo, 3 cue, rack mount.....\$919.00
ALLIED PRICE \$ _____

Accessory prices upon request

AUDICORD PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

CARTRIDGE MACHINES

E-SERIES RECORD/PLAYBACK

The Models E-20 through E-26 offer a unique slide out panel for control access, mono or stereo record/playback, 1 or 3 cue tones, and auto switching meters. If top quality recording and playback are what you're looking for try AUDICORD first.

- E-20 mono, 1 cue, desk.....\$1379.00 ALLIED PRICE \$ _____**
- E-20R mono, 1 cue, rack mount.....\$1379.00 ALLIED PRICE \$ _____**
- E-21 mono, 3 cue, desk.....\$1419.00 ALLIED PRICE \$ _____**
- E-21R mono, 3 cue, rack mount.....\$1419.00 ALLIED PRICE \$ _____**
- E-25 stereo, 1 cue, desk.....\$1619.00 ALLIED PRICE \$ _____**
- E-25R stereo, 1 cue, rack mount.....\$1619.00 ALLIED PRICE \$ _____**
- E-26 stereo, 3 cue desk.....\$1659.00 ALLIED PRICE \$ _____**
- E-26R stereo, 3 cue, rack mount.....\$1659.00 ALLIED PRICE \$ _____**
- Accessory prices upon request
AUDICORD PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

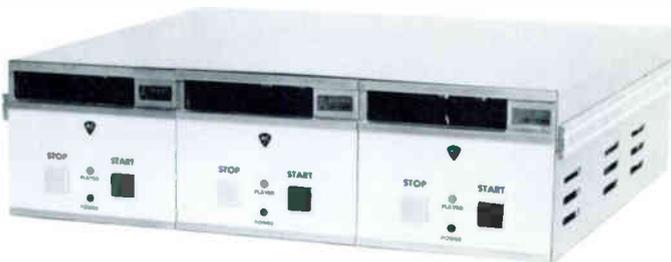
E-SERIES DUAL TRANSPORT RECORD/PLAYBACK



The Models E-50 through E-56 are dual transport record/playback machines which allow single deck or dual deck recording, sound on sound, composites and stereo to mono mix dubs. Features include a slide out front panel, interchangeable transports and other assemblies, 1 or 3 cue tones mono or stereo, a replay reminder system, full remote control that's automation compatible and latching connectors and slip/lift cover.

- E-50 mono, 1 cue, desk.....\$2219.00 ALLIED PRICE \$ _____**
- E-50R mono, 1 cue, rack mounted.....\$2219.00 ALLIED PRICE \$ _____**
- E-51 mono, 3 cue, desk.....\$2279.00 ALLIED PRICE \$ _____**
- E-51R mono, 3 cue, rack mounted.....\$2279.00 ALLIED PRICE \$ _____**
- E-55 stereo, 1 cue, desk.....\$2539.00 ALLIED PRICE \$ _____**
- E-55R stereo, 1 cue, rack mounted.....\$2539.00 ALLIED PRICE \$ _____**
- E-56 stereo, 3 cue, desk.....\$2599.00 ALLIED PRICE \$ _____**
- E-56R stereo, 3 cue, rack mounted.....\$2599.00 ALLIED PRICE \$ _____**
- Accessory prices upon request
AUDICORD PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

E-SERIES THREE TRANSPORT PLAYBACK



The Models E-30 through E-36 are three playback configurations that feature modular construction, interchangeable transports, 1 or 3 cue tones mono or stereo, replay reminder system, full remote control that's automation compatible, latching connectors and slip/lift cover. These models offer three independent outputs and three independent control systems.

- E-30 mono, 1 cue, desk.....\$2429.00 ALLIED PRICE \$ _____**
- E-30R mono, 1 cue, rack mounted.....\$2429.00 ALLIED PRICE \$ _____**
- E-31 mono, 3 cue, desk.....\$2519.00 ALLIED PRICE \$ _____**
- E-31R mono, 3 cue, rack mounted.....\$2519.00 ALLIED PRICE \$ _____**
- E-35 stereo, 1 cue, desk.....\$2629.00 ALLIED PRICE \$ _____**
- E-35R stereo, 1 cue, rack mounted.....\$2629.00 ALLIED PRICE \$ _____**
- E-36 stereo, 3 cue, desk.....\$2719.00 ALLIED PRICE \$ _____**
- E-36R stereo, 3 cue, rack mounted.....\$2719.00 ALLIED PRICE \$ _____**
- Accessory prices upon request
AUDICORD PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

S-SERIES



These new cartridge machines are more than just attractive. They were designed new from the cabinet feet up, selecting the materials which offered the best manufactured cost consistent with functional integrity to insure the most machine for the dollar. Still the "S-Series" contains new operating features, maintenance access and rugged construction to keep pace with modern broadcast operations.

- PLAYBACK**
- S-11 mono, 3 cue, desk.....\$1029.00 ALLIED PRICE \$ _____**
- S-11R mono, 3 cue, rack mounted.....\$1029.00 ALLIED PRICE \$ _____**
- S-16 stereo, 3 cue, desk.....\$1119.00 ALLIED PRICE \$ _____**
- S-16R stereo, 3 cue, rack mounted.....\$1119.00 ALLIED PRICE \$ _____**

**"PRICES ARE U.S.,
DOMESTIC ONLY"**

AUDICORD S-SERIES

RECORD/PLAYBACK

S-21 mono, 3 cue, timer, desk.....\$1799.00
ALLIED PRICE \$ _____

S-21R mono, 3 cue, timer, rack.....\$1799.00
ALLIED PRICE \$ _____

S-26 stereo, 3 cue, timer, desk.....\$1989.00
ALLIED PRICE \$ _____

S-26R stereo, 3 cue, timer, rack.....\$1989.00
ALLIED PRICE \$ _____

DELAY MACHINES

S-32 mono, network delay, 3 cues + timer, desk.....\$1889.00
ALLIED PRICE \$ _____

S-32R mono, network delay, 3 cues + timer, rack mounted.....\$1889.00
ALLIED PRICE \$ _____

TDS MACHINES



TDS-1 twin transport, mono, 3 cues, desk.....\$1499.00
ALLIED PRICE \$ _____

TDS-1R twin transport, mono, 3 cues, rack mount.....\$1538.00
ALLIED PRICE \$ _____

TDS-6 twin transport, stereo, 3 cues, desk.....\$1679.00
ALLIED PRICE \$ _____

TDS-6R twin transport, stereo, 3 cues, rack mount.....\$1718.00
ALLIED PRICE \$ _____

Accessory prices upon request

AUDICORD PRICES ABOVE ARE MFR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

ITC

DELTA SERIES PLAYBACK



The DELTA series presents superior audio quality for greater signal to noise performance, less harmonic distortion, lower wow and flutter and better high frequency definition means clear, crisp and accurate sound. Features include hi speed recue, enhanced reliability and compact size.

PLAYBACK

DELTA I mono, 3 cue, desk.....\$1995.00
ALLIED PRICE \$ _____

DELTA I stereo, 3 cue, desk.....\$2155.00
ALLIED PRICE \$ _____

DELTA II mono, 3 cue, desk.....\$2260.00
ALLIED PRICE \$ _____

DELTA II stereo, 3 cue, desk.....\$2470.00
ALLIED PRICE \$ _____

DELTA III mono, 3 cue, desk.....\$4345.00
ALLIED PRICE \$ _____

DELTA III stereo, 3 cue, desk.....\$4695.00
ALLIED PRICE \$ _____

NOTE: ALL MODELS CONVERT TO RECORDER WITH ADDITION OF DELTA IV RECORDING AMPLIFIER

DELTA RECORDING AMPLIFIER

For use with DELTA SERIES I, II, III to provide recording and reproducing capability.

DELTA IV mono.....\$1225.00 ALLIED PRICE \$ _____

DELTA IV stereo.....\$1325.00 ALLIED PRICE \$ _____

DELTA PRICES ABOVE ARE MANUFACTURER'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE

OMEGA SERIES

RECORD/PLAYBACK



The OMEGA series brings to you quality at an affordable price with features to delight everyone. This includes rugged design with reliable components, but quick, easy maintenance when necessary. Microtechnology offers convenience of solid-state circuitry, adjust-free cue tones, and lockouts, indicator lights, flashers plus brushless servo motor, long life heads and heavy duty trim pots. The OMEGA series was design engineered with you in mind.

OMEGA I mono play, desk.....\$1050.00
ALLIED PRICE \$ _____

OMEGA I stereo play, desk.....\$1195.00
ALLIED PRICE \$ _____

OMEGA record/mono play, desk.....\$1575.00
ALLIED PRICE \$ _____

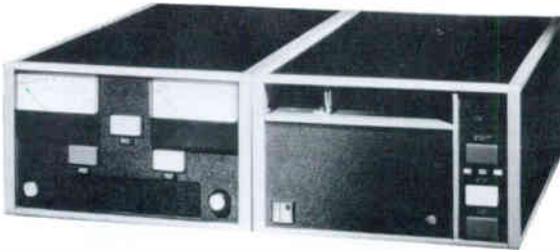
DELTA PRICES ABOVE ARE MANUFACTURER'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

**“PUT OUR PAST
EXPERIENCE TO WORK
IN YOUR FUTURE
SUCCESS”**

TAPE CARTRIDGES

ITC

99B SERIES RECORD/PLAYBACK



Broadcast professionals who demand the best select the 99B series to delight the most discriminating engineer, operator and listener. This machine is the only one of its kind in the world with the optional patented ELSA system wherein the cartridge is erased, the splice located and the record head automatically azimuth aligned for maximum phase response performance. Consider having a distortion free cartridge adjusting system, true positioning solenoid for guide release and fast stop, micro adjust head module, microprocessor system controls, crystal referenced servo motor, plug in PC cards, meters with peals indicators, hi speed recue, secondary and tertiary cue tone switches, a color coded meter and special function panel. This is "the best"!

RECORD/PLAYBACK

99B-RPM mono, 3 cue, desk.....\$4425.00
ALLIED PRICE \$ _____

99B-RPS stereo, 3 cue, desk.....\$5025.00
ALLIED PRICE \$ _____

99B-RPME mono, 3 cue, desk.....\$5000.00
ALLIED PRICE \$ _____

99B-RPSE stereo, 3 cue, desk.....\$5595.00
ALLIED PRICE \$ _____

PLAYBACK

99B-PM mono, 3 cue, desk.....\$2340.00
ALLIED PRICE \$ _____

99B-PS stereo, 3 cue, desk.....\$2585.00
ALLIED PRICE \$ _____

DELTA PRICES ABOVE ARE MANUFACTURER'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

FIDELIPAC



Master Cart I

Master Cart II



Model 300

MODEL 300

The Model 300 broadcast audio cartridge provides performance at a price that is within the budget of all radio and TV broadcasters. Its endurance under severe operating conditions in everyday studio operations is surprising, frequently lasting over five years with only replacement of worn tape and pressure pads.

CALL FOR TODAY'S ALLIED PRICE

MODEL 350

The Model 350 broadcast audio cartridge is designed primarily for use in stereo cartridge tape machines that have inadequate tape guidance at the tape input side of the record head. The Model 350 contains an adjustable corner post which is factory adjusted to the NAB Standard height of .562 inch. The corner post can be adjusted by the stations engineers to precisely match the cartridge machine to improve stereo performance.

CALL FOR TODAY'S ALLIED PRICE

MASTER CART I

The Master Cart, unlike conventional cartridges, does not rely upon the cartridge for precision tape guidance. Master Cart's tape path is controlled primarily by the tape guides in the cartridge machine. This neutrality of tape flow is assured by a unique tape path plus precision molding of the cartridge base, reel and top cover. Performance is repeatable each time the cartridge is used and also from cartridge to cartridge.

CALL FOR TODAY'S ALLIED PRICE

MASTER CART II

Master Cart II is a cartridge that will work in most tape machines including multiple slot automation devices while providing the highest possible level of stereo performance. Master Cart II features a new and unique front corner post design. This precision molded upper and lower tape limiting device does not interfere with the neutral tape handling concept. It does provide an upper and lower limit to tape travel when the cart is used in less-than-perfectly aligned machines.

CALL FOR TODAY'S ALLIED PRICE

MODEL 600

The Model 600 audio cartridge is available for broadcast, industrial and medical applications where extended playing times are required. This cartridge offers all of the features of the Model 300 plus the capability of up to 750 feet of tape.

CALL FOR TODAY'S ALLIED PRICE

CAPITOL



AA4

A2

A2

The audio cartridge tape that has become a standard for broadcasters the world over is the CAPITOL A2. For stations who really care about how they sound, the A2 is the logical answer to better sound.

CALL FOR TODAY'S ALLIED PRICE

AA4

The key feature of the AA4 is the new SGS-4 broadcast mastering tape. When recorded on a high quality cartridge recorder, the SGS-4 tape can produce virtually identical copies of the best analog or digital mastering tapes.

CALL FOR TODAY'S ALLIED PRICE

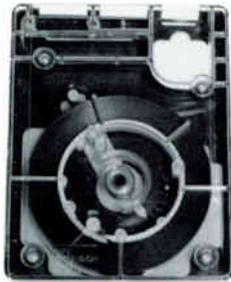
CART ACCESSORIES

MODEL 1200

The Model 1200 provides the maximum amount of playback time available in an NAB continuous-loop audio cartridge. Available with up to 1500 feet of tape, the Model 1200 provides 40 minutes of playing time at a tape speed of 7.5 ips. Many of the features of the Model 300 are also provided in the Model 1200. Several differences can be seen in the corner post, pressure pad and cover areas.

CALL FOR TODAY'S ALLIED PRICE

SCOTHCART



The innovative design of this cart and the superior mastering tape formulation offer you performance capabilities far beyond what you have come to expect from broadcast cartridges. Not only will you hear unbelievable reel-to-reel sound quality, but SCOTCH has used the most advanced technologies to eliminate many of the most unwanted cart problems like excessive tension, phase jitter, wow and flutter, distortion, pressure pad problems, short life and generally poor sound.

CALL FOR TODAY'S ALLIED PRICES.

SONOMAG

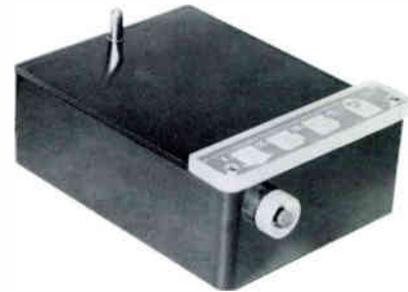


MARK IV

The MARK IV is mechanically equal or superior to any cartridge in the industry; it is a machine manufacturers cartridge designed to operate with maximum life and performance. It has superior pressure pads that won't gum and are easy to replace; also it provides proper head wrap in the widest variety of cart machines and is the only cartridge that provides consistent performance in delay cartridge recorders. Available in lengths from 20 sec. to 7.5 minutes.

CALL FOR TODAY'S ALLIED PRICE.

AUDIOLAB



The AUDIOLAB TD-1B tape degausser with automatic overhead thermal protection erases audio tape, carts and cassettes. It erases up to 3/4" tape widths, accommodates up to 10 1/2" reels, provides a wide focused magnetic field to assure complete erasure and provides results every time with a simple two pass operation for broadcast NAB audio cartridges.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$115.00

ALLIED PRICE \$ _____

GARNER



AUDIO TAPE DEGAUSSER

It takes just four seconds to erase all sizes and types of audio tape up to 16" with GARNER degaussers. GARNER has designed their units to automate your tape erasing operations and eliminate residual noise problems, and their customers say they have a winner!

MODEL	DESCRIPTION	PRICE
70	up to 7" reel	\$990.00....ALLIED PRICE \$ _____
105	up to 10 1/2" reel	\$1390.00..ALLIED PRICE \$ _____
114	up to 19" reel	\$2190.00..ALLIED PRICE \$ _____
116	up to 21" reel	\$2390.00..ALLIED PRICE \$ _____

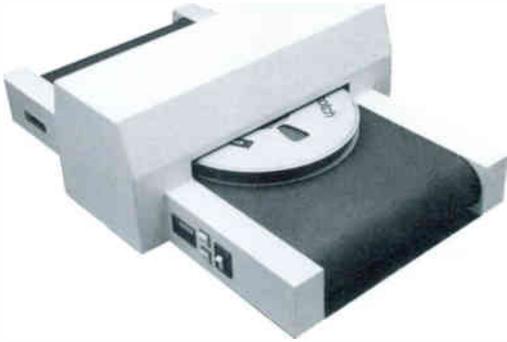
GARNER PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

**"WE ARE A
'SOUND' BUSINESS'!!**

**"THE FIRST FAMILY OF
BROADCAST EQUIPMENT"**

CART ACCESSORIES

GARNER VIDEO TAPE DEGAUSSERS



Imagine erasure depth of video tape that exceeds professional standards in 5 to 16 seconds in just one pass (two for larger units) — doesn't matter if it's video cassette cartridge or reel. You're assured of superb, clean, quiet erasure to the most stringent recording standards — we guarantee it!

MODEL	DESCRIPTION	PRICE
270	1" x 8 1/2" dia red	\$2985.00..ALLIED PRICE \$ _____
1100*	1" x 10 1/2" dia red	\$4450.00..ALLIED PRICE \$ _____
1400*	1" x 14" dia red	\$5750.00..ALLIED PRICE \$ _____

* Erases 1" high coercivity video tape and video cassettes

GARNER PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

FIDELIPAC 400



The Model 400 features a removable guide pin, a scuff resistant top, a power-on indicator and hand rubbed hardwood case. It can erase all audio, video and computer tapes up to 1" wide and it has a thermal protected core that will not burn out.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$99.50

ALLIED PRICE \$ _____

FIDELIPAC "BLANK-IT"



If you need blank tape fast and are worried about recorder erase head wear, then worry no more. With the easy to handle "BLANK-IT" eraser from FIDELIPAC, you'll save time, no need to run the

tape through your recorder, you'll save money, it allows instant reuse of the erased tape without worry about program residue or those mind destroying 'whomps.' "BLANK-IT" is hand-held for rapid, accurate tape erasing in any setting.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$64.75

ALLIED PRICE \$ _____

BROADCAST ELECTRONICS



The BROADCAST ELECTRONICS TW-120T cartridge winder with timer is a rugged, dependable and field tested tape cart winder which fills a need in every station using cartridge equipment. It's no longer necessary to limit your cartridge operation by using only stock sizes or to tie up your conventional tape equipment to load tape cartridges. Worn tape in old tape cartridges is easily replaced to any length you desire.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$475.00

ALLIED PRICE \$ _____

TAPECASTER



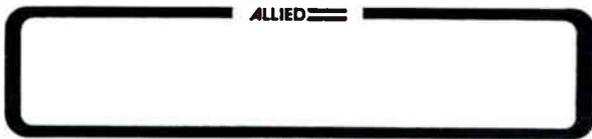
The TAPECASTER X-100 features "state of the art" technology for the serious broadcaster who has an eye to saving. It has two direct-drive motors, a floating aluminum tape supply disc holds a 7" reel or 10 1/2" pancake of lubricated tape. The solenoid brake stops the supply disc at the end of the wind. The X-100 has adjustable tension control for the supply disc brake, ramp design tape guides and four gold-contact rotary switches to program the wind to 7.5 ips. The wind time is accurately metered by the light chopper and nylon counter wheel.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$495.00

ALLIED PRICE \$ _____

**"PROFESSIONAL PEOPLE,
SALES, SERVICE
& PRODUCT"**

ALLIED CART LABELS



For labelling those all important commercial, music and program audio cartridge tapes, the Allied Cart Label will stick. If label peeling is a problem, then you need a label from ALLIED! They stay when they should. They come off completely when they should.

CART LABELS.....\$0.20 per sheet

CLOCKS AND TIMERS

AUDIOMETRICS

TI-85

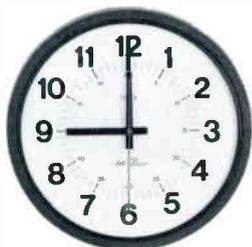


The AUDIOMETRICS studio timer is designed as a versatile, easy to operate broadcast accessory with the capability of timing events out to 9:59:59. The timer will readily and simultaneously interface with all types of tape machines, turntables, and other studio equipment for automation operation. Has a large, easy to read 9/16" readout. Easy pull-to-ground or contact starts via barrier strip. Rack mount available.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$215.00

ALLIED PRICE \$ _____

SETH THOMAS



The standard in studios and control rooms around the world are the SETH THOMAS quartzmatic line of clocks. Where accuracy and visibility are a must the SETH THOMAS line is just what the announcer or engineer ordered. Available in 8" or 12" face sizes.

12" \$49.95.....**ALLIED PRICE \$ _____**

8" \$45.95.....**ALLIED PRICE \$ _____**

SETH THOMAS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

ESE

302



The ES-302 is a four digit, 100 minute timer with six controls: count

up, count down, stop, minutes advance, seconds advance and reset. Minutes and seconds can be advanced simultaneously or independently in order to pre-set for a specified countdown. With the ES-302, the user can preset times much faster because lever wheel type switches are used for the preset feature. The ES-302 can drive 80 series and 90 series slaves. Options prices available upon request.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$333.00

ALLIED PRICE \$ _____

112E

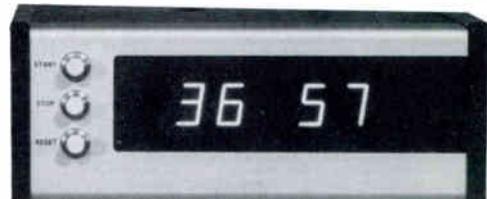


The ES-112E is a solid state 12 hour CMOS, six digit clock. It features three simple controls: fast advance, slow advance and hold which make setting to the precise second easy. The display is a bright orange, gas-discharge, seven segment, .55" high digital. An optional CMOS compatible BCD output can drive two .55" slaves or two 80 series slaves or one 90 series slave. Options prices are available upon request.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$182.00

ALLIED PRICE \$ _____

510E



The ES-510E is a four digit, 60 minute timer with start, stop and reset controls. Runs continuously unless stopped or reset. If stopped, display will hold time reading and when restarted will continue with next count from last displayed figure. Reset returns display to all zeros. Can reset while running or stopped. If reset while running, timer will continue to run. ES-510E can drive two 80 series or one 90 series slave. Displays are .55" bright orange gas discharge digital. Remote ready. Options prices are available upon request.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$174.00

ALLIED PRICE \$ _____

562E



The ES-562E is a combination six-digit clock and 12 hour timer with memory, allowing the user to set the clock to the correct time of day, switch to timer mode, then by pushing one button switch back to time of day. The time of day will be correctly displayed in hours, minutes and seconds. The controls on the ES-562E may be removed. Options prices are available upon request.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$345.00

ALLIED PRICE \$ _____

ESE
172



The ES-172 is a console mount clock/timer in compact enclosure, with bright easy to read six digit .4" red LED's. The controls consist of three settings: Fast Advance, Slow Advance, and Hold. The unit has access to control inputs on rear mounted connector and is entirely enclosed in a high impact black plastic case. Option prices are available upon request.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$174.00

ALLIED PRICE \$ _____

CONSOLES

BROADCAST AUDIO

Introducing the Broadcast Audio family of fine audio consoles and related products. These consoles not only look great...they sound great!

SYSTEM 8



System 8 is an expandable, completely modular broadcast mixer, with unprecedented features and performance. It was designed exclusively for broadcast and is not a scaled-down version of recording or sound reinforcement equipment, so it performs flawlessly even in high RF environments. An elegant low profile appearance is accented by solid walnut end panels and armrest. This mixer sets on top of the desk and doesn't require recessed mounting, so it's easy to install, will all connections made from the top. Two stereo and one mono outputs. Accessory and module prices on request.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$6950.00

ALLIED PRICE \$ _____

SYSTEM 12



System 12 is a model of engineering simplicity, using motherboard construction with only two types of amplifier modules and a plug-in interconnecting harness. Two independent industrial grade power supplies are rack mounted in a common housing with front AC and DC status indicators. The power supply is short-circuit proof and an optional redundant supply is also available. Operator conveniences include 4 inch log taper slide faders for extremely accurate tracking between channels. In addition to a cue detent position on the fader, there is a separate button for cueing when the fader is up. Three stereo and one mono outputs. Accessory and module prices upon request.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$9150.00

ALLIED PRICE \$ _____

SYSTEM 14



System 14 is the latest and most technically sophisticated console in the line. A digital slide fader and digitally controlled CMOS high resolution logarithmic audio attenuator significantly reduce signal paths. Three plug-in mixers are available. Noiseless DC audio switching is used for all program and monitor functions, which also enables each mixing channel to be turned off and on from a remote location, such as an announce studio, news booth, or video switcher. Three stereo and one mono outputs. Accessory and module prices upon request.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$16,530.00 with 12 modules

ALLIED PRICE \$ _____

SYSTEM 16



System 16 features DC audio switching, using LCR's for completely quiet audio control. This also enables each mixing channel to be turned off and on from a remote location. Ten plug-in relays, with switch selection of maintained or momentary contacts, can be used for muting or remote start from any combination of mixers. Operator conveniences include 4" long taper slider faders for extremely accurate tracking between channels. Three stereo and one mono outputs. Accessory and module prices upon request.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$9950.00

ALLIED PRICE \$ _____

BROADCAST AUDIO SYSTEM 20



System 20 has options that enable you to virtually design your own audio console, for on-air use or production. Three plug in mixers are available. Each mixer has a transformer balanced mic input and a differential balanced line level input. Motherboards and mixers are all double-sided with extensive ground planes for optimum noise and crosstalk, plus RFI rejection. All integrated circuits have sockets and are brand name off-the-shelf devices. Three stereo and one mono outputs. Accessory and module prices upon request.

**MANUFACTURER'S SUGGESTED LIST PRICE.....\$24,530.00
with 18 modules**

ALLIED PRICE \$ _____

BROADCAST ELECTRONICS 4S50, 4S50R, 4M50, 4M50R



The 4S50 and 4S50R consoles accommodate 12 stereo input sources. Features high/low input sensitivity selection, has cue switches on all mixers and individual monitor, cue and headphone amplifiers. R series for rack mounting.

4S50 stereo, 4 mixer.....\$1995.00.....ALLIED PRICE \$ _____

4S50R stereo, 4 mixer.....\$2050.00.....ALLIED PRICE \$ _____

4M50 mono, 4 mixer.....\$1050.00.....ALLIED PRICE \$ _____

4M50R mono, 4 mixer.....\$1095.00.....ALLIED PRICE \$ _____

BROADCAST ELECTRONICS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

5S150, 5M150, 8S150, 8M150



The 5S150, 5M150, 8S150 and 8M150 consoles feature sealed pots, 3600 series electronics and contact free FET bus selection. Each mixing channel accommodates two pushbutton selected inputs and may be preset for mic or line level input.

5S150 stereo, 5 mixer.....\$2850.00.....ALLIED PRICE \$ _____

5M150 mono, 5 mixer.....\$2295.00.....ALLIED PRICE \$ _____

8S150 stereo, 8 mixer.....\$3550.00.....ALLIED PRICE \$ _____

8M150 mono, 8 mixer.....\$2795.00.....ALLIED PRICE \$ _____

BROADCAST ELECTRONICS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

5S250, 5M250, 8S250, 8M250, 10S250, 10M250



The 5S250, 5M250, 8S250, 8M250, 10S250 and 10M250 consoles feature ladder type step attenuators with cue bus switching, telephone type channel keys and contact-free FET bus selection. Field proven 3600 plug-in electronics make this a truly outstanding line of consoles for any broadcast application.

5S250 stereo, 5 mixer.....\$3550.00.....ALLIED PRICE \$ _____

5M250 mono, 5 mixer.....\$2695.00.....ALLIED PRICE \$ _____

8S250 stereo, 8 mixer.....\$4650.00.....ALLIED PRICE \$ _____

8M250 mono, 8 mixer.....\$3595.00.....ALLIED PRICE \$ _____

10S250 stereo, 10 mixer.....\$5795.00.....ALLIED PRICE \$ _____

10M250 mono, 10 mixer.....\$4650.00.....ALLIED PRICE \$ _____

BROADCAST ELECTRONICS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

MICROTEL MT-1



The Microtel MT-1 is an ultra light, battery-operated mixing console for use in a variety of applications.

It consists of a small box with an input for a microphone, a mini-jack input for another source such as a cassette deck, a jack for a headset, a mini-jack for direct output to a tape recorder or similar device and a modular jack for direction connection to the telephone line.

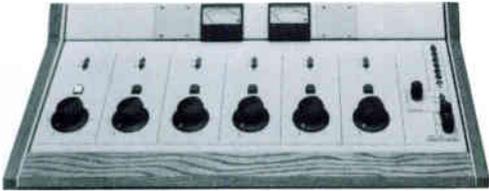
Totally modular in design, uses two 9 volt batteries (not included), measures 2½" wide by 5" long by 2½" high and weighs less than 1 lb.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$199.00

ALLIED PRICE \$ _____

CONSOLES

ARRAKIS 150SC



The 150SC is designed for use in small studio or portable applications. Utilizes Allen-Bradley mod pots, VCA audio control, ITT "Schadow" switches, 5 pin Molex gold plated input and output connectors, active balanced circuitry inputs and outputs. Rack mountable.

150SC mono, active in/out.....\$1895.00
ALLIED PRICE \$ _____

150SC stereo, active in/out.....\$1995.00
ALLIED PRICE \$ _____

ARRAKIS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

500SC



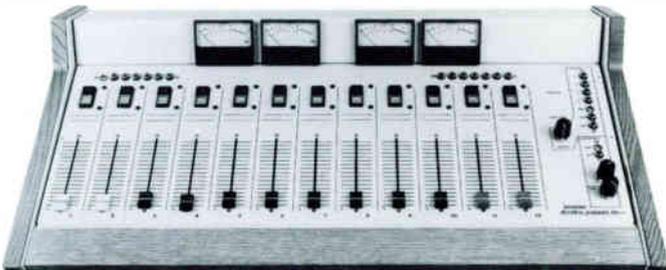
The 500SC is a rugged and versatile console designed for broadcast applications. Utilizes Allen-Bradley mod pots, VCA audio control, ITT "Schadow" switches, Electrovert screw terminal strip input and output connectors and active balanced circuitry inputs and outputs.

500SC mono, active in/out.....\$3550.00
ALLIED PRICE \$ _____

500SC stereo, active in/out.....\$3750.00
ALLIED PRICE \$ _____

ARRAKIS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

2000SC



Designed for ease of operation, uncompromising performance and durability, is the 2000SC console. Each of the 12 channels features a single input per channel. Two remote select switches bring in an additional 14 inputs. Cue is accomplished by a detent on the industries finest fader while lighted momentary reed relay switches actuate the program and audition buses which are simultaneously monitored with VU meters. What console could be more rugged in

aluminum and wood construction, with reliable mother board electronics and ease of audible performance?

2000SC stereo, active in/out.....\$4695.00
ALLIED PRICE \$ _____

2000SC mono, active in/out.....\$4495.00
ALLIED PRICE \$ _____

ARRAKIS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

RAMKO



The RAMKO DC 38 series consoles are the latest version of what has become a standard of the broadcast industry in the area of DC (VCA) control of audio. RAMKO in 1975 became the first manufacturer to utilize full DC control which allows for simpler, more efficient audio control.

DC 38-5S 5 mixer, dual stereo.....\$5083.00
ALLIED PRICE \$ _____

DC 38-5M 5 mixer, dual mono.....\$4323.00
ALLIED PRICE \$ _____

DC 38-8S 8 mixer, dual stereo.....\$6733.00
ALLIED PRICE \$ _____

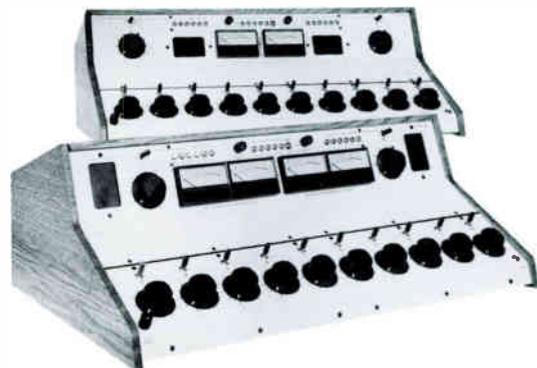
DC 38-8M 8 mixer, dual mono.....\$5386.00
ALLIED PRICE \$ _____

DC 38-10S 10 mixer, dual stereo.....\$7780.00
ALLIED PRICE \$ _____

DC 38-10M 10 mixer, dual mono.....\$5980.00
ALLIED PRICE \$ _____

RAMKO PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

HOWE



The HOWE 7000 and 7500 series consoles are packed with the most advanced features, yet are designed to be simple to operate and maintain. The VCA is a unique HOWE AUDIO design employing optically coupled transistors to separate the DC control signal from the audio section.

7012 12 mixer.....\$6900.00.....ALLIED PRICE \$ _____

7012A 12 mix, 4 meter.....\$7300.00...ALLIED PRICE \$ _____

7512A 12 mixer.....\$10,500.00.....ALLIED PRICE \$ _____

HOWE PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

AUTOGRAM

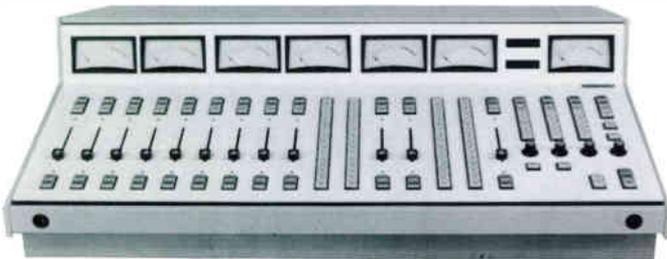


AUTOGRAM AC and IC consoles are built in only one series. A premium-grade series which features ladder-type attenuators, engraved numbers and letters, ¼" front panel, and fully balanced and floating inputs and outputs. They're flexible, functional and "bullet proof"!

- AC-6 typical stereo.....\$5014.00.....ALLIED PRICE \$ _____
- AC-6 typical mono.....\$4399.00.....ALLIED PRICE \$ _____
- AC-8 typical stereo.....\$6279.00.....ALLIED PRICE \$ _____
- AC-8 typical mono.....\$5564.00.....ALLIED PRICE \$ _____
- IC-10 typical stereo.....\$8445.00.....ALLIED PRICE \$ _____

IC-10 typical mono.....\$7650.00.....ALLIED PRICE \$ _____
AUTOGRAM PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

MICROGRAM



AUTOGRAM'S "Microgram" microprocessor controlled audio console is a powerful addition for any broadcast control room. It's built to handle board functions with ease while signalling and mixing numerous prescheduled events simultaneously. The Microgram console can handle 3 stereo buses simultaneously, or run two completely separated automation systems on AM and FM, and still leave a bus open for production, or allow one bus to call another bus for simulcasting and other special situations. In fact, the Microgram console can perform just about any control function you want it to, from handling your daily schedules, to joining and leaving local or network programming, to turning on or off a coffee pot and station lights.

MICROGRAM 24 Inputs, 3 stereo output buses, 1 mono bus, with LIVE ASSIST, logging capability, remote starts and remote controls, 2 mic channels and balance hi level, clock, timer and temperature readout.

TYPICAL PRICE.....\$16,535.00
 ALLIED PRICE \$ _____

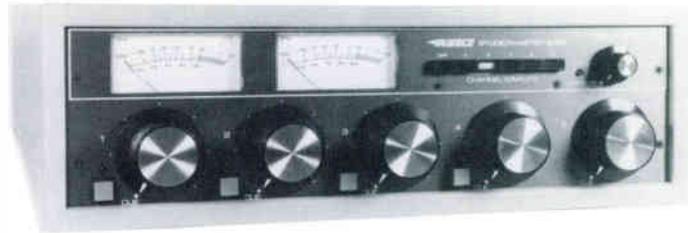
(24-Input console w/1-channel automation ... \$21,356.00)

40 Inputs, 3 stereo output buses, 1 mono bus, with LIVE ASSIST, logging capability, remote starts and remote controls, 2 mic channels and balance hi level, clock, timer and temperature readout.

TYPICAL PRICE.....\$23,155.00
 ALLIED PRICE \$ _____

AUTOGRAM PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

RUSSCO



The RUSSCO line of consoles packs a terrific value into a compact size at an unheard bargain price. Designed for broadcast studio use, this terrific five channel mixing console is as modern as tomorrow, with sophisticated features and fully integrated circuitry for dependability. They're engineered for easy operation and simple servicing and they're as good looking as they are good working.

505 Mono, built in monitor amp.....\$1469.00
 ALLIED PRICE \$ _____

505S Stereo, without monitor amp.....\$2150.00
 ALLIED PRICE \$ _____

RUSSCO PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

QUANTUM



For over ten years QUANTUM has dedicated itself to the building of small to medium sized studio consoles for highest professional demands. No component used in QUANTUM consoles are of any lesser quality than in the products of other manufacturers. The Series 22 consoles feature transformer balanced and floating mic inputs, differentially balanced line level inputs and differentially balanced echo return inputs. The outputs are transformer balanced and floating and strappable for other nominal levels.

CALL FOR TODAY'S ALLIED PRICE.

“SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE”

CONSOLES

AUDITRONICS 200



The 200 series on-air broadcast control console represents the culmination of latest technology applied for broadcast use. The design is based on information gathered during extensive research conducted throughout the broadcast industry and the expertise of Auditrronics 15-year history in this business. The 200 series offers a high degree of reliability together with simplicity of use in a compact, operator oriented package.

Typical pricing with typical input modules.

206MF typical 6 input mainframe.....\$9000.00
ALLIED PRICE \$ _____

212MF typical 12 input mainframe.....\$14,000.00
ALLIED PRICE \$ _____

218MF typical 18 input mainframe.....\$19,000.00
ALLIED PRICE \$ _____

224MF typical 24 input mainframe.....\$23,500.00
ALLIED PRICE \$ _____

Module pricing upon request.

AUDITRONICS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

300



The 300 series audio production console is a revolutionary new concept developed by Auditrronics to complement the particular requirements of today's modern facilities. The 300 series has been developed as a building block system to satisfy the requirements of small or large and complex facilities. Adequate space is reserved for accessory mounting, both in the operational area where signal processing equipment, remote controls, and even modules from other manufacturers may be added on.

Standard configuration for 4 output operation includes mainframe with metering, designated number of input positions.

Typical pricing with standard configuration.

341-8 8 inputs in 16 input mainframe.....\$21,106.00
ALLIED PRICE \$ _____

341-16 16 inputs in 16 input mainframe.....\$27,546.00
ALLIED PRICE \$ _____

341-24 24 inputs in 24 input mainframe.....\$36,006.00
ALLIED PRICE \$ _____

341-32 32 inputs in 32 input mainframe.....\$44,466.00
ALLIED PRICE \$ _____

AUDITRONICS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

Standard configuration for 8 output operation includes mainframe with metering, designated number of input positions.

Typical pricing with standard configuration.

381-12 12 inputs in 16 input mainframe.....\$27,026.00
ALLIED PRICE \$ _____

381-16 16 inputs in 16 input mainframe.....\$30,246.00
ALLIED PRICE \$ _____

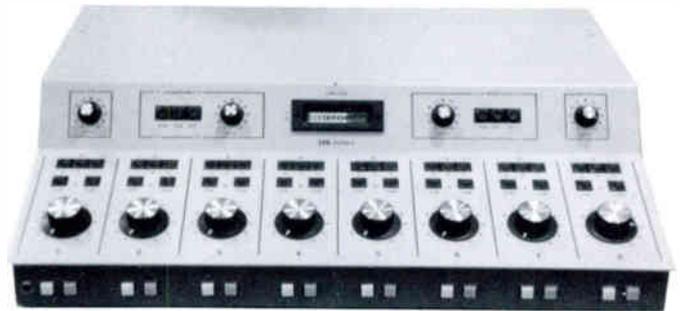
381-24 24 inputs in 24 input mainframe.....\$38,706.00
ALLIED PRICE \$ _____

381-32 32 inputs in 32 input mainframe.....\$47,166.00
ALLIED PRICE \$ _____

Module pricing upon request.

AUDITRONICS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

LPB ALPHA-SERIES



The new LPB Alpha-series broadcast audio consoles are designed to be cost effective, yet completely "state-of-the-art" VCA level control and DC solid-state switching keep the audio signal path short to virtually eliminate signal degradation through the console. Three inputs per mixer, user-programmable monitor and cue muting, transformerless design (output transformers optional), mono mix-down output, built-in 8-watt per channel monitor amplifier, head-phone and monitor switching, +8dBm/600 ohm auxiliary outputs, all input plug-ins capable of mic or line level, screw barrier terminal input and output connections, long-life pushbuttons, LED status indicators, fluorescent level meters, 15dB output headroom above +8dBm, momentary remote start pushbuttons, tally contacts and ease of studio interconnection all add up to make these stereo consoles a superior value.

ALPHA 6 channel stereo.....\$2795.00 ALLIED PRICE \$ _____

ALPHA 8 channel stereo.....\$3795.00 ALLIED PRICE \$ _____

ALPHA 10 channel stereo.....\$4795.00
ALLIED PRICE \$ _____

LPB PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

**"PRICES ARE U.S.
DOMESTIC ONLY"**

LPB

SIGNATURE II



The LPB SIGNATURE II consoles feature transformer audio inputs. Monitor speaker muting and on-air light relays are provided. A cue position is provided in each mixer and all models include an internal cue system consisting of a cue amplifier, level control and 5" speaker. The internal monitor amplifier is switch selectable to monitor program or two external monitor inputs. The illuminated VU meter reads the program output at all times.

- S-12 5 channel stereo.....\$3395.00...ALLIED PRICE \$ _____
 - S-13C 8 channel mono/stereo.....\$4495.00
ALLIED PRICE \$ _____
 - S-14A 5 channel mono.....\$2695.00...ALLIED PRICE \$ _____
 - S-15A 8 channel dual out/mono.....\$3495.00
ALLIED PRICE \$ _____
 - S-20 10 channel dual out/stereo.....\$5395.00
ALLIED PRICE \$ _____
- (Note: add \$95 for mono mixdown)
S-21B 10 channel dual out/mono.....\$4395.00
ALLIED PRICE \$ _____

Accessory and spares prices upon request.
LPB PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES.
CALL FOR TODAY'S ALLIED PRICE.

CITATION



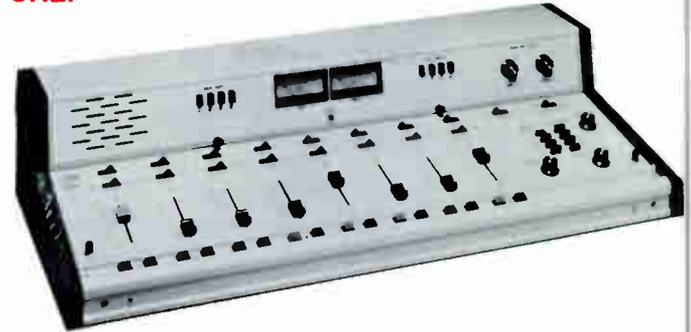
The LPB CITATION consoles come in only stereo and in only two configurations, 8 channel and 10 channel. The series features transformer balanced inputs and outputs, with three inputs per mixer, program, audition, mono mixdown, monitor, cue, headphone and tape outputs. The CITATION console features a signal to noise ratio of better than 74 dB below +18 dBm output with -50 dBm input 20 Hz to 20 kHz.

- C-8S 8 channel dual stereo.....\$6995.00
ALLIED PRICE \$ _____
- C-8SL 8 channel dual stereo.....\$7995.00
ALLIED PRICE \$ _____

- C-10S 10 channel dual stereo.....\$7995.00
ALLIED PRICE \$ _____
- C-10SL 10 channel dual stereo.....\$8995.00
ALLIED PRICE \$ _____

Accessory and spares prices upon request.
LPB PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES.
CALL FOR TODAY'S ALLIED PRICE.

UREI



The UREI 1650 and 1680 series broadcast consoles have the features most requested by engineers and consultants, priced within the budget of small market stations and built with UREI quality. The new consoles offer a choice of five or eight mixers and a choice of attenuator types, rotary conductive plastic, Shallco precision rotary or Penny and Giles straight line. Provisions are for customization to fit the individual station needs, but no accessories are required to put them on the air as they are shipped.

- 1651 5 mixer, conductive.....\$2696.00
ALLIED PRICE \$ _____
- 1652 5 mixer, Shallco.....\$3396.00
ALLIED PRICE \$ _____
- 1653 5 mixer, Penny & Giles.....\$3696.00
ALLIED PRICE \$ _____
- 1681 8 mixer, conductive.....\$3296.00
ALLIED PRICE \$ _____
- 1682 8 mixer, Shallco.....\$4496.00
ALLIED PRICE \$ _____
- 1683 8 mixer, Penny & Giles.....\$4896.00
ALLIED PRICE \$ _____

Accessory and spares prices upon request.
UREI PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES.
CALL FOR TODAY'S ALLIED PRICE.

MICRO-TRAK

6510 SERIES



The Model 6510 features ten mixing channels, fourteen inputs, stereo or mono, selectable muting switch, relays for "on-the-air" lights, high quality VU meters, VCA attenuators, plug-in printed circuit cards and switches for easy maintenance, pushbutton input selector switches, barrier terminal strip input and output terminations, monitor output at line level, sealed main pots and compact design.

- 6510 DBM (MONO)
MANUFACTURER'S SUGGESTED LIST PRICE.....\$3150.00
- 6510 DBS (STEREO)
MANUFACTURER'S SUGGESTED LIST PRICE.....\$3495.00

ALLIED PRICE \$ _____

MICRO-TRAK
6509



The Model 6509 audio console features five mixing channels, nine mixing inputs, outputs for stereo, mono, monitor, headsets and cue speaker, selectable muting, slotted screw terminal connections, illuminated VU meters. Crosstalk spec'd at -50 dB to -74 dB and distortion is 0.4% Re: +8 dBm output, 800 Hz, hi level input. Package size is 17 3/4 W x 12 3/4 D x 6 1/2 H and weighs 16 lbs.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1995.00

ALLIED PRICE \$ _____

IIXL SERIES



The new IIXL series of audio control consoles from MICRO-TRAK are at the forefront being extra rugged, versatile, top performer units for radio and/or television. The exciting features include electronically balanced transformerless inputs, 2 inputs per channel, switch select input levels, FET input switching, FET bus selection switches, long life linear faders, analog VU metering, pushbutton switches for cue selection with LED indicators, push button remote start switches for carts, electronically balanced outputs. The IIXL series deserves your close attention.

IIXL-5, 5 channel, stereo.....\$2995.00

ALLIED PRICE \$ _____

IIXL-10, 10 channel, stereo.....\$4750.00

ALLIED PRICE \$ _____

MICRO-TRAK PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

TASCAM

M-16

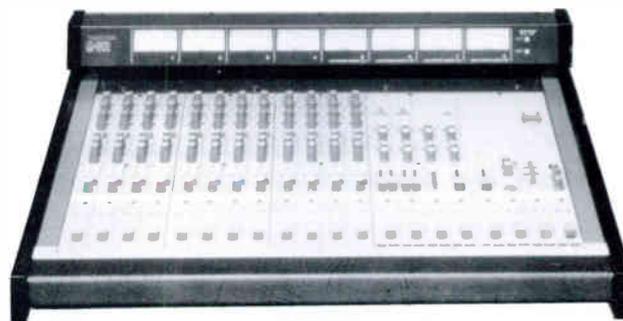


The M-16 comes in 16 or 24 input configurations. It features 8 main program mixing buses with submaster faders, 8 main board outputs, stereo solo in place, input, monitor and effects returns, remix solo enable, input PFL/Solo select, 2 independent stereo mixing buses, 16 meters switchable to read bus or external source, 100 millimeter conductive plastic faders for smooth, positive control, 4 band, 8 knob parametric equalizers that may be switch bypassed, four auxiliary mixing buses and 16 x 2 channel or dual 8 x 2 channel monitor selection. A sophisticated production board for every need. Accessory prices upon request.

M-16 16 inputs.....\$10,500.00.....ALLIED PRICE \$ _____

M-16 24 inputs.....\$13,000.00.....ALLIED PRICE \$ _____

M-500 SERIES



The TASCAM M-500 SERIES are sophisticated audio mixing consoles designed for professional production applications. The M-520 (20-in/8-bus) is intended primarily for 16-track studios, while the M-512 (12-in/8-bus) is ideal for 8 track installations. Basic features include selectable inputs, balanced XLR microphone inputs with individually switchable phantom power, 2 pair instrument inputs, 2 RIAA phono inputs, 16 or 8 line inputs, 16 or 8 multitrack tape returns, 8 main buses, 4 auxiliary buses, 8 balanced amplifiers, 12 or 8 VU meters with LED peak indicators. Each input channel has access send/receive, 3-band parametric EQ, mute switch, and direct out. Also includes stereo SOLO, prefader listen and talk back mic plus slatetone/test oscillator. Console has optional pedestal available.

M-520 \$5495.00

ALLIED PRICE \$ _____

M-512 \$3995.00

ALLIED PRICE \$ _____

TASCAM PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

ELECTRO VOICE
C-12 SERIES TWO



The ELECTRO VOICE C-12 SERIES TWO console is a compact, high performance 12 in/4 subgroup/stereo and mono output mixer designed for musical, speed, theatrical sound reinforcement, and recording applications. A new balanced output option uses highest quality transformers and circuitry with XLR connectors on all 10 outputs (Mono, L/R Stereo, 4 Subgroups, Monitor, Aux, and Hi Effects Sends) for lowest noise and distortion. These may be used either singly, or in any combination with the normally provided unbalanced (1/4" phone) outs. This variety of outputs and the versatility provided by having access jacks at almost every point in the signal path makes the mixer equally at home in broadcast, recording or production environments.

C-12/2 \$3855.00

ALLIED PRICE \$ _____

ELECTRO VOICE PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

SHURE
M-67

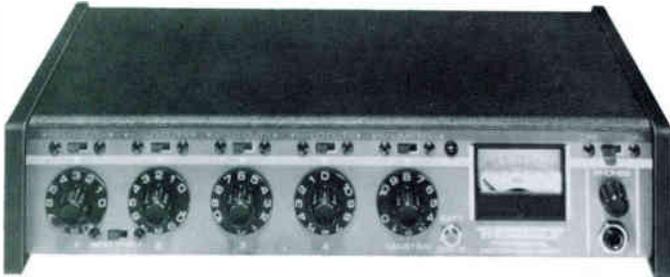


The M-67 is a transistorized microphone mixer/remote amplifier specifically designed for professional applications. The excellent performance and versatility of this complete, compact console make it an ideal choice for studio, remote, or original sound reinforcement use, and as an "add-on" mixer for expanding existing facilities. It is also ideally suited for use with tape recorders and VTR's to provide multiple microphone inputs.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$400.00

ALLIED PRICE \$ _____

M-267



The SHURE Model M-267 is a microphone mixer/remote amplifier specifically designed for professional applications. The excellent performance, versatility and features of this complete, compact console make it an ideal choice for studio, remote, or sound reinforcement use, and as an add-on mixer for expanding existing facilities. It is also ideally suited for use with audio and video tape recorders to provide multiple microphone inputs.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$440.00

ALLIED PRICE \$ _____

FP-31



The Model FP-31 is a compact, portable microphone mixer specially designed for electronic news gathering (ENG) and electronic field production (EFP) use including film, video and remote broadcast applications. The FP-31 provides a wide, flat frequency response, low distortion, and up to +18 dBm output. The unit features extremely low internal noise and switchable low-cut filters for each input that effectively reject low-frequency handling and wind noise. 400 Hz slate tone, 1 kHz cue tone.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$830.00

ALLIED PRICE \$ _____

TELFAX
131A



From TELFAX, manufacturers of the most widely used miniature phone remote units comes a new unit for the professional broadcaster, the TFX-131A. More features like pushbutton dialing with memory redial, LCD clock/stopwatch timer, test oscillator, closed circuit spotter channel, instant compatibility with low frequency extenders and other external audio processors, custom engraved call letter plate, modular phone connectors and much more.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$795.00

ALLIED PRICE \$ _____

31C

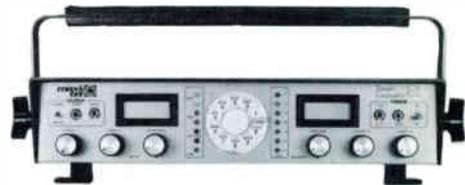


This is the new standard in remote broadcasting, the TelFax TFX-31C phone remote unit. It is the smallest, lightest and most feature-packed unit on the market. Just connect it to the phone line, plug in your headset and you're ready to broadcast with superior audio quality. Compare size, features and price carefully, the TelFax TFX-31C is the only wise choice.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$595.00

ALLIED PRICE \$ _____

MAXI-TEL



Utilizing the latest "developed technology" electronic design, the MAXI-TEL is your answer to all of your remote broadcast problems when using telephone lines. When you are broadcasting sports games, grand openings, conventions or whatever, the MAXI-TEL will serve you flawlessly with exceptional broadcast quality. 120 volt operation plus up to 40 hours of battery backup makes the MAXI-TEL one of the most reliable pieces of broadcast equipment that you own.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$825.00

ALLIED PRICE \$ _____

RUSSCO



Here's the Remote Mixer you've been waiting for! The STELLAR SERIES TELEMOTE 321 gives you two low impedance microphone inputs and one medium impedance tape recorder input in a handy-dandy 3 pound package. The RUSSCO TELEMOTE 321 3 CHANNEL MIXER makes life easy for you. No batteries or AC plugs to worry about. Just hook up to your phone line and you're on the air!

MANUFACTURER'S SUGGESTED LIST PRICE.....\$550.00

ALLIED PRICE \$ _____

MAXI-TWO



If a two channel mic/tape mixer will perform all the functions you need for remote broadcasting then the MAXI-TWO will fill the need. With two mic inputs or one plus a tape input for cassette, LED VU indication, battery or AC operation, and a telephone dial the MAXI-TWO is the maximum two channel mixer for your remote broadcasting program.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$425.00

ALLIED PRICE \$ _____

MICRO-TRAK

SPORT III & SPORT IV



This two channel console incorporates many features found desirable by sports broadcast personnel including talkback for setup, a built-in AC power supply, low cost battery requirements, a "Touchtone" telephone dial and three headphone outputs. The SPORT III is attractively packaged in a self-contained carrying case. Open the cover, connect the telephone line, plug in the AC if available, turn to battery operation if not, plug in a microphone or sportscaster headset and it's play-by-play time. The SPORT IV has all the features of the SPORT III with five mic inputs, 4 mix to program + spotter to headset only.

SPORT III.....\$699.00

ALLIED PRICE \$ _____

SPORT IV.....\$849.00

ALLIED PRICE \$ _____

MICRO-TRAK PRICES ABOVE ARE MFRG'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICES.

BONNEVILLE

DA-6



The Bonneville DA-6 is a premium quality, general purpose audio distribution amplifier for the professional. It is suitable for multiple line-level feeds from a single source. Heat buildup is no problem. As many as 30 have been stacked and operated for years. The DA-6 is supplied with six outputs. Up to 10 outputs can be ordered or field-installed in the prepunched chassis. The unit meets design specifications with all ten outputs as well as six. Additional output and black anodized panel option prices upon request.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$595.00

ALLIED PRICE \$ _____

DA-106



The DA-106 is a premium-quality general-purpose audio distribution amplifier. It is suitable for multiple line-level feeds of audio or real-time SMPTE time-code signals from a single source.

The unit features a balanced, bridging transformer input complete with static shield and R-F bypassing. Up to 30 dB of gain is adjustable by a front-panel control. The amplifier and power supply modules are easily removable from the front of the unit.

All outputs are transformer-isolated and are fully protected against short-circuits. Outputs are isolated from each other by a minimum of 60 dB across the entire audio bandwidth. Outputs can be strapped for 150 or 600-ohm source impedances. The individually-calibrated VU meter can be set for either +4 or +8 dBm systems. A front-panel headphone jack is provided for aural monitoring. A bipolar regulated power supply is self-contained. The rectifier/regulator module is removable from the front of the unit. The amplifiers and power supply are designed for continuous sine-wave duty. The distribution system is engineered to interface with a system without introducing ground loops.

The DA-106 offers some of the most enviable features available in audio distribution at the most reasonable pricing in its class.

DA106Stereo.....\$1095.00

ALLIED PRICE \$ _____

DA106Mono.....\$695.00

ALLIED PRICE \$ _____

BONNEVILLE

DA-108



The DA-108 is particularly suited to provide multiple microphone or line-level outputs to reporters and sound cameramen at press conferences. It is also suited for multiple feeds in portable sound reinforcement systems. The DA-108 features XLR connectors in and out, transformer inputs and outputs, a 20K bridging input, up to +24 dBm outputs, selectable line or mic outputs, adjustable gain to +30 dB and a self contained power supply.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$695.00
ALLIED PRICE \$ _____

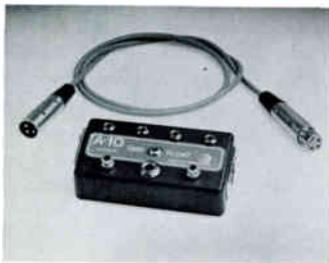
PC-2



The "Press Corps 2" audio distribution package combines two DA-108 distribution amplifiers in a rugged carrying case. The two DA's may be bridged from a single input line using the cable supplied, or may be operated independently as separate 1 x 8 units. The carrying case has a detachable front and back cover to completely protect the distribution system during transportation. Transformer isolation on all inputs and outputs protects against AC ground loop current and RFI.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1495.00
ALLIED PRICE \$ _____

A-10



The A-10 audio accessory is a passive interface box designed to provide multiple isolated outputs from a single line-level input. Several cassette tape recorders may be driven from a single distribution amplifier line-level input. All output jacks are insulated from the case. A ground switch is provided to maximize the flexibility of the unit.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$59.00
ALLIED PRICE \$ _____

LA-404 Line/Isolation Amplifier



The Bonneville Model LA-404 is a self-contained general purpose line amplifier suitable for program feeds, headphone drivers, signal-level boosting and audio distribution or isolation.

This premium-quality unit features four separate line amplifiers with transformer-isolated inputs and outputs. All inputs are bridging and outputs are short-circuit protected. The output (source) impedance is available in 150,600 ohms or a selected alternate. A bi-polar

regulated power supply is self-contained, and an electronically-isolated VU-meter may be selected to any of the four channels. VU-meter may be selected to any of the four channels. VU-meter range is selectable to +4, +8 or +20 dBm equal to the 0-VU indication. A headphone jack is provided on the front panel for monitoring the system audio. The headphone output follows the meter selector switch and the headphone level is adjustable by a front-panel control.

Available gain from each amplifier channel is 30 dB, and is continuously adjustable from zero output to 30 dB of gain by means of four individual front-panel controls.

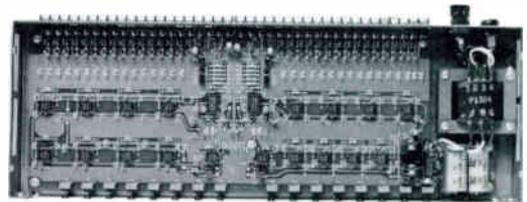
Input and output connections are by means of an unbreakable screw-type barrier strip. The general design of the amplifier incorporates performance, reliability, ruggedness and quality parts.

The amplifier is designed for standard 19" rack mounting and requires 3½ inches of vertical rack space.

The LA-404 is designed by professional broadcasters for professional audio use.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$895.00
ALLIED PRICE \$ _____

AUDIOMETRICS

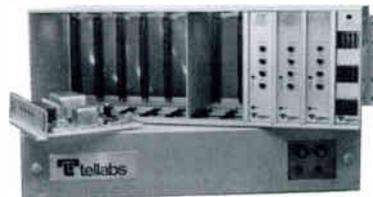


The AUDIOMETRICS distribution amplifiers combine solid state electronics and functional flexibility into one small package. A single high quality audio op amp provides balanced output, and individual gain adjustments for each channel. Excellent isolation is provided between outputs. Each balanced channel, regardless of level set and load, is unaffected by the other channels. Audio sources can be routed to multiple locations with various level requirements and impedances while maintaining the integrity of the signal quality throughout.

DA-84 2 x 16.....\$409.00 **ALLIED PRICE \$ _____**

AUDIOMETRICS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

TELLABS MODULAR



Each Tellabs 4018 module provides a 1 x 8 distribution amplifier with high impedance bridging or 600 ohms input and 600 ohms each port output. The 1012 housing permits mounting of up to eleven 4018 modules plus a 9021 fuse protection module. Combine this package with a rack-mounted 8013 power supply, and you have up to 11 x 88 distribution amplifier. All Tellabs equipment is connected by .075 wirewrap terminals. Cabinets must be wired by user.

4018 DA module.....\$141.32 **ALLIED PRICE \$ _____**

1012 Housing.....\$106.25 **ALLIED PRICE \$ _____**

8003A Power supply.....\$183.82 **ALLIED PRICE \$ _____**

TELLABS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

DISTRIBUTION AMPS

HEACO 5002A



The 5002A audio distribution amplifier from HEACO offers a 15K ohm transformer balanced input. The frequency response of the amplifier is down less than .25 dB over a frequency range of 20 Hz to 20 kHz. Distortion is less than .25% over the same range. Eighteen 600 ohm balanced outputs are provided that are isolated by greater than 80 dB. The output level, as well as input level, can be monitored by a high-quality VU meter allowing the operator to check the operation of the DA as well as accurately set the audio level to the outputs.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$387.50

ALLIED PRICE \$ _____

5004A



The dual 5004A distribution amplifier from HEACO is what can accurately be described as "developed technology" carried to its highest. With only 1 3/4" of rack space, it makes bulky distribution amplifiers a thing of the past. The 5004A consists of dual, extremely low distortion amplifiers. Each amplifier has a differential, balanced bridging input. The frequency response is less than .25 dB over a frequency range of 20 Hz to 20 kHz. Distortion is less than .25% over the same range. The 5004A offers a choice of 1 x 8 or 2 x 16 operation, with integrated circuitry and popless input to the output meter switch.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$593.50

ALLIED PRICE \$ _____

RAMKO



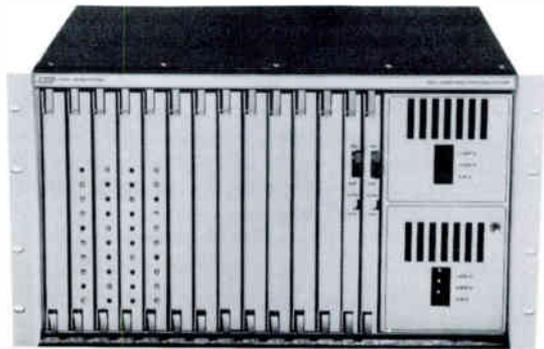
The new PRIMUS RS-1616 is an audio thru data routing/amplifying system with performance and versatility unmatched by any similar units on the market. In addition to performance that will surpass the requirements of even the most critical studio professional, the user friendly controls (local front panel, remote 4 bit binary, common 3 wire serial, or standard RS-232 personal computer control) provide you with the power to program or control these units, limited only by your imagination.

The system can be configured from as little as 8 mono/4 stereo in by 2 out, to as large as 128 mono/64 stereo in by 64 out, with each main frame capable of handling up to 16 mono/8 stereo (or combinations thereof) and 16 out. Up to 32 main frames may be looped together and controlled with a single control system.

Nothing could be easier to operate. If it is local control (front panel), simply select the input you want and then the output. Remote controls, due to the wide variety of methods available, can be configured practically any way desired.

PRICE ON APPLICATION

UTAH SCIENTIFIC



The AVS-1 Switching System has been developed to meet the needs of broadcasters and others whose requirements call for reliable, distortion-free routing of audio, video, tally, time code or machine control signals. Standard configurations are offered in matrix sizes from 10 x 10 to 150 x 160 providing video only, audio only, or audio follow video switching. Multi-level audio, regenerative time code, tally and metallic contact matrices are also available. Performance parameters are controlled by 1% components having extremely good temperature and aging characteristics. Redundant cooling fans are employed. Four redundant party lines are provided. A standby control and memory card are available to permit instant replacement of 100% of the shared components and redundant diode-isolated power supplies are also available.

PRICE UPON APPLICATION.

CONEX

UM-33 OMNI-Q



The CONEX Omni-Q is a stereo, eight channel in, one channel out general purpose cue, monitor, and line amplifier.

The Omni-Q provides the easiest, least expensive, and most compact way of handling a variety of common monitoring, cueing, amplifying, and switching situations in any audio installation.

Typical Omni-Q applications include:

- * Network or remote line monitor and buffer amplifier
- * Transmitter input selector and monitor
- * Automation cue amplifier
- * Tape recorder input selector
- * Telephone line source selector
- * Headphone amplifier
- * Intercom, communication system, or multi-media testing
- * Console input expander

Special Features:

- * 8 balanced bridging stereo inputs
- * 600 Ohm and direct switched outputs
- * Stereo LED VU meters with front panel calibration (-20 to +8)
- * Stereo monitor amplifier drives external speakers at 2 watts per channel
- * Also contains two built-in speakers
- * Front panel headphone jack and speaker switch
- * Built-in low-distortion 3 frequency test oscillator with level control
- * Front panel jacks for easy connection of test equipment to the switched audio bus
- * Self-contained in a compact 1 3/4" rack mounting package

MANUFACTURER'S SUGGESTED LIST PRICE.....\$495.00
ALLIED PRICE \$ _____

AUDITRONICS 1100 SERIES



Designed to meet the requirements of the modern broadcast facility, the 1100 SERIES audio distribution amplifier systems from AUDITRONICS include the mainframe, power supply and a 1 x 6 distribution amplifier module. The DA-6/LC module includes one balanced input with internally accessed master gain control and six balanced outputs each module with individual front panel accessible attenuation controls.

- 1100-MFP** 8 input mainframe with integral PS-1100 power supply.....\$850.00
ALLIED PRICE \$ _____
- 1100-MF** 10 input mainframe exclusive of power supply.....\$500.00
ALLIED PRICE \$ _____
- DA-6/LC** 1 input with gain control + 6 outputs with individual attenuation controls.....\$166.00
ALLIED PRICE \$ _____
- PS-60** Rack mount external power supply system.....\$475.00
ALLIED PRICE \$ _____
- PSI-60** Rack mount power supply isolator.....\$250.00
ALLIED PRICE \$ _____
- PS-1100** Spare Integral power supply for 1100 MFP mainframe.....\$350.00
ALLIED PRICE \$ _____

AUDITRONICS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

STANDARD FREE STANDING

Model	Cap.	Mfgr's List	ALLIED PRICE \$
A/L 20	20	\$22.00	_____
A/L 36	36	\$38.00	_____
A/L 40	40	\$40.00	_____
A/L 50	50	\$48.00	_____
A/L 60	60	\$58.00	_____
A/L 100A	100	\$84.00	_____
(Rows 5 wide, 20 high - as picture shows)			
A/L 100B	100	\$84.00	_____
(Rows 10 wide, 10 high)			
A/L 150	150	\$128.00	_____
A/L 200	200	\$169.00	_____

N-SERIES FREE STANDING

Model	Cap	Mfgr's List	ALLIED PRICE \$
A/L 100N	100	\$87.00	_____
A/L 150N	150	\$128.00	_____
A/L 200N	200	\$169.00	_____
A/L 250N	250	\$220.00	_____
A/L 300N	300	\$255.00	_____
A/L 350N	350	\$301.00	_____
A/L 400N	400	\$336.00	_____
A/L 450N	450	\$383.00	_____
A/L 500N	500	\$429.00	_____
A/L 600N	600	\$486.00	_____
A/L 800N	800	\$642.00	_____
A/L 1000N	1000	\$840.00	_____

LAZY SUSAN MODELS



Lazy susan cart racks are normally supplied with standard 4" base. However, any size base up to 30" is available. Special size racks are available. Walnut, pecan, gold or black laminate are standard. Call or write for prices on special bases, sizes or laminates.

Model	Cap	Mfgr's List	ALLIED PRICE \$
A/L 100LS	100	\$166.00	_____
A/L 160LS	160	\$249.00	_____
A/L 240LS	240	\$290.00	_____
A/L 400LS	400	\$496.00	_____
A/L 800LS	800	\$836.00	_____
A/L 1000LS	1000	\$1302.00	_____
A/L 1200LS	1200	\$1508.00	_____

FURNISHINGS

A-LINE CART RACKS



For audio cartridge storage Allied offers the high-quality, highly flexible A-LINE of cart racks. From the standard wall mount to the most exotic lazy susan models, everything is available from Allied. All cart racks are normally supplied with walnut, pecan, gold or black laminate. Special laminates and sizes are available, call or write for prices.

FURNISHINGS

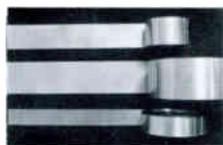
ALLIED WIRE LAZY SUSAN CART RACKS



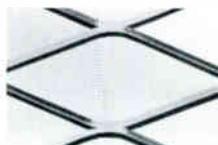
Where strength and capacity are required at a minimal cost, the Allied line of welded, durable wire lazy susan cart racks can fill the need. Available in a choice of 50, 300 or 500 capacity, these industrial quality cart racks will give many years of dependable service.

Model	Cap	Mfgr's List	ALLIED PRICE \$
50	50	\$42.95	_____
300	300	\$349.00	_____
500	500	\$495.00 <i>550</i>	_____

ALLIED IS A MAJOR SUPPLIER OF COPPER



for RF Management,
COPPER STRAP
.020 or .032 thickness,
all widths



for tower counterpoise,
COPPER GROUNDSCREEN



for equipment or
room shielding,
COPPER FLYSCREEN



for construction wiring,
SOFT #10 COPPER WIRE

CALL FOR TODAY'S PRICE.

FIDELIPAC CART RACKS

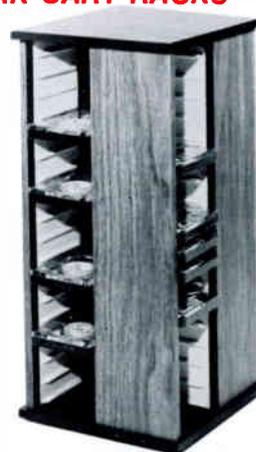


The Fidelipac line gives you a choice of styles and sizes.

Model	Description	ALLIED PRICE \$
WR25	Wall mount-25 carts.....\$28.70	_____
MRB-1	rack base (8-WR25).....\$66.90	_____
MR-200	mobile rack holds 200.....\$296.50	_____
TR-48	table top rack holds 48.....\$83.70	_____
TR-96	tabletop rack holds 96.....\$150.40	_____

FIDELIPAC PRICES ABOVE ARE MFGR'S LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

MICRO TRAK CART RACKS



The Model 72 lazy susan cart rack is designed to complement the L series studio furniture line as is the L-90 wall mount unit. The Micro Trak line of cart racks offers clean efficient lines and a maximum of storage with a minimum of utilized space.

Model	Description	ALLIED PRICE \$
72	Lazy Susan cart rack.....\$94.50	_____
90	Wall mount cart rack.....\$94.50	_____

MICROTRAK PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

SIMPAC



For a cart rack that will mount anywhere and will hold up to 10 carts, the SIMPAC line from Allied is just what the engineer ordered. Black only.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$7.00 per module

ALLIED PRICE \$ _____

A-LINE 19" EIA EQUIPMENT RACKS

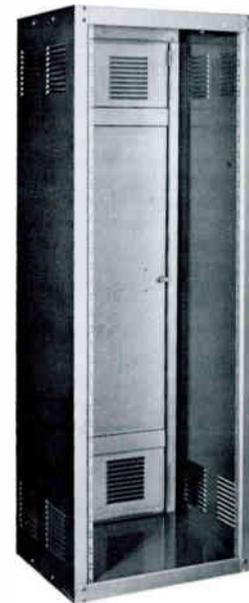


All rack cabinets are made of 3/4" high-density particle board and covered with walnut, honey gold, pecan or black laminate. However, any color or wood grain laminate is available. Backs of all equipment racks feature an exclusive snap-out panel for easy access to equipment. Custom heights are available. Optional casters are \$37.00 per set. For overall dimensions add 4" to the panel height, all units are 23 1/4" wide overall, 17" depth racks are 18" deep overall, 23" depth racks are 24" deep overall.

Model	Panel Ht	Depth	Mfgr's List	ALLIED PRICE \$
A/L R100	7"	17"	\$78.00	ALLIED PRICE \$ _____
A/L R100	7"	23"	\$82.00	ALLIED PRICE \$ _____
A/L R101	8 3/4"	17"	\$85.00	ALLIED PRICE \$ _____
A/L R101	8 3/4"	23"	\$89.00	ALLIED PRICE \$ _____
A/L R102	10 1/2"	17"	\$91.00	ALLIED PRICE \$ _____
A/L R102	10 1/2"	23"	\$97.00	ALLIED PRICE \$ _____
A/L R103	12 1/4"	17"	\$105.00	ALLIED PRICE \$ _____
A/L R103	12 1/4"	23"	\$111.00	ALLIED PRICE \$ _____
A/L R104	14"	17"	\$118.00	ALLIED PRICE \$ _____
A/L R104	14"	23"	\$125.00	ALLIED PRICE \$ _____
A/L R105	15 3/4"	17"	\$130.00	ALLIED PRICE \$ _____
A/L R105	15 3/4"	23"	\$136.00	ALLIED PRICE \$ _____

A/L R106	17 1/2"	17"	\$144.00	ALLIED PRICE \$ _____
A/L R106	17 1/2"	23"	\$160.00	ALLIED PRICE \$ _____
A/L R107	19 1/4"	17"	\$161.00	ALLIED PRICE \$ _____
A/L R107	19 1/4"	23"	\$167.00	ALLIED PRICE \$ _____
A/L R108	21"	17"	\$171.00	ALLIED PRICE \$ _____
A/L R108	21"	23"	\$175.00	ALLIED PRICE \$ _____
A/L R109	24 1/2"	17"	\$174.00	ALLIED PRICE \$ _____
A/L R109	24 1/2"	23"	\$182.00	ALLIED PRICE \$ _____
A/L R110	31 1/2"	17"	\$184.00	ALLIED PRICE \$ _____
A/L R110	31 1/2"	23"	\$191.00	ALLIED PRICE \$ _____
A/L R111	35"	17"	\$190.00	ALLIED PRICE \$ _____
A/L R111	35"	23"	\$197.00	ALLIED PRICE \$ _____
A/L R112	42"	17"	\$202.00	ALLIED PRICE \$ _____
A/L R112	42"	23"	\$213.00	ALLIED PRICE \$ _____

SOUNDOLIER CABINET RACKS



Soundolier cabinet relay racks are designed for standard 19" rack panels. Sturdy 16 gauge CRS is used throughout. A rear door is provided as standard equipment and is hung on slip jointed hinges. Knockouts and internal louvers are among the exclusive features offered by Soundolier. Six 3/4" to 1" conduit Knockouts (three on top and three on back flange) are provided at top of the rack with six knockouts at the bottom. To facilitate cable entry, three 2 13/16" diameter holes are located toward the rear of the base of the rack. Ventilation is improved while providing a neat and clean appearance.

PRICE ON APPLICATION

"SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE"

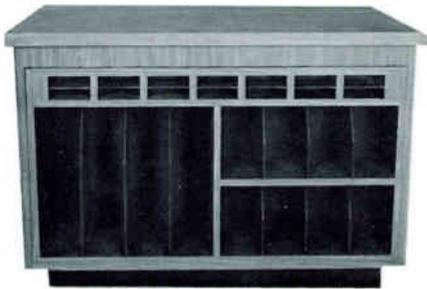
H.O.M.E.



The DR series of H.O.M.E. 19" modular racks includes several features including sturdy welded construction of 16 gauge CRS, optional side panels that are removable for multiple bolt-together assemblies, adjustable 11 gauge angles tapped for 10-32 screws on standard EIA spacing that makes panel mounting easy. A cable opening is provided in the bottom panel. A rear door with lock and handle is provided. You can choose from 20 standard baked enamel colors. Depths to 24" available.

CALL FOR TODAY'S ALLIED PRICE

201 SERIES TURNTABLE BASES



A-LINE turntable bases are constructed of 3/4" high-density particle board covered with standard laminates. Tops are 1 1/4" thick. Turntable bases are normally supplied with rack rails constructed of 11 gauge steel, tapped to accept 10-32 standard EIA rack panel screws. Cover panels are available at \$6 per bay. Custom cabinets with record and/or tape storage inserts are available.

Model	Description	Price	Allied Price \$
A/L 201A	Single turntable base.....	\$222.00	_____
A/L 201B	Double turntable base.....	\$347.00	_____
A/L 201C	Triple turntable base.....	\$447.00	_____

SHOCK ABSORBER JR.



The SHOCK ABSORBER JR. is a turntable isolation platform designed for retrofit and OEM installations. It consists of a turntable mount plate and a base plate separated by four live rubber mounts. The mount plate is high density particle board with a lead strip in-laid around the perimeter. This massive plate is isolated from the base plate by four live rubber shock mounts to further reduce resonance and vibrations. The unit can accommodate all popular direct-drive turntable/toner combinations, providing up to 8-10 dB of feedback headroom and 20 dB of isolation. Standard finishes include walnut, pecan, black or gold laminate. The mount plate will be precut if the turntable/toner combination is specified with this order.

SHOCK ABSORBER JR.....	\$305.00
SHOCK ABSORBER JR. for SP10 MARK III.....	\$359.00

ALLIED PRICE \$ _____

SHOCK ABSORBER



Allied's turntable isolator has been integrated into a package known as the Shock Absorber. This approach attacks head-on the many problems associated with protecting otherwise noise free turntable-tone arm combinations from all types of interference. Gives 8 to 10 dB of feedback headroom improvement and up to 20 dB of isolation. Turntable and tone arm not included.

SHOCK ABSORBER.....	\$516.00	Allied Price \$ _____
SHOCK ABSORBER for SP10 MARK III.....	\$580.00	Allied Price \$ _____

ALLIED RADIO BASE



A table top turntable base that will accommodate all the popular turntable/toner combinations. Comes in standard walnut or black laminate. Special laminates are available at extra cost. (Turntable and tone arm not included.)

MANUFACTURER'S SUGGESTED LIST PRICE.....	\$125.00	Allied Price \$ _____
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GRAPHIC EXPRESS



Our audio cabinet, developed through years of experience, offers both ergonomically and functionally correct designs, extreme flexibility, competitive price and is available for immediate delivery.

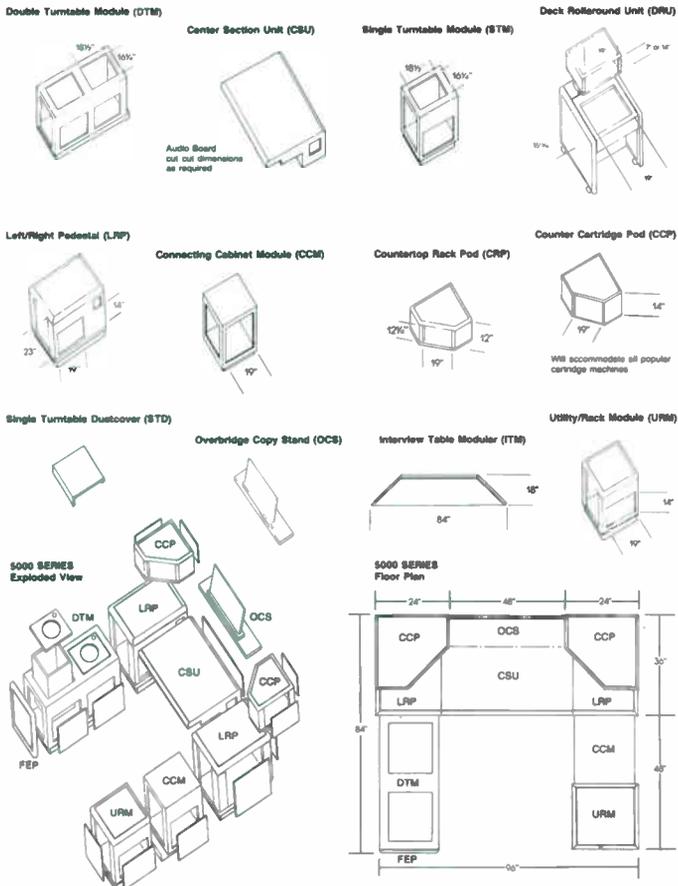
The ability to choose precisely the modular components needed means added flexibility for studio layouts. You can have exactly the design you want—and you can expand or modify the system later should your needs change. The modular design insures compatibility with new or existing studios. Premium quality materials are used throughout. Our work stations for on the air studios and production rooms are designed to maximize the efficiency of the operator and station's engineer. The stylish image that the consoles project, not only enhance your station's look to potential advertisers and the visiting public, but also improve the working environment.

The large number of access panels, held in place with quarter turn fasteners, allow easy cable handling and quick access to cable runs. All units provide access through cabinet bottoms for sub-floor cable ducting. Rack rails are included where specified.

Revitalize your studio and increase your efficiency through proven design and modular flexibility.

We also offer design and fabrication of custom studio cabinetry built to your specifications. Contact us for details.

PRICES UPON APPLICATION



ALLIED STUDIO PACKAGE



The ALLIED STUDIO PACKAGE is the answer for remote broadcasts, news and production studio establishment, or disco operations. This convenient portable package is available wired and equipment ready in either mono or stereo with turntables, phono preamps, tonearms, phono cartridges and rugged cabinetry with solid oak trim. Design a system around equipment you already own or select your favorite brand equipment for installation. Overbridge is an optional feature. You'll find this package to be a space saving solution to many of your production problems.

PRICES VARY DEPENDING ON EQUIPMENT SELECTED. CALL FOR YOUR ALLIED PACKAGE PRICE.

(NOTE: If not picked up at Richmond Warehouse--add \$150 packing charge.)

CONSOLE TABLE

The A-LINE console table comes in a standard size 30" x 96" table top with legs and modesty panel available.

Model	Description	Price
A/L 202	Console tabletop 30" x 96".....	\$149.00 ALLIED PRICE \$
A/L 1111	Legs for console tabletop.....	\$186.00 ALLIED PRICE \$
A/L 2222	Modesty panel for tabletop.....	\$19.00 ALLIED PRICE \$

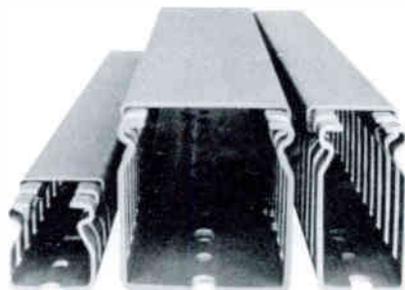
STANDARD BROADCAST DESK



A heavily-built "real" piece of control room furniture. Standard in 29" height with tabletop of 30" x 96", this unit can be varied in size to meet your precise needs. Shipped modular for rapid assembly. A pullout kneewell back affords easy access to hidden wiring compartments. Amplifier optional.

Model	Description	Price
A/L 230	Console desk, no drawers.....	\$593.00 ALLIED PRICE \$
A/L 2300	Console desk, two drawers.....	\$644.00 ALLIED PRICE \$

ELECTRO-DUCT® by Electrovert



This plastic duct has more positive features than any other. If you've had to fight cover-on & cover-off with inferior brands, you'll appreciate the zip-on, zip-off ability of Electro-Duct's cover.

When you buy Electro-Duct, the cover is included in the price. Allied stocks 1" x 1", 2" x 2", 3" x 3", and 5" x 3". Length: 6½ ft. Color: gray.

We went for the best so you can have the best. There are many PVC Duct manufacturers. There's only one Electrovert.

PRICE UPON APPLICATION

RECORD STORAGE CABINETS



Now your music or transcription library can be put in alphabetical or numerical order with standard or custom size record storage cabinets from Allied.

Model	Record Size	Cap	Mfgr's List	ALLIED PRICE \$
A/L 1000A	7"	1000	\$226.00	ALLIED PRICE \$ _____
A/L 1500A	7"	1500	\$268.00	ALLIED PRICE \$ _____
A/L 3000A	7"	3000	\$321.00	ALLIED PRICE \$ _____
A/L 750B	12"	750	\$231.00	ALLIED PRICE \$ _____
A/L 1000B	12"	1000	\$269.00	ALLIED PRICE \$ _____
A/L 1500B	12"	1500	\$330.00	ALLIED PRICE \$ _____

REEL TAPE STORAGE CABINETS

Every station has a room running over with reel-to-reel tapes, commercials, programs, and a widely assorted variety of other types of taped material. The A-LINE reel tape storage cabinets are available in standard or custom sizes for every application.

Model	Tape Size	Cap	Mfgr's List	ALLIED PRICE \$
A/L 350TB	7"	350	\$194.00	ALLIED PRICE \$ _____
A/L 500TB	7"	500	\$309.00	ALLIED PRICE \$ _____
A/L 200TC	10½"	200	\$267.00	ALLIED PRICE \$ _____
A/L 400TC	10½"	400	\$320.00	ALLIED PRICE \$ _____

RUSLANG RL-500



For mounting any standard 19" x 15¾" tape transport, the Ruslang RL-500 is constructed with the same care as other top name consoles constructed over the past few years. Accepts Ampex, MCI, Otari and Tascam transports and includes the tilt feature.

CALL FOR TODAY'S ALLIED PRICE

RUSLANG RL-600



Accepts tape transports which are 19" by up to 21". This console was designed specifically for the newer generation of decks which have their electronics integrated with the transport including the Otari 5050B and others. The RL-600 is built with the same quality concern that has identified the Ruslang name for years.

CALL FOR TODAY'S ALLIED PRICE

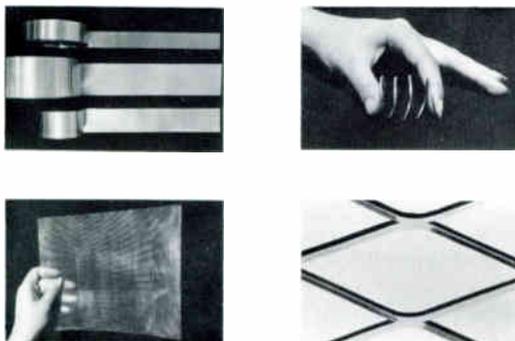
OMNIMOUNT



The Omnimount mounting system puts added flexibility into a wide variety of equipment mounting functions including speakers, clocks, and some types of equipment including monitors. Omnimount is of industrial quality, built to last a long time. A key to its remarkable performance is the ball joint design. The ball is molded of an ebonite polymer compound, with excellent memory-return and is just about indestructible. The ball is bonded to the thick-walled carbon steel tube the same way that heavy duty motor mounts are bonded. You can mount Omnimount on the wall or ceiling and it does its job with extraordinary flexibility, not limited to the usual "pan and tilt" functions. A wide variety of models is available to choose from.

CALL FOR TODAY'S ALLIED PRICE

COPPER PRODUCTS



When you start wiring, shielding or screening your studio, Allied has all the copper products you'll need including copper strap up to 8" widths in .020 or .032 thickness, #10 soft drawn copper wire, copper flyscreen and copper groundscreen. Whatever your copper need, Allied can meet the situation with a complete selection.

CALL FOR TODAY'S ALLIED PRICE

BELDEN WIRE



Belden is recognized as the leader in the wire/cable/cord industry and manufactures thousands of different electronic cable and cord constructions utilized in a vast assortment of applications. Many cables are custom designed/manufactured for specific applications prior to becoming standardized for systems in data processing, computers, medical applications, broadcasting, etc. Belden Black 8451 is especially popular with broadcasters as well as 8728. With Belden in our "background," we offer you the worlds largest inventory of wire/cable/cord available to anyone, anywhere.

ALLIED OFFERS THE COMPLETE BELDEN LINE ON A VERY COMPETITIVE PRICE STRUCTURE.

CALL FOR TODAY'S ALLIED PRICE.

WEST PENN WIRE



Put some color into your life by using WEST PENN easy to strip color shielded cable. A particular favorite of broadcasters is #291 two conductor twisted pair shielded cable. #291 comes in 22 AWG stranded with a 24 AWG drain wire with insulation colors of white, red, brown, black, yellow, green, gray, blue, violet and orange. This product is comparable to the leading manufacturers, but with reduced price structure.

ALLIED OFFERS THE ENTIRE WEST PENN LINE ON A VERY COMPETITIVE PRICE STRUCTURE.

CALL FOR TODAY'S ALLIED PRICE.

ALLIED TERMINATION SYSTEM

Allied can offer everything you need to establish a type "66" punch block wiring system in your studio or station.

"O" PADS



Where specific attenuation is needed the Allied "O" pad can provide a choice of 3, 6, 10, 17, or 23 dB attenuation.

TERMINATION



Your choice of vertical or horizontal termination 300, 600 or 10K ohms. Terminating, bridging, or build-out.

"SA-1" BRIDGE CLIPS



For jumper applications in use of "66" punch block wiring.

ALLIED TERMINATION SYSTEM PUNCH TOOLS



For punch board wiring applications, this is the most efficient method utilized.

Model	Description
S66MT	spring loaded
S66BT	manual
S714	automatic

"66" PUNCH BLOCKS



Absolutely the easiest way to accomplish complex wiring projects. A must for efficient console, rack mounted equipment or other types of wiring installations.

Model	Description
S66B3-75	Group of 2 clips
S66B3-50	Group of 3 clips
S66B4-25	Group of 6 clips

SNAP-IN WALL MOUNT



Perfect for mounting a type "66" punch block on the wall or any available space. The model S66B6 will fit most standard punch blocks.

WIRE AND CABLE HANGERS



Allied has wire and cable hangers for every application.

Model	Description
S66147	Cable hanger
S66145	Cable hanger

CALL FOR TODAY'S ALLIED PRICE ON TERMINATION COMPONENTS.

CONTROL ROOM CHAIR



Just as important to your air sound as a turntable, the Allied chair built for any environment includes black naugahyde back and seat covers, and easy roll wheels. High or low versions are available for standup or sitdown operation.

Model	Description	Mfgr's List	ALLIED PRICE \$
HI	standup model	\$108.50	_____
LO	sitdown model	\$100.00	_____

GENTNER FLEXIBLOCK



The Gentner Flexiblock is an insulation-displacement punch block system made specifically for stranded wire. Connections to Flexiblock are fast, easy and reliable. A high number of connections may be made in a small space (up to eight connections per circuit) and connections are virtually short-circuit proof. Standard size is 10"L x .56"H x 3.37"W with 50 terminals. (Variables available)

S81-25 MANUFACTURER'S SUGGESTED LIST PRICE.....\$19.90

ALLIED PRICE \$ _____

ALLIED WARNING LIGHTS "MICRO SERIES"



The Allied "MICRO SERIES" warning light is supplied with one 1820/28 volt lamp. The unit is designed for use with 24 volts for extended life. All models mount on standard single gang wall boxes or plaster rings. The wedge shaped translucent cover is available in red or white.

Model	Voltage	Message	Price
L-101	24 VDC	ON AIR	\$28.80
L-101	24 VDC	BLANK	\$22.50

ALLIED WARNING LIGHTS

"STROBE SERIES"



An adaptation of technology to a unique application is the 70,000 candlepower "STROBE SERIES" of telephone and "ON AIR" warning lights from Allied. These bright attention drawing lights come in a variety of lens colors including white, blue, red, amber and green, lettered with "PHONE" or "ON AIR". 12 and 24 volt DC and 115 VAC "ON AIR" models are available. Only 115 volt AC models available for "PHONE."

Model	Voltage	Message	Price
WHI-12	12VDC	ON AIR	\$68.00
WHI-24	24VDC	ON AIR	\$68.00
WHI-115	115VAC	ON AIR	\$68.00
PS11AWA	115VAC only	PHONE	\$84.00

ARCHITECTURAL SERIES



FLAT WALL



EXTENDED OR CEILING MOUNT

Enhance the environment of any broadcast application with the Allied "ARCHITECTURAL SERIES" OF WARNING LIGHTS. The series includes flat wall and wall or ceiling mounted models. These are well constructed warning lights made in a one piece die cast aluminum housing of 1/8" minimum wall thickness. There's no external hardware. The spring clip mechanisms firmly secure the directional panel to the housing eliminating light leaks. The extending bracket and ceiling units have a cast aluminum canopy.

Type	Message	Price
Flat Wall-7 1/2" x 7 1/2"	On Air	\$74.50
Ceiling 7 1/2" x 8 1/2"	On Air	\$110.00

STANDARD



The model of warning light that has served the broadcast industry for many years is the Allied "STANDARD" model. This durable, highly visible and efficient on air warning light is available now.

\$45.00

FIDELIPAC



Your broadcast or recording studio will really be "off limits" when Fidelipac Studio Warning Lights are lit. Their brilliant red lettering on jet black background can be seen even in the brightest ambient light conditions. With a faceplate of unbreakable plexiglas, the light includes lamps and mounting hardware. Custom legend minimum 6 pieces.

Model	Message	Mfgr's List	ALLIED PRICE \$
340	ON AIR-English	\$47.60	ALLIED PRICE \$ _____
340-S	ON AIR-French, German, Greek, Japanese, Polish, Russian, Spanish or Swedish.	\$47.60	ALLIED PRICE \$ _____
340-REC	RECORDING-English	\$47.60	ALLIED PRICE \$ _____
340-REC-S	RECORDING-Spanish	\$47.60	ALLIED PRICE \$ _____
340-CUS	Customized legend	\$67.10	ALLIED PRICE \$ _____

LUXO

MICROPHONE ARMS



The model LM-1 from Allied is a high quality piece of studio furniture. The LM-1 will hold any microphone up to 3 pounds maximum. You have a choice of three mounting bases. Please specify base A, B or C.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$42.00

ALLIED PRICE \$ _____

TITUS



This flush mounted ON AIR light from TITUS was designed to provide the broadcaster with a low voltage device which can be mounted horizontally or vertically and have simple bulb replacement. Unit uses #1819 bulbs for 24V operation and #1815 for 12V operation, and measures 8 1/4" by 4 1/4".

MANUFACTURER'S SUGGESTED LIST PRICE.....\$99.00

ALLIED PRICE \$ _____

AUDIOMETRICS



M2MD-U



M3MD-U

The heavy-duty AUDIOMETRICS model M2MD-U mic arm will hold any mic in place. With optional heavy duty springs, it will hold the heaviest mic. The M3MD-U has an extra "arm" giving it an additional 12 inches of reach. Accessories are available for these mic arms to enhance their use.

Model	Nomenclature	Mfr's List	ALLIED PRICE
M2MD-U	Single Ext.	\$84.00	\$ _____
M3MD-U	Double Ext.	\$100.00	\$ _____
Heavy Springs	Hvy Springs.....	\$8.00pr.	ALLIED PRICE \$ _____
11427	Bench Mt. Base.....	\$9.00	ALLIED PRICE \$ _____
11426	Wall Mt. Base.....	\$9.00	ALLIED PRICE \$ _____
14005	Clamp Mt. Base.....	\$9.00	ALLIED PRICE \$ _____
14100	Riser-1 ft.	\$19.00	ALLIED PRICE \$ _____
EB-1	Arm-Angle Ext.	\$30.00	ALLIED PRICE \$ _____



Hvy Springs



14100



EB-1



11425



11427



14005

TRIPLE MIC ARM



This unit was designed for those "around the table" conference and/or group interviews where multiple mics are required. The base — which rises approximately 9 inches, must be bolted to a supporting surface and contains 3 M2MD-U mic arms with standard springs. Each arm rotates 360° allowing various extension configurations.

TMA **\$249.00**
ALLIED PRICE \$ _____

AUDIOMETRICS MIC ARM



Hold Everything

M2MD-U Mic Arm w/1 ft. riser	\$84.00*
14005 clamp mount.....	\$9.00
11426 wall mount.....	\$9.00
11427 bench mount.....	\$9.00
*For microphones over 5 lbs., add.....	\$8.00

SONEX



Sonex acoustic tile from Alpha Audio offers the isolation qualities you require for any application. Comes in natural colors of charcoal, brown, tan and blue or painted colors of silver, blue, brown or orange.

4' x 4' sheets-Natural colors

Depth	per carton	sq. ft./carton	Price
2"	8	128	\$266.00
3"	6	96	\$260.00
4"	4	64	\$255.00

4' x 4' sheets-Painted colors

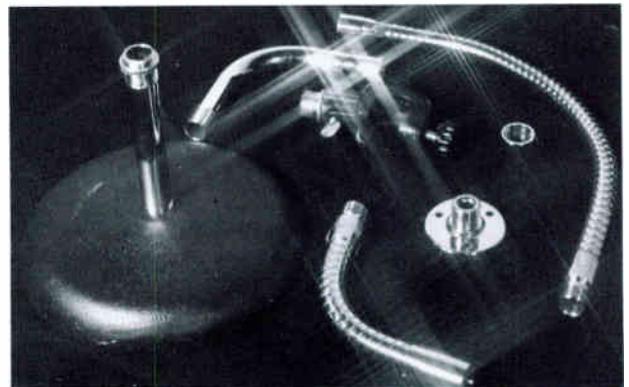
Depth	per carton	sq. ft./carton	Price
2"	8	128	\$342.00
3"	6	96	\$334.00
4"	4	64	\$327.00

15" x 15" audio tiles

Depth	per carton	sq. ft./carton	Price
2"	28	50	Natural \$198.00 Painted \$249.00

2", 3" and 4" sample kits are available at special prices.
Quantity discounts apply.

ATLAS



A wide variety of mic stands, goosenecks and booms are available from Atlas Sound and Allied for every application. Whether it's for the studio, portable or mobile application, there's an Atlas for the job.

AKG



K-45



K-18

K-45

The K-45 is an excellent choice whenever an economical, rugged headphone is preferred which is high in performance, supra-aural and is a true "open air" design. It's equipped with large transducers such as those found in higher-end models. Provides supreme clarity and definition throughout the entire frequency spectrum. It's vented acoustical foam earpads are cardan-coupled on a flexi-plastic headband.

MANUFACTURER'S SUGGESTED LIST PRICE\$45.00

ALLIED PRICE \$ _____

K-18

The K-18 is an ultra-lightweight boom set. It consists of two monophonically connected dynamic earphones and boom arm with noise-cancelling dynamic microphone. The headphone matches with 4 to 300 ohm outputs and comes with a 3¼ ft. cable with stripped and tinned leads. ALLIED CARRIES THE ENTIRE AKG HEADPHONE LINE.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$59.00

ALLIED PRICE \$ _____

ASTROLITE 2637-G1



The 2637-G1 has a noise cancelling electret mic with performance equalling fine studio microphones. Its noise cancellation properties make it suitable for use in noisy environments. The 2637-G1 features phantom or battery power.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$259.00

ALLIED PRICE \$ _____

2636-G1



The 2636-G1 features ear-enveloping cushions which provide attenuation for use in noisy environments. The close-talking dynamic mic equals the performance of studio microphones-even in high ambient noise levels. Comes with ventilated or standard earphone cushions. Ventilated cushions optional.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$208.00

ALLIED PRICE \$ _____

KOSS

PRO 4AAA



It's hard to believe that Koss could improve on the previous models, but just slip on the triple A and you'll hear a clarity, brilliance and liveliness you've never heard before. Deep rich lows and crisp, clean highs. The triple A features an extra large 1" voice coil and oversize diaphragm, special earcushions and a dual suspension headband for extra comfort.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$80.00

ALLIED PRICE \$ _____

SENNHEISER



HD414SL

The HD-414SL is an improved version of original Sennheiser "Open-Aire" headphones offering natural sound with smooth frequency response and realistic dynamic range over the entire sound spectrum. The swivel-action headband adjusts for comfortable fit. The soft, lightweight cushions caress the ears for fatigue-free listening. ALLIED CARRIES THE ENTIRE SENNHEISER HEADPHONE LINE.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$84.00

ALLIED PRICE \$ _____

**DEVELOP A SOUND FUTURE
WITH ALLIED**

TELEX CS-91



The CS-91 "Sportcaster II" is a professional sports announcers headset designed specifically for live, remote broadcasting. Omnidirectional dynamic boom microphone allows full freedom of head movement while the circumaural ear cushions screen out ambient noise.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$165.00

ALLIED PRICE \$ _____

HD-4



The HD-4 "Hearing Protector Sportcaster" is a new concept. The noise attenuating earcups provide up to 45 dB attenuation in a motor racing pit or the midst of a screaming basketball crowd. A close-talking electret microphone is noise cancelling to assure intelligible sports broadcasting.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$165.00

ALLIED PRICE \$ _____

RANE



The rack-mount HC-6 offers more performance and flexibility than you ever hoped for. Designed into the HC-6 are separate inputs for each of the six stages, which individually bypass the master stereo inputs. The HC-6 can handle up to six totally separate programs for many additional applications including custom headphone monitor mix. ALL OUTPUTS MAY ALSO BE FED FROM ONE INPUT.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$349.00

ALLIED PRICE \$ _____

INTERCOMS

RTS TW



The TW Intercom System is a high performance conference line intercommunications system that features over 30 different components to allow a broad variety of system configurations. The system designed for teleproduction and broadcast operations as well as industrial and commercial applications. Proven performance by demanding professionals has established the TW Intercom System as a standard in the field of intercommunications.

PRICES UPON APPLICATION

CALL FOR TODAY'S ALLIED PRICE

TELEX AUDICOM



The Audicom is a closed circuit headset intercom system of exceptional versatility. Components may be selected for a single or multiple line intercom, suitable for small or large, indoor or outdoor, portable or permanent installations. The system provides clear two-way communications "behind the scenes" at concerts and stage productions, film or TV studios, sports stadium or race tracks, industrial, military, public safety and security applications.

PRICE UPON APPLICATION

CALL FOR TODAY'S ALLIED PRICE

**"THERE'S MORE TO
ALLIED THAN
BROADCAST EQUIPMENT"**

**AKG
D-80**



The D-80 is a cardioid dynamic microphone which was designed for both vocal and music applications. It is particularly suited for use with high quality sound reinforcement systems and cassette decks. A foam wind and pop filter eliminates pop and breath noise, as well as wind noise when the microphone is used in the open. ALLIED CARRIES THE ENTIRE AKG MICROPHONE LINE.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$90.00

ALLIED PRICE \$ _____

C-451E/CK-1



The C-451E/CK-1 is a cardioid polar pattern microphone. The C-451E preamp with interchangeable capsules creates a modular system which can be changed to suit any studio or recording application. Special feature is low noise and high reliability. Includes foam windscreen, SA-30 stand adaptor and foam lined vinyl case.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$380.00

ALLIED PRICE \$ _____

C-414EB/P48



This pressure gradient condenser microphone has an exceptionally wide dynamic range. A unique feature is four selectable polar patterns on the mic. Thus four different types of microphones are combined into one all-metal housing with black chrome finish. This unit has low current consumption as well as low self noise. Includes foam windscreen, SA-18/3 clamp-type stand adapter and foam lined vinyl case. Unsurpassed for digital recordings.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$795.00

ALLIED PRICE \$ _____

D-1200E

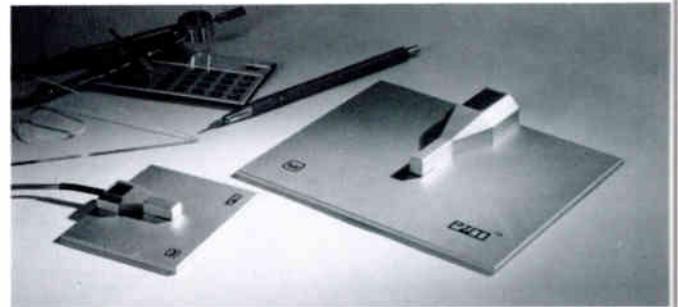


The D-1200E is a boom or hand held dynamic cardioid polar pattern microphone. Electric impedance @ 1,000Hz is a low 200 ohms. The three-position BMS switch permits changing response to suit individual performer and environment. Elastically suspended capsule reduces handling noise in this ruggedly constructed microphone. The SA-31 "quick-release" stand adapter is also included.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$135.00

ALLIED PRICE \$ _____

CROWN



The pressure recording process, invented by Long and Wickersham, introduced a bright new concept to audio engineering. They discovered that sound approaching a boundary such as a floor, wall, table, podium, etc. creates a thin zone in which the direct and reflected signals are coherently in phase and reinforce each other. The Crown PZM microphone creatively realizes the potentials of that invention offering significant improvements in signal clarity and range. Comb filtering is eliminated.

**PRICES UPON APPLICATION
CALL FOR TODAY'S ALLIED PRICE**

ELECTROVOICE

635A



The 635A dynamic omnidirectional is a rugged, durable microphone manufactured by Electrovoice. The sound of the 635A is the standard against which other up-close omnidirectional vocal microphones are compared.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$102.50

ALLIED PRICE \$ _____

MICROPHONES

ELECTROVOICE

DO-56



The DO-56 is a shock mounted omnidirectional dynamic microphone for hand-held broadcast applications. All handling noises and cord vibration are isolated from the microphone element. Shock isolation is enhanced by having the main acoustic cavity and the diaphragm/voice-coil assembly isolated as a unit from the case making capsule/case collision impossible.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$129.50
ALLIED PRICE \$ _____

RE-10



A fine, moderate cost microphone for sound reinforcement, broadcast and stage work. The RE-10 is similar in design to the RE-15, but meets requirements where somewhat more unit-to-unit variability is acceptable. It has effective directional control, little off-axis coloration, greatest rejection of unwanted sounds at 150 degrees off axis and a bass roll-off switch.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$177.00
ALLIED PRICE \$ _____

RE-11



An excellent microphone for broadcast and quality sound reinforcement, the RE-11 is a modestly priced unit with many features of the R-16 but where the most precise unit-to-unit matching is not necessary. It has a built-in blast filter, Memraflex grille screen, a high degree of directional control, little off axis coloration and a bass roll-off switch.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$189.25
ALLIED PRICE \$ _____

RE-15



Literally born in a TV studio, the performance and reliability of the RE-15 have made it a workhorse directional microphone for broadcast. Two nulls at 150 degrees off axis provide greater average rejection over the microphone's rear hemisphere than a traditional single-null cardioid pattern, particularly useful on the boom and on-stage.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$265.94
ALLIED PRICE \$ _____

RE-20



The RE-20 was created especially for critical recording, broadcast, and sound reinforcement applications which require response that extends to the frequency extremes. The RE-20 provides performance heretofore available only from the most expensive condenser microphones. The RE-20's dynamic element provides undistorted output at the high sound pressure levels found in up-close vocal and instrument miking (in excess of 160 dB). Its Variable-D design frees it of any bass-boosting proximity effect. A high-performance integral blast filter surrounds all acoustic openings for unusually complete freedom from vocal "P-pops." A bass roll-off switch adapts the RE-20 when flat low-frequency response would be detrimental. Transducer parts are nested and shock mounted to reduce vibration transfer.

The sound of the RE-20 has made it one of the most coveted, unique microphones in the world and the choice for many eminent vocalists.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$512.95
ALLIED PRICE \$ _____

RE-50



The RE-50 was designed expressly for hand-held ENG. It has the same tailored frequency response and high output level as the famous 635A. The RE-50 rubber shock mount "mike-within-a-mike" design achieves a degree of shock isolation never before known in the industry. The construction is also highly resistant to damage from mechanical shock.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$155.40
ALLIED PRICE \$ _____

"ALLIED CARRIES THE ENTIRE LINE OF E-V MICROPHONES"

"WE ARE A 'SOUND' BUSINESS!!"

SENNHEISER
MD-421-U-5



This is the microphone which has become a broadcast standard. Ruggedly constructed to precision standards, the MD-421-U-5 withstands hard use with Sennheiser's legendary reliability. Its pressure gradient dynamic transducer provides faultless performance both in the protected confines of the studio and the often hostile environment outdoors. Less cable.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$332.00
ALLIED PRICE \$ _____

MKE-2R

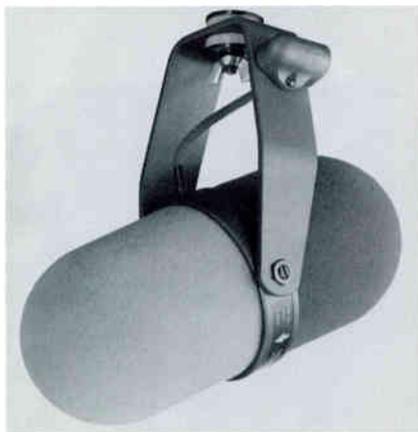


Measuring a mere 5.9 millimeters in diameter and 11 millimeters in length, the MKE-2R represents Sennheiser's thoughtfully conceived answer to the increasing demand for small and less conspicuous lavalier microphones. Its exceedingly small size, finish and the multitude of mounting options provide the video, movie and television professions with a broad choice of inconspicuous or concealed microphone placement possibilities.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$242.00
ALLIED PRICE \$ _____

"ALLIED CARRIES THE ENTIRE LINE OF SENNHEISER MICROPHONES"

SHURE
SM-5B



Specifically designed to minimize boom microphone problems in television studio and location applications, the SM-5B is also excellent for radio deejay use. A smooth, wide-range frequency response with moderate presence rise makes it especially suitable for vocal pickup as well as scoring assignments. The SM-5B has a cardioid pickup pattern with exemplary off-axis uniformity, even at

the extreme low end, giving minimal coloration and maximum rejection of unwanted sounds. Popular for its "warmth". Less cable.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$551.75
ALLIED PRICE \$ _____

SM-7



The SM-7 designed in conjunction with professional users, is among the finest studio professional dynamic microphones in use today. Its "smooth and silky" sound has made it extremely popular for voice-over recording in radio and television. Announcers love its "mellow" sound. Less cable.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$510.00
ALLIED PRICE \$ _____

SM-11-CN



Tiny, rugged, with wide-range frequency response, the SM-11 is one of the world's smallest dynamic element lavalier microphones. Less than half the size of a standard microphone connector, it is ideal for on-camera TV and movie applications.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$98.00
ALLIED PRICE \$ _____

SM-58-CN



The world-standard professional stage microphone, with the distinctive Shure upper mid-range presence peak for an intelligible, lively sound. A tough, handsome microphone that weighs less than 11 ounces, the SM-58 is often imitated in appearance, but never duplicated in performance, ruggedness or reliability. Cable included.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$186.50
ALLIED PRICE \$ _____

MICROPHONES

**SHURE
SM-59-CN**



The revolutionary design of the SM-59 makes this microphone virtually immune to extraneous noise. An extraordinarily efficient mechano-pneumatic shock mount shields the cartridge from rumble and other mechanically transmitted noise, whether on a stand or hand held. Cable included.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$211.25

ALLIED PRICE \$ _____

SM-63L-CL



The SM-63 is a small, elegant, rugged microphone with very high output, up to 6 dB higher than comparable omnidirectional microphones. Its low profile makes it the perfect choice for on-camera applications. Cable included.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$128.00

ALLIED PRICE \$ _____

SM-81-LC



A matchless standard in high-quality professional condenser microphones, the SM-81 is a superb studio instrument that also meets the most demanding needs of location recording and sound reinforcement.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$337.00

ALLIED PRICE \$ _____

SM-82-LC



A hand-held, self-contained, unidirectional condenser microphone with a built-in line level amplifier, peak limiter and battery. The exceptional performance and unique features of the SM-82 make it an outstanding choice for on-the-spot broadcasting applications. It's also excellent for long line (up to 1 mile) runs for sporting events, parades and political conventions.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$365.00

ALLIED PRICE \$ _____

"ALLIED CARRIES THE ENTIRE SHURE MICROPHONE LINE"

NEUMANN U 87



The model U 87 is the best known and most widely used of the fet 80[®] series. Its dual membrane capsule uses evaporated gold on polyester film which has proven to be the most heat and aging resistant material. Three switches are provided beneath the capsule itself: for selecting the three directional patterns, frequency response and sensitivity. Its high frequency response is practically linear even in its cardioid and figure-8 positions even close-up. The response below 40 Hz is purposely rolled off to prevent low frequency blocking. This roll-off may be switched to 200 Hz to allow compensation for the bass rise common to all good directional microphones when used at close range. The U 87 is specifically designed for close miking studio applications. This is *THE* world class microphone! 48 volt power supply required. Wind screen and shock mounting optionally available.

PRICES UPON APPLICATION

KM 83 i



KM 83, 84, 85 Series

The KM 83 i omnidirectional miniature condenser microphone is a pressure transducer with gold sputtered polyester membrane and omnidirectional pattern. The self resonance of its membrane lies in the high frequency domain. The free field frequency response of the KM 83 i is linear except for a desirable slight rise at the high frequency end, which results in a flat response in the diffuse sound field. This microphone is therefore well suited for picking up the overall sound impression of big orchestras. Maximum sensitivity is axial. Includes swivel and wind screen.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$349.00

ALLIED PRICE \$ _____

NEUMANN
KM 84 i

The KM 84 i miniature microphone has a cardioid directional pattern and is outstanding because of its nearly frequency-independent directivity. Its capsule works according to the pressure-gradient transducer principle and features an acoustical delay network.

The resulting frequency response at an angle of ± 135 degrees is almost parallel to the 0° on-axis curve. Attenuation at 135° is about 14 dB between 100 Hz and 18 kHz. As a result, a sound source impinging on the microphone anywhere within a 3/4 arc around it will have identical sound quality, even though at different levels. Maximum sensitivity is axial. Includes swivel and wind screen.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$349.00

ALLIED PRICE \$ _____

KM 85 i

The KM 85 i miniature microphone has a cardioid directional pattern and is a special version of the KM 84 i with its virtually frequency-independent directivity. In addition, the KM 85 i intentionally attenuates more distant low-frequency sounds such as undesirable sound from sources nearby as well as wind noise (12 dB at 50 Hz), while close-up sound sources will be recorded with linear frequency response. This microphone is therefore widely used for close talking and, in connection with the WS 21 wind-screen, for outdoor recording and on rapidly moving microphone booms in studios. Maximum sensitivity is axial. Includes swivel and windscreen.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$349.00

ALLIED PRICE \$ _____

SONY
ECM-50PSW/ECM-50PBW



A new edition of Sony's highly acclaimed and widely used professional miniature lavalier microphone offers a choice of either the familiar silver finish or a new, non-reflective matte black finish. Other improvements include both a double and single tie clip in the provided accessories. The ECM-50 provides omnidirectional high performance vocal pickup and operates from battery or phantom power.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$215.00

ALLIED PRICE \$ _____

"ALLIED CARRIES THE ENTIRE SONY PROFESSIONAL MICROPHONE LINE"

SONY-WIRELESS SYSTEM



The Sony wireless microphone system was designed to be able to withstand the most strenuous of professional applications. The system in no way compromises sound quality. Every possible obstacle arising from wireless design was thoroughly examined and solved, using Sony's advanced transducer and FM tuner technologies. With this reliable, high quality Sony system, wireless operation will never again be a risky proposition.

PRICES UPON APPLICATION

CALL FOR TODAY'S ALLIED PRICE

"ALLIED CARRIES THE ENTIRE SONY WIRELESS LINE"

TELEX-WIRELESS SYSTEM



The TELEX wireless microphone system adds significant innovations to the state of the art. Innovations which not only make TELEX an outstanding value among wireless systems, but which provide performance capability that equals or exceeds that of wire microphone systems for professional applications. Applicable equipment is FCC type accepted.

The professional TELEX wireless system transmits the microphone signal via FM radio transmission to a receiving station. The user of the microphone is thus able to move without the encumbrance or limitations of a microphone cable.

In addition to mobility, the TELEX wireless system offers other advantages such as the elimination of hum and noise pickup through the microphone cable and connectors, avoidance of microphone boom shadows, elimination of shock hazard from poor grounding, and most important, elimination of sound mixing problems as the performer moves about the stage.

PRICE UPON APPLICATION

CALL FOR TODAY'S ALLIED PRICE

VEGA-WIRELESS SYSTEM



The Cetec-Vega wireless system has led the way in this field for years. Recent developments in the Vega wireless line have made this reputation grow even more. The Vega system uses Electrovoice and Shure mic elements to insure the high quality sound reproduction. New designs have gotten rid of the now infamous "rubber ducky" antenna, added new dimensions to "wireless" applications and made the use of this type equipment more widespread than ever before in the broadcast field.

PRICE UPON APPLICATION

CALL FOR TODAY'S ALLIED PRICE

"ALLIED CARRIES THE ENTIRE VEGA WIRELESS LINE"

MONITORS

QEI



The 691 FM Monitor/Test Set is a high technology, precision instrument employing a combination of new techniques in a single, highly versatile, but very compact package. It was designed to be a complete FM test package with facilities for all proof-of-performance measurements and a wide range of trouble-shooting tests. Operator convenience and simplicity of use were primary considerations in the design of the system. Component selection and device ratings are such as to enhance the instrument's reliability even with adverse handling. It occupies only 10½" of vertical rack space in a standard 19" rack.

Model	Description	ALLIED PRICE \$
691	Modulation monitor/test set.....\$5295.00	_____
691/01	Modulation monitor/test set with 1 SCA.....\$6295.00	_____
691/02	Modulation monitor/test set with 2 SCA.....\$6695.00	_____

QEI PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

BELAR
FMM-1



Belar FM monitors are designed as a totally integrated, solid-state system to enable the broadcaster to fulfill his monitoring equipment requirements as the need arises. The FMM-1 Frequency and Modulation Monitor is a wideband, all solid-state FM monitor expressly designed to fulfill all the requirements for monaural monitoring as well as to provide a virtually pure, distortionless signal to drive the companion FMS-1 and SCM-1 for multiplex monitoring.

PRICES UPON APPLICATION

FMS-1



The FMS-1 when added to the FMM-1 provides complete monitoring and test functions to meet the daily requirements for stereo monitoring, and provides additional facilities for making the proper tests for weekly and monthly maintenance checks to insure maximum performance from stereo transmitters.

PRICES UPON APPLICATION

FMM-2



The FMM-2 sets new standards in accurate FM monitoring. It's the first to incorporate a sample hold peak modulation meter circuit independent of modulation polarity to allow the meter to respond to program peaks of the shortest duration. The heart of the FMM-2 is an ultra-linear digital discriminator which provides a distortionless baseband signal for accurate monitoring as well as precise stereophonic and SCA decoding.

MANUFACTURER'S SUGGESTED LIST PRICE.....	\$1350.00
ALLIED PRICE \$	_____

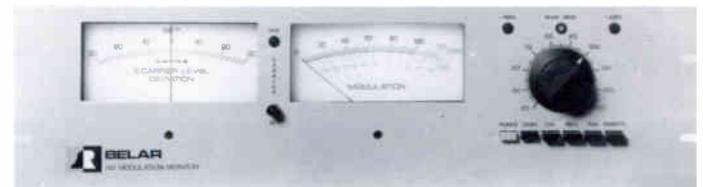
FMS-2



Working in conjunction with the FMM-2, the FMS-2 offers two independent peak modulation meters for simultaneous monitoring of left and right channels or L + R and L - R. It also has two independent auto-ranging voltmeters with LED displays for simplified automatic measurements of channel separation, crosstalk, sub-carrier suppression and noise.

MANUFACTURER'S SUGGESTED LIST PRICE.....	\$1550.00
ALLIED PRICE \$	_____

AMM-2A



The AMM-2A Modulation Monitor sets standards in accurate AM monitoring. It's the first AM monitor to incorporate true ratio-type peak indicators. The AMM-2 contains a unique modulation cancellation scheme to recover unmodulated carrier to reference the modulation peaks to. Thus the instantaneous carrier without the need of time constants, as with AGC devices. True carrier is indicated with asymmetrical modulation encountered in today's high positive peak modulation, and peaks are automatically referenced to this true carrier to give the most accurate indication of program peaks.

MANUFACTURER'S SUGGESTED LIST PRICE.....	\$990.00
ALLIED PRICE \$	_____

BELAR
AMM-3



The AMM-3 Modulation Monitor is basically the same as the AMM-2A except for an ability to read both positive and negative modulation peaks.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1400.00

ALLIED PRICE \$ _____

AMM-4



The AMM-4 Frequency Monitor is designed especially for ATS. Any frequency from 10 kHz to 50 MHz may be monitored for deviation.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$990.00

ALLIED PRICE \$ _____

SCM-1



The SCM-1 SCA Frequency and Modulation Monitor, when added to the FMM-1 provides complete monitoring and test functions for SCA storecasting and remote telemetering applications. Up to four crystal switch positions allow four channels to be operated and tested.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1650.00

ALLIED PRICE \$ _____

RFA-1



The RFA-1 FM RF Amplifier allows for remote monitoring of the transmitter in conjunction with Main and SCA FM modulation monitoring equipment. It offers a RF input sensitivity of 100 microvolt for full output, 50 to 75 ohms of input impedance and operates from 88 to 108 MHz.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$575.00

ALLIED PRICE \$ _____

RFA-2



The RFA-2 AM RF Amplifier offers a selective, high gain, all silicon solid-state unit with AGC and makes it possible to monitor off-the-air AM signals accurately and conveniently without the problems associated with changes in transmitter power level, antenna patterns and signal fading. The RFA-2 when used in conjunction with AMM-2A, AMM-3 or AMM-4 allows monitoring of modulation characteristics at a remote point.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$595.00

ALLIED PRICE \$ _____

TVM-1



The TVM-1 Television Aural Modulation Monitor is a wideband, all solid-state TV aural monitor designed to provide accurate modulation monitoring for the TV Broadcaster, UHF or VHF. The state-of-the-art TVM-1 measures *both* positive and negative peaks simultaneously and automatically selects and registers the higher of the two on *both* the true peak meter and peak flasher. Exclusive polarity lamps indicate the instantaneous polarity of the peaks registered on the peak meter and peak flasher. Calibration accuracy may be checked at any time with the front panel push-button modulation calibrator.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1850.00

ALLIED PRICE \$ _____

TVM-100



The Belar Model TVM-100 Television Aural Modulation Monitor is a precision wide band monitor designed to measure the total modulation characteristics of mono as well as multi-channel television audio. Utilizing split sound and quasi-parallel detection modes, automatic deviation calibrators for 25 KHz (mono) and 73 KHz (BTSC Stereo) and a digital display for indication of actual deviation, the TVM-100 satisfies all requirements for mono and stereo baseband monitoring and test.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$

ALLIED PRICE \$ _____

BELAR
TVM-200

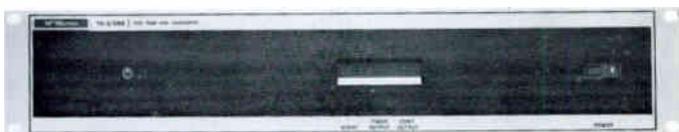


The Belar Model TVM-200 TV Stereo Modulation Monitor is designed to operate in conjunction with the Belar Model TVM-100 TV Baseband Modulation Monitor to provide complete monitoring of BTSC stereo transmission systems. The test and measurement capabilities are enhanced by the integration of two auto-ranging voltmeters, allowing automatic measurement of channel separation, crosstalk, pilot phase and pilot level. An equivalent mode test function is also provided, which bypasses the DBX decoder for non-encoded transmitter testing. Multiple metering allows full-time monitoring of L + R and stereo composite modulation and selectable metering of total and L - R modulation along with left and right channel audio.

MANUFACTURER'S SUGGESTED LIST PRICE TVM 100....\$2495.00
MANUFACTURER'S SUGGESTED LIST PRICE TVM 200....\$3995.00

CALL FOR TODAY'S ALLIED PRICES

MCMARTIN
TG-1/EBS



The McMartin TG-2/EBS Precision Two Tone EBS Generator is FCC type-accepted to produce the two-tone attenuation signal for the Emergency Broadcast System. Effective for all AM-FM and TV stations.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$375.00

ALLIED PRICE \$ _____

GORMAN REDLICH
CEB



The CEB offers in a single rack mounting chassis, everything necessary for the two-frequency EBS system required by the commission except a receiver that can be tuned to the station monitored.

Model	Description	
CEB	Encoder-decoder.....	\$475.00 ALLIED PRICE \$ _____
CE	Encoder only.....	\$330.00 ALLIED PRICE \$ _____
CE	Encoder with stereo option.....	\$360.00 ALLIED PRICE \$ _____
CD	Decoder only.....	\$280.00 ALLIED PRICE \$ _____

GORMAN REDLICH PRICES ABOVE ARE MFRG'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICES.

CRW



The CRW weather receiver is rack mounted, remotable with a black anodized rack panel. Demuting and remote alarm are initiated by a 1050 Hz "alert" tone. A relay closure is initiated by either the 1050 Hz tone or a 1650 Hz forecast update signal tone. The CRW features crystal and ceramic IF filters, plus a double tuned dual gate MOSFET RF stage.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$475.00

ALLIED PRICE \$ _____

CM



The Model CM is a stable, accurate monitor for DA installations not requiring telemetering of antenna readings. It offers true ratio readout. Non-reference and reference amplitudes are separately measured and divided electronically to give a digital readout that will not change with transmitter power and is exceptionally stable under conditions of asymmetric modulation. Stability of the readout makes readings accurate and easy to read.

PRICES ON APPLICATION

CMR



The Model CMR is the latest in "developed technology" from G-R at a price comparable to analog monitors. With typical modulation, the CMR's true ratio readout is a factor of 10 more stable than instruments that measure normalized amplitude, and its phase readout is rock solid. Phase sign is automatic with no extra operations. Practically speaking, these features mean quick, accurate log or remote calibration readings. The CMR is fully remotable via land line or telemetry, using standard remote control equipment.

PRICES ON APPLICATION

DAV TRONICS
RFA-5



The RFA-5 AM RF Amplifier is designed to operate frequency and modulation monitors at a location remote from the transmitter, typically at the studio. When driven by a local antenna with an RF signal as low as 0.6 mv, the RFA-5 will drive most contemporary AM monitoring equipment, as well as providing a low-level output for an oscilloscope, and a clipped/limited output for a standard frequency counter.

PRICES UPON APPLICATION

**POTOMAC
FIELD STRENGTH METERS**

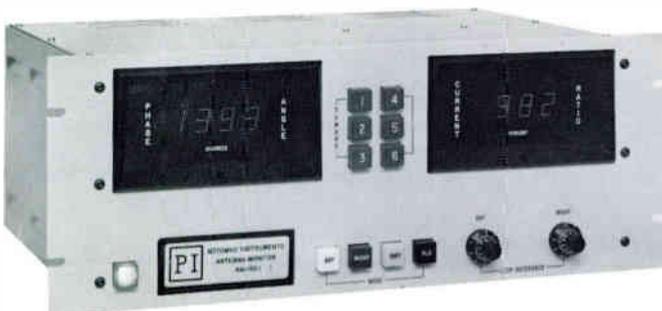


The Potomac line of field strength meters represent a new generation of precision instruments for direct measurement of electromagnetic fields in the 100 kHz to 960 MHz frequency spectrum. These units are intended for portable field use and include a laboratory quality receiver, integral shielded loop antenna, precision attenuator, internal calibration source, and voltage regulated battery power supply. An interlock switch prevents inadvertent battery discharge when the cover is closed. Batteries are not included.

Model	Description	Price	Allied Price
FIM-21	535-1605 kHz.....	\$1950.00	ALLIED PRICE \$ _____
FIM-22	200-550 kHz.....	\$2600.00	ALLIED PRICE \$ _____
FIM-41	540-5000 kHz.....	\$2600.00	ALLIED PRICE \$ _____
FIM-71	45-225 mHz.....	\$3825.00	ALLIED PRICE \$ _____
FIM-72	470-960 mHz.....	\$5250.00	ALLIED PRICE \$ _____

POTOMAC PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

ANTENNA MONITORS



Model	# Towers	Price	Allied Price
AM-19	2.....	\$2550.00	ALLIED PRICE \$ _____
AM-19D	2.....	\$3250.00	ALLIED PRICE \$ _____
PM-19	2.....	\$6700.00	ALLIED PRICE \$ _____

Additional prices upon application.

POTOMAC PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

AM MONITOR RECEIVERS



The SMR-11 is an AM broadcast band receiver of superior performance with many capabilities useful to the broadcaster. Receiver tuning is continuous from 530 to 1700 kHz, and can be locked with crystal accuracy at any desired frequency. The antenna can be a remotely located tunable ferrite rod unit (ANT-11), broadband wire or a whip. Bandwidth is determined by two switch-selected 455 kHz ceramic filters with bandwidths of 28 kHz and 12 kHz. Other special filters are available and can be installed.

Model	Description	Price	Allied Price
SMR-11R	Rack mount version.....	\$1575.00	ALLIED PRICE \$ _____
SMR-11D	Desk mount version.....	\$1675.00	ALLIED PRICE \$ _____
ANT-11	Remote, tunable ferrite rod antenna with internal, low noise preamplifier.....	\$500.00	ALLIED PRICE \$ _____

POTOMAC PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

PROTON



To achieve uncompromising fidelity with plenty of power, one 20-watt amplifier powers the 4 1/2 inch woofer, and a second 5-watt amp drives the efficient 1 3/4 inch dome tweeter. Since each amplifier functions best within its own portion of the frequency spectrum, the radio's 25-watts are equivalent to over 40 watts from a conventional amplifier. The Schotz variable bandwidth PLL detects or gives a revolutionary and dramatic effect on reception. Optional "ears" available for rack mounting.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$280.00

ALLIED PRICE \$ _____

DELTA DAM-1



The DAM-1 is a true digital antenna monitor designed specifically for measuring the parameters of broadcast frequency directional antenna systems. Digital data is not obtained by adding an A/D converter to the output of conventional analog circuitry, instead, the latest digital techniques and TTL components are applied to achieve a truly digital approach to phase and current ratio measurements. Data is displayed on front panel seven-segment digital readouts to minimize reading error. A simplified selection system reduces operation of the DAM-1 to a straight-forward procedure.

PRICES ON APPLICATION

AAM-1



The AAM-1 Analog Antenna Monitor is designed specifically for measuring the parameters of AM broadcast frequency directional antenna systems. The monitor measures the relative current in each tower, the ratio of the current in each tower to that of a reference tower and the phase of the current in each tower relative to that of the reference tower. The AAM-1 can be equipped for up to eight input samples without external switching. Two reference towers can also be selected for DA-2 applications.

PRICES ON APPLICATION

AMC-1



By continuously sampling the modulation levels at the AM transmitter output and comparing these levels with internal preset minimum and maximum modulation thresholds, the AMC-1 Amplitude Modulation Controller detects conditions of under or over modulation. The AMC-1 then uses a digital logic process to adjust the audio level of the transmitter. The audio control circuit is strictly linear so that no compression or asymmetry is added to the program.

PRICES ON APPLICATION

FMC-1



The FMC-1 Frequency Modulation Controller provides automatic control of the modulation levels of an FM broadcast transmitter or audio channel of a TV transmitter. The FMC-1 provides a closed loop system around the transmitter which allows the broadcast engineer to maintain modulation at the desired level despite variations in the audio level from different program sources and other system variances. Through gain is controlled by a digital attenuator maintaining true transparency at all gain settings. No clipping or compression is used.

PRICES ON APPLICATION

APC-1



The APC-1 Automatic Power Controller measures the operating power of an AM or FM station, and by interconnection to the transmitter's RAISE/LOWER controls causes the power to remain well within limits. The unit monitors a DC voltage from an external linear rectifier driven by an RF sample of the common point or base antenna current in AM applications, or a similar linear DC sample from the FM power meter or directional coupler. A special long time constant circuit removes modulation components and averages carrier shift variations in AM applications.

PRICES ON APPLICATION

RG-4



The RG-4 Receiver/Generator couples precision with reliable performance, providing an indispensable piece of test gear for broadcast engineers. An RF signal generator to excite the impedance bridge and a sensitive receiver for external null detection are housed in a single rugged case. With an OIB-1 or OIB-3, the RG-4 forms a portable impedance measuring system. Operates from 100 kHz to 29.999 MHz in 1 kHz increments. Runs off batteries, 115/230 VAC 50/60 Hz with 35 watts input power.

PRICES ON APPLICATION

DELTA
OIB IMPEDANCE BRIDGES



Delta OIB operating impedance bridges measure the operating impedance of the individual radiators, networks, transmission line sections, and common point of directional antenna systems while they are functioning under normal power. This "operating impedance" cannot be measured by usual impedance bridge methods because the system characteristics are disrupted when the bridge is inserted into the circuit. The OIB-1 or OIB-3 is inserted directly in series with the transmission line, network or antenna. The transmitter power is applied and a bridge balance is obtained by manipulating two dials on the face of the bridge. Balance is indicated by a null reading on the meter on the front panel. Operating resistance and reactance are then read directly from the bridge dials.

PRICES ON APPLICATION

MX5050BQ-II



1/4" four channel, quarter track recorder/reproducer. DC-servo capstan with $\pm 7\%$ vari-speed. 15-7 1/2 ips speed. +4 or -10 dB input/output level select. Real time tape counter with LED display. Zero return. Headphone output with channel select. Test oscillator (1 kHz or 10 kHz). Microprocessor controlled transport logic. Dynamic braking. Integral splicing block. External machine control interface connector for synchronizers.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$2995.00

ALLIED PRICE \$ _____

RECORDERS

OTARI
MX5050B-II



1/4" two channel half track recorder/reproducer with extra quarter track reproduce head. DC-servo capstan, with $\pm 7\%$ vari-speed. Three speeds in 15-7 1/2 or 7 1/2-3 3/4 ips field selectable. Transformerless balanced inputs and outputs. +4 or -10 dB output level select. Real time tape counter with LED display. Headphone output. Test oscillator (1 kHz or 10 kHz). NAB/IEC equalization select. 185/250/320 nWb/m calibration select. Integral splicing block. The world's most popular recorder. Available in 1/4 track stereo or full track versions. Optional rack mount available.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$2295.00

ALLIED PRICE \$ _____

MX5050-Mark III-2



1/4" two channel, half track recorder/reproducer with extra quarter track playback head. Includes a microprocessor transport logic and dynamic braking. Zero return. External machine control interface connector for synchronizers or the optional CB-116 auto-locator.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$2795.00

ALLIED PRICE \$ _____

MX5050-Mark III-4



1/2" four channel recorder/reproducer. Tabletop console. 1/2" configuration of the BQ-II. External machine control interface connector for synchronizers or the optional CB-116 auto-locator. Otherwise identical to BQ-II.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$3895.00

ALLIED PRICE \$ _____

RECORDERS

OTARI
MX5050-Mark III-8



1/2" eight channel recorder/reproducer. DC-servo capstan with $\pm 7\%$ vari-speed. 15-7 1/2 ips speed. +4 or -10 dB input/output level select. Real time tape counter with LED display. Zero return. Test oscillator (1 kHz or 10 kHz). Microprocessor controlled transport logic and dynamic braking. Full function channel status select panel with individual or master control. Automatic monitor switching. Headphone output with channel select. External test input. Integral splicing block. External machine control interface connector for synchronizers or the optional CB-116 auto locator.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$5295.00

ALLIED PRICE \$ _____

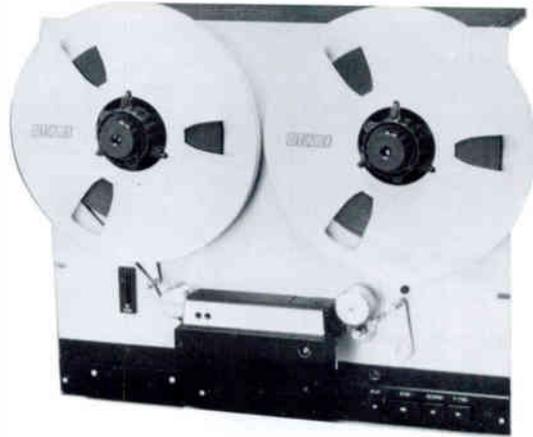
SCOTCH/3M



When recording tape is considered, Scotch/3M is a prime contender. As an authorized Scotch audio tape dealer, Allied can quote prices for any requirement. Quantity discounts are available.

CALL FOR THE ALLIEDEAL

OTARI
ARS1000DC/ARS1000DS



1/4" two channel, half track reproducer with 25 Hz tone sensor, end of message and cue tone relays with adjustable delay (100 milliseconds to 15 seconds). 7 1/2-3 3/4 ips speeds. 19" rack mount. Designed for automated broadcast systems and other high reliability reproduce only applications. 15-7 1/2 ips speeds available on special order.

Model	Description	
ARS1000DC	with 25 Hz tone sensor.....	\$1595.00
	ALLIED PRICE \$ _____	
ARS1000DS	without 25 Hz tone sensor.....	\$1535.00
	ALLIED PRICE \$ _____	

OTARI PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

DP4050C-2-1



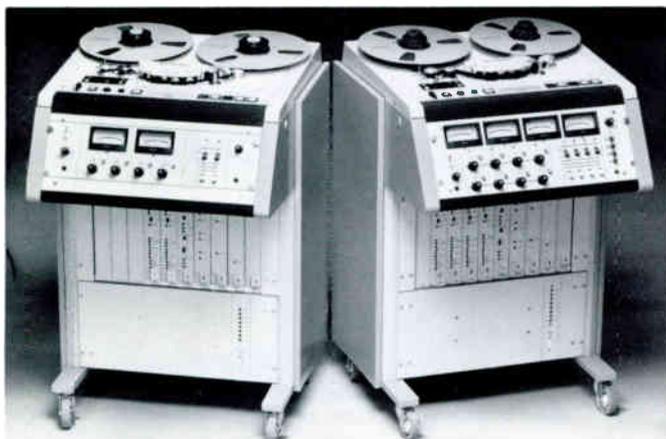
8:1 cassette duplicator with cassette master and three slaves. Expandable to 11 slaves with the addition of (3) DP-4050Z-3 slave units.

Model	Description	
DP4050C-2-1	Master & two slaves.....	\$3295.00
	ALLIED PRICE \$ _____	
DP4050Z-3	Three slaves for C-2.....	\$3095.00
	ALLIED PRICE \$ _____	

OTARI PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

“PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE”

OTARI
MTR-10



MTR-10-2-SC

MTR-10-4-SC

The Otari MTR-10 Series are microprocessor controlled 1/4" and 1/2" professional tape recorders offered in full, two and four track formats. Consoles feature a transport assembly that is hinged to allow easy access for maintenance. Audio and transport control circuit boards are located in a separate card frame. The power supply is also contained in a fully modular unit enabling fast diagnosis and repair. Transport control and extensive editing functions are located on the top transport operating surface while audio control switching is contained on a separate master audio control card. ACCESSORY, SPARE PARTS, CONVERSION KIT AND HEAD ASSEMBLY PRICING ON APPLICATION.

Model	Description
MTR10-1-OB	1/4" full-track prewired for two channels in an overbridge cabinet. 7 1/2-15-30 ips.....\$6250.00 ALLIED PRICE \$ _____
MTR10-2-OB	1/4" two channel in overbridge cabinet. 7 1/2-25-30 ips.....\$6550.00 ALLIED PRICE \$ _____
MTR12-2-OB	1/4" two channel 12.5" reel size in overbridge cabinet. 7 1/2-15-30 ips.....\$6900.00 ALLIED PRICE \$ _____
MTR12 1/2-2-OB	1/2" two channel 12.5" reel size in overbridge cabinet. 7 1/2-15-30 ips only.....\$8500.00 ALLIED PRICES _____
MTR12 1/2-4-OB	1/2" four channel 12.5" reel size in overbridge cabinet. 7 1/2-15-30 ips.....\$8900.00 ALLIED PRICE \$ _____
MTR12-ILX	1/2" four channel low speed special duplicator master maker with extended performance. 3.75-7.5-15 ips only.....\$9150.00 ALLIED PRICE \$ _____

OTARI PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

REVOX
B77



- Integrated Drive Logic
- Operation by computer-type push keys
- Cutter device to facilitate tape editing

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1799.00

ALLIED PRICE \$ _____

PR99 MK II



As a broadcaster you know the value of Studer reliability and importance of Revox economy. Now both are built into the Revox PR99 MK II. And what's more, it's designed specifically for your needs. The PR99 MK II offers balanced inputs and outputs; XLR-type connections, with calibrated and uncalibrated levels; and ASA-VU metering with LED peak indicators. The rugged die-cast chassis is designed for rack or console mounting. Reel capacity is 10.5 inches and tape speeds are selectable at 3.75, 7.5 or 15 ips with a vari-speed remote control option. Complete editing facilities include dump editing, full head access and 2-way self-sync which make the PR99 MK II one of the best in its class. The Studer designed transport and die-cast head assembly block and tension arms provide instant smooth start-up and outstanding tape handling. Here's traditional Studer quality built into the Revox PR99 MK II. Perfect for broadcasters or any professional.

MODEL	DESCRIPTION
PR99 MK II	Recorder/Producer.....\$2250.00
PR 99	Reproduce Only.....\$1449.00

REVOX PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICE. CALL FOR TODAY'S ALLIED PRICE.

TASCAM
22-2



The basic half-track recorder/reproducer with independent record mode selector and 1 tape/source monitor for each channel. Independent mic/line mixing and output level control for each channel. Remote pause function for record and play. 7 1/2-15 ips speeds.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$775.00

ALLIED PRICE \$ _____

RECORDERS

TASCAM
122/122B



The 122B is a world standard cassette deck in broadcast studios. It has the same superb audio quality, reliability and features of the 122 except the 122B offers balanced XLR input and output connectors that operate +4 dBm nominal level/+18 dBm maximum. The 122 has unbalanced -14 dBV nominal level RCA input and -10 dBV output jacks.

122 unbalanced input/output.....\$725.00
ALLIED PRICE \$ _____

122B balanced in/out broadcast levels & impedances.....\$825.00
ALLIED PRICE \$ _____

TASCAM PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

32



A half-track 1/4" master recorder/reproducer with 10 1/2" reel capacity, 15-7 1/2 ips speeds, independent L & R record mode, simul-sync, full frequency response in sync mode, function and output select and punch in/out recording. The 32 also features ±12% pitch control, dump edit, mic inputs, independent input/output level controls, headphone jack with volume control, cue control, FL tape counter and zero return.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1300.00
ALLIED PRICE \$ _____

34B



A 4-track 1/4" recorder/reproducer with 15-7 1/2 ips speeds, 10 1/2" reel capacity, full frequency response in sync mode, function and output select and punch in/out recording. The 34 also features ±12% pitch control, dump edit, cue control, FL tape counter and zero return.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1700.00

ALLIED PRICE \$ _____

38



An 8-track 1/2" recorder/reproducer with 8 tracks on 1/2" tape, 10 1/2" reel capacity, 15 ips speed, ±12% pitch control and function and output select. The 38 also features punch in/out recording, dump edit, cue control, FL tape counter and zero return.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$2995.00

ALLIED PRICE \$ _____

42



A 2-track 1/4" 2 channel half track mastering and broadcasting recorder/reproducer with 10 1/2" reel capacity, sync capability, full servo, SMPTE interlock capability through accessory connector and punch in/out recording. The 42 also features NAB or IEC equalization, dump edit, search to zero and search to cue, 7 1/2-15 ips speeds and +4/-10 input/output.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$2295.00

ALLIED PRICE \$ _____

TASCAM
52



A 2-track 1/4" 2 channel half track mastering and broadcasting recorder/reproducer with + 4 XLR/-10 RCA input/output, 10 1/2" reel capacity, sync capability, full servo and SMPTE interlock capability through an accessory connector. The 52 also features punch in/out recording, pitch control (15% coarse/0.7% fine), manual tach wheel edit, dump edit, search to zero and search to cue and 7 1/2-15 ips speeds.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$3495.00

ALLIED PRICE \$ _____

58



An 8-track 1/2" 8 channel production recorder/reproducer with -10 RCA input/output, 10 1/2" reel capacity, full frequency response in sync mode, full servo, SMPTE interlock capability through an accessory connector and punch in/out recording. The 58 also features pitch control (15% coarse/0.7% fine), manual tach wheel edit, dump edit, search to zero and search to cue and 15 ips speed.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$5995.00

ALLIED PRICE \$ _____

MARANTZ PORTABLE CASSETTE SYSTEMS



The 201 and 221 by Marantz offer more to the Broadcast News Operation than ever before available.

- * Outstanding Features Include: 15/16 ips (1/2 speed) or regular 1-7/8 ips
- * Vari-speed control which allows correction of tapes which may have been recorded with less-than-full battery power
- * PA/Play mix permits one of the most sought-after abilities: Live intro with optional microphone, actuality on tape, then back to live. (Using the cassette machine as an integral part of a telephone report)

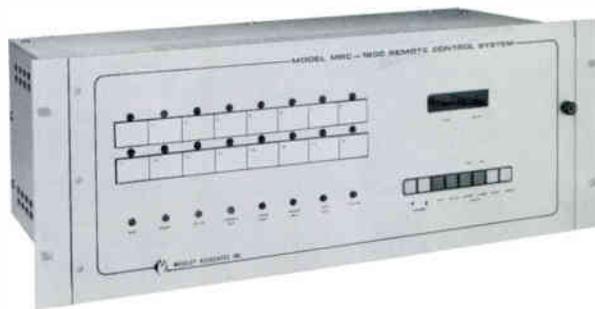
In addition to features listed which are common to both machines, the 221 also has three heads and variable bias for normal, CrO₂, and/FeCr Tape. FeCr tape permits a frequency response of up to 14 kHz.

201 2 heads.....\$219.95
221 3 heads.....\$279.95

MARANTZ PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

REMOTE CONTROL

MOSELEY
MRC 1600



Microprocessor Remote Control System, consisting of one Control Terminal, one Remote Terminal. System is equipped with 32 command relays, 16 status channels (TTL/contact closure), and 16 digital telemetry channels. FCC acceptable for AM and FM broadcast transmitter remote control. Includes audible telco/telco data interface on each terminal.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$4395.00

ALLIED PRICE \$ _____

"DISCOUNTS ARE AVAILABLE ON MOST EQUIPMENT"

REMOTE CONTROL

MOSELEY
CRT OPTION-MRC 1600



Option for cathode-ray tube (CRT) Terminal. Duplicates all panel functions of the MRC-1600 Control Terminal. Allows simultaneous display for 16 channels, including telemetry readings, status conditions, time of day, operation and error-oriented messages.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1175.00

ALLIED PRICE \$ _____

AUTOMATIC LOGGING OPTION-MRC 1600

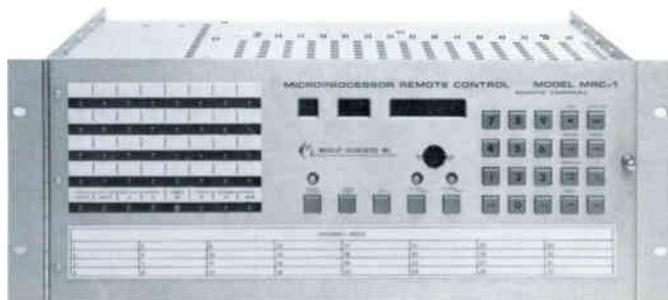


Option for automatic logging. Includes I/O modules, software and Texas Instruments Model 850 Desktop Printer. Log headings and command are entered through CRT keyboard. Requires option for CRT terminal.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$895.00

ALLIED PRICE \$ _____

MRC-1

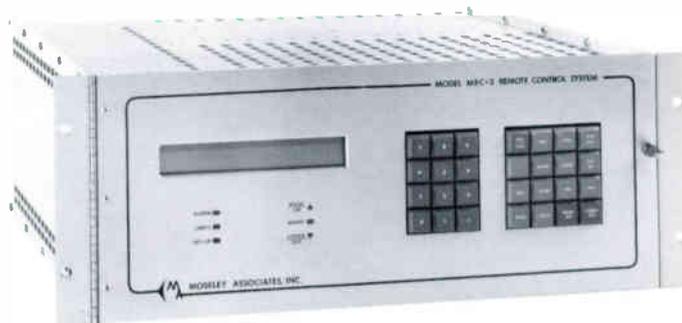


Microprocessor Remote Control System. Includes one Control Terminal and one Remote Terminal. Up to nine Remote Terminals function with a single Control Terminal. For 2-wire or 4-wire dedicated wireline or equivalent interconnecting circuits. Basic system equipped for 16 command lines (open collector electronic switching), 16 status channels (TTL/contact closure), and 16 telemetry channels indicated as 16/16/16. OPTIONS PRICES UPON APPLICATION.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$7995.00

ALLIED PRICE \$ _____

MRC-2



Microprocessor Remote Control System with stand-alone Remote Terminal, consisting of one Control Terminal, one Remote Terminal. Remote Terminal includes data acquisition/command capability, precludes CRT, MDC, MSD capability for terminal. System is configured with 16 command lines (open collector electronic switching), 16 status channels (TTL/contact closure), and 16 analog telemetry channels (indicated as 16/16/16). System includes two sets of modems for main-backup wire interconnections. OPTIONS PRICES UPON APPLICATION.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$12,095.00

ALLIED PRICE \$ _____

POTOMAC



Remote Control System. Includes SU-16 Studio Unit (16 channels): This unit contains the master controller and time clock. It sends commands to the transmitter unit and receives data from it. It is pre-programmed for each station according to user specifications. It provides manual or automatic surveillance and control at the option of the operator. Front panel indicators provide channel number, telemetry data, time and status indications. It also includes the TU-16 transmitter unit (16 channels). This unit accepts analog telemetry and status inputs and provides relay closure control outputs. It receives its instructions from the studio unit and operates the relays to control each function. Individual telemetry adjustments are provided for one person calibration under local control. OPTIONS PRICES UPON APPLICATION.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$4995.00

ALLIED PRICE \$ _____

**“PUT OUR PAST EXPERIENCES
TO WORK IN YOUR
FUTURE SUCCESS”**

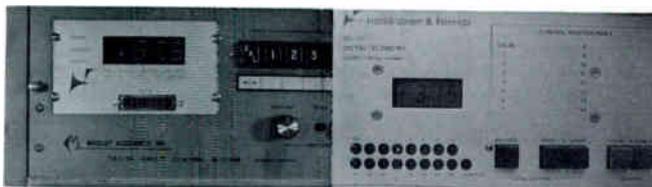
DELTA
RCS-1



Delta Electronics has developed a Remote Control/ATS System intended primarily for unattended monitoring and control of standard broadcast, FM and TV stations. Emphasis has been placed on simplicity of operation, reliability, and cost effectiveness in the design of this equipment. The latest proven microprocessor technology has been employed to accomplish the many attractive features of this system with a minimum of hardware. Three basic components are required in this system: a control unit at the control point, a control unit at the transmitter site, and an I/O unit at the transmitter location.

PRICES UPON APPLICATION

HALLIKAINEN
TEL-171



The TEL-171 converts your Moseley TRC-15AW, TRC-15AR or PBR30 to digital metering transmission, a method that eliminates the offset and gain drift in the analog metering. A local display in the transmitter control unit duplicates the readings displayed by the studio control unit. This permits one-man weekly meter calibration. The system consists of printed circuit boards which substitute directly for the audible metering generator, the audible metering demodulator, and the meter. The local display for the transmitter control unit includes a replacement front panel and a liquid crystal display printed circuit board. Installation is quick and simple since the PC mounting hardware is used, and the same wiring harness connects to the new boards. 3½ digit (-1999 to +1999) display is used. These easily read displays are updated twice a second. Should the metering carrier be lost, or a framing or parity error occur, the display at the studio will blank and front panel LED will indicate the problem. Through the use of digital transmission and display, the TEL-171 eliminates the error inherent in analog transmission, and simplifies the task of remote calibration and meter reading.

Model	Description	ALLIED PRICE \$
TEL-171	for TRC-15A.....\$800.00	ALLIED PRICE \$ _____
TEL-171	for PBR-30.....\$920.00	ALLIED PRICE \$ _____

HALLIKAINEN PRICES ABOVE ARE MFG'R'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

MARTI

Marti Electronics, Inc. is recognized world wide as a manufacturer and supplier of quality products for the radio broadcaster. The Marti product line is the outgrowth of the needs of our founder and President, George Marti. As a radio station owner, in the late 1940's through the 1960's, Mr. Marti had programming desires that required equipment that was not available, or if it was available it was not at a reasonable cost. Because of his own needs, he designed and built equipment which satisfied his own programming requirements. These products were successful. Others saw, used and liked the products. Marti Electronics was begun using the same philosophy that emerged in building those first products... "Build a quality product that is reliable, meets a basic need, performs as it is designed to and is priced to give the user good value for his money." Marti equipment is manufactured to meet several basic needs of the radio broadcaster.

Marti Remote Pick-Up Systems...The Marti remote broadcast system (RPU) has for years been regarded as the standard for the industry. Broadcasters use RPU equipment to originate programs from events and locations away from their studios. The Marti system of transmitters, receivers and mobile or fixed relay stations allow a live program to be transmitted from the event to the studio with broadcast quality sound. Once the program is received at the studio, it is rebroadcast or recorded for future use.

TSL-2



The Marti TSL-2 Telemetry link provides reliable telemetry circuits for AM, FM and TV stations. Expensive and unreliable FM Subcarrier and Telco lines can now be replaced with a cost effective Marti TSL System. This link is simple to install, easy to operate and maintain. The 2.5 watt transmitter is for solar power or other limited power source applications.

TSL-2 RPT2/450P/RMH-3/RR10-450
PRICE UPON APPLICATION

TSL-15



The Marti TSL-15 Telemetry Link provides reliable telemetry circuits for AM, FM and TV stations. Expensive and unreliable FM Subcarrier and Telco lines can now be replaced with a cost effective Marti TSL System. This link is simple to install, easy to operate and maintain. The 15 watt transmitter is recommended for use on medium to long paths having high signal attenuation.

TSL-15 RPT15-450P/RMH-3B/RR30-450
PRICE UPON APPLICATION

**“PROFESSIONAL PEOPLE,
SALES, SERVICE
& PRODUCT”**

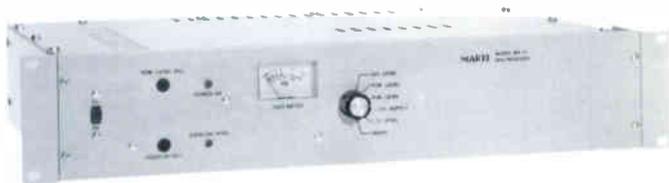
**MARTI
RPT-2**



The RPT-2 is a hand-carried broadcast quality continuous duty transmitter. It will operate from its internal ni-cad battery, from 115 VAC power or from external 12 VDC power. A special subaudible encoder enables the RPT-2 to access Marti mobile repeaters for coverage of indoor events.

Model	Freq. Band	
RPT2-150L	152-172 MHz (25F3).....	\$835.00
RPT2-450R	450-456 MHz (50F3).....	\$835.00
RPT2-450N	450-456 MHz (25F3).....	\$835.00
RPT2-450P	450-456 MHz (10F3).....	\$835.00
RPT2-450S	450-456 MHz (100F3).....	\$835.00

BR-10



Model BR-10 is a rack-mounted VHF or UHF base station receiver designed for broadcast remote pickup service. This receiver has dual frequency capability built in. Marti Technology has provided the highest frequency response with the lowest noise and distortion possible for the assigned channel band width. Special attention has been given to solving today's high interference problems. The BR-10 features a built-in test meter, squelch relay, optional DC operation, built-in sub-audible tone decoder, special noise reduction circuit, 90 dB spurious rejection.

BR-10 Single Freq.	\$1015.00
CR-10 Single Freq. w/monitor speaker.....	\$1045.00

AR-10



The Marti AR-10 Series receiver is a portable or mobile repeater receiver. This receiver has a built-in AC power supply, and will operate from an external source of 12-15 volts DC. A built-in sub-audible tone decoder meets FCC rule 74.431 allowing this receiver to automatically turn on a mobile transmitter upon receiving an encoded signal from a hand-carried portable transmitter, thus automatically relaying a broadcast to the base station receiver over a greater distance. The receiver operates on all remote pickup frequencies and band widths. Other built-in features include dual frequency capabilities, monitor speaker, and terminals for feeding telephone lines in portable operations. The unit weighs only 5½ pounds.

AR-10 Single Freq.	\$1045.00
AR-10 Dual Freq.	\$1075.00

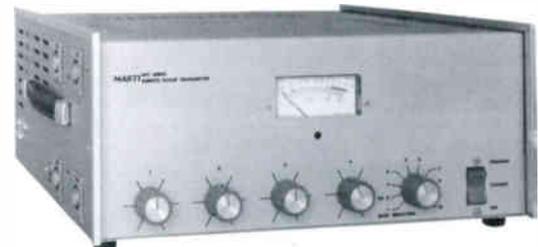
RPT-15



The Model RPT-15 is a compact 15 watt transmitter designed for portable or mobile remote broadcast service. It delivers the maximum power allowed by the Commission for airborne remotes such as traffic reports. The RPT-15 has a built in power supply for operation on 115 VAC. It will also operate on an external 12-14 VDC supply. Standard features include dual frequency and subaudible encoder for use with Marti mobile repeaters and automatic repeaters. All this plus famous Marti broadcast quality and continuous duty operation.

Model	Freq. Band	
RPT15-150L	152-172 MHz (25F3).....	\$945.00
RPT15-450R	450-456 MHz (50F3).....	\$945.00
RPT15-450N	450-456 MHz (25F3).....	\$945.00
RPT15-450P	450-456 MHz (10F3).....	\$945.00
RPT-15-450S	450-456 MHz (100F3).....	\$945.00

RPT-25/40



The Model RPT-25 transmitter provides uncompromised performance in portable and mobile remote broadcast service. This transmitter delivers 25 watts output under continuous duty conditions. Plug in modular construction simplifies field repairs. Available in dual frequency model. (RPT-40 delivers 40 watt output.)

Model	Freq. Band	
RPT-25P	450-456 MHz (10F3).....	\$1745.00
RPT-25P-2	450-456 MHz (10F3)(Dual).....	\$1895.00
RPT-25R	450-456 MHz (50F3).....	\$1745.00
RPT-25R-2	450-456 MHz (50F3)(Dual).....	\$1895.00
RPT-25N2	450-456 MHz (25F3).....	\$1745.00
RPT-25N2-2	450-456 MHz (25F3)(Dual).....	\$1895.00
RPT-25S	450-456 MHz (100F3).....	\$1745.00
RPT-25S-2	450-456 MHz (100F3)(Dual).....	\$1895.00
RPT-40K	152-162 MHz (30F3).....	\$1495.00
RPT-40K-2	152-162 MHz (30F3)(Dual).....	\$1645.00
RPT-40L	166-170 MHz (25F3).....	\$1495.00
RPT-40L-2	166-170 MHz (25F3)(Dual).....	\$1645.00

MARTI PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

FAIRCHILD

DIGITAL AUDIO RECEIVER TERMINAL DART - 384



For Digital Satellite reception we recommend the FAIRCHILD DART 384 (formerly known as the COMTECH DART 384). The DART 384 receiver consists of down-converter, receiver-demodulator shelf, audio program channels, voice cue channels, and data program channels.

The down-converter is an environmentally sealed unit which mounts at the antenna. It converts the 3.7 to 4.2 GHz output of the LNA to a 70 mHz IF signal for use by the demodulator shelf electronics. With the down-converter mounted outside at the antenna a low cost RG-6 type cable can be utilized while at the same time allowing two to three times the distance between the antenna and the receiver-demodulator shelf. A feature only the FAIRCHILD has!

Other features include crystals for all four active digital satellite transponders *standard* in all receivers. And at no additional charge a transponder crystal select switch is *standard* on the FAIRCHILD DART! Need remote channel or transponder switching? No problem, again *standard* in all FAIRCHILD DARTS via 'D' connectors on the rear of the unit.

THE COMTECH "OFFSAT" ANTENNA



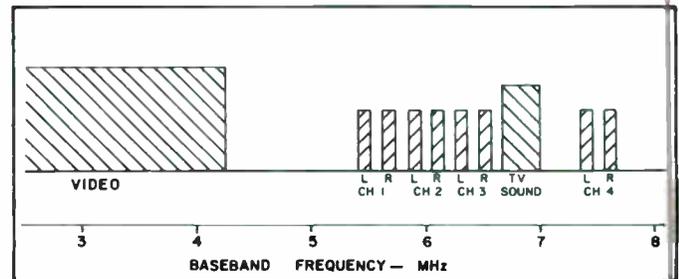
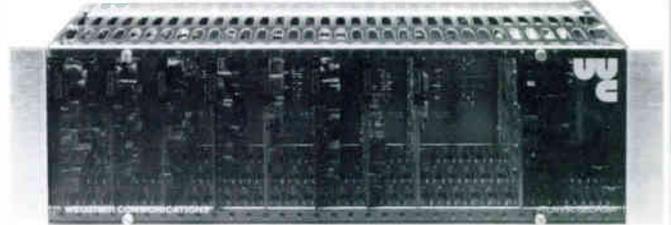
Here's a unique one-piece antenna design with an innovative offset feed that makes the "Offsat" the **ONLY** antenna in its size category capable of **exceeding all FCC specifications for 2 degree spacing**.

COMTECH'S "OFFSAT" is the intelligent response to the new stricter requirements and it has the surface tolerance necessary for Ku-Band.

As all COMTECH antennas, the "OFFSAT" is precision made of fiberglass and is available for uplink and downlink applications in AZ/EL, Polar or Transportable configurations, both C-band and Ku-Band.

WEGENER

SATELLITE SUBCARRIER RECEIVER



The Model 1606 Subcarrier Receiver consists of a down-converter shelf and a plug-in IF demodulator. The RF down-converter shelf mounts on the rear of the 1601 Mainframe. The down-converter accepts 4 GHz RF input, provides a 70 mHz IF output, and is designed to interface to the IF wideband demodulator. The IF demodulator is plug-in compatible with the 1601 Mainframe. Bandwidth is optimized for subcarrier reception characteristics. Thumb-wheel selection of transponders is available on the front panels. Provisions are made for LNA powering and polarity switch relay interfacing. Output of the 1606 is wideband-baseband designed to connect to the 1600 family of subcarrier demodulators.

COMTECH

3.8M ANTENNA



The 3.8M is the perfect antenna for reception of any format audio network, whether the transmission be Digital, Sub-Carrier, or SCPC.

Comtech's antennas are easy to assemble, install and align. Simplified installation design for both the AZ/EL mount and the polar mount permit rapid, money-saving installations.

Careful tight tolerance construction assures maximum, gain and minimum beamwidth so necessary for today's crowded satellite arc. Range tested gain spec of 42.9 dB!

MICRODYNE
1100 BDC/DCR VIDEO RECEIVER



Looking for KU-Band? Allied has the most popular Microdyne 1100 BDC/DCR series! The first half of this receiver is the block down-converter (BDC) which converts the KU-Band frequencies, at the antenna, to a range of 270-770 MHz. Lower cost cable can then be utilized between the satellite antenna and the receiver. Also the BDC is available in a C-Band version which allows you to get double service from your DCR receiver!

The DCR features a double conversion tuner for the best possible image rejection, noise figure and high temperature range stability. The DCR features automatic polarity switching, dual video outputs, and two audio demods. The Microdyne DCR is available in either half, full or dual transponder configurations. Audio subcarriers can be specified to match any frequencies that are used by your network.

MICRODYNE
1100 FFC-X1 (RDC) L DOWN-CONVERTER



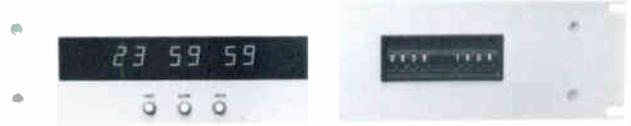
The 1100 FFC rack-mounted down-converter reduces the 3.7 to 4.2 GHz received signal to 70 MHz (center frequency). These crystal-controlled converters are ideal for either single-channel or multi-channel applications, where one 1100 FFC can accommodate up to thirteen 1100 PCDR demodulators. A simple front panel crystal change allows the use of any transponder on the satellite with no internal adjustment required. Note: This is the ultra-stable down-converter required by most SCPC demodulators!

MICRODYNE
1100 PCDR-5 SCPC DEMODULATOR



The PCDR-5 is the latest design in a frequency agile SCPC demodulator from Microdyne. Exceptional flexibility is provided by the front panel five-section push-button switch assembly, which allows you to select wideband (high fidelity) or narrow band (broadcast voice grade), choose de-emphasis from 0 to 75 μ sec in 25 μ sec increments, and set expander ratios for 2:1 or 3:1. The PCDR-5 will receive 15 kHz audio for stereo broadcasts as well as 5 kHz or 7.5 kHz audio programming. Other features include synthesized 10 kHz step tuning, input loop through, loss-of-carrier contact alarm and two 600 ohm balanced audio outputs standard. This is the demodulator recommended most often!

ESE
750E PROGRAMMER/COMPARATORS



When programming up to four time events, the 750E Series or expanded versions are recommended, for economy and ease of use. Thumbwheel switches are set to compare the time information from an ESE Clock or Timer.

An output (event) occurs each time the thumbwheel switch setting agrees with the time display, and as long as the two agree, the output is maintained. This output is usually a single pole, form A, 1/2 amp, reed relay contact closure, but other outputs may be specified.

One set of Thumbwheels is required for each event. The standard 750E Series units are enclosed in a 19 inch Wide x 3 1/2 inch High x 8 inch Deep relay rack panel and chassis with brushed aluminum finish.

Standard Units

- ES 750E — ES 112E and one 6 Digit Program
- ES 751E — ES 124E and one 6 Digit Program
- ES 753E — ES 112E and two 4 Digit Programs (Hrs & Min)
- ES 754E — ES 124E and two 4 Digit Programs (Hrs & Min)
- ES 756E — ES 510E and one 4 Digit Program (Min & Sec)
- ES 758E — ES 510E and two 4 Digit Programs (Min & Sec)

MONROE
MODEL 5002 REMOTE CONTROL



The Model 5002 Remote Control provides remote control channel selection of two dual audio modules or voice cue modules for the Comtech/Fairchild DART-384[®] and other digital audio receivers.

In addition, it will permit remote transponder selection for the Comtech/Fairchild DART-384.

It includes an integral, FCC registered telephone line interface and utilizes DTMF signalling to permit access and control from any Touch-Tone[®] telephone.

A two-wire, 600-ohm balanced audio input permits access and control from a non-switched communications path.

Tone responses are returned to advise the calling party that the remote control sequence has been accepted.

The remote control retains the channel configurations in memory during power interruptions and returns to these configurations when power is restored to the instrument.

The remote control is housed in a 3 1/2-inch high, 19-inch wide EIA rack mountable enclosure and includes front panel indicators that provide system status information.

“The Satellite Equipment Shown Here Is But A Small Portion Of The Audio/Video Satellite Equipment Offered By Allied Satellite Division. Please Request The Allied Satellite Catalog!”

MODULATION SCIENCES



The Sidekick SCA Generator has the first crystal controlled SCA generator in the industry. Because it is crystal controlled, Sidekick has a frequency stability of $\pm 0.01\%$ over 0 to 50 degrees C. The SCA carrier is derived from a frequency synthesizer. Any frequency in the the SCA region can be selected by user programmable straps. New crystals will never be needed. A built-in modulation meter eliminates the need to purchase an additional modulation meter for the sub-band. Audio processing has always been a weak link in SCA. Sidekick is designed for 150 microsecond pre-emphasis, with 75 and zero strap-selectable options. The lowpass audio filter, engineered as an integral part of the system, is overshoot corrected for maximum modulation and minimum crosstalk. Designed into the Sidekick is a random noise generator and incidental AM noise meter. The entire baseband is noise loaded and incidental AM measured from an RF sample. All the devices need to do minimum AM tuning are built into Sidekick, no additional equipment is needed.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$2450.00

ALLIED PRICE \$ _____

CRL



The SCA 300 will improve the received fidelity and absolutely prevent main channel interference. It provides both the final audio peak control for maximum coverage and loudness plus a very low distortion generator. The SCA 300 features a quartz crystal controlled, low distortion oscillator, user programmable deviation from 2 to 8 kHz, special frequency shaping filters that permit low frequency rolloff below 100 Hz, programmed controlled muting, audio bypass, a data input port, unique multiband pre-emphasis control and a distortion anticipating AGC. In addition, the SCA 300 offers optional remote control operation, active balanced input and front panel injection level control.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1500.00

ALLIED PRICE \$ _____

MOSELEY

SCG-8



A Multiplex FM Subcarrier Generator with automatic muting and front panel peak-deviation meter, including self contained power supply. Available for operation at a specific frequency in the 26 kHz to 186 kHz spectrum.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1495.00

CALL FOR TODAY'S ALLIED PRICE

SCD-8

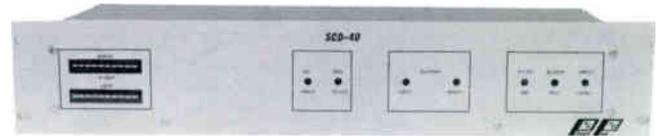


A Subcarrier Demodulator with automatic muting and front panel peak deviation meter, including a self contained power supply. Available for operation at a specific frequency in the 26 kHz to 186 kHz spectrum.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1295.00

CALL FOR TODAY'S ALLIED PRICE

POWERPAK



The POWERPAK SCD-40 is a Stereo Composite Demodulator used for demodulating wideband, composite stereo program, back into discreet left and right monaural channels.

Functional as a piece of test equipment, the SCD-40 finds many applications for performing various testing procedures around the station.

With the advent of AM Stereo some remote controlled stations are finding it desirable to transmit program over a single, wideband composite STL, demodulating the composite audio at the AM transmitter. The SCD-40 performs this task with a minimum loss of fidelity, faithfully restoring the original left and right channels.

Using Phase Lock Loop technology, the demodulator is furnished with 15 kHz Low Pass Filters and Dual LED/Bar peak modulation indication.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$895.00

ALLIED PRICE \$ _____

SPEAKERS

ALC

10302



The ANNOUNCER full range loudspeaker is the ultimate in performance in a compact size. The wood cabinet is covered in walnut-grained vinyl and is perfectly square. As with all ALC loudspeakers, the grill snaps away and the system has an overall fuse. The high-compliant full range transducer produces quality sound from below 60 Hz to beyond 15 kHz.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$53.00

ALLIED PRICE \$ _____

SPEAKERS

ALC
20306



The MONITOR loudspeaker system provides a flat response from below 50 Hz to beyond 20 kHz. Its high compliance surround on the 8" woofer and phenolic tweeter combine to enhance any type of music. The tweeter control and the system fuse are behind the snap-away grille. It will handle 25 watts RMS continuous, 45 watts integrated program material at 8 ohms.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$116.00

ALLIED PRICE \$ _____

ALLIED CARRIES THE FULL ALC LINE

TOA
RS21M



The RS21M is a compact speaker system incorporating a full range 5 inch cone speaker in a sealed enclosure of compact size. Featuring a high power capacity and smooth extended frequency response, the RS21M is ideally suited for recording studio monitoring.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$59.50

ALLIED PRICE \$ _____

ELECTROVOICE
SENTRY 100A

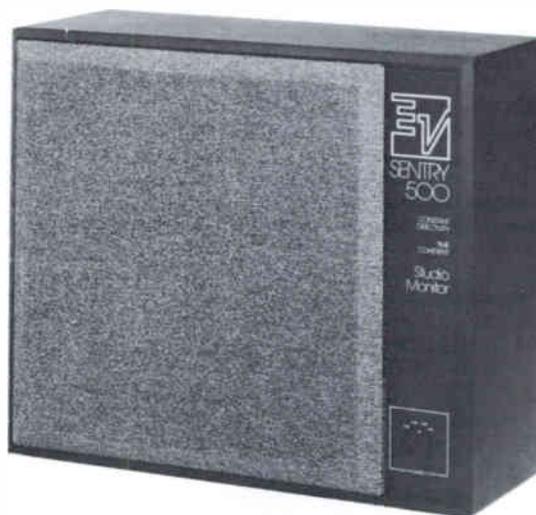


The SENTRY 100A monitor speaker system is a no-nonsense system that speaks to the needs of professionals with specific requirements. It offers high efficiency with extended low frequency response, high power capacity across the entire frequency range, uniform frequency response and dispersion, all in a compact no frills package. The SENTRY 100A features the SUPER-DOME™ tweeter capable of handling 25 watts of input power and an 8" direct radiator woofer.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$249.00

ALLIED PRICE \$ _____

SENTRY 500



The SENTRY 500 no-nonsense design meets the needs of professionals by combining high efficiency with extended low frequency response, high power capacity across the entire frequency range, uniform frequency response and constant directivity, all in a well thought-out attractive package. The SENTRY 500 employs the SUPER-DOME™ tweeter capable of handling 25 watts of input power and an 8" direct radiator woofer.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$499.00

ALLIED PRICE \$ _____

ALLIED CARRIES THE FULL ELECTROVOICE LINE

JBL
4401



The most compact of the JBL studio monitors, the 4401 is ideal for use as a main monitor in applications where space is at a premium. The tight driver cluster gives the 4401 outstanding coherency in the near field, making it also an excellent choice for a console-mount secondary monitor. The 4401 offers smooth response over a wide coverage angle, with wide dynamic range and clear, open sound.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$189.00

ALLIED PRICE \$ _____

STANDBY POWER

JBL
4411



The 4411 is JBL's most sophisticated 3-way direct radiator monitor loudspeaker system. Applying the knowledge gained in the design of other models, JBL has created a compact monitor especially well suited to the demands of the digital age. The three transducers of the 4411 are arranged in a tight cluster to provide coherency of sound for close-in monitoring, while assuring minimal off-axis variation in the far field.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$570.00

ALLIED PRICE \$ _____

4301



A compact monitor loudspeaker system designed specifically for broadcast applications, the 4301B delivers the wide band sound reproduction, accuracy and efficiency required by improved broadcast technology. Use of the 4301B is particularly relevant in light of the most recent developments including digital disc playback and TV and AM stereo.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$243.00

ALLIED PRICE \$ _____

ALLIED CARRIES THE ENTIRE JBL LINE

AURATONE 5C

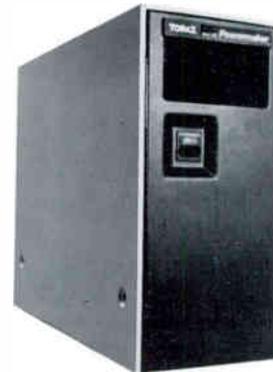


Recording/Broadcast standard mixdown/comparative monitors and extension speakers. Walnut woodgrain vinyl finish, black foam grille. The little powerhouse. They tell you exactly what's going on.

MANUFACTURER'S SUGGESTED LIST PRICE, PER PR.....\$95

ALLIED PRICE \$ _____

TOPAZ
POWERMAKER MICRO UPS™



The TOPAZ POWERMAKER Micro UPS provides standby power for microcomputers and microprocessor based volatile memory. The POWERMAKER is totally effective against blackouts, brownouts and sudden voltage dips that can shut you down. The POWERMAKER also protects against noise transients and spikes that can damage your valuable equipment. It responds in less than a half cycle so that your equipment never notices a lapse in power. The POWERMAKER provides a sine wave output for meeting the power requirements of even the most sensitive equipment.

PRICES UPON APPLICATION

KAY
PHASEMASTER



The Phasemaster T-Series Rotary Phase Converter is specially designed and engineered for use with all types of radio transmitters for the conversion of single phase power to 3-phase in locations which are not serviced by 3-phase lines. Phasemaster is particularly suitable for application in situations where the high cost of installing utility supplied 3-phase power is prohibitive. A Phasemaster T-Series Rotary Phase Converter can be installed for a small fraction of the cost of installing utility supplied 3-phase power.

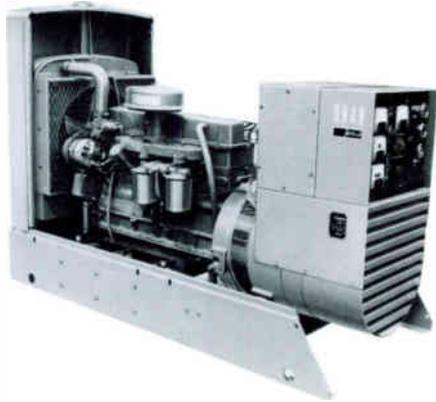
PRICES UPON APPLICATION

KOHLER

Kohler supports the telecommunications industry in the U.S. and world wide with prime and/or standby electric generator systems offering flexible operating capabilities (fuel, cooling, control & accessories), broad power ranges (1.75 to 1000 KW) and patented, state-of-the-art features in protection and transfer. Protect your investment with proven and reliable Kohler power for your power spectrum needs.

PRICES UPON APPLICATION — CALL FOR ALLIED'S PRICE

ONAN



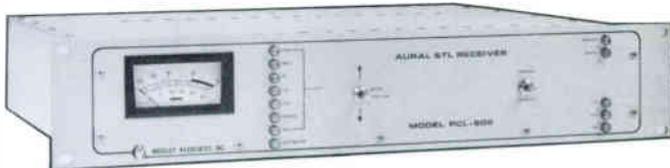
Standby electric power systems are increasingly essential to all broadcasting facilities. Allied provides a complete line of standby electric generating sets ranging in capacity from 1 to 75 KW with over forty different series and hundreds of models from which to select. Choose from gas, gasoline or diesel models. ONAN generators from Allied provide automatic switchover to insure power source reliability to your operation. An ONAN standby electric system from Allied provides air or liquid cooled engines from such large manufacturers as FORD, ONAN, ALLIS CHALMERS, CUMMINS or JOHN DEERE.

PRICES UPON APPLICATION

STL

MOSELEY

PCL-606



The PCL-606 is an all solid-state STL consisting of a transmitter and receiver with self contained power supplies, crystals and tested on the operating frequency. Versions are available for all commonly used bands from 148 to 960 mHz. Discrete.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$9795.00

ALLIED PRICE \$ _____

PCL-606C

The PCL-606/C is an all solid-state Composite STL consisting of a transmitter and receiver with self-contained power supplies, crystals and tested on the operating frequency. Transmits a composite stereo waveform on a single STL. Versions available for all commonly used bands from 148 to 960 mHz.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$9795.00

ALLIED PRICE \$ _____

PCL-505



The PCL-505 is an all solid-state STL consisting of a transmitter and receiver with self-contained power supplies, crystals and tested on the operating frequency. Versions available for all commonly used bands from 148 to 960 mHz. Discrete.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$7195.00

ALLIED PRICE \$ _____

PCL-505/C

The PCL-505/C is a Composite STL consisting of a transmitter and receiver with self-contained power supplies, crystals and tested on the operating frequency. Transmits a composite stereo waveform over a single STL. Versions available for all commonly used bands from 148 to 960 mHz.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$7195.00

ALLIED PRICE \$ _____

TRL-1



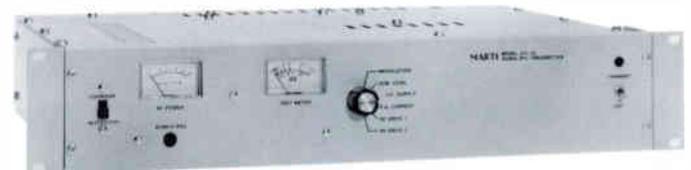
The TRL-1 is a Telemetry Return Link consisting of an all solid-state transmitter and receiver. Tuned and tested on the operating frequency. Nominal one watt transmitter output. Receiver designed specifically for narrowband service. For 10F2/10F3 channels FCC group P.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$3495.00

ALLIED PRICE \$ _____

MARTI

STL-10



The Marti Studio-Transmitter Link/Intercity relay is a line-of-sight FM communications system providing a high quality broadcast audio channel with two optional sub-channels. A dual link for stereo provides two identical broadcast quality channels with better than 60 dB stereo cross talk and four optional sub-channels. This system offers greater rejection of interference, superior noise performance, low channel cross talk, greater redundancy, and lower cost.

Model Description

STL-10/950 10 watt transmitter, complete with crystal and tuned to frequency. 120/220VAC. for AM or FM broadcast application.

R-10/950 Receiver, complete with crystal and tuned to frequency, 120/220 VAC. for AM or FM broadcast application. Includes down-converter

STL-10 MONO SYSTEM, TYPICAL

\$2990.00

STL-10 STEREO SYSTEM, TYPICAL

\$6095.00

TSL-15

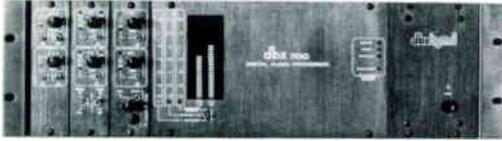


The Marti TSL-15 Telemetry Link provides reliable telemetry circuits for AM-FM and TV stations. Expensive and unreliable FM Subcarrier and Telco lines can now be replaced with cost effective Marti TSL systems. This link is simple to install, easy to operate and maintain. Marti has assembled complete equipment packages.

TSL-15 Telemetry Link, TYPICAL

\$2992.50

DBX 700 DIGITAL AUDIO PROCESSOR



Precision Companding solves a major problem with delta modulation—limited dynamic range. The dbx 700 offers a dynamic range of more than 110 dB, resulting in an unbelievably low noise floor that's completely neutral-sounding. The compander's novel design and the direct digital link between encoder and decoder guarantee its overall performance is absolutely transparent.

Linear Prediction estimates a signal's future by monitoring its recent past. It does this 700,000 times a second. This further increases the dynamic range of our fixed delta modulator and prevents the audible noise modulation common in other forms of DM.

You can create a digital remote transmission system with the dbx 700 Digital Audio Processor and the MA/COM system that will rival live performance.

PRICES UPON APPLICATION **2 REQUIRED FOR STL**

M/A-COM 23VFM 23 GHZ MICROWAVE LINK



The M/A-COM 23VFM system is a budget priced solid-state FM microwave link that provides reliable, short range digital audio links in the 21.8 to 22.0 GHz and 23.0 to 23.2 GHz frequency bands. With the addition of a digital processor(s), systems can be configured as Stereo Digital only, or, with optional subcarriers, Stereo Digital and up to two additional 15 kHz analog channels. Perfect for FM SCA audio, FM/SCA data, or transmitter remote control.

PRICES UPON APPLICATION

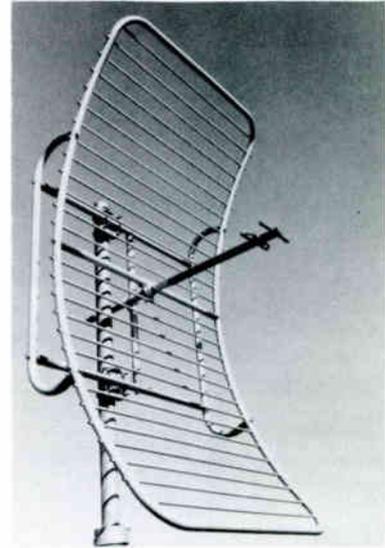
MARK PRODUCTS



Mark Products offers a variety of sizes of Heli-Arc welded aluminum Multi-element Grid Parabolas for point to point relay operation in the 400 to 2700 mHz frequency range. The patented grid of construction is lightweight, yet extremely strong. One of the outstanding advantages of the grid antenna is that it has wind loading characteristics of only 25 to 40% of comparable size solid parabolas.

PRICES UPON APPLICATION

SCALA



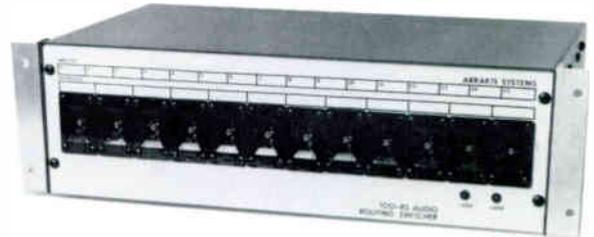
The Scala PR-450-U™ is widely used in point to point communications and telemetry systems in the 350 to 1000 mHz spectrum. Paraflector™ performance approximates that of a parabolic dish of the same aperture, and is easier to assemble and install. The PR-450U offers rugged construction for reliable long-term service, even in severe environmental conditions.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$500.00

ALLIED PRICE \$ _____

SWITCHERS

ARRAKIS RS SERIES

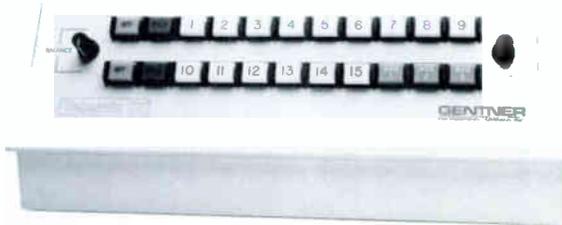


The RS Audio Routing Switchers are the professional alternative to patch panels, mechanical switches and distribution amplifiers. Ultra reliable, the power supply is regulated, protected and has a 10 year meantime before failure. LSI integrated circuits reduce parts count to a minimum. All IC's are socketed for ease of replacement. The thumbwheel control switches are 1,000,000 operation. Due to the ultra reliable design redundant power supplies are unnecessary. These switchers may be used in the most critical sections of the audio chain with total confidence.

Model	Description	Price
100RS	16 in by 12 out mono, 8 in by 12 out stereo.....	\$1500.00 ALLIED PRICE \$ _____
1100A-RSS	16 in by 4 out stereo.....	\$995.00 ALLIED PRICE \$ _____
1100B-RSS	16 in by 8 out stereo.....	\$1695.00 ALLIED PRICE \$ _____
2100A-RSM	32 in by 4 out mono.....	\$1695.00 ALLIED PRICE \$ _____
2100B-RS	32 in by 8 out stereo.....	\$3495.00 ALLIED PRICE \$ _____

ALL ARRAKIS PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

GENTNER
TELEMIX IX



Telephone talk shows just became technically simple. Allied can now supply the newest generation of multi-line telephone systems. TELEMIX IX is a 15-line microprocessor based telephone system that provides high quality telephone audio for use in all types of broadcast talk shows. This desktop unit can be operated by the talk show talent, engineer or both.

The front panel switches look and respond exactly as a standard 10-button telephone set. But their effect on the telephone line is dramatically different!

TELEMIX IX is a totally software driven system. When any button is depressed or an external pin is grounded, a command is sent to the central processing unit (CPU). The CPU interprets this command, and depending on the internal software (1 chip EPROM) executes an appropriate response. This allows TELEMIX IX to do virtually anything. It can be re-programmed by anyone with an EPROM burner and the ability to write assembly language programs to accommodate any custom function.

Since TELEMIX IX is software driven, any combination of responses is possible. Let's explore several of its mechanical and electrical possibilities.

TELEMIX IX connects directly to MA Bell's 500 series KSU using two 25-pair cables and will interface 15 lines. Solid state switching of phone, A-leads, and lamp flashing permits total non-mechanical connection to the outside world.

A total of twelve input and output access ports are provided for software driven external interaction. This interaction can be, but is not limited to, timer starts and stops, producer cueing, and/or turning off the local coffee pot. The external ports are accessed through a rear panel DB-25.

The CPU can be accessed via an on-board RS-232 serial port. This port allows single pair control of the entire device from almost anywhere. It also permits programming the device via any minicomputer. This allows the user to operate all functions of TELEMIX IX externally.

The use of a video display is beneficial to the producer, talent and ultimately the listener. Cueing information such as length of calls, length of callers on hold, etc. can be easily programmed and displayed on the microcomputer.



Thus far we have concerned ourselves with the manipulation of telephone lines. Let's explore the processing of the telephone line once it's been directed to the audio board.

There are two groups of telephone lines that the CPU can direct to the input of the audio board. Each input incorporates an active hybrid that separates send and receive audio. Both the send and receive circuits use critically designed filter circuits providing the very best audio from the telephone line. All callers are cross-fed opposite caller audio for true least-loss conferencing.

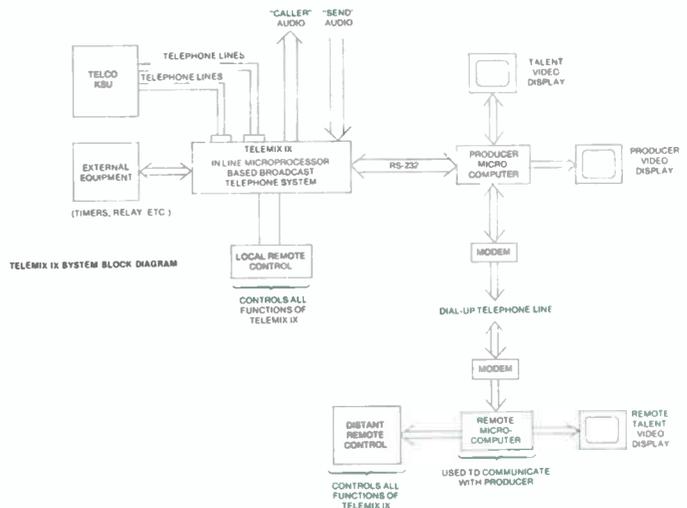
Depression of any line button results in the following:

- (1) The CPU tells the audio board to mute the receive amplifier during line termination sequence.
- (2) The CPU pulls in the appropriate solid-state line switch and A-lead.
- (3) The CPU tells the audio board to beep the caller, telling them they're on the air. This occurs for 400 milliseconds.
- (4) The CPU then unmutes the receive amplifier and the caller is "on the air".

The entire sequence takes less than 500 milliseconds providing clean, clear, transient free telephone audio.

As the talent speaks, the caller may be reduced in level. The amount of caller reduction is controlled by the front panel caller control knob and is continuously adjustable from 0 to 30 dB of reduction.

The audio output appears on two rear panel XLR's and provides mixed audio from both line groups. The balance of audio between groups is front panel adjustable by rotating the front panel balance control.



In summary, TELEMIX IX is a software driven, microprocessor based, multi-line telephone system that provides high quality telephone audio. The system is software driven, allowing maximum flexibility in processing telephone lines. The RS-232 port permits long distance remotability and in-house programming via a minicomputer. The system uses an advanced design telephone hybrid that produces clean, clear audio.

MANUFACTURER'S SUGGESTED LIST PRICE..... \$3295.00

ELGIN



The EC30A is a totally passive voice coupler that's also known as the "QKT". Total protection is afforded to the phone company's circuits by installation of the EC30A. ELGIN was the original manufacturer for the Bell "QKT".

MANUFACTURER'S SUGGESTED LIST PRICE.....\$52.00

ALLIED PRICE \$ _____

ELGIN
19645 SERIES



The news department in particular can benefit from the advantages of the ELGIN 19645 series. It's especially good for actualities, interviews, remotes and many other functions.

The 19645 RCZ recorder connector provides interface between the telephone and/or multi-line key pad and the input to your audio equipment. A defeatable "beep" occurs every 15 seconds and AGC keeps both sides of the conversation just about equal in level.

The 19645 RCZ amplifies both sides of conversation just about equal in level but isn't designed for sending audio back down a telephone line.

The 19645 requires the optional 2012B transformer for power, and connections are made via a barrier strip. A RJ-32X jack must be ordered from the phone company for single line installation. A RJ-35X jack is required for multi-line access.

Model	Description	
19645-4	Recorder connector.....	\$208.00
2012B	Transformer.....	\$10.00

20721 SERIES



Also known as the "listen line", the 20721 is expressly for use as an automatic answer device. The 20721 can be used at your station for an out-of-town audition of your program by a major time buyer by simply feeding the unit with on-air audio.

The 20721 will automatically connect your mass feed to a network station simply by having the station call the number assigned to the 20721.

This permits the caller to take advantage of much less expensive direct-dialing and allows him access to your feed without an engineer or technician at the feed end.

Audio from news networks, sporting events and more is fed to a bank of 20721 units. One unit is required per subscriber network station. The subscribing station orders a telephone hook-up from the local telephone company in the originating station's city and simply calls the assigned number when they need a feed. The 20721 takes care of everything else. A lot of major league sports networks are handled this way, including the Cincinnati Reds broadcasts all the way to Florida.

The 20721 must see a battery reversal or momentary open from the originating city's local central office. The absence of both of these functions will not permit the use of the 20721.

When the caller hangs up the line will not be released. Use of the Allied DTD-5 will alleviate this problem. The DTD-5 can be retrofitted into the 20721 case and needs no external power source.

Multi-connector DA19603403-51225-1 plug and hood assembly(12) and telco jack RJ-11W or jack number RJ-32X (for use with associated telephone sets) are required.

Model	Description	
20721-1	Coupler.....	\$237.00
DTD-5	Line release.....	\$64.00
DA19603403-51225	Multi-pin connectors.....	\$12.00

GENTNER
DTD-5



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The DTD-5 is a dialtone/busy detector for use in those telephone systems which do not provide momentary open/battery reversal, the actions necessary to implement the ELGIN 20721 "Listen Line."

As the caller finishes listening to the message on the "Listen Line" and hangs up, the DTD-5 detects the dialtone, pulse, or "off the hook" sounds and sends a command to the "Listen Line" to release the line, ready for next call.

DTD-5 requires no external power supply, but retrofits into the 20721 and takes its power from the host unit.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$64.00

ALLIED PRICE \$

GENTNER SPH-3A



The GENTNER SPH-3A from Allied provides an easy and inexpensive method of interfacing broadcast equipment with an existing telephone system. Separate adjustable volume control of caller audio and monitor audio is featured, plus one-time-adjustment of null and feed to caller.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$499.00

ALLIED PRICE \$

SPH-4



From GENTNER, the SPH-4 is a self contained telephone interface system designed to provide clean, clear, phone audio for a variety of uses. Incorporates one-time-set controls of audio volume to caller (with LED level indication) squelch, hybrid null as well as separate volume controls for caller level and monitor. An exclusive feature is the caller control — a compromise between a full duplex hybrid and a speaker phone.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$699.00

ALLIED PRICE \$

SYMETRIX TI-101



A console-to-telephone interface for talk show, ENG, production and a host of other applications.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$495.00

ALLIED PRICE \$

TELLABS



248C



1012

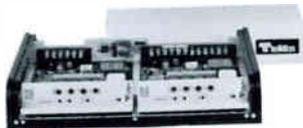


4008



4424

4425



1913



1911

The TELLABS line of equalization equipment was designed expressly for use with telephone circuits. No other form of equalization can offer the flexibility or specs necessary to achieve the quality for AM and/or FM (stereo) feeds via leased telephone circuits. Bell standard for this application.

If a circuit is unloaded and if the length vs. gauge criterion is not exceeded, you can install your own equalization and pay for it in a very short time. The only alternative is to pay the telephone company a monthly fee for the same equipment. If telephone circuit lines are a necessity in your operation, there's no reason for you to also pay for the equalization on a monthly basis.

All TELLABS equipment is connected via the wire wrap method and all cabinets must be wired for application by the user. Wrap terminals .075".

A typical mono application would consist of:

- (1) #4424 single repeat coil card
- (1) #1911 single card repeat coil housing
- (1) #1912 housing for equalizer module*
- (1) #4008 equalizer module
- (1) #1913-L4 power transformer

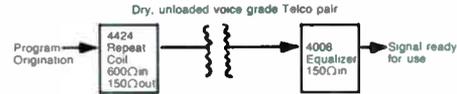
A typical stereo application would consist of:

- (1) #4425 dual repeat coil card
- (1) #1911 single card repeat coil housing
- (1) #1913 dual housing for 2 equalizer modules*
- (2) #4008 equalizer modules
- (1) #1913-L4 power transformer

* (RF at the receive end may necessitate a 248RF cabinet which is designed with suppression and bypassing especially for use in RF-intense applications.)

TELEPHONE LINE EQUALIZATION

TYPICAL ARRANGEMENT TO UPGRADE ANY LOOP WHICH MEETS INDICATED CRITERIA



Up to 30 dB loss differential 50-15 kHz.
(22 ga. cable typically 5.9 mi. max @ 15 kHz)

UP TO 3 UNITS MAY BE CASCADED AT APPROX. 5 MI. INTERVALS WITH MAINTENANCE OF ACCEPTABLE NOISE & DISTORTION SPECS (RE 22 GA. CABLE)

TYPICAL EQUALIZATION LIMITS — 15 kHz

CABLE GA.	MAX LENGTH
19	8.7 mi.
22	5.9 mi.
24	4.2 mi.
26	3.4 mi.

If you wish to equalize a number of circuits you may wish to use 248C rack mount housing which will accommodate up to eight (8) #4008 modules. (9 with user wiring.)

If several repeat coils are to be used, the #1012 housing will hold up to 12 cards.

Repeat coils and #4008 modules may be mixed in the 248C housing when wired accordingly. All terminals are .075" wire wrap and user wired.

Model	Description	
#4008	EQ. module.....	\$214.63
#4424	Repeat coil/single.....	\$54.19
#4425	Repeat coil/dual.....	\$73.31
#1913	Dual card housing.....	\$69.07
#1911	Single card housing.....	\$20.19
1913-L4	Transformer.....	\$9.57
248RF	Dual amp mounting, RF shielded.....	\$325.13
248C	housing.....	\$385.69
8003A	power supply.....	\$183.81
1012	housing.....	\$106.25

ESE ES212



ES212 uses a "heavy iron" transformer hybrid network, 600 Ohm balanced line level inputs and outputs, switched metering, with full level and dynamics control. Best of all, the patch reproduces telephone audio cleanly and quietly. Have you ever experimented with the bridging of phone signals into broadcast consoles and wondered why the voices sounded so much better over the phone itself? On the ES212, the voices will sound better over the patch. The response is carefully tailored in the receive channel and no AGC is used to "suck up" line noise. The sound is not tiny, spitting, compressed, noisy, or narrow. It is as clear, wide, and natural as the phone line will permit. The send (announcer's voice) signal is squelched during listening periods so as not to add noise. The receive channel may be adjusted to depress the gain of the caller as the announcer speaks. The ESE PHONE PATCH is not just another interface device, it is a quality broadcast instrument, fully compatible with the requirements of fine audio.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$995.00
ALLIED PRICE \$.....

DELTA

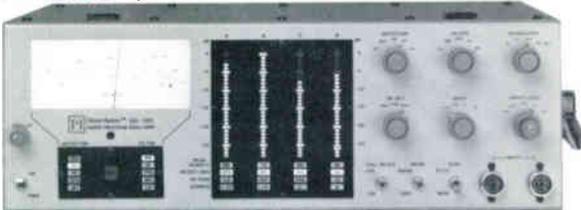


The Common Point Impedance Bridge is an invaluable device for directional array maintenance. The CPB-1 is designed for permanent installation in existing phasing equipment to provide an accurate indication of the common point impedance. The CPB-1 will handle common point powers of up to 5 kW with 100% modulation. The CPB-1A is designed for powers up to 50 kW.

Model	Description	
CPB-1	to 5 kW.....\$1850.00	ALLIED PRICE \$ _____
CPB-1A	to 50 kW.....\$2200.00	ALLIED PRICE \$ _____

DELTA PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

POTOMAC QA 100



The Potomac "QuantAural" QA 100 is a first class audio program analyzer for evaluating your own station sound, competitive stations sound and measuring audio processing from numerous sources. Naturally your ears will always be the best judge of sound, but now this instrument is designed especially for professional broadcast sound analysis. You can now measure maximum peak level, audio processing effectiveness, tightness of sound, tonal balance and consistency, stereo bandwidth, preemphasis and "punch." This portable unit utilizes meter and LED readouts, weighs 12½ lbs. and measures 15"W x 5¼"H x 10½"D.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$3500.00
ALLIED PRICE \$ _____

AT-51



Designed primarily for commercial broadcast proof-of-performance measurements and equipment maintenance. The AG-51 Audio Generator and AA-51 Audio Analyzer are packaged separately for remote measurements requiring physical separation of signal source and signal analyzer. Both units are RFI shielded to enable accurate measurements in high level radio frequency environments typical of broadcast transmitter facilities. Signal input and output connectors are also RFI shielded.

The AT-51 measures harmonic distortion, intermodulation distortion, volts, dB, signal to noise ratio, wow and flutter, stereo phasing, and differential gain in stereo channels.

FEATURES:

- * Separate generator and analyzer
- * Transformerless stereo outputs balanced or unbalanced
- * Source resistance of 150 or 600 ohms
- * Automatic signal leveling
- * Precision 10 dB, 1 dB and .1 dB step attenuators
- * RFI shielding
- * Automatic "set level" and "balance" circuits
- * Scope display of distortion products output
- * Output level monitor

Model	Description	
AT-51	Complete system including AA-51 and AG-51.....\$3575.00	ALLIED PRICE \$ _____
IX-51	Optional balancing transformer (ea.).....\$175.00	ALLIED PRICE \$ _____
AA-51	Analyzer only.....\$2125.00	ALLIED PRICE \$ _____
AG-51	Generator only.....\$1875.00	ALLIED PRICE \$ _____

POTOMAC PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

DIGIMAX



The Digimax Digital Frequency Counter meets or exceeds all FCC requirements.

SPECIFICATIONS

- FREQUENCY RANGE:** 20 Hz - 1.0 GHz
ACCURACY OVER TEMPERATURE: 0.1 PPM (+55 to 85 degrees F) proportional 10 mHz oven
- READOUTS:** Full 9 digits
SENSITIVITY: 5 to 50 mV from 50 Hz to 25 mHz
 15 to 50 mV from 25 mHz to 450 mHz
 50 to 75 mV at 1 GHz
- ACCURACY:** ±.1 Hz at 1 mHz
 ± 1 Hz at 10 mHz
 ± 100 Hz at 1 GHz
- POWER REQUIREMENTS:** AC-12 required for 110VAC.
 8-15VDC at 500 ma.

Order the package including D-1200-AC-12, BAC12 and TI200. Package includes AC adapter, rechargeable battery pack and antenna.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$352.00
ALLIED PRICE \$ _____

**DIGIMAX
LCD-1000**



The Digimax LCD-1000 is a 1 GHz frequency counter with LED resolution and .0001% accuracy. It has VHF-UHF sensitivity. Comes with Ni-Cad battery and AC adapter.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$189.00

ALLIED PRICE \$ _____

PA1300

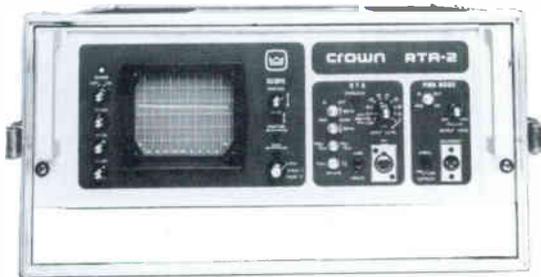


The Digimax PA1300 is a 33 dB preamp sniffer with a frequency range of 10 mHz to 1.3 GHz. Comes with sniffer probe and AD adapter.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$89.00

ALLIED PRICE \$ _____

**CROWN
RTA-2 AUDIO SPECTRUM ANALYZER**



The Crown RTA-2 is designed for audio-range real-time spectrum analysis in 1/3 and full octave bands. All the sub-systems needed to perform quick, accurate on-site equalization of sound-reinforcement systems are included in the RTA-2.

The Crown RTA-2 weighs only 22 pounds (39 with optional carrying case which qualifies as carry-on luggage for air travel, 50 in optional shipping container which is recommended for air travel as checked baggage).

MANUFACTURER'S SUGGESTED LIST PRICE.....\$2450.00
Cases optional at extra cost.

ALLIED PRICE \$ _____

“ONE STOP SHOPPING @ ALLIED”

WHITE INSTRUMENTS

151



The 151 is a compact battery powered digitally operated pink noise generator.

FEATURES:

- 268,000 bit word length
- Flat 20 Hz through 20 kHz
- Mic or line level output
- Rugged
- Inexpensive

MANUFACTURER'S SUGGESTED LIST PRICE.....\$140.00

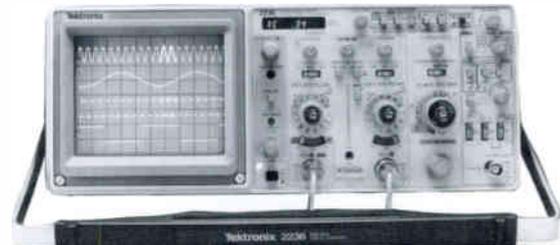
ALLIED PRICE \$ _____

TEKTRONIX

2235/2236



2235



2236

With the 2235 and 2236 oscilloscopes, Tektronix takes the high-value high-performance design concept of the 2200 Series even further. Both scopes feature a low price made possible by the 2200 Series' innovative, reduced-component architecture. (Yet both scopes offer advances in performance, operational simplicity and — not least — in solid reliability. All backed by the industry's first three-year warranty on all parts and labor, including the CRT.) The 2236 introduces a new concept in waveform measurement: a counter/timer/DMM, integrated into the scope's vertical, horizontal and trigger systems. Its capabilities simplify set-up, heighten measurement confidence and expand scope versatility in innumerable ways. The scope and DMM also can be applied simultaneously, with concurrent CRT and digital readout displays. DMM auto ranging simplifies set-up. An ohm-meter range of 2GΩ — a hundred times the range of most such devices — lets the technician quickly pinpoint even small amounts of transformer leakage. The 2235 ensures measurement quality and reliability while reducing instrument cost.

MANUFACTURER'S SUGGESTED LIST PRICE...2235.....\$1750.00
MANUFACTURER'S SUGGESTED LIST PRICE...2236.....\$2650.00

ALLIED PRICE \$ _____

GOLD LINE



The Gold Line Digital Model 30 Real Time Analyzer uses microprocessor technology allowing extreme accuracy and stability. Pink Noise: The Model 30 incorporates a pseudo randomly generated pink noise source. This stable display of equal energy across the entire audio spectrum makes equalization adjustments far easier.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1895.00

ALLIED PRICE \$

LOFTECH



The Loftech TS-1 provides a combination of three precision test instruments. This provides the user with a powerful tool that is capable of making audio frequency tests and measurements with a high degree of accuracy and in less time than conventional test instruments.

The TS-1 features a current controlled, state-variable oscillator. This is a true sine wave oscillator and not a function generator. Distortion components are typically 0.1%. Full frequency sweeps can be made from 20 Hz to 20 kHz in a single range. The output impedance is 50 ohms, unbalanced.

The frequency counter is internally connected to the oscillator until a signal is plugged into the meter input. It then displays the frequency of the input signal. The input impedance is greater than 100,000 ohms electronically balanced.

The TS-1 dB meter is a wideband, average responding AC voltmeter. The output of this meter circuit is electronically converted to decibels for display. The logarithmic nature of decibels eliminate the need for range switches. A reference level for "0 dB" is factory set for 0.775 v which can be user adjusted ± 10 dB with a rear panel control. The input impedance is greater than 100,000 ohms unbalanced.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$299.00

ALLIED PRICE \$

TEKTRONIX AA501/SG505



Used together, the AA 501 Distortion Analyzer and SG 505 Oscillator provide the *automatic* solution to your distortion measurement needs. The AA 501 is so automatic, that no level setting, tuning or nulling is necessary.

An optional package would be the SG 505 option 2 audio oscillator (balanced, +28 dBm, multi-impedance) and AA 501 option 1 distortion analyzer (level, THD, plus multi impedance) in the TM503 mainframe. Since the instruments are plug-in modules, a split-site station could mount the RTM 506 rackmount at the transmitter and either carry both instruments in the more portable TM 503 when testing individual items of equipment, or plug the analyzer into the rackmount and take the oscillator in the TM 503 to the studio for full system proofs.

The AA 501 and SG 505 combination permits harmonic distortion, intermodulation distortion, frequency response, gain/loss, and signal-to-noise measurements to be accomplished with minimal operator skill. At the same time, both instruments feature state-of-the-art performance in residual noise and distortion.

Total system harmonic distortion plus noise is .0025%. Oscillator distortion is .0008% (THD). Analyzer residual noise level is less than 3 microvolts. The AA 501 offers a novel analog-like "bar graph" plus complete digital readout, it reads true RMS or average response in all modes.

SG505 OSCILLATOR W/OPTION 2.....\$1525.00

AA501 DISTORTION ANALYZER....\$2400.00

ALLIED PRICE \$

2213A/2215A



With the 2213A and 2215A oscilloscopes, Tektronix continues a winning tradition: low cost value for performance that's best in its class. All backed by the industry's first 3-year warranty.

The new 60 mHz 2213A/2215A offer significant enhancements over the older 2213/2215A. You'll see brighter, crisper displays, thanks to reduced trace noise and to an increased accelerating potential of 14 kV. A 10 mHz bandwidth limit switch has been added to the 2213A/2215A, allowing crisper traces and cleaner triggering in noisy environments.

Both scopes feature full-size, 8 x 10 cm CRT's with camera bezel for easy viewing and photography.

The 2213A/2215A now offer improved trigger sensitivity to .3 div at 5 mHz (10 mHz for the 2235), for easy triggering and increased measurement confidence in everything from measuring power supplies to transistor noise. Using their single sweep trigger function, now standard on 2200 Series scopes, you can set up your scope to babysit signals, triggering only when a specified transient occurs. Single sweep trigger also provides an excellent way to set up your scope for photographing infrequent signals.

An improved delayed sweep allows you to make measurements with less jitter and more confidence: with a single time base in the 2213A; and with two time bases and alternate sweep switching in the 2215A. Using delayed sweep, you can examine any part of a waveform in the exacting detail you need.

Other 2213A/2215A enhancements include improved accuracy for both channels 1 and 2, opening a full range of sensitivities for making accurate X-Y measurements. And improved Z-axis input, allowing a usable 10 mHz bandwidth for applications requiring frequency markers.

Also added is a power-on light. Improved vertical and horizontal accuracy. Increased chop rate to 500 kHz. Reduced input capacitance to 20 pF. And much more.

2213A Oscilloscope....\$1275.00 • 2215A Oscilloscope....\$1525.00

TEKTRONIX PRICES ABOVE ARE MFR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE

STL



STL Test Tapes are recorded directly from precision generating equipment to provide the most accurate reference possible. An independent standards laboratory, STL provides a completely objective service, with test tapes available to major manufacturers, governments, and all who need a precision reference tool.

STL provides the following tapes:

REPRODUCE ALIGNMENT

Contains Azimuth tone, voice announced frequency run and level set tone.

PINK NOISE

20-20,000 Hz for phase alignment of multi-trak systems, and response check with 1/3 octave filters.

SWEEP

Log 100ms, 700-15,000 Hz with adequate dead section between sweeps to facilitate scope synchronization.

FREQUENCY CHECK

Contains 2-second spot check tones. No voice.

AZIMUTH

Single tone

LEVEL SET

Single tone

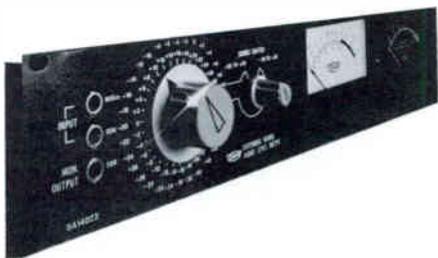
FLUTTER AND SPEED

A crystal controlled frequency source recorded at low flutter and accurate speed.

PRICES UPON APPLICATION STL LAB TAPE SALES ARE FINAL

McCURDY

SA14023



The SA14023 extended range audio level meter is a self contained instrument designed for the measurement of peak and average audio system transmission levels in dBm. A two position range switch and precision attenuator allow the accommodation of audio input levels from -50 dBm to +30 dBm, in 2 dB steps, for a zero meter reading (sine wave).

PRICES UPON APPLICATION

PPMO2



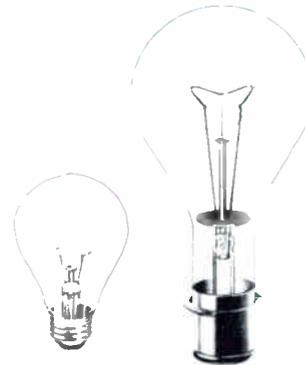
The PPM02 peak program meter is designed for peak audio level measurement in a wide range of broadcast and professional applications, in place of the conventional average-reading VU meter. Because of its peak reading characteristic, the PPM provides a much more accurate representation of the maximum audio level present than would a VU meter. Thus, allowing optimum performance of audio facilities to be realized by more precise control of levels and prevention of clipping and distortion due to line or equipment overload conditions.

As standard, the PPM is supplied with the McCurdy standard "C" scale, with an input level of +8 dBm giving a center scale reading. The British standard "B" scale and European standard "E" scales as well as input levels of -10 dBm, -6 dBm, -4 dBm, 0 dBm and +4 dBm for center scale reading are optionally available and must be specified when ordering.

PRICES UPON APPLICATION

TOWERS

DURO-TEST TOWER LIGHTING



You need rugged, dependable, long-lasting, quick-to-see bulbs where there are tall traffic hazards. The best bulbs that money can buy are built by Duro-Test.

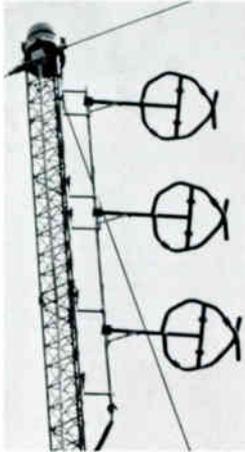
Model	Description	ALLIED PRICE \$
DT/682	BEACON PS-40 620 watt, mogul base, clear, 125/130 VAC, 10,500 lumens, rated 4500-5500 hours.....\$28.96	_____
DT/684	BEACON-40 700 watt, mogul base, duxex, clear 125/130 VAC, 11,200 lumens, rated 7500-8500 hours.....\$41.91	_____
DT/424	OBSTRUCTION A-21 116 watt, medium base, clear, 125/130 VAC, 1260 lumens, rated 7500-8500 hours.....\$4.15	_____

DURO-TEST PRICES ABOVE ARE MFRGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

**"ENTIRE CONTENTS COPYRIGHT
ALLIED BROADCAST
EQUIPMENT, INC."**

TRANSMISSION LINES

PI-ROD



- Solid rod, all-welded construction provides greatest strength with minimum surface exposure to wind and icing conditions. Slim Line design offers minimized air resistance.
- A complete line of standard (proven performance) models
- Computerized analysis of loading factors for structure conformity to meet and exceed customer specifications. Working with this data, licensed professional engineers review your specific requirements and determine the ultimate solution.
- Engineered concepts utilizing minimum space requirements. We design systems to meet critical space limitations, with 50% and small guy radii available.
- Minimized interference with reduced face width design improves transmission...another PI-ROD engineering innovation.

PRICES ON APPLICATION

UNION METAL



Pole and accessories assembled on ground prior to erection.



Pole in position to be lowered on plumbing nuts.

- No guy wires required
- 25'-300'
- Also suitable for top-mounting FM antennas on towers

CONTACT ALLIED FOR PRICING

CABLEWAVE



Cablewave Systems semi-flexible coaxial cables are used in electronics and communications systems operating from VLF through the microwave frequency bands. Since each basic cable construction offers specific advantages, the company manufactures both smooth wall aluminum and corrugated copper coaxial cables in foam and air dielectric. This allows the user engineer to consider technical and economic factors for each type, and select the best construction for his requirements. Cables are cut to length and connectors factory attached upon request. ALLIED CARRIES THE COMPLETE CABLEWAVE LINE, INCLUDING CONNECTORS.

PRICES UPON APPLICATION

ANDREW



For more than 40 years, Andrew has offered a comprehensive line of broadcast products. These include both foam and air dielectric HELIAX™ flexible coaxial cables, rigid line components, pressurization equipment and installation accessories. Detailed information on the Andrew line of products is available upon request. ALLIED CARRIES THE COMPLETE ANDREW LINE.

PRICES UPON APPLICATION

ALLIED JUMPER CABLES



Prefabricated N to N cables cost less than your labor and materials. Allied jumper cables feature RG-213U coaxial cable, N-Male connectors with shrink-tube weatherproofing. Special lengths available on request. 7.8 dB loss per 100 feet at 900 MHz.

Model	Length	
213NN-2	2 ft.	\$10.00
213NN-12	12 ft.	\$13.85
213NN-15	15 ft.	\$14.39

OTHER LENGTHS UPON APPLICATION

TRANSMITTING EQUIPMENT

MOTOROLA



In the MOTOROLA C-QUAM AM STEREO SYSTEM, as in present AM broadcast standards, the angle modulated carrier is amplitude modulated with the sum of the audio information present in the program source. Thus to a monophonic receiver, the signal is no different from the signals being received under the present standards. This sum signal is comprised of two signals, left (L) and right (R).

To provide stereophonic information, angle modulation results from straight forward quadrature modulation followed by limiting. That is the monophonic (L + R) provides in-phase modulation while (L-R) provides quadrature phase modulation. The limiter assures constant level exciter drive to the transmitter.

A separate signal, a 25 Hz pilot tone, is added to the quadrature difference (L-R) signal for indicating the presence of a received stereophonic broadcast.

Existing AM broadcast transmitters may be used with relatively simple and inexpensive modifications.

Model	Description
1300	C-Quam AM Stereo Exciter &
1310	C-Quam AM Stereo Modulation Monitor...\$11,700.00
	Day/night 2 transmitter option board.....\$1000.00

These single-tube FM transmitters incorporate a unique folded half-wave dipole cavity power amplifier design, a digitally programmed FX-30 ultra-linear exciter and a microprocessor based control system.

The high power cavity employs a half-wavelength folded tank circuit. This cavity design eliminates the need for a plate blocking capacitor and all sliding contacts. The result is much higher reliability, higher efficiency, and lower maintenance costs.

The grid input circuit optimizes the impedance transformation between the solid state driver and the power tube grid.

All transmitter control and status functions are performed by the built-in microprocessor based controller. This controller is the "brain" that monitors the operating parameters and then determines what control actions are required. By its continuous scanning action, it provides 127 different status indications, including 123 codes on two large seven segment LED displays.

Broadcast Electronics FM transmitters also feature automatic restart, separate* high voltage power supplies, extensive metering and remote control capability.

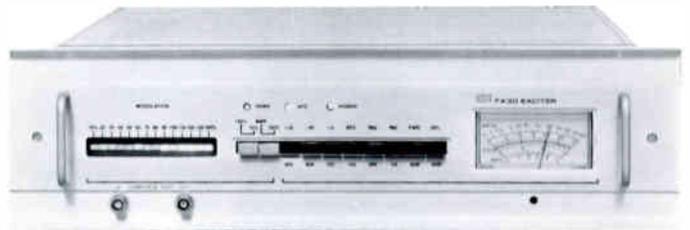
(* certain models)

Model	Description
FM 1.5A	One tube 1500 watt transmitter complete with FX-30 exciter.....\$22,950.00 ALLIED PRICE \$ _____
FM 3.5A	One tube 3500 watt transmitter complete with FX-30 exciter.....\$27,950.00 ALLIED PRICE \$ _____
FM 5A	One tube 5000 watt transmitter complete with FX-30 exciter.....\$29,950.00 ALLIED PRICE \$ _____
FM 30	One tube 30,000 watt transmitter complete with FX-30 exciter.....\$61,950.00 ALLIED PRICE \$ _____

All BE 30 transmitters must be used only with closed delta or WYE 3- or 4- wire to validate warranty.

BROADCAST ELECTRONICS PRICES ABOVE ARE MFR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

FX-30



The heart of any Broadcast Electronics FM Transmitter is the FX-30 synthesized exciter.

This solid state exciter is completely broadband and requires no tuning adjustments for a conservative 30 watt output. With 30 watts output, this is all the drive power required.

The FX-30 is mounted on a slide-out assembly making all components accessible for easy servicing.

The FX-30 accepts multiple wideband composite inputs as well as a 600 ohm balanced input. When used for wideband, stereo or monaural operation, the FX-30 exciter produces a distinctively clean and superb FM sound.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$5595.00

ALLIED PRICE \$ _____

BROADCAST ELECTRONICS

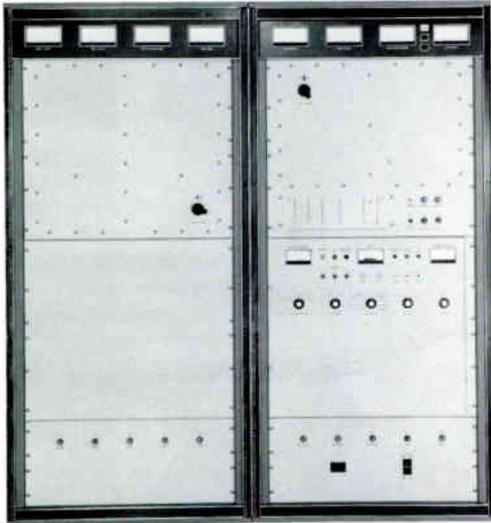


FM-30



FM3.5

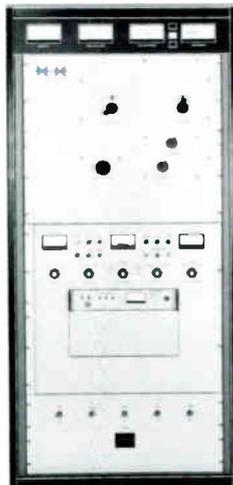
**ELCOM BAUER
AM TRANSMITTERS**



- * 125% positive peak capability
- * Stable high level plate modulation
- * Three tube types
- * Plug in solid state low level audio and RF driver stages
- * Adaptable for AM stereo
- * Oil-filled modulation transformer
- * Two ovenless crystals (switchable)
- * Unexcelled accessibility
- * Remote ready-wire or STL
- * Interface for standard telemetry control equipment
- * Step start
- * Three step overload
- * FCC primary circuits metered and continuously monitored
- * Secondary operating parameters with multimeter readout
- * Front panel circuit breakers
- * Fuses with fault indicators
- * Tally light fault indicator with memory system
- * Remote resettable fault indicator
- * Automatic return to air after power failure
- * Available medium wave, 250 watts to 50,000 watts
- * Available high frequency, 500 watts to 15,000 watts

PRICES UPON APPLICATION

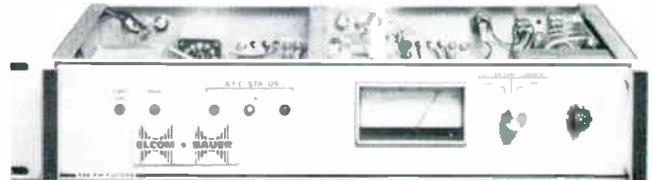
FM TRANSMITTERS



- * Solid State direct FM phase lock loop exciter
- * AFC status indication
- * Grounded grid power amplifier
- * No neutralization required
- * VSWR protection
- * Automatic power output control
- * Remote ready-wire or STL
- * Interface for standard telemetry control equipment
- * ATS interface
- * Built-in standby, many models
- * Front panel circuit breaker
- * Fuses with fault indicator
- * Three tube types
- * FCC primary circuits metered and continually monitored
- * Secondary operating parameters with multimeter readout
- * Solid state timing-diode logic and relays
- * Tally light fault indicator with memory system
- * Tuning controls with counter indicators
- * Unexcelled accessibility
- * Available 250 watts to 54,000 watts

PRICES UPON APPLICATION

690PLL



The 690PLL Exciter from Elcom Bauer combines all of the high-performance, high reliability features most wanted by FM broadcasters.

Frequency stability is excellent: ± 300 Hz, with ± 100 Hz typical. Noise and distortion levels are very low. 690PLL accepts signals from monaural programming, composite signal sources, and SCA generators. It is compatible with, and will enhance, any audio processing system.

Frequency modulation is direct, and incorporates phase-locked loop technology. Power supplies are controlled by integrated circuit voltage regulators for stability and reliability.

Output frequency range is 88 MHz to 108 MHz, programmable in 100 kHz steps. RF power output is 1 to 15 watts, continuously variable.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$2850.00

ALLIED PRICE \$ _____

ALLIED CARRIES THE COMPLETE ELCOM BAUER LINE OF TRANSMITTERS

POWER PAK

SMX-40

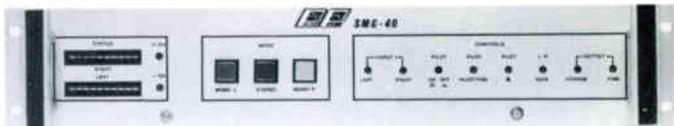


The SMX-40 is a full frequency synthesized world class FM exciter with up to 30 watts of absolute RF drive power, extensive status indications and protection. The SMX-40 rivals all competitive exciters available at any price.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$3995.00

ALLIED PRICE \$ _____

POWER PAK SMG-40 STEREO GENERATOR



The perfect complement to the SMX-40, this high-tech generator assures transparency and transmission quality with the performance characteristics to meet the stringent demands of today's high quality FM transmission equipment.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1895.00

ALLIED PRICE \$ _____

CSI AM & FM TRANSMITTERS



T-5-F



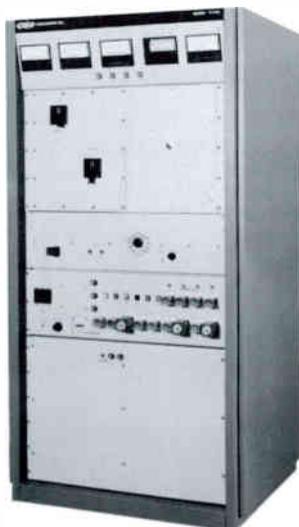
T-1-F

CSI transmitters feature excellent design, economy, and ease of maintenance. FM levels from 1,000 to 50,000 watts feature proven grounded grid circuitry.

AM transmitters are straightforward and dependable. Powers from .25 to 50 kw.

You'll find CSI transmitters efficient, dependable, and economically priced.

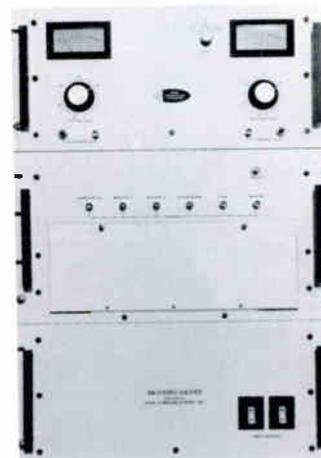
A complete selection of accessories will permit you to custom modify the CSI transmitter of your choice to your exact requirements.



T-1-A1

CALL FOR TODAY'S ALLIED PRICE

KAHN



The Kahn/Hazeltine patented AM Stereo System brings the advantages of Stereo transmission to the AM broadcasting industry.

Now, after 20 years of research, the AM Broadcaster may transmit Stereo programs with any conventional AM transmitter. Furthermore, true STEREO reception can be achieved by the use of two standard AM receivers, even inexpensive portables. This type of signal is completely compatible with all types of monophonic receivers and full mono coverage is guaranteed. Broadcasters have reported to the FCC that their stereo coverage equals 100% of their normal mono range.

The Kahn/Hazeltine Stereo has the unique advantage that the public has nothing to buy to be introduced to stereo reception on the widest possible scale prior to listeners purchasing new Stereo receivers.

The Kahn/Hazeltine system causes your two sidebands to be independently modulated by the left and right stereo channels. The resulting wave has essentially the same spectrum occupancy as conventional AM and is theoretically free of envelope distortion.

PRICES UPON APPLICATION

MODULATION SCIENCES



The CP-803 Composite Processor corrects the distortion that conventional processors sometimes create. Conventional audio processors work with the left and right audio. But the CP-803 deals with the stereo composite signal that comes out of the stereo generator.

This baseband signal is made up of the L + R main channel, the 19 kHz pilot and the L-R subcarrier. By working on this signal instead of left and right audio, many audio problems are avoided.

The CP-803 gives you the few dB of loudness with no audible increase in distortion. The amount of free dB's you obtain depends on the pre-processing of the audio before it reaches the unit. The less pre-processing beforehand, the more you get from the CP-803. RACK MOUNT IS EXTRA.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$889.00

ALLIED PRICE \$ _____

BIRD



The first of a new series of dry, forced air cooled high power Load Resistors, model 8572 is a well-matched termination for 50 ohm rigid line systems to 25,000 watts for testing and alignment of transmitters. The RF power is dissipated in a large number of rugged parallel/series connected resistor elements, which not only provide an extensive total surface for heat transfer, but assure that the Load is not rendered inoperative due to the unlikely failure of one or two of the elements.

The outer conductor is designed not only for lower VSWR over a much wider band of frequencies than is typical for this type of termination, but also with advance fluid dynamics for lower operating noise.

Adjustments and tests to transmitting equipment require the measurement of power dissipated in the Load. Because the design of the new model 8572 makes its input connector the coolest part in operation, a Thru-line® Wattmeter can be safely and conveniently bolted right to the termination.

As a dry Load, model 8572 is very nearly maintenance-free, and presents fewer problems, should servicing ever become necessary. The units are repairable in the field. A special option permits ducting hot air away from the Load, and out of your work environment.

PRICES UPON APPLICATION **15KW model now available**

8645



- * Power rating 25 kW continuous duty up to 900 mHz
- * Weight 155 lbs
- * Distilled water or Ethylene Glycol
- * 10 kW and 80 kW in this series plus 2½ to 7 kW dry loads and Econo wet loads up to 80 kW.

PRICES UPON APPLICATION

BIRD ELECTRONICS



Bird Electronics known for accuracy for more than a quarter of a century, offers Thru-line® RF directional watt meters, RF load resistors, up to 80 kW and Watcher® protection systems.

ALLIED CARRIES THE ENTIRE BIRD LINE

ELECTRONIC RESEARCH



ERI isolation transformers are designed to couple the FM power across the base insulator of a transmitting tower used jointly for AM or FM antennae without introducing objectionable mismatch into the FM feed line.

An isolation transformer is highly desirable for feeding high impedance AM radiators or AM radiators which are part of an AM directional array which might be adversely affected by a "bazooka" isolation system. Captive bullets in and out.

Model	Description	Price	Allied Price
403	10 kW, 1 5/8".....	\$2200.00	ALLIED PRICE \$ _____
403A	10 kW, 3 1/8".....	\$2400.00	ALLIED PRICE \$ _____
425	25 kW, 3 1/8".....	\$6133.00	ALLIED PRICE \$ _____
426	40 kW, 3 1/8".....	\$6533.00	ALLIED PRICE \$ _____
427	50 kW, 4 1/8".....	\$8000.00	ALLIED PRICE \$ _____

ERI PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

"DISCOUNTS ARE AVAILABLE ON MOST EQUIPMENT"

KINTRONICS FMC SERIES ISOCOUPERS



The use of these units at the base of an AM tower permit the installation of an FM antenna and connecting transmission line on the tower without requiring insulation and tuning of the transmission line. Since the shunting capacity of these units across the base insulator of the AM tower is less than 150 pf, the effect on the base input impedance of the tower will be negligible for most single radiators or directional elements. The transmission line may be fastened to the tower for its full length permitting the tower to operate with normal radiation characteristics. Many of these isocouplers are now in service at permanent installations having stereo operation and judged by the user to be of superior quality. 4 units available from 10 watts through 30 kilowatts.

Kintronics also offers sampling and transmission coaxial cables, control circuit cables, copper wire and strap, common point bridge, antenna phase monitors, and remote control and phasing systems.

PRICES UPON APPLICATION

DELTA



C-QUAM AM STEREO Generator/Monitor. Price includes installation and day/night switch.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$11,700



The 6700 series of Coaxial Transfer Switches provides the engineer with the capability to switch between transmitters, antennas, or dummy loads with a minimum of off-the-air time. Both models can

be operated by remote control or manually. Remote operation can be achieved using either 120V or 220/240V, 50/60 Hz. The transfer switch is fully interlocked with two isolated interlock circuits that duplicate the RF path exactly. The 6730/6732E is a 1-5/8 inch switch. The 6740B/6742B is a 3-1/8 inch switch and may be pressurized up to 16 lb./sq. in. A gas barrier is built into each terminal, and an air inlet port is also provided in the 6740B/6742B model.

PRICES UPON APPLICATION

ELECTRO IMPULSE



DPTC 50KFM

DPTC 10KFM

The Electro Impulse product line of loads includes many state-of-the-art designs. They pioneered the development of dry, forced air cooled loads for use up through FM frequencies, which are now extremely popular in the broadcast industry.

Their DACT series of loads was the first dry, convection cooled series with power ratings up to 25 kW average power. Both of these types of loads are very popular as the availability of water for load cooling decreases.

Electro Impulse water cooled coaxial load resistors offer exceptionally low VSWR and have the distinct advantage of a field replaceable resistor element. The CLW series loads are provided with a spare resistor which can be easily replaced in the field.

DC loads for high voltage use can be custom made to your specifications. These loads include built in test circuit, low level sampling outputs and other logic circuits. They contain the equivalent of numerous loads and are liquid cooled.

ELI offers RF coaxial loads with oil dielectric, twin line loads in a balanced input configuration, coaxial water loads, waveguide coaxial water loads, dry baluns, calorimeters, automatic test equipment, high power RF attenuators, RF power meters, in-line directional wattmeters and special cooling systems.

PRICES UPON APPLICATION

**“PRODUCT AND SERVICE
FOR THE INDUSTRY”**

MCI



Micro Communications Incorporated offers a wide range of products and services for the broadcast industry. The MCI product line includes complete RF systems, rectangular and circular waveguide transmission line systems, VHF, UHF, LPTV, MDS and ITFS combiners, multi-channel TV and FM combiners, VHF, UHF, LPTV, FM, MDS and ITFS diplexers, filters, directional couplers, loads, hybrids and switching systems.

PRICES UPON APPLICATION

COMARK ANTENNAS



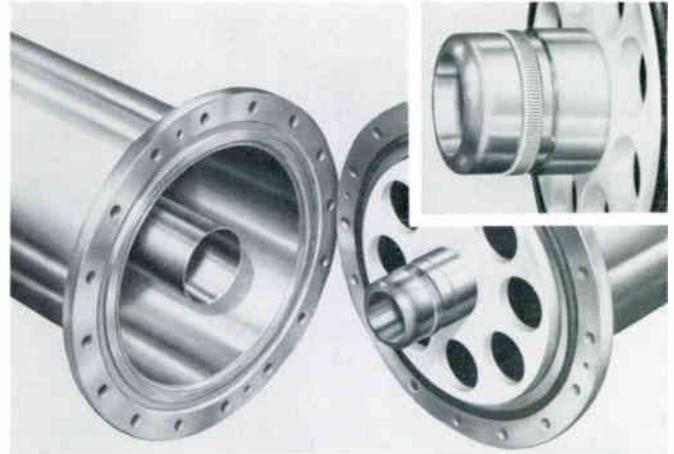
The Comark series of FM circularly polarized antennas utilize identical radiating elements for both the lower power and high power series. The low power series utilizes 1 5/8" feedlines while the high power series uses 3 1/8" feedline. Both series of antennas are available in systems that incorporate 1 to 14 elements. Normally, systems with 8 or less elements are fed at the bottom, while above 8 the system is center fed. This series is basically a 1 1/2 turns helix separated one wavelength apart. The radiation centers of both the vertical and horizontal components are identical, thus the FM antennas are one of the few antennas with the phase coincidence so essential for true circular polarization. De-icers are available.

Comark educational antennas utilize the same basic design as the high and low power models. However, due to their low power requirements, the radiating elements are constructed from a single piece of 7/8" stainless steel tubing. Educational antennas come complete with flexible coaxial interconnect cables and mounting hardware.

PRICES UPON APPLICATION

**"THE FIRST FAMILY OF
BROADCAST EQUIPMENT"**

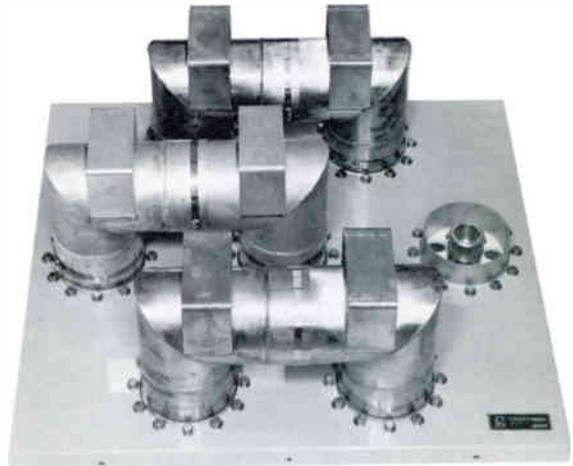
COMARK ACCESSORIES



Comark rigid coaxial transmission line provides outstanding features such as constant impedance, high power capacity, and low insertion loss. Sizes to 8 3/16" Heliarc-welded flanges and wrist band bullet construction 3 1/8" and above.

PRICES UPON APPLICATION

PATCH PANELS



Coaxial patch panels are available in all standard transmission line sizes in three, four, five and seven port standard configurations. The patch link construction allows the patch link to self align with the panel ports for ease of operation.

PRICES UPON APPLICATION

COAXIAL TRANSFER SWITCH



Low VSWR and low insertion loss combined with maximum isolation make Comark coaxial switches the ideal instrument for routing RF, especially in remote control applications. The positive action switching solenoid may be remotely controlled or overridden manually.

PRICES UPON APPLICATION

JAMPRO



Jampro offers the CETEC line of broadcast antennas.

The Cetec JSCP Series B FM broadcast antennas offer rugged construction, low wind loading, excellent performance for stereo, SCA broadcasting, excellent VSWR bandwidth, true circular polarization, and are available with from 1 to 16 bays with de-icers and radomes.

The JBCP series is a circularly polarized FM antenna designed for applications requiring relative insensitivity to icing along with high antenna input power. The JBCP antenna will handle up to 40 kW per bay and up to 120 kW per system depending upon the number of bays, shunt line size and input connector. The JBCP is available with from 1 to 8 bays.

The JLCP series 2 gives the Class A station several good choices. Power rating is 3 kW per bay or maximum 7.5 kW above two bays. Standard or radome cover is provided if needed, at extra cost.

The JLLP series elements are cable fed from a central power divider. They are rated at 1 kW per bay and provided as a standard antenna or with de-icers, at extra cost.

PRICES UPON APPLICATION

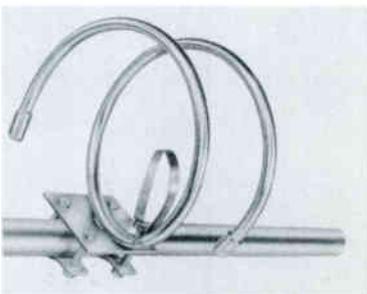
CELWAVE



Celwave circularly and horizontally polarized antennas are available with any combination of null fill and beam tilt. The high power and low power antennas utilize identical radiating elements.

The low power series utilizes 1 5/8" feedline, the high power series 3 1/8" feedline.

Both series of antennas are available in systems which incorporate 1 to 16 elements. Normally systems with 8 or less elements are bottom-fed, with 8 or more elements, center-fed. De-icers are available.

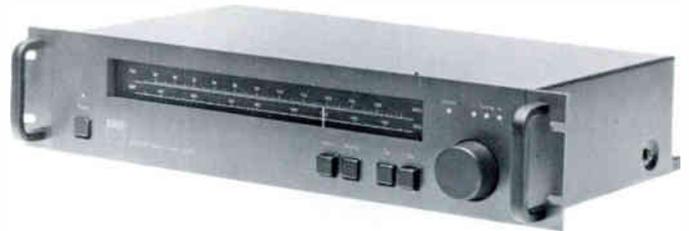


Educational FM antennas differ from the commercial versions in that they are fabricated of 7/8" stainless steel tube and due to lower power requirements are fed with flexible solid dielectric cables.

PRICES UPON APPLICATION

TUNERS

NAD 4020A



A sensitive, low distortion, high performance AM-FM tuner with a minimum of frills. In real use conditions the 4020A equals the performance of many tuners costing two or three times more.

- * 1.8 microvolt (10.3dBf) IHF sensitivity
- * 50 dB quieting sensitivity: 16 dBf mono, 38.3 dBf stereo
- * 70 dB S/N ratio in stereo, 75 dB in mono
- * Selectivity 62 dB, alternate channel
- * Dual-gate MOSFET front end, phase-locked loop multiplex

decoder

RACK MOUNTS EXTRA & ARE LESS HANDLES

MANUFACTURER'S SUGGESTED LIST PRICE..... \$178.00

ALLIED PRICE \$ _____

PROTON



The RADIO from Proton is unlike any other radio in history! What other radio has two amplifiers, one for treble, one for bass? To achieve uncompromising fidelity with plenty of power the RADIO employs two separate amplifiers with a total of 25 watts. Such bi-amplification is an unusual feature even in large audio systems, let alone a monitor.

The FM tuner section offers 1 uv sensitivity, greater than 40 dB separation, 1 dB capture ratio, greater than 60 dB selectivity, 80 dB mono, 77 dB stereo signal to noise ratio, THD less than .1% mono/.15% stereo, greater than 60 dB of AM suppression, JFET RF amplification, digital tuning display and PLL tuning.

The AM tuner section features 250 uv sensitivity, 30 dB of selectivity, PLL tuning, and digital tuning display.

The RADIO from Proton, a cut above the rest at a down to earth price. RACK MOUNTS ARE EXTRA.

MANUFACTURER'S SUGGESTED LIST PRICE..... \$280.00

ALLIED PRICE \$ _____

**“PROFESSIONAL PEOPLE,
SALES, SERVICE
& PRODUCT”**

TUNERS / TURNTABLES

CROWN

FM THREE



The Crown FM Three uses a true digital detector section tuner which cannot go out of alignment, drift with age, or add mis-tuning distortion; thus providing outstanding performance in the AM and FM bands. It also incorporates a new Dual-Quartz system for improved signal-to-noise ratio, a toroidal transformer for reduced hum and noise, a "scan level" control for tuner strength prior to scan stop and look. Also includes six each AM and FM presets, a multipath indicator and a calibrated signal-strength indicator.

MFG'S SUGGESTED LIST PRICE (less cabinet).....\$795.00

ALLIED PRICE \$

TURNTABLES

KEITH MONKS

MKII PROFESSIONAL



The Record Cleaning Machine is a tried and tested product which is used by broadcasting authorities and record libraries all over the world.

It is only advisable to clean a record with the Keith Monks record cleaning machine every 15 — 20 playings.

Records are cleaned using a mixture of 50% distilled water and 50% industrial methylated spirits which will remove grease, hardened sludge and loosen embedded grit. The drying process removes all traces of the cleaning liquid along with the foreign material leaving the record clean and dry.

During the process, the turntable revolves at speed and the liquid solvent is applied by swinging the brush over the record and depressing the applicator plunger. Having thus wetted the record, dissolved the grease and loosened any embedded material, the suction arm is simply moved to the centre of the record. As the liq-

uid on the record is moving to the edge, it is advisable to vacuum from the centre outwards rather than inwards. As it passes over the surface the suction removes all liquid along with the suspended foreign matter. The whole process can be completed in about 1 1/2 minutes per side of record.

SPECIFICATIONS:

SIZE: 16 1/2" x 19" x 18"

NET WEIGHT: 65 lbs

MFGR'S SUGGESTED LIST PRICE.....\$1295.00

MARK 3 PROFESSIONAL



Double Deck Version

The Studio Mark 3 double record cleaning machine is designed for the user with regular cleaning of quantities of records. The twin decks enable one record to be cleaned while the other is being dried. Records can be cleaned twice as quickly with the double machine.

There are 2 applicators and cleaning brushes and the suction arm is switched to operate on either turntable.

The arm reverse switch has 3 positions, the center is in the off position, the left side operates the left turntable while the right side operates the right turntable. Larger versions are made to special order.

SIZE: Height 14 1/4"; Width 29 1/4"; Depth 18 3/4"

NET WEIGHT: 96 lbs

VOLTAGE: 115 volts A.C. 60 cycles

MFGR'S SUGGESTED LIST PRICE.....\$1781.00

DISCWASHER



Some of the standard products for record care in broadcast facilities is the DISCWASHER line.

Model	Description	
Cleaning system.....		\$16.50
Disckit.....		\$55.00
ZeroStat	Destaticizer.....	\$23.00
Fluid	16 oz.....	\$17.00
	6 oz.....	\$10.00
	1.25 oz.....	\$2.50

TURNTABLES

TECHNICS

SP-15



- * Setting high standards for professional performance and flexibility.
- * Quartz Synthesizer Pitch Control in 0.1% steps up to $\pm 9.9\%$ at all three standard speeds-with digital display
- * Instant starts (0.4 sec.) (About $\frac{1}{3}$ revolution)
- * Heavy duty construction stands up to long term professional use
- * Three precision speeds, $33\frac{1}{3}$, 45 and 78.26 rpm make this unit perfect for all phono reproduction applications.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$700.00

ALLIED PRICE \$ _____

SP-25



The SP-25 offers you a high professional standard of excellence, plus the kind of flexibility and convenience that is important for any use. Features include total quartz-locked pitch control within $\pm 6\%$ range from rated speeds, full cycle detection FG, extremely high torque for fast starts and load stability, large turntable platter with extra-high moment of inertia, electronic braking system, integral rotor/platter motor construction, and high effective damping.

- * 45 and 33 rpm
- * about $\frac{1}{2}$ revolution to full speed

MANUFACTURER'S SUGGESTED LIST PRICE.....\$400.00

ALLIED PRICE \$ _____

SP10-MK II



The first with instant torque and no rumble. The world's best and most desired professional turntable. Used by 80 of the 100 top U.S. Radio Stations.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1100.00

ALLIED PRICE \$ _____

SP10-MK III



The SP-10 MK III is the most advanced quartz synthesizer DD turntable from Technics, the acknowledged hi-fi turntable leader. Both specifications and sound quality reveal that the SP-10 MK III extends the frontiers of excellence. For example, starting torque is 16 kg/cm and only one quarter of a second is required to reach rated speed. Moment of inertia is 1.1 ton/cm, wow and flutter is 0.15% WRMS, rumble is -92 dB (DIN-B), and quartz locked pitch is adjustable in 0.1% step increments or decrements up to $\pm 9.9\%$. For serious professionals, this is the turntable by which all the others must be judged.

A separate control unit houses the power supply and all circuitry except the motor itself, thereby assuring more reliable operation with freedom from noise. On the smoked acrylic front panel are high visibility LED displays (speed and pitch setting) as well as the on/off switch and soft touch switches for speed selection and pitch control (with tactile switch feel). Start/stop and speed selector switches are provided on the turntable itself as well.

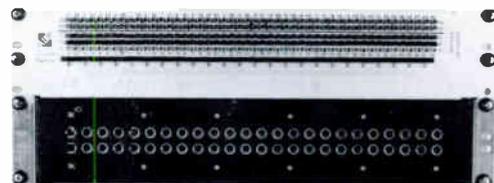
MANUFACTURER'S SUGGESTED LIST PRICE.....\$1700.00

ALLIED PRICE \$ _____

ADC PRO-PATCH/ULTRA-PATCH



ADC's new Pro-Patch jackfield is truly state-of-the-art. Incorporating the split cylinder contacts. Pro-Patch units are reusable and especially suited for remotes, special broadcasts and advance builds. With the ability to change circuits and normalizing configurations in seconds. Pro-Patch jackfields provide the ultimate in time and labor savings, flexibility, and ease of installation and maintenance.



Ultra-Patch panels, another innovative product utilizing ADC's split cylinder technology, were designed to provide yet another set of options for audio patching and interconnect requirements.

Ultra-Patch panels can be terminated at the factory to any of ADC's standard or custom jackfields and may be rack or wall mounted. Accessory brackets are available for racks with nonadjusting rear supports as well as for wall mount applications. Cable troughs, front and rear, provide for a clean and professional look for any system. Ultra-Patch panels are available separately.

PRICES UPON APPLICATION

TURNTABLES

SONY



The CDP-3000/CDS-3000 is a modular professional compact disc player system with unsurpassed quality music which is brought to life with stunning clarity and realism. It allows instant and programmed play with the extra convenience of controlling tow CDP-3000 players. The control unit is independent of the player(s) — only a single cable is required for control interface. All controls and indications, except the eject button, are functionally arranged on the desk-top control unit. The player(s) is exceptionally compact. Its front loading design permits mounting of two units side by side in a standard 19" rack. It features 10-key direct access and bi-directional search, programmed play, flexible monitoring, digital time display, remote start/stop.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$5400.00

ALLIED PRICE \$ _____

RUSSCO STUDIO PRO



- * Unit is powered by a heavy duty Bodine synchronous motor
- * 2 speeds 45 and 33 rpm

MANUFACTURER'S SUGGESTED LIST PRICE.....\$479.00

ALLIED PRICE \$ _____

CUE MASTER



- * The unit is powered by a heavy duty Bodine synchronous motor.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$425.00

ALLIED PRICE \$ _____

MARK V



The Russco Mark V offers precision variable $\pm 10\%$ at 33 or 45 rpm. The Mark V is instant starting, less than one inch back cue required at 45 rpm. There's more good news...remote start and stop and digital speed readout.

This dandy RUSSCO RUGGED low profile turntable also features an attractive antique silver no mar finish that makes the studio deluxe.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$756.00

ALLIED PRICE \$ _____

RTQ-7



The new RUSSCO direct drive turntable is equipped with a unique magnetic induction braking system which disengages automatically after bringing the platter to a stop. Speed controls use quartz synthesized PLL techniques. All controls are on a slanting front panel within view of the operator.

FEATURES:

- * Direct drive turntable
- * Outer rotor AC motor, amplitude modulated with PLL servo circuit
- * Turntable platter moment of inertia is 79.6 pounds
- * 3 pounds starting torque
- * .1909 seconds start up time at 33 $\frac{1}{3}$ rpm, .2581 seconds at 45 rpm
- * .025% WRMS wow and flutter
- * -70 dB (DIN 455398) rumble

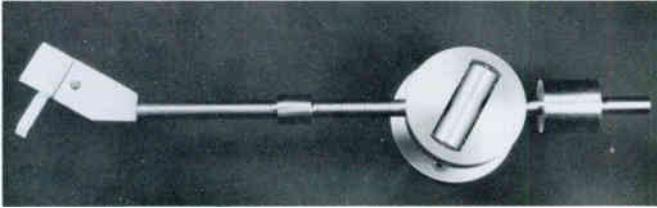
MANUFACTURER'S SUGGESTED LIST PRICE.....\$850.00

ALLIED PRICE \$ _____

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EQUIPMENT, INC.”**

TURNTABLES

RUSSCO RTA-12 TONE ARM

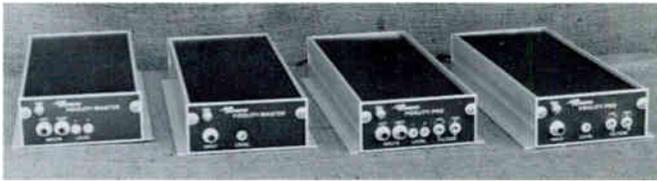


- * Rugged aluminum and chromed brass construction
- * Length: 13"
- * 5 grams maximum tracking force
- * 1 gram minimum tracking force
- * less than 2 degrees tracking error
- * Range of height adjustment is 1.8"
- * Mounting flange diameter: 2.74"
- * Mounting hole diameter: 7/8"
- * Distance from arm pivot point to turntable spindle: 8.31"
- * 4" overhang from pivot to rear
- * Cable capacity: 135 pf
- * Shipping weight 3 lb.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$199.00

ALLIED PRICE \$ _____

FP SERIES TURNTABLE PREAMPS



Mono or stereo versions available with balanced or unbalanced output. The FIDELITY-MASTER series offers RIAA equalization. The FIDELITY-PRO units feature switchable high and low frequency filters. The balanced output models include highest quality transformers for true line isolation.

Model	Description
FPMU	mono unbalanced 600 ohm output.....\$172.00
	ALLIED PRICE \$ _____
FPMB	mono balanced 600 ohm output.....\$205.00
	ALLIED PRICE \$ _____
FPSU	stereo unbalanced 600 ohm output.....\$257.00
	ALLIED PRICE \$ _____
FPSB	stereo balanced 600 ohm output.....\$309.00
	ALLIED PRICE \$ _____

RUSSCO PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

PHONO MATE TURNTABLE PREAMPS



Consider these value-packed features of the PHONO-MATE Pre-Amps:

- * Full solid-state circuitry

- * Lots of headroom at +16 dBm
- * RIAA equalization
- * Mono or stereo versions are available with balanced or unbalanced output
- * The balanced output models include highest quality transformers for true line isolation

Model	Description
1U	unbalanced mono 600 ohm output.....\$96.00
	ALLIED PRICE \$ _____
1B	balanced mono 600 ohm output.....\$113.00
	ALLIED PRICE \$ _____
2U	unbalanced stereo 600 ohm output.....\$148.00
	ALLIED PRICE \$ _____
2B	balanced stereo 600 ohm output.....\$177.00
	ALLIED PRICE \$ _____
PS	external power supply.....\$68.00
	ALLIED PRICE \$ _____

RUSSCO PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

REVOX B225



In designing the B225 CD-Player, REVOX has clearly demonstrated the development and production experience which has made the company world famous as audio specialists.

Almost every conceivable feature has been realized by REVOX: professional programming capacity with 19 program steps, extremely short cueing times, calibration tone for adjustment of system levels, adjustable headphones output and two audio outputs. The "oversampling" technique developed in Europe, eliminates distortion of frequencies above half of the sampling rate without affecting phase relationship and guaranteeing highest sound resolution.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1150.00

ALLIED PRICE \$ _____

APT-HOLMAN P2



Apt has successfully created the P-2 pre-amplifier as a modest priced unit, combined with practical and simple controls, making it the logical choice for audiophiles and music lovers for long-term value. It contains current state-of-the-art circuitry technology plus features such as quiet moving coil, dedicated phono balance, "digital-ready" dynamic range, precise infrasonic filtering, stepped volume control, stereo image control & tone control, full-mute switch. RIAA equalization accuracy of ± 0.2 dB. Optional rack mounts are available.

MANUFACTURER'S SUGGESTED LIST.....\$450.00

ALLIED PRICE \$ _____

**HENRY
REMOTE CONTROL INTERFACE**



The universal turntable controller (UTC) by HENRY is a remote control interface device that allows full remote control of popular direct-drive turntables, such as Technics SP10, SP15, and the new Russco RT-700. The UTC easily connects to the turntable with just three wires, and provides CMOS/contact closure compatible outputs for separate START and STOP switches plus RUN and STOP tally lamps. The turntables own start/stop switch can still be used for cueing records, and the UTC always stays in SYNC with the turntable. One UTC will control two turntables.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$195.00

ALLIED PRICE \$ _____

**BROADCAST ELECTRONICS
12C-U**



The QRK 12C is a three speed, rugged, reliable turntable which can come up to speed in a fraction of a second, but can still operate free from rumble, wow and flutter.

Outer rim drive has been demonstrated by QRK in over 34 years of usage as the best method for achieving "instant start" with a minimum of vibration effects. Center hub drive does not have the mechanical advantage of outer rim drive, it requires substantial motor with attendant isolation problems. ALLIED CARRIES THE ENTIRE BROADCAST ELECTRONICS LINE.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$350.00

ALLIED PRICE \$ _____

S-320 TONE ARM

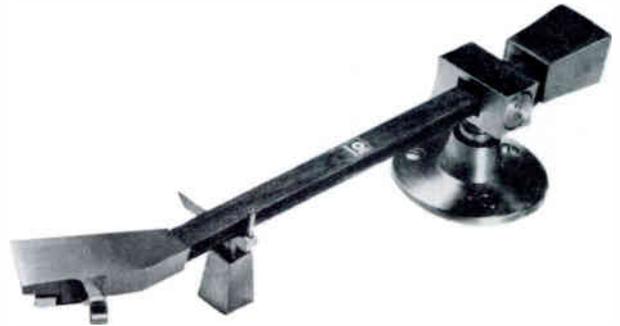


This attractive tone arm is constructed of tubular aluminum with a die-cast cartridge shell, that accepts all standard stereo or mono cartridges. It has a vertical height adjustment and friction-free chrome steel ball vertical movement. It tracks at 1 gram or less and includes a counterweight. Connects with standard plugs.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$150.00

ALLIED PRICE \$ _____

**MICROTRAK
303 TONE ARM**



This tone arm features modern styling, plug-in memory balance head; laminated wood and epoxy body make for rugged, lightweight construction. Stylus force once set is tamper proof, and adjusted by counter-weight. A standard of the industry.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$129.50

ALLIED PRICE \$ _____

ST-11



The ST-11 Pro-eminece phono pre-amp by Micro-Track is a super high performance unit. It is RFI resistant for use in AM, FM or TV. It is very compact and designed to match a 47K ohm magnetic stereo phono cartridge. Provision for a nominal 0 dBm output with headroom to a max. of +22 dBm. Distortion is .05 or less, THD and IM. The signal to noise ratio is -72 dB or better, also has a jumper selectable rumble filter internally.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$169.50

ALLIED PRICE \$ _____

**AUDIO TECHNICA
ATP-12T**



- * Fits wide range of turntable heights and base thicknesses
- * Sealed horizontal and vertical ball bearing pivots
- * Accurate, built-in VTF gauge, no accessory gauge needed
- * Low resistance, anti-corrosion, gold plated connector throughout

MANUFACTURER'S SUGGESTED LIST PRICE.....\$175.00

ALLIED PRICE \$ _____

TURNTABLES

AUDIO TECHNICA
AT-1010



The AT-1010 tone arm is a radically different approach to inherent problems of conventional tone arms. Emphasis was placed on tracking performance as opposed to bearing sensitivity and total tonearm mass. As a result, the arm is ideal for broadcast application, where it's important to keep the stylus in contact with the record without adding stylus pressure above manufacturer's recommended tracking force.

The design of the AT-1010 arm enables the stylus to maintain stable tracking no matter how great the amplitude of the modulated groove of a record.

A plus with this arm is the ease of adjustment after the arm has been set up.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$375.00

ALLIED PRICE \$ _____

AUDIOMETRICS
S-220



The stylish, practical and economical professional S-220 tonearm has a light alloy arm, with low mass cartridge shell and precision ball bearing rotation. Also has adjustable lateral balance and weight adjustment for tracking force. Arm height is adjustable from 1 9/16" to 2 3/8" and removable cartridge shell uses standard 4 pin connector. Stylus pressure adjustable from 1 to 6 grams depending on cartridge. Tracking error is rated at +4°, -1°.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$99.00

ALLIED PRICE \$ _____

STANTON
500 MK II



The 500 MK II series of cartridges comes in three variations, primarily differing in grams of tracking force. Its design is to deliver superb sound quality, ruggedness and reliability, yet not compromise professional broadcast standards.

Model	Description	Price
500EE MKII	.75 to 1.5 grams, elliptical.....	\$21.25
		ALLIED PRICE \$ _____
500E MKII	1 to 2 grams, elliptical.....	\$18.38
		ALLIED PRICE \$ _____
500A MKII	1 to 2 grams, spherical.....	\$15.75
		ALLIED PRICE \$ _____

600A



In all broadcast usages, the 600A is applicable to those situations that demand a spherical stylus tip, and a cartridge that tracks at 2 to 4 grams. It has been successfully employed by many hundreds of radio stations for on-the-air usage, and it performs with great excellence and dependability. It possesses outstanding frequency response, and channel separation easily surpasses the requirements of most broadcast standards.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$24.20

ALLIED PRICE \$ _____

681A



This cartridge is indispensable for the recording engineer as a calibration standard for recording system checkout. Features extreme linearity plus widest and flattest possible response essential for precise alignment of cutting heads. Its factory calibrated frequency response meets the most rigid tolerances. Built-in longhair brush keeps dust away from stylus, protects record grooves and reduces noise, all without affecting stylus force.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$55.00

ALLIED PRICE \$ _____

STANTON

310



The Stanton Model 310 professional phono preamplifier-equalizer was designed to correctly interface all Stanton and selected magnetic phonograph cartridges for optimum playback of disc records and calibration of audio systems.

The Stanton 310 preamp features universal mounting by special brackets, instant selection of flat or NAB postemphasis curves, switchable effective rumble filter, individual adjustment of gains and high frequency responses, trimming of the capacitive cartridge loading at the input, provision for setting the power transformer for either 117 or 230 VAC 50/60 Hz operation and immunity to external magnetic AC fields. ALLIED CARRIES THE ENTIRE STANTON LINE.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$190.00

ALLIED PRICE \$ _____

STANTON PRICES ABOVE ARE MFR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

SHURE

SC35C



The SC35C is designed for use on the heaviest and most rugged tone arms which require a tracking force of 4 to 5 grams. The stylus assembly of the SC35C is rigid enough to withstand the punishment of continuous backcueing, yet compliant enough to offer excellent mid and high frequency reproduction. The SC35C is the spherical replacement stylus for this cartridge.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$45.00

ALLIED PRICE \$ _____

SC39B

Up to now, it was necessary to compromise true hi-fi performance to get the ruggedness required for professional use. To identify precisely the use and abuse to which professional phono cartridges were subjected in actual work situations, Shure engineers went into the field where they virtually "lived with" the professionals. They sat up with the all-night man in broadcast stations, worked in recording labs and shared the booth in "Discos". ALLIED CARRIES THE ENTIRE SHURE LINE.

- * Built to stand up to professional use
- * Designed to stand up to a professional's critical listening

Model	Description	
SC39B	1.5 to 3 grams, spherical.....	\$62.50
	ALLIED PRICE \$ _____	

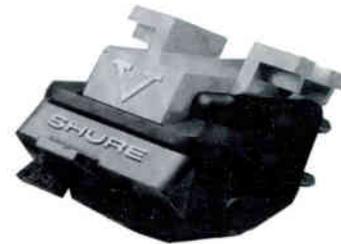
SC39ED .75 to 1.5 grams, biradial....\$80.00

ALLIED PRICE \$ _____

SC39EJ 1.5 to 3 grams, biradial.....\$70.00

ALLIED PRICE \$ _____

V-15 TYPE V



The Shure V-15 Type V cartridge comes in three styles, the MR (micro ridge) model, the 15B and 15P. The micro ridge version is radically different from the hyperelliptical tips (which generally reduce harmonic distortion dramatically), and geometrically is longer and more pointed, therefore running deeper in the LP groove. It's said to reduce harmonic distortion by another 50% over equivalent hyperelliptical styli in the line. There's a de-staticizer and damping mechanism which reduces low frequency resonance and susceptibility to warp in LP's.

The "B" version is the same V-15 without the "MR" refinement. You might think of it as the original with the destaticizer brush. The "P" version is a P-mount V-15, for mounting on P-mount arms and does not include the destaticizer and damping mechanism.

Model	Description	
V15 V-B	Hyperelliptical.....	\$220.00
	ALLIED PRICE \$ _____	
V15 V-MR	Micro ridge.....	\$275.00
	ALLIED PRICE \$ _____	
V15 V-P	Hyperelliptical.....	\$205.00
	ALLIED PRICE \$ _____	

SHURE PRICES ABOVE ARE MFR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

AUDIOMETRICS

TP-84



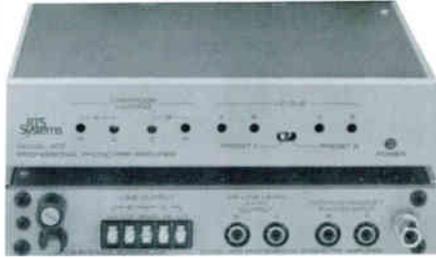
The Audiometrics TP-84 is a proven, high quality stereo turntable preamplifier which will provide many years of dependable service because it meets the specification requirements demanded by broadcasters worldwide. The TP-84 follows the RIAA curve to within 1 dB in its entire bandwidth while maintaining a signal to noise level of 70 dBm. Distortion figures of .08% make the TP-84 transparent to your turntable cartridge.

MANUFACTURER'S SUGGESTED LIST PRICE..... \$270.00

ALLIED PRICE \$ _____

“OUR SUCCESS IS IN SERVING — JUST NOT SELLING!”

**RTS
405**



The Model 405 is a high-quality two-channel phono preamplifier designed for professional applications, including disc mastering rooms, broadcast stations and high quality commercial installations. It features adjustable cartridge termination, switchable rumble filter, two selectable sets of level controls and two output formats.

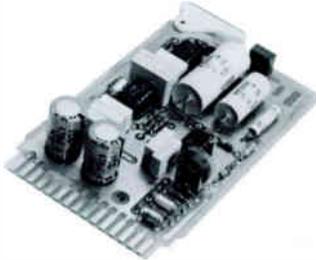
FREQUENCY RESPONSE: Re RIAA ± 0.5 dB
 SIGNAL/NOISE RATIO: -72 dB
 TOTAL HARMONIC DISTORTION: -90 dB/0.003%
 MAXIMUM OUTPUT LEVEL, BALANCED: +24 dBm

MANUFACTURER'S SUGGESTED LIST PRICE.....\$416.00

ALLIED PRICE \$ _____

STRAIGHT WIRE AUDIO

PH-2B CARD

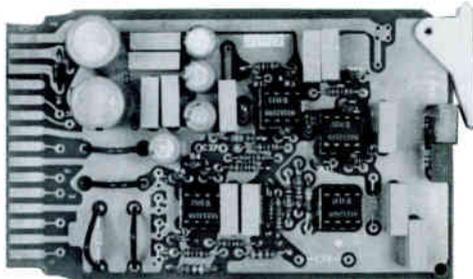


The PH-2 phono preamp is being compared to the best sounding tube-type preamps. Its unique balanced front end operates without negative feedback. This virtually eliminates TIM. The balanced input stage eliminates hum and RF from phono inputs. It has variable cartridge loading and a fully buffered passive precision e.q. network. The output level is adjustable from a -5 dBm to a +12 dBm with an output clipping level of +22 dBm into 600 ohms or +28 dBm into a bridging input. A conductive plastic trimpot, custom made for SWA, adjusts the gain of the output stage. The proper RIAA curve is rigidly maintained by 0.1% custom-made odd value resistors and 1% tolerance polystyrene capacitors. There are parallel padding capacitors which allow you to use any moving magnet cartridge. The modular circuit board fits standard 15 pin double sided edge connectors. Optional housing required.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$110.00

ALLIED PRICE \$ _____

MTX-2



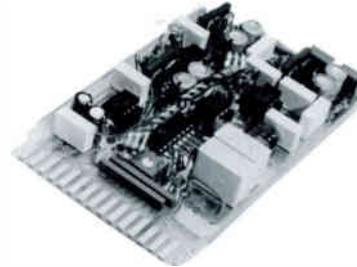
The MTX-2 allows you to optimize FM stereo coverage without smashing the audio. The reason heavy audio processing improves coverage is because of its effect in stereo. Stereo FM's coverage is sensitive to processing because the L-R signal is an AM suppressed carrier, double side band signal which makes the receiver sensitive to AM noise. Just turning on the stereo generator

degrades the signal to noise ratio in the grade A contour by 23 dB. A heavily processed one with composite clipping might see an L-R level of 30-35%. You will also get improved STL performance and reliability, both land line and dual microwave—never lose a full mono signal with one link down. The modulator circuit board fits standard 15 pin double sided edge connectors.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$579.00

ALLIED PRICE \$ _____

UA-2



The UA-2 consists of two independent amplifiers on a single card, a balanced input and a balanced output stage. Each circuit card provides space and wiring accommodations for input pads and terminations, including a center tap pair of resistors that can be used for phantom power or true balanced to ground operation. The input stage has a balanced bridging input with 90 dB of common mode rejection and an unbalanced output which has a maximum output power of 250 mW into a 10 ohm load. The input stage also has differential summing points brought to the edge connector which can be used for external gain control or mixing balanced signals.

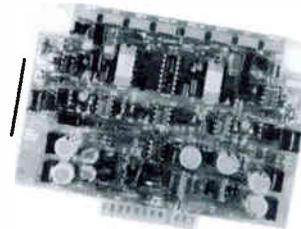
The other half of the UA-2 card, the output stage, has a high impedance unbalanced input and a zero impedance summing point input available which can also be used as an external gain control. The outputs are differential drivers which can feed a 10 ohm load with 500 mW in the balanced bridged mode. There are eight 600 ohm outputs on the card which are source isolated from each other by 80 dB and are therefore essentially independent feeds. This arrangement can feed balanced and unbalanced loads simultaneously with a maximum of sixty 600 ohm terminations on the bus.

Each stage has an independent gain control adjustment available at the front end of the card. SWA uses sealed, long lasting conductive plastic reverse log trim pots. Typical THD is less than 0.0015%, IMD below 0.003%, S/N Ratio at Unity Gain is better than 90 dB with more than 20 dB of headroom. Optional housing required.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$199.00

ALLIED PRICE \$ _____

RP/3D



The SWA 3D/RP Retrofit Card is the result of a 2-year effort to advance the art of tape playback sonics. The excellent mechanical quality and reliability of the ITC 3D and RP series machines is now complemented by the SWA 3D/RP Amplifier. These machines should, with proper maintenance, provide another 20 years or more of service. The SP machines can even be run at 15 IPS by replacing the motor with one from a 750 reel-to-reel deck which has the same size and motor mounting template. But the original program amplifier board is an early classic transistor textbook AC coupled design. Until now, the only way to remedy this problem was to buy a new machine, which left a mechanically excellent item sitting on the shelf.

**MANUFACTURER'S SUGGESTED LIST PRICE.....\$299.00 Stereo
\$175.00 Mono**

ALLIED PRICE \$ _____

ATI

P-1000 SERIES PHONO AMPLIFIERS



P-1000-1 Dual/Stereo Transformer Outputs
 P-1000-2 Dual/Stereo Balanced Differential Outputs
 P-1000-3 Dual/Stereo Single Ended (Unbalanced) Outputs
OUTPUT CLIPPING LEVEL:
 + 22dBm/600 ohms (P-1000-1,3)
 + 26dBm/600 ohms (P-1000-2)
DISTORTION at +20 dBm output: .2%
SIGNAL TO NOISE RATIO Unweighted, ref. 10mVrms 1kHz input:
 80dB, 20kHz bandwidth
FREQUENCY RESPONSE: RIAA Curve ± 25 dB, 30 to 20,000Hz
SIZE: 8½"Wx1¾"Hx7"D, 2½ lbs.
MOUNTING: Brackets supplied for internal turntable cabinet or desk top mounting. Single and dual rack mount kits available.

Model	Description	ALLIED PRICE \$
P1000-1	transformer outputs.....\$345.00	_____
P1000-2	balanced differential outputs.....\$345.00	_____
P1000-3	unbalanced outputs.....\$325.00	_____

ATI PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

ENCORE PREAMP



- * Input impedance: programmable 50 k to 100 k ohms, 50 to 400 pf in 50 pf steps
- * Input level: 5 mV nominal for +4 dBm output, 250 mVRMS maximum at 1 kHz
- * Noise: S/N 80 dB minimum unweighted, 90 dB "A" weighted, ref. 10 mVRMS at 1 kHz, 600 ohm input termination and 20 kHz measurement band
- * Output level: +18 dBm into 600 ohm balanced or unbalanced loads. 10VRMS into high impedance loads
- * Output impedance: 400 ohms balanced, 200 ohms single ended, split and RF bypassed.

Model	Description	ALLIED PRICE \$
P100M	+18 dBm active balanced mono.....\$199.00	_____
P100S	+18 dBm active balanced stereo.....\$219.00	_____

ALLIED RADIO BASE



A table top turntable base that will accommodate all the popular turntable/tonearm combinations. Comes in standard walnut or black laminate. Special laminates are available at extra cost. (Turntable & tone arm not included.)

MANUFACTURER'S SUGGESTED LIST PRICE.....\$125.00

EMT



The EMT 938 is a complete turntable system intended for professional applications, consisting of a direct drive turntable, and especially developed shock/insulation mount, the EMT 929 high performance tone arm and built-in equalizer amplifiers for line level audio output.

The direct driven turntable platter accelerates to operating speed in under ½ second, thus enabling the rapid starts so necessary for broadcast programming. Like all EMT turntables, the 938 audio output is muted during this quick startup to allow accurate cueing in the middle of program material.

Fixed speeds of 33½, 45 and 78 rpm are referenced to an internal quartz oscillator. Variable speed is available through an optional potentiometer, via rear panel connections. These connections also allow start/stop and remote stereo/mono output switching.

Wow and flutter at 33½, weighted per DIN 45507 is a maximum of $\pm 0.075\%$. Rumble, weighted per DIN 45539 is a minimum of 70 dB. The EMT 938 motor drive circuitry and audio amplifiers are built into the turntable base and swivel out for easy servicing.

Audio out is +4 dBm nominal into 200 ohms with a maximum output capability of +21 dBm. Model 948 is also available. Both models are available with a 47K ohm input for magnetic cartridges or low impedance version with active input transformer for moving coil cartridges.

Model	Description	ALLIED PRICE \$
938/47K	47K ohm input.....\$2550.00	_____
938	moving coil input.....\$2535.00	_____
948/47K	47K ohm input.....\$3810.00	_____
948	moving coil input.....\$3835.00	_____

EMT PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

SI-TEX CR-1011



The new CR-1011 Color Weather Radar displays absolutely brilliant color pictures of weather intensity that conventional radars can't touch—frontal systems, severe weather and just plain rain or snow.

The cathode ray tube presents weather in six different colors, based on intensity of return echoes. On a television type screen. With more brightness, crispness, definition and clarity than most color televisions.

There are eight selectable range scales, from 64 nautical miles out, down to a half-mile from your station. A unique plotting feature can establish the history of a weather system so station personnel can easily track direction and speed. And alert listeners accordingly.

An audible alarm warns of strong systems entering pre-established guard zones, which can be as far away as 64 nautical miles or any lesser distance desired.

Transceiver and antenna drive are both housed in the antenna assembly. Antenna operates in relative winds up to 80 knots.

A remote color monitor (CRM-1) is available to provide an additional radar screen for remote positioning up to 65 feet from primary CR-1011 radar.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$7999.00

ALLIED PRICE \$ _____

GORMAN REDLICH



Take advantage of the expanding network of National Weather Service VHF weather stations. This sensitive, selective (and reasonably priced) receiver can bring you accurate local weather, national weather, weather radar data, emergency alert messages, plus farming and marine information where applicable. Its capability for unattended recording of emergency alert messages and update forecasts can save time and money. Rebroadcast is FCC authorized.

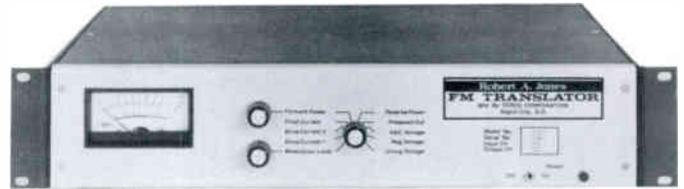
Receiver is rack mountable, remotable, with an attractive black anodized panel. Demuting and remote alarm are initiated by 1050 Hz "Alert" tone. A relay closure is initiated by either the 1050 Hz tone or a 1650 Hz forecast update signal tone. These are the only tone signals NWS uses. 600 OHM output available.

Crystal and ceramic IF filters, plus double tuned dual gate MOSFET RF stage, give excellent interference rejection and high sensitivity (.28 microvolts for 12 dB. (S + N). Whip antenna, jack and terminals for external antennas. Guaranteed to work where others won't. Selective enough to perform in downtown Chicago.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$475.00

ALLIED PRICE \$ _____

TEPCO



Tepco manufactures efficient, small one and ten watt rebroadcasting systems for reliable year-in and year-out service in the 88 to 108 mHz FM band. Their modern 100% solid-state design provides freedom of signal selectivity and overload problems.

These FM translators use MOSFET front ends, dual gate mixing, superb IF filter networks, two independent AGC loops, five stages of limiting and positive muting action.

RF output is regulated for signal variation and line voltage changes, monitored with built-in reflectometers, and protected in the event of serious load changes.

The construction is compartmentalized and thoroughly shielded, using plug-in type circuit boards. Complete metering in all important stages. Each translator is factory tested for environmental performance, and warranted to be free of component and workmanship failure for a period of one year.

The only FM translators which may be ordered with a provision for locally-originated program input for permitted announcements.

Model	Description	ALLIED PRICE \$ _____
J-316	1 watt.....	\$2487.00
		ALLIED PRICE \$ _____
J-316M	1 watt/w local mod.	\$3025.00
		ALLIED PRICE \$ _____
J-317	10 watt.....	\$2622.00
		ALLIED PRICE \$ _____
J-317M	10 watt/w local mod.	\$3159.00
		ALLIED PRICE \$ _____

TEPCO PRICES ABOVE ARE MFGR'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE

CATEL

FMX-2100S



The FMX-2100S FM Modulator is a modular packaged frequency modulation cable transmitter designed specifically for CATV and CCTV applications. When used with the SM-2200 Stereo Generator it makes possible the origination of stereo programming. With direct audio sources it can add varied FM signals to the cable system.

In addition to the retransmission of audio signals the wide band deviation makes the unit ideal for multiplexed voice or data transmission.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$985.00

ALLIED PRICE \$ _____

CATEL
FMX/SM2200S



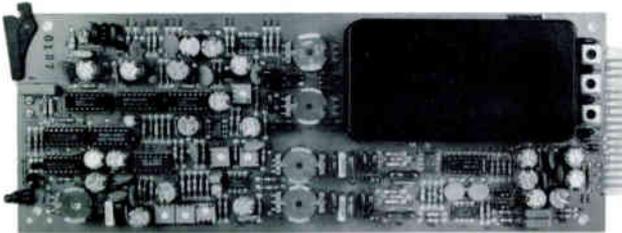
The SM2200 Stereo Generator consists of a sub-carrier oscillator, balanced modulator and channel amplifier, packaged in a modular unit for use with the FMX-2200S.

The stereo generator produces a L-R double sideband suppressed carrier signal along with the L + R signal and the 19 kHz pilot signal. The resultant output is a multiplexed audio signal which is fully compatible with "off-air" monaural and stereo signals when used with the FM modulator. A complete stereo modulator.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1705.00

ALLIED PRICE \$

WEGENER
1691 SW



The Model 1691 SW FM Modulator is used to transmit FM stereo audio programming over cable systems. The Model 1691 SW contains a complete FM stereo generator capable of accepting left and right channel audio inputs and provides multiplex output at a crystal-controlled RF frequency between 88 and 108 mHz. Other frequencies are also available. An external audio input feature permits the insertion of locally generated audio programming during specified breaks in the network program or upon command from an external switch closure.

The Model 1691 SW FM Modulator plugs into Wegener Model 1601 or 1602 Mainframes.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$700.00

ALLIED PRICE \$

RAZOR BLADES



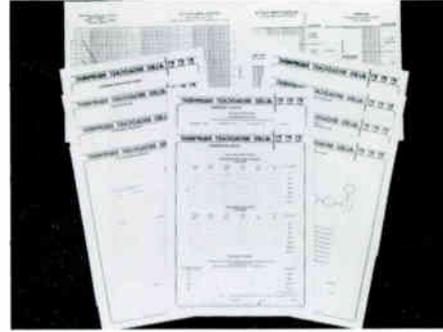
SINGLE EDGE RAZOR BLADE
\$10.00 per 100

COTTON SWABS



WOOD STICK TYPE
\$18.00 per 1000

PROOF KIT



Everything you need to do a proof of performance report. Forms, graphs and information.

\$2.00 each

SCOTCH AVX



Superior design and performance make Scotch AVX truly dependable. Scotch AVX Studio Master Cassettes bring you one step closer to perfection in your search for exceptional performance and sound reproduction. The cassette shell and internal components have been engineered to deliver outstanding mechanical reliability. The superior electromagnetic capabilities of the tape formulation guarantees superb sound under the most severe conditions. Available in bulk or individual boxes.

PRICES UPON APPLICATION

CLEAR-COM



Clear-Com's "no-fail"© broadcast-standard system design, high output, wide bandwidth, and extensive variety of closed-circuit intercoms satisfy the most demanding communications requirements.

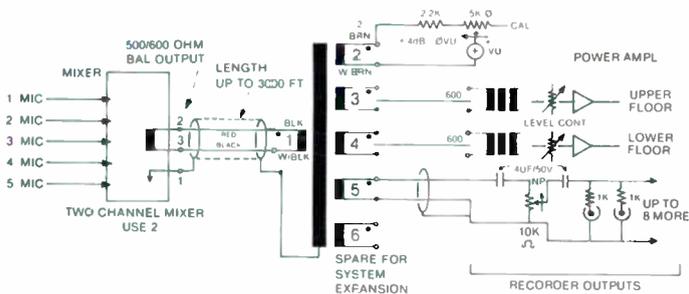
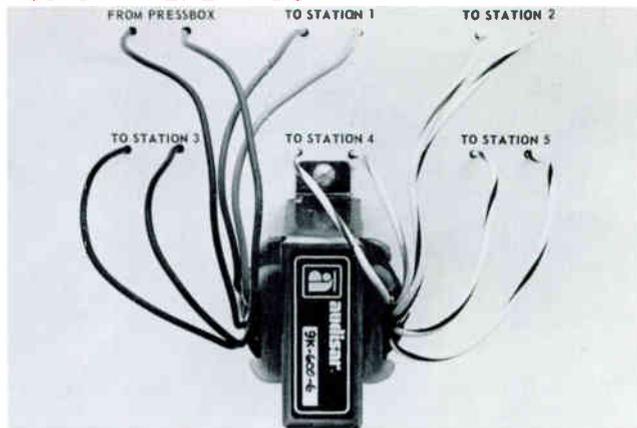
A basic Clear-Com System includes one main station or power supply with the capacity to support 100 remote stations distributed along one mile of standard, two-conductor mic cable. It is off-the-shelf expandable to suit your needs.

The Clear-Com line includes portable, custom-mount, and rack-mount intercoms, IFB systems, interfaces, headsets and accessories designed specifically for audio broadcast applications.

PRICES UPON APPLICATION

CALL ALLIED FOR DETAILS & PRICE

AUDISAR REPEAT COIL



The Answer to:

- * Mass Feeds
- * Telephone Conferencing
- * Distribution

FREQUENCY RESPONSE: 50 Hz to 20 kHz
 INSERTION LOSS: 0.75 dB
 HEAD ROOM: +30 dB at 1 kHz
 WEIGHT: 11.5 oz.
 IMPEDANCE: 600 ohm x 6 (1 in, 5 out)

MANUFACTURER'S SUGGESTED LIST PRICE.....\$77.00

DALE® SPA SURGE PROTECTORS



- * Three basic models provide optimum protection for most secondary power installations: SPA-100 for 120 volt AC circuits, SPA-200 for 208-277 volt AC circuits and SPA-400 for 480 volt AC circuits.
- * Automatically resets - has multi-stroke protection capability.
- * Weatherproof housing for indoor or outdoor use.
- * Easy installations.
- * Maintenance free.
- * No power consumption.

SPECIFICATIONS:

- * Shunt capacitance (line to ground).
- * 25 pf max. SPA-100 and 200.
- * 50 pf max. SPA-400.
- * Insulation resistance: 10 megohms minimum.
- * Operating temperature range: -40 to +70 degrees C.
- * Construction: Weatherproof, hermetically sealed in steel case.
- * Leads: #12 AWG stranded leads, PVC insulation, 18" long. Black line for line (phase) connection, green lead for ground.
- * Mounting: 1. 1/2-14 NPSL nipple for fuse or junction box mounting.

2. L bracket for wall or pole mounting. Mount with two #8 screws spaced 1" apart.

PRICES UPON APPLICATION

ASSOCIATE PRODUCER®



Allied's Associate Producer facilitates and centralizes your dubbing needs. The turntable mount is our famous shock absorber. (Page 39).

We invite you to select and customize components. The cartridge tonearm of your choice; a Technics SP15, SP25, or SP10 turntable (Page 89); A CD player of your choice (Page 90, 91); a cassette deck (Page 61); an amplifier (Pages 1, 2, 3, 4); speakers such as TOA, JBL, or ALC (Pages 68, 69, 70) and a pair of Omnimounts (Page 42) to mount the speakers to sides or top. You may choose an Audicord, BE, Fidelipac, Ramko or ITC cart machine.

Put it all together with Phase Audio's cart dubbing center.



Allied can supply all the separate components or assemble, prewire, and test as a complete system for you.

PRICE UPON APPLICATION

OKIESOFT TINY DRAFTER



Tiny Drafter is an innovative program that enables the user to generate scale drawings using an Apple II series micro-computer.

Tiny Drafter is capable of operation in a variety of modes; such as drawing by specification, drawing manually using the keyboard or joystick, drawing filled or empty boxes or a scale legend or even drawing grids to user specifications.

Tiny Drafter was written to meet the needs of the Modern Broadcast Engineer or Consultant who requires the ability to quickly generate scale drawings for equipment, room or building layouts, with reasonable precision.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$79.95

ALLIED PRICE \$ _____

PRO RAX
CD-40LS/CD20W



CD-40LS Carousel

CD-20W Wall or Desk

These unique racks are designed to store, protect and keep handy your compact disks (CD). The cabinetry is mahogany finish and the price also includes crating for delivery to you.

Model Description

CD-40LS Carousel (Capacity 40)
11 1/2"W x 9 1/4"H x 11 3/8"D.....\$69.95

CD-20W Wall or Desk (Capacity 20)
6 1/4"W x 16 1/2"H x 4 3/4"D.....\$39.95

PRO RAX PRICES ABOVE ARE MFRG'S SUGGESTED LIST PRICES. CALL FOR TODAY'S ALLIED PRICE.

WINGET
TAPE SENTRY



The TAPE SENTRY is a sensing device intended for use in broadcast automation systems to alert station personnel that the end of an audio tape has been reached.

It simultaneously monitors up to six tape machines and at the end of any tape provides a relay contact closure which may be used to trigger external audible and/or visible alarms.

Detector circuitry is triggered by sub-audible 25 Hz tones of six second (or greater) duration. This makes TAPE SENTRY compatible with most music programming formats. Quick and easy rear panel connections via "Molex" type connectors (mating ends supplied).

MANUFACTURER'S SUGGESTED LIST PRICE.....\$295.00

ALLIED PRICE \$ _____

AIR SENTRY



The AIR SENTRY is designed to constantly monitor the presence of an audio signal and to energize a relay when the audio is absent. Activation of the relay is front panel adjustable from 4 to 20 seconds. The relay may in turn be used to activate an external audible or visible alarm to notify station personnel of the absence of broadcast signal. It may be used to monitor any stereo or mono audio source such as audio from an AM/FM tuner, TV receiver or modulation monitor. AIR SENTRY is built to broadcast standards of reliability. Quick and easy rear panel connections via "Molex" type connectors (mating ends supplied).

MANUFACTURER'S SUGGESTED LIST PRICE.....\$295.00

ALLIED PRICE \$ _____

BENCHMARK
DIA-1B & DIA-2A



The need for balanced inputs on *all* audio equipment is not universally understood. The result is that many pieces of otherwise good audio equipment are unable to reject the *normal* power line related voltage differences found between chassis of equipment. These voltage differences add with the desired signal, and the result is always less than pleasant. Because they; *retrofit* into existing equipment, may be obtained in many \pm gain configurations and may be used with virtually any (up to \pm 200 volts) existing supply voltages the DIA-1B & DIA-2A differential input amplifiers, provide the optimum answer to the need for balanced inputs in your equipment. The problems of space, mounting, wiring and A.C. requirements found with external balancing systems, are eliminated. The DIA-1B uses split (\pm) supplies, the DIA-2A uses a single + supply.

MANUFACTURER'S SUGGESTED LIST PRICE

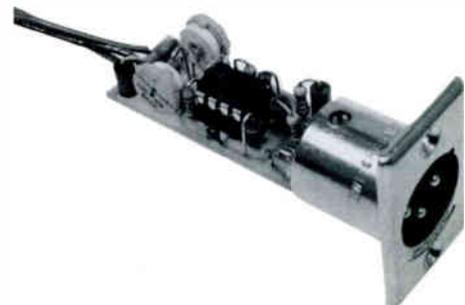
1B\$48.40

ALLIED PRICE \$ _____

2A\$48.40

ALLIED PRICE \$ _____

DOA-1A & DPA-2A



Interfacing a Compact Disk player, FM tuner, audio or video cassette machine to the professional audio environment can be very frustrating. The DOAs-1 & 2 provide the optimum answer to the need for a professional level interface, and at less than half the price of an external device. With variable gain from off to +26 dB and by mounting inside your equipment, they turn your gear "pro!" External interface devices usually include input stages that may be superfluous. Their output stages are restricted to a fixed gain of 14 dB, which is often inadequate, particularly with CD players. With the DOAs-1 & 2, cabling, space, mounting and AC power problems are eliminated. The DOA-1A uses split power from \pm 9V to \pm 22V D.C. The DOA-2A uses a single + supply from +18V to +44V D.C.

MANUFACTURER'S SUGGESTED LIST PRICE

1A \$48.40

ALLIED PRICE \$ _____

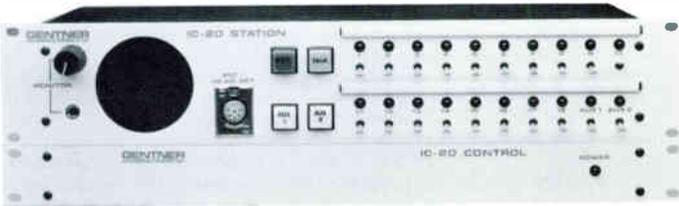
2A \$48.40

ALLIED PRICE \$ _____

ALLIED CARRIES ADDITIONAL BENCHMARK PRODUCTS

"IT DOESN'T GET ANY BETTER THAN THIS!"

**GENTNER
IC-20**



The IC-20 Radio Station Intercom offers a unique solution to the internal communication needs of the radio broadcaster. Along with the ability for any user to communicate with any other user, the IC-20 allows INDEPENDENT, simultaneous communication paths. In addition, the IC-20 features conference and "party line" communication as well as interfaces to your two-way radio and telephone interface systems.

The IC-20 is able to expand with your needs; you may buy additional stations as required and simply "plug them in" to the existing system, up to the maximum of 20 stations (Stations 19 and 20 are exclusively used for interfacing to your two-way and telephone systems).

PRICES UPON APPLICATION

EFT-1000



The EFT-1000 Extended Frequency Transceiver improves the sound of your telephone remotes by recovering the low frequencies normally lost on telephone lines. Audio frequencies are shifted up by 250 Hz on the transmitting end and back down on the receiving end. This preserves the low frequencies, dramatically improving the quality of the broadcast.

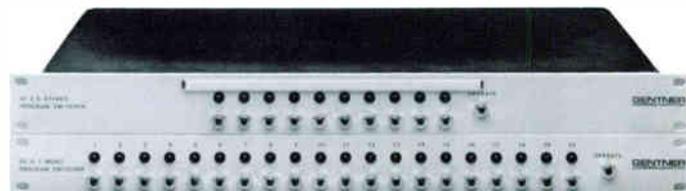
The EFT-1000 is a complete, self-contained transceiver that is able to transmit, receive, or operate full duplex as a transceiver. This allows you to run your remote broadcasts with a single telephone line! However, if you prefer to use two lines (single paths for transmit and receive), the EFT-1000 can do this with no extra equipment.

The EFT-1000 was designed for easy hook-up and simple operation and is able to enter or exit the encode/decode mode and couple to the telephone line automatically.

MANUFACTURER'S SUGGESTED LIST PRICE.....\$1899.00

ALLIED PRICE \$ _____

SWITCHERS 10x2 and 20x1



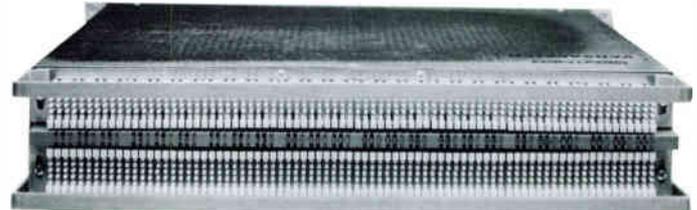
Gentner Program switchers are very useful in applications which require passive switching of signal sources. Internal switching is accomplished by sealed socket-mounted relays that are magnetically latched. This latching makes the switcher insensitive to line voltage fluctuations (the selected source remains selected even in power failure) and since the coils are only energized during switching, a longer relay life is achieved. Programmable Arrayed Logic (PAL) circuits form the heart of the firmware within the system. The 10x2 Stereo selects ten stereo channel inputs to a single stereo channel output; the 20x1 Mono selects twenty mono channel inputs to a single mono channel output.

Model	Description	MFGR'S SUGGESTED LIST PRICE.....	ALLIED PRICE \$ _____
10x2	Stereo	\$849.00	
20x1	Mono	\$849.00	

VERSAPATCH



Front View



Rear View

Flexiblock makes downsized Versapatch the most versatile, flexible prewired patch panel you can buy.

Gentner's Versapatch is a prewired patch panel enclosed in a chassis. The rear of the chassis gives easy access to the jacks; stranded wire cables are neatly bundled across the hinge and terminated on Flexiblock punch blocks. Individual designation strips allow you to change one circuit's designation quickly and neatly - no need to remove and re-do an entire row's designation for one change.

Versapatch is available with Tip-ring jacks; normals are jumpered at bay or Top-row bridged for monitoring capability. Various bay types from 24 to 96 jacks with various termination types are selectable.

Prices upon configuration selected, Call for details and ALLIED pricing.

Allied carries the entire Gentner product line. You will find them in various locations in this catalog.

GENTNER PRICES ABOVE ARE MANUFACTURER'S SUGGESTED LIST PRICES. CALL NOW FOR TODAY'S ALLIED PRICE.

**"THERE'S MORE TO ALLIED
THAN BROADCAST EQUIPMENT"**

Terms and Conditions of Sale

BY TELEPHONE: The most convenient way to order from Allied is by telephone, confirmed with a written purchase order. When placing an order, call the Allied office that serves your area. (See inside back cover.) Allied provides toll free ordering service where possible - collect calls are not acceptable. Office hours are 8 AM to 5 PM local time per office. Written purchase orders, sent to confirm a telephone order, must be noted as **CONFIRMING**. Failure to do so could result in additional charges for freight and handling.

CREDIT TERMS: We will ship open account to firms **rated** high by Dun & Bradstreet Inc. If only listed and **not** rated by D & B, Allied will require 3 vendor references, plus 1 bank reference. Any credit accommodations must be arranged through the Allied credit department. Orders and requests for credit accommodations should be placed with your local Allied sales office listed on the inside back cover. If in the judgment of Allied, the financial condition or payment record of the Buyer at any time does not justify placement/shipment of an order on the payment terms requested, Allied may refuse to accept/ship unless advance payment is received. Otherwise, payment terms are cash with order or chargeable to Visa or Master Card with bank approval or net 30 days (when approved by Allied) or 50% cash with order and balance net 30 days or 50% cash with order and balance due prior to shipment or 25% cash with order and balance net 30 days (when approved by Allied) or 25% cash with order and balance due prior to shipment. There are times with significant monetary value orders (as determined by Allied) when an order must be accompanied by a Security Agreement. COD orders - when authorized by Allied, require payment by cash, certified check, cashiers' check or bank money order - **ONLY!**

PARTIAL BILLING: Payment is due Net/30 days firm on **each** invoice rendered. Due to time differential in shipment of various items, **each** invoice becomes due and payable within 30 days of the date of the invoice. If this is not possible, we will be glad to ship all equipment at one time with one invoice becoming due Net/30 days firm. Please advise which method is desired. Government funded purchase orders **must** include a copy of the instrument of funding. **ALLIED ACCEPTS NO PENALTY CLAUSES!**

TRIALS & SALES ON APPROVAL: Trials and sales on approval require a firm purchase order or payment in advance or deposit at our option unless otherwise specified. Approval terms are applicable only if specified in advance on the order and accepted by our Sales and Credit Department. Goods must be returned within the specified time on the invoice or the sale is considered final. Normal trial period is 10 days. Charges will be assessed for any damage or loss.

LEASING: Allied offers several Leasing Plans from various companies arranged to suit your individual needs in standard six month increments, from 6 months to 60 months. The customer is responsible for all taxes, transportation and insurance charges unless arranged in advance with the Leasing company. Under a Lease agreement, the customer pays for the use of the product for the term of the agreement. It is **not** a month-to-month rental . . . it is a non-cancelable, fixed term lease. At the expiration of the lease, there is the opportunity to update, to renew the existing lease, or to return the equipment. Customer may also exercise an option to purchase the equipment at any time during the term of the lease, provided thirty (30) day written notice of their intention is given. A **portion** of the installments will be credited toward the purchase price as negotiated with the leasing company.

USED EQUIPMENT: Used equipment offered and purchased "as-is, no-return," must be paid for in advance or sent COD. Allied will make a fair representation and the customer will buy at his own risk. Allied will authorize returns on repaired used equipment within 10 days of delivery in which the customer will be credited full amount of purchase, less all shipping and packing charges.

BACK ORDERS: Items ordered that are temporarily out of stock or have to be drop shipped from the manufacturer, will be placed on back order.

TAXES: Allied shall invoice and you agree to pay all required taxes or other like charges required to be collected by Allied with regard to transactions between seller and purchaser with specific reference to state and local taxes imposed by law in the various States, Commonwealth and Protectorates of the United States. Firms operating under tax free conditions must state applicable license certificate or contract numbers and be prepared to furnish necessary certificates of proof. Allied **must** collect tax in TX, GA, IL, IN and WA unless tax exempt documents are provided.

SHIPMENT: Your order will be shipped via UPS, if possible. Otherwise, equipment will be shipped via Parcel Post, Truck or Air Freight. If you require a special or particular form of shipment, please specify. Please be aware that there are insurance limitations on certain forms of shipments and that we may not be able to follow your exact shipping requests due to limitations on services available in various parts of the country and tariff restrictions. Allied will make every effort to ship your merchandise in a fast and inexpensive manner. Merchandise in stock will be shipped within 24 hours of receipt of order. If it is a drop shipment from the manufacturer, a request will be made via telephone to expedite shipment. Pickups are made several times

a day from our facility to expedite service. Please allow extra time for truck shipments and Parcel Post. Overnight shipments a specialty (as requested).

GUARANTEE: All merchandise is covered by the manufacturer's warranty. Allied backs these warranties with personal interface between the problem and the factory solution. Many parts and replacement units are available from our stock or will be expedited from the manufacturer at Allied's direction as the customer requests. Allied or the manufacturer will, at their option, repair or replace defective parts or merchandise in warranty. The customer will be billed for the replacement or repair and full credit will be issued, less the freight, upon satisfactory return of the defective unit in the time period specified.

CLAIMS & RETURNS: Inspect all shipments immediately upon receipt. Missing cartons or obvious damage to cartons, shipped by common carrier, should be noted on the delivery receipt. Concealed damage or loss should be reported at once to the carrier and an inspection requested. Losses or damage to Parcel Post shipments should be reported to our Customer Service Dept. All claims for shortage or damage must be made within two days after receipt of shipment. Claims for lost shipments must be made within 10 days of receipt of invoice or other notification of shipment. Save damaged or pilfered cartons until claim is settled. Do not return any goods to Allied without obtaining a **Return Authorization Number** and instructions from our Customer Service Dept. Goods returned unauthorized by collect freight will be refused. Goods returned which were ordered by customers in error are subject to a restocking charge. **IMPORTANT** - Under present rules and regulations by most carriers it is the end user's responsibility to inspect and report losses and damage. It is essential you follow correct procedure in applying for claims and most of all, do it promptly. Any adjustment and/or replacement must be requested within seven (7) working days of your receiving agent's receipt of shipment. You may be compensated only if all accompanying boxes, packing materials, and documentation are available for inspection and used for the return.

DELIVERY: Any delivery dates indicated are approximate and subject to availability of inventory and refer to the date on which the goods will be ready for dispatch from our warehouse and/or the manufacturer. The delivery time/date indicated is without obligation insofar as it may be delayed due to labor difficulties, fires, casualties, accidents, acts of the elements, acts of the public enemy, transportation difficulties, acts of the Government in its sovereign capacity; in the event of non-compliance with our terms of payment, or other causes beyond Allied control. **Allied accepts no penalty clauses.**

PRICES: Prices found in this catalog are understood to be domestic only and in U.S. dollars; they are the suggested manufacturers price, therefore **are** subject to change or correction without notice. As such, the prices serve as a basis for orders and are **not** offered as quotations. When definite quotations are necessary, please call, write or consult our sales representative at the nearest Allied office (reference inside back cover). All applicable local, State or Federal taxes of any nature must be added to quoted prices, unless previously defined as included. All prices are FOB place of shipment, exclusive of freight charges; therefore shipping charges to your destination will be added, unless otherwise stated.

REPAIRS & WARRANTY SERVICE: Contact our Customer Service Dept. at 317-962-8596 for instructions on repair. Do not return goods without a **Return Authorization Number** and make sure proper documentation is enclosed stating the problem encountered. If you feel your problem can be solved by conversation with a technician, please ask our Customer Service Dept. to connect you with the Repair Dept.

PERSONAL SERVICE: Regardless of quantity, it's our Company policy to treat each order and inquiry as a person-to-person encounter. Your questions, comments and criticisms are welcome. Our staff is made up entirely of professionals willing to give you helpful assistance and work out possible problems to your full satisfaction.

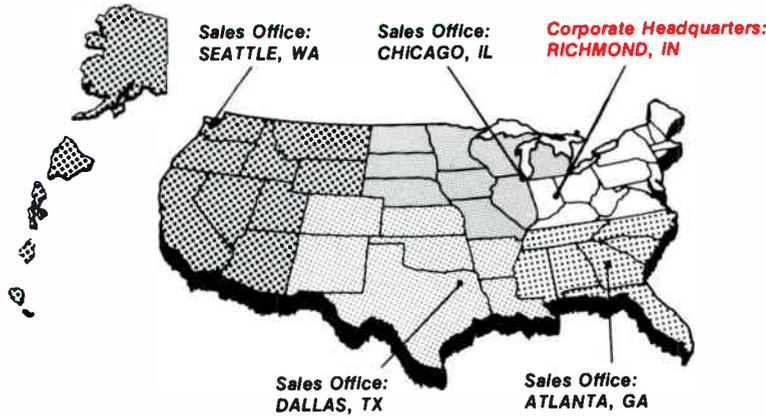
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