

# Hi-Fi

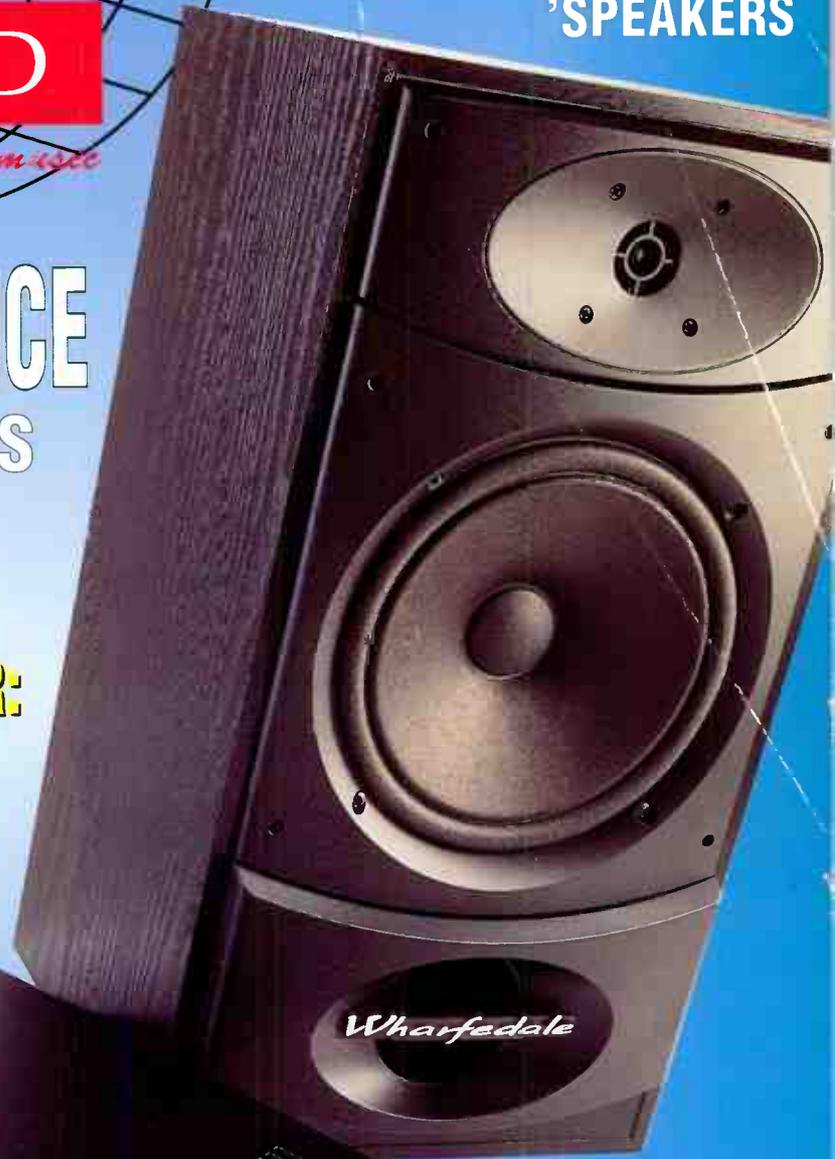
WORLD

11.11.11

*For the love of music*

**CLASSIFIED ADVERTS:  
LOADS OF HI-FI BARGAINS**

**JBL'S S2600 - AWESOME  
£3,500 HYBRID HORN  
'SPEAKERS**



**BIG SOUND - LOW PRICE  
WHARFEDALE'S VALDUS  
300 'SPEAKERS**

**ORELLE'S SA-100 AMPLIFIER:  
IMPROVED BEYOND BELIEF!**



**COMPETITION:  
WIN CELESTION IMPACT  
LOUDSPEAKERS WORTH  
OVER £1,000 IN TOTAL**



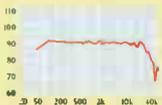
# One of life's more rewarding decisions.



## KEF Reference Series

If only all decisions in life were as straightforward as this.

The fact is that if you want the purest sound and the most uncompromising specification, it simply has to be New KEF Reference.



Every speaker must match our engineers' 'reference' prototype to an almost unbelievable

tolerance of 0.5 decibels. This means you can be sure that the sound originally achieved at KEF will be recreated in your home. Exactly.

Our breakthrough Uni-Q® technology delivers an astonishing stereo image, its unique point source design, with the tweeter at the exact acoustic centre of the mid-range cone, lets you visualise the precise location of every performer on the stage. What's more, because of Uni-Q's smooth, even dispersion you'll hear that incredible realism throughout the room. From speakers this good you'd expect outstanding



bass performance. With KEF's famous 'coupled cavity' bass system, now further improved with interports, you get it. We go to similar extremes in perfecting every detail.

Some you can't see, like Oxygen-Free Copper internal wiring or magnetic shielding (vital in Home Theatre). Some you can - sumptuously veneered cabinets with heavily gold-plated feet and terminals, for example.

In other words, each pair of Reference speakers is as close to perfection as KEF can make it.

When you know you can choose the best, would you willingly settle for anything less?



The experience of sound

## KEF Reference Series Authorised Dealers

ABERDEEN	Holburn Hi-Fi	01224 585713
BARNSELEY	Barnsley Hi-Fi Centre	01226 205549
BATH	Paul Green	01225 316197
BISHOP STORTFORD	Audio File	01279 506576
BLOXWICH	Sound Academy	01922 473499
BOURNEMOUTH	Suttons Hi-Fi	01202 555512
BRISTOL	Radford Hi-Fi (head office)	01179 428247
CARDIFF	Audio Excellence (head office)	01222 228565
CHANDLER'S FORD	Hampshire Audio	01703 252827
CHELTENHAM	Sevenoaks Hi-Fi	01242 241171
CHESTER	Audio Excellence	01244 345576
CONGLETON	Congleton Hi-Fi	01260 297544
COVENTRY	Frank Harvey Hi-Fi	01203 525200
EDGBASTON	Music Matters	0121 4292811
EDGWARE	Musical Images (head office)	0181 958 8777
GODSTONE	Surrey Hi-Fi	01883 744755
GUILDFORD	P J Hi-Fi	01483 504801
HEREFORD	English Audio	01432 355081
HUDDERSFIELD	Huddersfield Hi-Fi	01484 544668
KINGS LYNN	Martins Hi-Fi	01553 761683
LONDON W1	HiFi Experience	0171 580 3535
LONDON W1	K J Leisuresound	0171 486 8262
LONDON W5	Audio Concept	0181 567 8703
MAIDSTONE	Speakers Corner	01622 677773
MANCHESTER	The Hi-Fi Room	0161 835 1366
MONTROSE	Robert Ritchie	0167 467 3765
NEW MALDEN	Unilet Audio	0181 942 9567
NEWCASTLE	J G Windows	0191 2321356
NORWICH	Martins Hi-Fi	01603 627010
NOTTINGHAM	Nottingham Hi-Fi	01159 786919
OTLEY	Aston Audio	01625 582704
OXFORD	Audio T (head office)	01865 742044
PETERBOROUGH	The HiFi Company	01733 341755
PORTSMOUTH	Jeffries Hi-Fi	01705 663604
SALISBURY	Salisbury Hi-Fi	01722 322169
SHEFFIELD	Sound With Style	01142 737893
SHREWSBURY	Creative Audio	01743 241924
SOLIHULL	Music Matters	0121 742 0254
TWICKENHAM	Riverside Hi-Fi	0181 892 7613
WORCESTER	Sevenoaks Hi-Fi	01905 612929
WORTHING	Phase 3 Hi-Fi	01903 245577

### IF YOUR TOWN ISN'T LISTED PLEASE CONTACT:

KEF AUDIO (UK) LIMITED, DEPT HFW1, ECCLESTON ROAD, TOVIL, MAIDSTONE, KENT ME15 6QP  
TELEPHONE (01622) 672261 FAX (01622) 750653

e-mail: 100447 1106@compuserve.com

kefaudio@kefaudio.demon.co.uk

# THIS MONTH'S WORLD

- Modifying a Pioneer PD-S504, Trichord have produced their first CD player, the Genesis. At £550 could this be serious competition for throne holders Marantz? Page 14 reveals all.
- Orelle have recently updated their integrated SA-100 amplifier, with quite some degree of success on all counts. Discover the result on page 16.
- Highly affordable and with plenty of welly behind them, Wharfedale's Valds 300s should prove popular with anyone looking for a big sound on a budget. Find out more on page 25.
- One of the most impressive pieces of engineering we've come across, JBL's S2600s set new standards in loudspeaker quality. Learn what's so special about these horn/bass reflex hybrids on page 49.

**D**igital Video Disc, a system capable of storing nearly eight times as much information as CD on the same size disc, was originally intended for video and multimedia applications. But it wasn't long before the audio fraternity realised the potential for a super high quality music-only format, taking advantage of the extra capacity of DVD discs.

The Acoustic Renaissance for Audio, a team of leading audio engineers, has already proposed a system with 26 times the resolution of 16-bit CD. Now Sony have announced their system, Direct Stream Digital, which was demonstrated for the first time at the Copenhagen AES show in May. Both systems claim such high resolution they won't ever need to be upgraded in future - they promise perfect storage of all music information. These are exciting times for audio; we're at the beginning of a strong drive to improve CD's sound quality.

*Dominic Baker, Editor*

## TEST EQUIPMENT



- *Hi-Fi World* has its own advanced test laboratory and acoustically treated listening room. No other hi-fi magazine has the benefit of such facilities.
- *Hi-Fi World* has a dedicated in-house team of experienced listeners, and uses selected freelance professionals. We review thoroughly by extensive auditioning, rather than by quick-fire group listening tests.
- *Hi-Fi World's* engineering team designs a wide range of products in-house. No other hi-fi magazine is so expert and dedicated.

## LISTENING ROOM

(TREATED BY RPG ACOUSTIC TOOLS)



## IN THE AUGUST ISSUE

### MERIDIAN 557 POWER AMPLIFIER

We caught a glance of an early version of Meridian's new 557 power amplifier at the Sound & Vision show in September. Now it's ready, we take a longer look.

### SYSTEMDEK 2X2 TURNTABLE

It's not often that a new turntable gets launched these days, so when Systemdek announced the arrival of their all new 2X2 deck, we just had to get our hands on it before anyone else. Read the exclusive review in next month's *Hi-Fi World*.

### CASTLE HARLECH LOUDSPEAKERS

The Harlechs use the same new proprietary bass driver found in the Isis we reviewed recently, along with a metal dome tweeter. Can this £799 three way design using 1/4wave bass loading, tuned to two different frequencies, hold itself together?

### TANNOY AMS8 LOUDSPEAKERS

Featuring Tannoy's 8" dual-concentric driver in a compact box containing two powerful amplifiers and an active crossover, these loudspeakers were meant for top quality studio monitoring. *Hi-Fi World* just had to investigate.

### DIY SUPPLEMENT NO. 23

August also brings with it another FREE DIY Supplement full of ideas for the home constructor. We'll be building KEF's K90 kit loudspeakers using their Uni-Q driver, and testing a range of capacitors for loudspeaker crossovers. There's more on AudioCad Pro - a powerful loudspeaker design package - book reviews, all the latest components and kit news, answers to readers' DIY queries and more.

**AUDIO PUBLISHING LTD**  
64 CASTELLAIN ROAD,  
MAIDA VALE,  
LONDON W9 1EX

**CONTACT NUMBERS**

Telephone: 0171 256 0161  
Tel: 0171 256 0161  
Fax: 0171 256 0161  
E-mail: [advertising@hifiworld.com](mailto:advertising@hifiworld.com)  
Web: [www.hifiworld.com](http://www.hifiworld.com)

**MAIL ORDER**

Tel: 0171 256 0161  
(24 hour membership)

**SUBSCRIPTIONS**

See page 67 for details

**PUBLISHING**

Noel Keywood

Dominic Baker

Editor: Accounts

Jon Marks

Haider Bahrani

**PRODUCTION**

Shannon Deutrom

**ADVERTISING**

Caroline Knott  
Tel: 01245 443555

Amanda Sweeney  
Tel: 0181 424 9783

Maria Sohlén

**MARKETING**

Jon Dolan

Nick Lucas

Douglas Floyd-Douglass

David Price

Dominic Todd

Eric Braithwaite

Peter Herring

Simon Hopkins

Giovanni Dadomo

Jon Clarke

Simon Cooke

Viv Craske

Simon Marsh

Distributed by:

Production: 138 245  
Distribution: Court Road,  
London, W1P 0AU  
Tel: 011 242 545

Origination by:

Ad: Page One, 25 Abchurch  
Lane, London, EC4N 3DF  
Tel: 011 252 3111

Printed by:

Scorcher, 100, 101, 102, 103,  
104, 105, 106, 107, 108, 109,  
110, 111, 112, 113, 114, 115,  
116, 117, 118, 119, 120, 121,  
122, 123, 124, 125, 126, 127,  
128, 129, 130, 131, 132, 133,  
134, 135, 136, 137, 138, 139,  
140, 141, 142, 143, 144, 145,  
146, 147, 148, 149, 150, 151,  
152, 153, 154, 155, 156, 157,  
158, 159, 160, 161, 162, 163,  
164, 165, 166, 167, 168, 169,  
170, 171, 172, 173, 174, 175,  
176, 177, 178, 179, 180, 181,  
182, 183, 184, 185, 186, 187,  
188, 189, 190, 191, 192, 193,  
194, 195, 196, 197, 198, 199,  
200, 201, 202, 203, 204, 205,  
206, 207, 208, 209, 210, 211,  
212, 213, 214, 215, 216, 217,  
218, 219, 220, 221, 222, 223,  
224, 225, 226, 227, 228, 229,  
230, 231, 232, 233, 234, 235,  
236, 237, 238, 239, 240, 241,  
242, 243, 244, 245, 246, 247,  
248, 249, 250, 251, 252, 253,  
254, 255, 256, 257, 258, 259,  
260, 261, 262, 263, 264, 265,  
266, 267, 268, 269, 270, 271,  
272, 273, 274, 275, 276, 277,  
278, 279, 280, 281, 282, 283,  
284, 285, 286, 287, 288, 289,  
290, 291, 292, 293, 294, 295,  
296, 297, 298, 299, 300, 301,  
302, 303, 304, 305, 306, 307,  
308, 309, 310, 311, 312, 313,  
314, 315, 316, 317, 318, 319,  
320, 321, 322, 323, 324, 325,  
326, 327, 328, 329, 330, 331,  
332, 333, 334, 335, 336, 337,  
338, 339, 340, 341, 342, 343,  
344, 345, 346, 347, 348, 349,  
350, 351, 352, 353, 354, 355,  
356, 357, 358, 359, 360, 361,  
362, 363, 364, 365, 366, 367,  
368, 369, 370, 371, 372, 373,  
374, 375, 376, 377, 378, 379,  
380, 381, 382, 383, 384, 385,  
386, 387, 388, 389, 390, 391,  
392, 393, 394, 395, 396, 397,  
398, 399, 400, 401, 402, 403,  
404, 405, 406, 407, 408, 409,  
410, 411, 412, 413, 414, 415,  
416, 417, 418, 419, 420, 421,  
422, 423, 424, 425, 426, 427,  
428, 429, 430, 431, 432, 433,  
434, 435, 436, 437, 438, 439,  
440, 441, 442, 443, 444, 445,  
446, 447, 448, 449, 450, 451,  
452, 453, 454, 455, 456, 457,  
458, 459, 460, 461, 462, 463,  
464, 465, 466, 467, 468, 469,  
470, 471, 472, 473, 474, 475,  
476, 477, 478, 479, 480, 481,  
482, 483, 484, 485, 486, 487,  
488, 489, 490, 491, 492, 493,  
494, 495, 496, 497, 498, 499,  
500, 501, 502, 503, 504, 505,  
506, 507, 508, 509, 510, 511,  
512, 513, 514, 515, 516, 517,  
518, 519, 520, 521, 522, 523,  
524, 525, 526, 527, 528, 529,  
530, 531, 532, 533, 534, 535,  
536, 537, 538, 539, 540, 541,  
542, 543, 544, 545, 546, 547,  
548, 549, 550, 551, 552, 553,  
554, 555, 556, 557, 558, 559,  
560, 561, 562, 563, 564, 565,  
566, 567, 568, 569, 570, 571,  
572, 573, 574, 575, 576, 577,  
578, 579, 580, 581, 582, 583,  
584, 585, 586, 587, 588, 589,  
590, 591, 592, 593, 594, 595,  
596, 597, 598, 599, 600, 601,  
602, 603, 604, 605, 606, 607,  
608, 609, 610, 611, 612, 613,  
614, 615, 616, 617, 618, 619,  
620, 621, 622, 623, 624, 625,  
626, 627, 628, 629, 630, 631,  
632, 633, 634, 635, 636, 637,  
638, 639, 640, 641, 642, 643,  
644, 645, 646, 647, 648, 649,  
650, 651, 652, 653, 654, 655,  
656, 657, 658, 659, 660, 661,  
662, 663, 664, 665, 666, 667,  
668, 669, 670, 671, 672, 673,  
674, 675, 676, 677, 678, 679,  
680, 681, 682, 683, 684, 685,  
686, 687, 688, 689, 690, 691,  
692, 693, 694, 695, 696, 697,  
698, 699, 700, 701, 702, 703,  
704, 705, 706, 707, 708, 709,  
710, 711, 712, 713, 714, 715,  
716, 717, 718, 719, 720, 721,  
722, 723, 724, 725, 726, 727,  
728, 729, 730, 731, 732, 733,  
734, 735, 736, 737, 738, 739,  
740, 741, 742, 743, 744, 745,  
746, 747, 748, 749, 750, 751,  
752, 753, 754, 755, 756, 757,  
758, 759, 760, 761, 762, 763,  
764, 765, 766, 767, 768, 769,  
770, 771, 772, 773, 774, 775,  
776, 777, 778, 779, 780, 781,  
782, 783, 784, 785, 786, 787,  
788, 789, 790, 791, 792, 793,  
794, 795, 796, 797, 798, 799,  
800, 801, 802, 803, 804, 805,  
806, 807, 808, 809, 810, 811,  
812, 813, 814, 815, 816, 817,  
818, 819, 820, 821, 822, 823,  
824, 825, 826, 827, 828, 829,  
830, 831, 832, 833, 834, 835,  
836, 837, 838, 839, 840, 841,  
842, 843, 844, 845, 846, 847,  
848, 849, 850, 851, 852, 853,  
854, 855, 856, 857, 858, 859,  
860, 861, 862, 863, 864, 865,  
866, 867, 868, 869, 870, 871,  
872, 873, 874, 875, 876, 877,  
878, 879, 880, 881, 882, 883,  
884, 885, 886, 887, 888, 889,  
890, 891, 892, 893, 894, 895,  
896, 897, 898, 899, 900, 901,  
902, 903, 904, 905, 906, 907,  
908, 909, 910, 911, 912, 913,  
914, 915, 916, 917, 918, 919,  
920, 921, 922, 923, 924, 925,  
926, 927, 928, 929, 930, 931,  
932, 933, 934, 935, 936, 937,  
938, 939, 940, 941, 942, 943,  
944, 945, 946, 947, 948, 949,  
950, 951, 952, 953, 954, 955,  
956, 957, 958, 959, 960, 961,  
962, 963, 964, 965, 966, 967,  
968, 969, 970, 971, 972, 973,  
974, 975, 976, 977, 978, 979,  
980, 981, 982, 983, 984, 985,  
986, 987, 988, 989, 990, 991,  
992, 993, 994, 995, 996, 997,  
998, 999, 1000



## THIS MONTH'S REVIEWS

### AMPLIFIERS

#### ORELLE SA-100

Can Orelle's improved 50watt integrated, the SA-100, score in the big league, or is it headed for relegation? Haider Bahrani referees.



#### GAMMA RHYTHM

With its 211 power triodes and over 1000volts of HT, the Gamma Rhythm looks set to make a real impression. Jon Marks tests his bottle listening to it.

#### QUAD 77/77SA PRE/POWER

Eric Braithwaite listens in with baited breath to this long-awaited pre/power combo from Quad.

### COMPACT DISC

#### TRICHORD GENESIS

Following on from their Clock 2 CD player modification and Pulsar 1 DAC, Trichord release their first player, the £549 Genesis. Douglas Floyd-Douglass is there to witness the birth.



#### ROTEL RDD/RDP-980

#### TRANSPORT/DAC

Eric Braithwaite lends an ear to the latest digital combo to join Rotel's well regarded range of CD players.

### TUNERS

#### HARMAN/KARDON TU 950

Jon Marks enjoys reading station names with harman/kardon's RDS equipped TU 950, but is he similarly entertained by its sound?

### CASSETTE DECK

#### TECHNICS RS-AZ7

Bucking the current trend of Dolby S use is Technics' RS-AZ7, with its Amorphous-Z head. Noel Keywood examines its credentials.

### LOUDSPEAKERS

#### KEF CODA 9

Haider Bahrani is the recipient of the Coda 9s from KEF. He delves into the music to discover what a Coda 8 with an extra driver adds up to.

#### WHARFEDALE VALDUS 300

Wharfedale have been building speakers for over 60 years. Jon Marks finds out how history will remember the Valdus 300s.



#### JBL S2600

We managed to persuade JBL to lend us their huge S2600 'speakers to terrify our listening room, and they did a great job! Dominic Baker takes up a safe position and listens in.

#### TANGENT MONITOR 2

Could these diminutive 'speakers be the next £60 kings of the student system jungle? Haider Bahrani swings with the Tangents to find out.

### VINYL

#### WILSON BENESCH TURNTABLE, ACT 2 TONEARM AND HYBRID MC CARTRIDGE

Carbon fibre is a material close to Wilson Benesch's heart, featuring in everything they make. Dominic Baker discovers what a high-fibre diet can do for his record collection.

## WORLD VERDICT

OUTSTANDING - Superb sound, something we'd use ourselves.

GOOD - Has strong merit. Well worth an audition.

ADEQUATE - Mediocre in vital areas. May be worth auditioning.

POOR - Seriously flawed. Not worth auditioning.

**NEXT ISSUE**

To whet your appetite we have a selection of the goodies coming up in next month's issue.

**NEWS**

Stay ahead of the Smiths, the Jones's et al with all the latest news that's breaking in the world of high fidelity.

**READERS' Q&A/LETTERS**

Check out the feedback and the questions from this month's mailbag. Every letter wins a prize too.

**COLUMNS**

55, 62, 63

Find out about the mysteries with Noel Keywood, why Dominic Baker's on the level, and what Dominic Todd's unearthed in retailing.

**SUBSCRIPTIONS**

61

Spare yourself the frenzied riot as you struggle with the hordes to claim the last copy of HFW in the newsagent - subscribe instead.

**SPECIALIST HI-FI DEALERS**

69

The perfect mix - excellent coffee, a comfortable sofa, and someone who really knows how to guide you through the world of hi-fi.

**MEET YOUR MAKER**

73

Everyone knows that babies are delivered by the stork, but where does all that hi-fi come from?

**WORLD AUDIO DESIGN**

74

Have soldering iron, will build. This is the place to satisfy those construction urges.

**WORLD BUYING GUIDE**

78

Culled from the rest, these are the best.

**DIAL-A-DEALER**

89

Look before you leap, or alternatively listen before you buy. These are the people to talk to.

**3 HI-FI WORLD LIBRARY**

99

Books on valves, amplifiers, loudspeakers, electronics and more - this is where you can find what you need to know.

**MEASURED PERFORMANCE**

103

Find out what our comprehensive tests reveal about this month's products.

**READERS' CLASSIFIEDS**

126

Page after page of the biggest bargains going.

**ADVERTISERS' INDEX**

130

## FEATURES

**THE ART OF CASSETTE**

37

Noel Keywood is on hand to shed some light on the mysteries of cassette decks.

**JBL's S2600 HORN EXPLAINED**

52

Find out what makes JBL's S2600 loudspeakers tick with Dominic Baker.

**GOOD-BYE NAKAMICHI**

57

The withdrawal of Nakamichi from the hi-fi market marks the end of an era for cassette. We take a look back at the greatest legend in cassette deck technology.

## COMPETITION

PAGE 66

Win Celestion Impact loudspeakers worth over £1,000 in total. We've four pairs to give away, from the £129 Impact 10s, up to the £429 Impact 30s.



## MUSIC

**ROCK AND POP**

81

**RECORD OF THE MONTH:**

Wishplants: Daddy Longlegs

**DANCE/AMBIENT**

84

**RECORD OF THE MONTH:**

Orbital: In Sides

**JAZZ**

87

**CLASSICAL**

93

**RECORD OF THE MONTH:**

Thomas Tallis: Lamentations, Motets, String Music

# SEVENOAKS

# direct

MAIL ORDER MADE EASY

# The UK's biggest and most competitive...

AMPLIFIERS

CASSETTE DECKS

TELEVISION\*

TUNERS

SPEAKERS

HOME CINEMA

CD PLAYERS

MINIS/MICROS

VCRS

Sevenoaks Direct is the professional mail order division of Sevenoaks Hi Fi. For people that cannot travel or do not have a Sevenoaks store in close proximity (see our branch list below), dealing with Sevenoaks Direct is an excellent alternative.

As an authorised dealer with over twenty four years experience, we have sold millions of pounds worth of Hi Fi, Video and Audio Visual products to thousands of satisfied customers. Our wide range and expert advice ensures that you will be supplied the equipment that best suits your needs and your budget. With first class after sales service and an optional 3&5 year extended warranty scheme we also offer peace of mind.

All the products we sell are brand new, fully guaranteed and sent by Parcelforce. Each delivery is insured against loss or damage in transit (orders below £500 incur a carriage charge of £10, orders above £500 are FREE). Payment can be made by credit card or cheque (do not send cash).

\*TELEVISION - PERSONAL SHOPPERS ONLY



## BEWARE!

Some dealers *claim* to be 'sub' dealers or equivalent (it's just another way of saying that they are **NOT AUTHORISED**.)

We are authorised dealers for every product we sell.

What Hi Fi magazine recommends you deal only with authorised dealers.

(See Buying Guide)



*tech line*  
**01732 740583**

**MONDAY-FRIDAY 10AM-5PM  
FOR EXPERT ADVICE BEFORE  
PURCHASING FROM US**

*order line*  
**01732 458985**

**MONDAY-FRIDAY 10AM-5PM  
FOR PRICES, AVAILABILITY AND  
TO PLACE YOUR ORDER**

*head office*  
**109-113 LONDON ROAD  
SEVENOAKS KENT TN13 1BH**

**ad authorised  
DEALER**

20 BRANCHES NATIONWIDE  
SEVENOAKS 01732 459555  
ABERDEEN 01224 587070  
BARROW-IN-FURNESS 01229 838757  
BEDFORD 01234 272779  
BRIGHTON 01273 733338  
BURY ST EDMUNDS 01284 753776

CHATHAM 01634 846859  
CHELSEA 0171 352 9466  
CHELTENHAM 01242 241171  
CROYDON 0181 665 1203  
ENFIELD 0181 342 1973  
ESSEX 01376 501733  
GUILDFORD 01483 36666

KINGSTON 0181 547 0717  
LEICESTER 0116 255 7518  
OXFORD 01865 241773  
TUNBRIDGE WELLS 01892 531543  
WATFORD 01923 213533  
WOOLWICH 0181 855 8016  
WORCESTER 01905 612929

World Radio History

## CIAO FROM MILANO

Keswick Audio Research of West Yorkshire, which is more than a stone's throw from Milan or any other part of Italy come to think of it, have gone all cornetto. By that I mean they have launched a new 'Italia' series of loudspeakers.

The flagship of the range is the Milano, named after the north Italian city. This is a three-way floorstander, featuring Keswick's very own custom 10" ultra long throw bass unit. Constructed from 22mm MDF, it features multiple radial and cross bracing. Its smaller sibling, also a floorstander, is called Torino after the home of FIAT, and hosts an 8" drive unit. Both speakers are claimed to have 90dB sensitivity, which means they should be compatible with a wide range of amplifiers.

The Palermo is the stand/bookshelf mounter of the family and is designed to be used as a high quality monitor. For stimulating the low notes, the Pompeii is an active subwoofer with a 200watt class A amplifier driving a 15" drive unit. The upper roll off frequency and level can be adjusted to suit a wide range of partnering loudspeakers.

The retail prices for these speakers are; £999 for the Milanos, £799 for the Torino pair, £459 for a set of Palermos, and £999 will get you the Pompeii subwoofer.

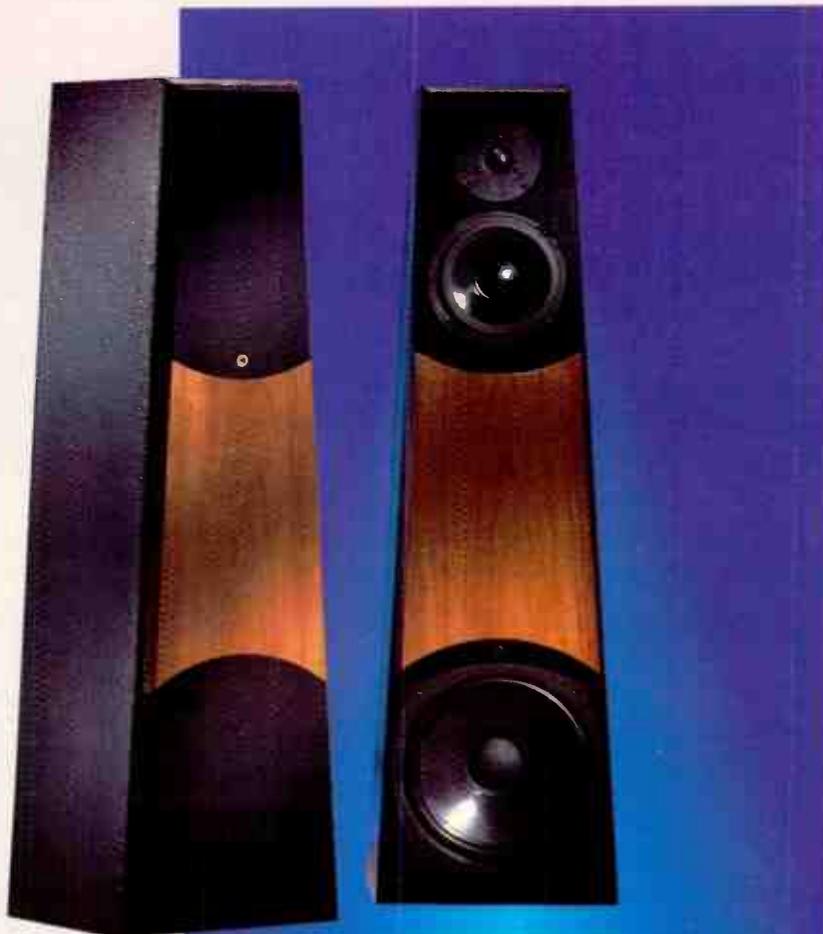
**Keswick Audio  
Research  
Ferrybridge  
Workspace,  
Pontefract Road,  
Ferrybridge,  
West Yorkshire  
WF11 8PL  
☎ 01977 671823**

## UNISON MYSTERY

The long promised Mystery One valve pre-amplifier from Unison Research is finally hitting the shops, distribution courtesy of UKD. The pre-amplifier has five inputs and runs in pure class A. It uses one double diode for rectification and three double triodes for amplification. A power supply enabling the use of the Simply Phono module (reviewed in our March issue) is also provided.

Unusually, the DC bias for the valve grids on the Mystery One is supplied by four lithium batteries which, they claim, have a life of between 5 and 10 years. Retail price for the pre-amplifier is £1750.

**U.K. Distribution  
23 Richings Way,  
Iver, Bucks. SL0 9DA  
☎ 01753 652669**



# trade winds



# La Dolce Vita

**To go forwards**, sometimes you must first

go backwards. This may seem odd in our modern age, but it is certainly true of quality audio equipment. If you doubt that, ask yourself how it is that a good single-ended valve amplifier can beat its solid state counterpart hands down for sheer musical enjoyment, even though the valve design may be forty or more years old. But of course, it is not enough just to revamp old circuit designs.

The true genius of Unison Research lies in taking the single-ended

concept, then taming and radically improving it. And finally, turning it into a work of art.

Consider our Mystery One preamplifier. It looks like no other preamp you've ever seen. But like all Unison Research products, from the delightful Simply Two to the awesome Absolute 845 (considered by many to be the finest valve amplifier ever made, *irrespective of price*) it is intelligently-engineered, beautifully styled and above all, made to give a lifetime of musical pleasure.



**MYSTERY ONE** by Unison Research



**To build a good loudspeaker**, you must

first build a good loudspeaker cabinet. So why do most manufacturers use MDF for their cabinets? The answer, in case you didn't know, is that MDF is cheap. But unfortunately, it's also rather mediocre. At UKD we do things differently. Every model in our Opera range is made by our own craftsmen from solid, acoustically inert, beautiful hardwood. That is the *right* way to build cabinets, and the *only* way to allow drive units to give their best performance. In our own cabinet workshop we handcraft stunning loudspeakers like the Callas, Operetta and Divina. Does any other speaker manufacturer do that?

Take a look at our latest creation, the Opera III. Slim floorstanders in solid mahogany\*, they are quite literally in a class of their own. And for only £995 a pair, what you get is a real taste of *La Dolce Vita*

**OPERA III** by UKD

**UKD**

23 RICHINGS WAY,  
IVER, SL0 9DA, BUCKS, ENGLAND  
TEL: 01753-652669 FAX: 01753-654531

\*From sustainable sources, naturally.

**TECHNICS MASH IT UP AGAIN**

Three new entry-level CD players should now be available from Technics, all employing their now infamous MASH 1-bit digital conversion system. The Super One Chip LSI (Large Scale Integration) used in these players replaces the three dedicated chips previously used for the optical servo control, signal processing and the digital to analogue conversion. This simplifies the audio signal path by isolating the digital section from the analogue, and this, so they claim, contributes to improved sound reproduction.

The three new machines are the SL-PG380A, SL-PG480A and the SL-PG580A, retailing at £119.95, £139.95 and £159.95 respectively.



The latter two have remote control facilities.

**Panasonic (Technics)**  
**Panasonic House, Willoughby Road,**  
**Bracknell, Berks. RG12 8FP**  
 ☎ 0990 357357

**NEW SYMPHONY**

A new pair of Symphonies have come out of the Eltax stable. The Symphony 4 is a two-way shelf/standmounting box with a 6.5" mid/bass unit and a Vifa 19mm dome tweeter. It has a claimed 90dB sensitivity, and retails at £189.99 for the pair. The Eltax Symphony 6 is a two-way ported floorstander. This uses the same drive units as the Symphony 4, with the same claimed sensitivity, and retails at £239.99.



**Eltax Electronic**  
**4 Warren Farm,**  
**Wolverton Mill,**  
**Milton Keynes MK12 5NW**  
 ☎ 01908 226464

**UP FROM THE SKY**

On the 20th of March this year the UK's first satellite and cable digital audio service was launched. With 62 channels ranging from Opera to African Rhythms, DMX (Digital Music Express) promise 24 hours a day, DJ free, CD quality music.

Subscriptions to this new service cost £6.99 per month with early receivers expected to be priced around the £300 mark.

For more information contact the DMX customer service centre:

☎ 0990 818818

**SUBSONIC BARKING**

KEF's 30B active subwoofer reviewed in our May issue has a smaller sibling set for battle at the budget end of the market. The new baby boomer has been christened the 20B, and is set to retail at £349. Wearing its bigger brother's hand me downs on the outside, internally the 20B is magnetically shielded, with a 70watt amplifier driving a 10" coated paper cone drive unit. It features both high and low level inputs and outputs, input level control plus 50-150Hz variable roll-off selection.



**KEF Audio**  
**Eccleston Road, Tovil,**  
**Maidstone, Kent ME15 6QP**  
 ☎ 01622 672261

**DISCRETE RDS**

Harman/kardon claim to have combined the user convenience of RDS with discrete circuitry in the new TU 950 tuner (reviewed in this issue). It offers 30 presets for each of the FM/MW/LW wave bands, with 10 direct access keys for each. Amongst the RDS functions provided are Program Identification, Traffic Announcement and Alternative Frequency. The latter function scans six alternative frequencies for the selected station and hooks onto the one that offers the best reception. The new unit retails at £199.99. Turn to page 49 for more.

Also new is the harman/kardon HK 3250 receiver. This has a 30 preset AM/FM tuner with an added 40watt per channel amplifier, 3 line inputs and 2 tape loops. Retail price is £249.99.

**Harman Audio**  
**Unit 2,**  
**Borehamwood Ind.**  
**Park,**  
**Rowley Lane,**  
**Borehamwood,**  
**Herts. WD6 5PZ**  
 ☎ 0181 207 5050



**POWER THULE**

A range of new products is surfacing from Thule, the Danish hi-fi manufacturer. Among these is the CD100 CD player, using a Crystal DAC, and is due to retail at £899. Coming in at £999 is their 100watt IA100R integrated amplifier, which is fully balanced and comes with remote control. Designed as a companion for their 200watt PA200 mono blocks (£949 each), the PR200 is a pre-amplifier with 5 line and 2 tape inputs and a set of balanced inputs and outputs.

The MC100 is an optional fully balanced MM/MC phono stage. The pre-amp is expected to retail at £749 and the phono stage will set you back another £200.

**Virtual Reality**  
**Audio Systems**  
**P.O. Box 383, Brentwood,**  
**Essex, CM14 4GB**  
 ☎ 01277 227355



trade winds



**PUT SOME SPACE BETWEEN  
YOU AND THE NEIGHBOURS**



# VALDUS

**W**ith over 63 years experience in producing loudspeakers for recording, for rock concerts, for discos, for instruments ranging from the wickedest rock guitar to thunderous church organs; only Wharfedale has the ability to give your music the power, the realism, the drama that you really deserve. VALDUS speakers are efficient so you get more sound out into the room for each watt of power delivered by the amplifier. VALDUS takes loudspeaker design into a new era; a new age; a new dimension. Connect-up; Power-up; Volume-up; and say goodbye to your neighbours.

*Wharfedale*

**BRITAIN'S MOST FAMOUS LOUDSPEAKERS**

Wharfedale International Limited, Sandeas Way, Leeds LS15 8AL England.  
Telephone: 0113 260 1222 Fax: 0113 260 0267



**100**

**£89.95**



**200**

**£109.95**



**300**

**£149.95**



**400**

**£199.95**



**500**

**£299.95**

**TWO REMOTELY CONTROL AN AMPLIFIER**

The PMA-425R and the PMA-725R are integrated amplifiers with the R indicating that they are remote controllable. Power output is 45 and 65watts per channel respectively.



Incorporating many of the circuit developments of the UK Audiophile series and Denon's S-1 high-end range, they feature Signal Level Divided Construction (SLDC), routing high and low level signals for processing in separate blocks following the shortest possible paths. They claim this ensures a minimum of cross channel interference and a maximum of clarity.

The '725 has what Denon are calling a SuperStable-A circuit, with Dual EI transformers in the power supply, which are claimed to allow the amplifier to deliver 180 watts per channel into a 2Ω load. All this for a retail price of £349.99. The 425 retails at £229.99.

**Hayden Laboratories**  
**Hayden House, Chalfont St. Peter,**  
**Bucks. SL9 9UG**  
 ☎ 01753 888447

**ALBUM SALES FLYING HIGH**

It seems as though reports of the decline of CD have been exaggerated, with sales world-wide continuing to grow last year, rising on average by 11.4%, a figure close to the BPI's for British sales. Although this represents a slow down in the rate of growth, the number of CDs sold reached a new high of two billion, a doubling of 1991's figure.

Almost two-thirds of all albums sold are now on CD, and it dominates the singles market, taking 68% of sales here compared to 1991's 35%.

Cassette, which

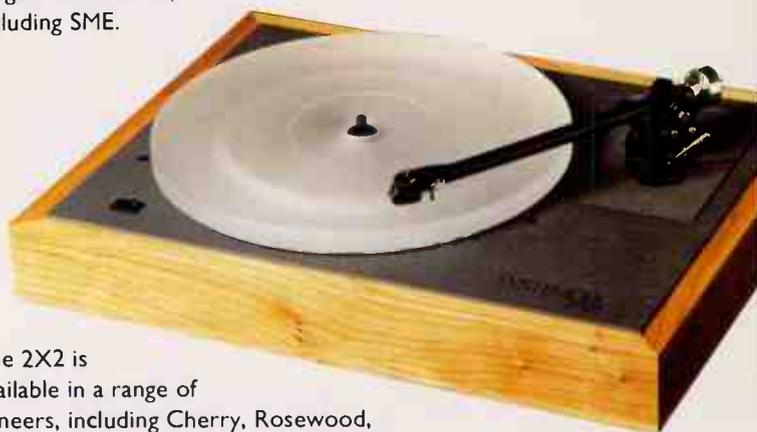
used to dominate the album market with a 52% share, has slipped back, allowing CD to take over the number one spot. In common with vinyl, a relatively small number of countries account for a large proportion of cassette's sales - just four countries. India, China, Indonesia and Russia, soak up 40% of all cassettes.

While fortune may be smiling on the silver disc, the outlook for the LP is far from bright. Even though Japan, USA and several European countries (including Britain) with their specialist markets still show good sales, world-wide sales dropped by a huge 27.5% and vinyl's share of the album market shrivelled from 7% (1991) to a paltry 1%.



**SYSTEMDEK SPINS ON...**

Continuing their commitment to vinyl in these digital days, Systemdek have released a new turntable. The 2X2 as it is imaginatively named features a fully machined acrylic platter, similar to that which was available as an option on the well known IIX turntable. Drive is transmitted from the high torque, low noise motor via a belt to an ultra rigid hub which rotates on a precision ground 6mm spindle. The subchassis that the bearing is mounted on is fully adjustable for a wide range of tone arms, including SME.



The 2X2 is available in a range of veneers, including Cherry, Rosewood, Walnut and Ash, and retails for £499.95.

**Systemdek**  
**34 Kyle Road, Irvine Ind. Est.,**  
**Irvine, Scotland. KA12 8LD**  
 ☎ 01294 71251

**TEAC'S GOLDEN WONDER?**

VRDS, DSRL, ZD-II and it's also available in champagne gold finish. What are we talking about? Well, that's Vibration-free Rigid Disc-clamping System, Digital Servo Ratio Locked Loop and the ZD-II? Um, that's just a distortion-shaping thingy. It uses a technique known as dithering, where it injects a random noise signal prior to D/A conversion and then subtracts it at a later stage. This effectively linearises the signal by reducing distortion caused by quantisation error. All this in a box comes in the form of the new £1299.95 Teac VRDS-25 CD player.

Confused? Well there's more. Teac's latest addition to the VRDS series features four 20-bit DACs and a 25-bit 8-times oversampling digital filter, which they claim, contributes to 'incredibly clear sound reproduction'.

**TEAC**  
**5 Marlin House, The Croxley Centre,**  
**Watford, Herts. WD1 8YA.**  
 ☎ 01923 819630



trade winds

# SIMPLY

## MARKS & SPENCER Gift Vouchers FREE!



Customers quoting this Magazine can claim a **£5 M&S Voucher** for every **£60** spent when buying Hi-Fi Equipment\* from this Advert at recommended prices.

"Simply The Best!" - Are established, independent Hi-Fi Shops where the Manager is usually the Guv'nor and Reliable Advice with Sound Experience are always included.

### AMPLIFIERS

<b>Arcam</b>	Alpha 5 Plus	239
	Alpha 6 Plus	349
	Delta 290P Pwr	399
	Delta 290 Improved	499
<b>Audiolab</b>	8000A	499
	8000S New	649
	8000C Pre.	549
	8000P Pwr.	749
	8000Q Pre.	1099
	8000M Mono Pair	1599
<b>Aura</b>	VA805E-X	249
	VA100 MkII	349
	VA150	799
<b>Denon</b>	PMA250 III	159
	PMA350 II	229
	PMA425 New Remote	229
	PMA450 SE	279
<b>Krell</b>	KAV300i New 150w integrated	1947
<b>Marantz</b>	PM34 In-Store Offers	poa
	PM55se	249
<b>Mission</b>	Cyrus III	499
	PSX-R Power Supply	299
	Cyrus Pre-amp	649
	Cyrus Power-amp	449
<b>Myryad</b>	MI - 120	529
	MA - 120 Power Amp	449
<b>NAD</b>	302	199
<b>Quad</b>	77 Integrated (inc Remote Control Console)	849
	77 Pre-amp & Remote	849
	77 Power-amp	599
	707 Power-amp	799
<b>Rotel</b>	RA930AX II	149
	RC970-11 Pre-amp	175
	RB970-11 Power-amp	225
<b>Technics</b>	SU-A700 II	279
	SU-A900 Mk2	449
<b>Yamaha</b>	AX-380 Remote	199
	AX-490	249
	AX-590 100wpc	299

### COMPACT DISC

<b>Arcam</b>	Alpha One	299
	Alpha 5 Plus	479
	Alpha 6 New	599
	Delta 270	799
<b>Aura</b>	CD100 - New	399
<b>Cyrus</b>	DAD-7	899
	System Remote Control	99
<b>Denon</b>	DCD315	149
	DCD625	199
	DCD715 With PITCH Control	234
	DCD825	239
	DCM260 -5 disc	299
	DCD1015	349
<b>Marantz</b>	CD46	149
	CD63 Special Edition	349
	CD63 - 11	269
	CD63 Signature	499
	CD17 New	799
<b>Nakamichi</b>	MB4s 7 Disc	299
<b>NAD</b>	501	179
	502	239
<b>Quad</b>	77 Bus Powered	595
	77 240v Powered	850
<b>Rotel</b>	RCD930AX	199
	RCD970BX	349
<b>Technics</b>	SL-PS570	169
	SL-PS670	199
<b>Yamaha</b>	CDX-390	129
	CDX-490	169
	CDX-590	229
<b>Densen</b>	DeMagic Demagnetiser Disc	10.95

### CD DACs & TRANSPORTS

<b>Audio Alchemy</b>	Dac-in-a-box	229
<b>Arcam</b>	Delta Box 50	479
	Delta Box 500	749
	Delta 250 Transport	799
<b>Audiolab</b>	8000 DAC	899
	8000 CDM Transport	1399
<b>Cyrus</b>	Discmaster	749
	Dacmaster	749

### SPEAKERS

<b>B &amp; W</b>	DM302 New	129
	DM601	199
	DM602	299
	CDM2 New	399
	P4	599
<b>Celestion</b>	Impact 10	129
	Impact 15	199
	Impact 20	279
<b>Goodmans</b>	Maxim (rrp £119.00)	80
<b>KEF</b>	Coda 7	129
	Coda 8	189
	Coda 9 New	299
	Reference I	1099
<b>Mission</b>	73s	99
	731	129
	731 LE	149
	732	199
	733	299
	734	429
<b>Cyrus</b>	751 R/W add £30	299
	752 R/W add £80	499
	753 R/W add £100	699
<b>Mon. Audio</b>	MA201	299
	MA14 Gold R/W add £50	499
	Studio 6 R/W add £100	899
	Studio 12	999
<b>Musical Technology</b>	Hobby - New	250
	Kestrel	265
	Harrier	399
<b>Proac</b>	Tablette 50	599
<b>Ruark</b>	Templer	499
<b>Tannoy</b>	Profile 631	129
	Profile 631SE*****	169
	Profile 632	199
	Profile 633	299
	Profile 636	399
	Profile 637	549
	Profile 638	649
<b>TDL</b>	Sub-Sat 3 (Woofer + Satellites)	299
	Near Field Monitor	99
	RTL 2	299
	RTL 3	399
	Studio .75M	749
	Studio 1M	899

### CASSETTE DECKS

<b>Denon</b>	DRM550	159
	DRS640 Drawer Load	209
	DRM650S - New Dolby-S	229
	DRM740 3-Head	269
	DRWS80 - New Double	199
	DRS810 3-Hd Drawer Load	309
<b>Nakamichi</b>	DR3	449
	DR2 3-Head	699
	Dragon Limited Numbers	2350
<b>Technics</b>	RST-R474 Twin	219
<b>Yamaha</b>	KX390	149
	KX490	199
	KX580 Dolby-S	249
	KX690 3-Hd Dolby-S	399
	KX-W392 Double	179
	KX-W592 Double	279
	KX-W952 Double	599

### HEADPHONES

<b>SENNHEISER</b>	HD 414 Classic limited edition re-issue	49.95
	HD 435	27.95
	HD 445	39.95
	HD 455	49.95
	HD 465	64.95
	HD 475	74.95
	HD 535	99.95
	HD 545	119.95
	HD 565	139.95
	HD 265	139.95
	HD 580	199.95
	HD 580 Jubilee Special	229.95
	IS 360 Infra Red	69.95
	IS 450 Infra Red	149.95
	IS 550 Infra Red	179.95
	HE60 / HEV70 Electrostatic	998.00

### WIRE & INTERCONNECTS

<b>AUDIOQUEST</b>	Jade 1 metre	29.95
	Turquoise 2 1 metre	39.95
	Quartz 3 1 metre	119.95
	Video Z (for Digital)	59.95
	<b>Speaker Cable - per metre</b>	
	F14 solid 4 core flat	1.95
	F18 solid 8 core flat	3.60
	Type 4 4 spiral 4 core	4.95
	<b>CABLE TALK</b>	
	Improved 2 1 metre	25.95
	Advanced 2 1 metre	34.95
	Monitor 2 1/2 metre	39.95
	Monitor 2 1 metre	49.95
	Studio 2 1 metre	64.95
	Professional 1 metre	84.95
	<b>Speaker Cable - per metre</b>	
	Talk 3	2.25
	Bi-Wire 3	4.50
	Talk 4	4.25
	Bi-Wire 4	8.50
	<b>CHORD COMPANY</b>	
	Cobra Interconnect 1 metre	49.00
	Siren Interconnect 1 metre	64.95
	<b>More Speaker Wire</b>	
<b>QED</b>	Qudos OFC/PTFE	2.25
	Qudos Bi-wire New	8.00
	Profile - Flat	5.00
<b>Mission</b>	Quartet Bi-wire	7.95

### TABLES & STANDS

<b>SOUNDSTYLE TABLES</b>	In 7 Colours-Red-Black-Green-Blue(2)-Grey(2)	
	X050 / X053 3 leg 4 shelf	210.00
	X058 3 leg 5 shelf	240.00
	X100 4 leg 4 shelf	220.00
	X310 extra long for TV & A/V	250.00
	"Select" Range available 'phone for details	
<b>TARGET SPEAKER STANDS</b>	TR30 / TR40 / TR50 / TR60 / TR70	67.00
	HS8 / HS12 / HS16	77.00
	HS20 / HS24 / HS28	79.00
	HJ10 / HJ15	135.00
	HJ17 / HJ20	125.00
	S7 or S8 Wall Brackets	39.00
<b>TARGET HI-FI TABLES</b>	GR5 5 shelf Welded	160.00
	TT5sa 5 shelf - Flat Pack	139.00
	Beta 4 4 shelf - Round corner post	159.00
	Beta 5 5 shelf - ditto	185.00
	AER 5 shelf - Rigid & Stylish	205.00

The Small Print... Details correct at copy date 28 days prior to publication) & prices include 17 1/2% VAT. Some Brands are exclusive, please check with your local Dealer. Individual offers cannot be mixed with other promotions. \*M&S Vouchers do not apply to Audiolab. E & OE

# THE BEST!



Hear the difference.

All "S.T.B." Dealers know their Video and are able to advise on connection and installation in your home. This is just a selection of Top Brands available.

## A-V SYSTEMS



Denon	LA2300 Laser Disc Player	549
<b>5 CHANNEL AMPS</b>		
Arcam	Xeta One	999
Denon	AVR900 New Recvr	349
	AVC1800	549
	AVR1000 FM Recvr	529
	AVC2800	799
Marantz	SR66 New Starter	299
	PM711	449
Yamaha	RX-V390RDS 5 Ch.Recvr	299
	RX-V590 RDS 5/7 Ch. Recvr	449
	DSP-A590 5/7 Ch.	349
	DSP-A780	599
	DSP-A990 7 Ch.	899
	DSP-A2070 7 Ch.	1099
	DSP-A3090 7 Ch.	1699
<b>ADD-ON FX AMPS</b>		
Arcam	Xeta 2 50wpc front & rear	649
	Xeta 290P 75wpc pwr amp	399
Denon	AVC-77 3 Ch. Mini	399
Mission	AV Master	649
Yamaha	DSP-E390 3 Ch.	249
	DSP-E580 5 Ch.	449
	DSP-E1000 5 Ch.	699

## SHIELDED SPEAKERS

KEF	80C Centre	129
	60S Satellite - Rear	199
Mission	73S Satellite - Rear	99
	73C Centre	149
	73PS Subwoofer - per pair	179
	75 Centre	249
Tannoy	621 Centre	99
	622 Profile Centre	179
	628 Rear Wall Mount-White	149
TDL	CCS Centre	149
	SBR Sub Woofer	199
Yamaha	NS-C105 Centre	80
	NS-E105 Rear Effect	109

## ACTIVE SUB WOOFERS

KEF	30B - New	499
REL	Q BASS	349
	Strata Mk11	545
	Storm	695
Yamaha	YST-SW80	179
	YST SW150	279

## MINI & MICRO SYSTEMS

Denon	D C1 Micro 6CD inc Spkrs	379
	D-C30 Mini Inc Spkrs	499
	D77 - 3 Box 30wpc	649
	DF-07 New Champagne-Finish	649
	D90 - Award Winner	699
	D110 - Twin Cas	799
	D250 - 50wpc power	949
	AVC-77 Add-On Doiby AV	399
	F-10 Separates System	999
	F10 Amp	*289
Denon	F10 CD	*249
Separate	F10 CD 3 Disc	399
Mini	F10 Cas. Deck	*279
Units	F10 Tuner	*239
	F10 Receiver	379
Yamaha	CL-10 Separates System New	949
	AX-10 Amp	299
Separate	CDX-10 CD	249
Mini	KX-10 Cas. Deck	299
Units	TX-10 Tuner	179

## INTEREST FREE CREDIT

# 0% apr

Terms tailored to suit you  
Minimum Deposit 25%  
over 6 - 9 - 12 months on advertised prices  
minimum balance £250.00 (excludes M&S offer)

### TUNERS

Arcam	Alpha 5 Plus (inc MW, LW)	219
	Delta 280	399
Audiolab	8000T	799
Aura	TU80	349
Denon	TU260	119
	TU215-RD	149
	TU380-RD RDS	199
Marantz	ST55	149
	ST65 RDS	199
Mission	Cyrus FM7	399
NAD	402	179
Quad	FM77	tba
Rotel	RT935AX	159
Yamaha	TX-480L	119
	TX-590 RDS	179

### TURNTABLES

Dual	CSS05-4 UK	249
Michell	Micro + RB300 arm	577
Pro-ject	.5 + Ort OMS-10	159
	1 + Ort 510	199
	2 + Ort MC-1	299
	6 + Ort MC-15	479
Thorens	TD180 78rpm inc AT91	179
	TD180 78rpm inc Stanton	209
	TD280-IV inc AT95	199
	TD166/Rega arm	329

### CARTRIDGES & Pre-Amp

Just a sample of the popular ranges held in store

Goldring	Elan	19.00
Ortofon	Super OM10	29.00
Stanton	DJ Pro 500 II	32.95
Goldring	1006	59.00
Denon	DL-304 MC Cart.	209.99
QED	Discsaver RIAA Preamp	34.95
Michell	ISO MC or MM Preamp	420.00

### RECEIVERS

Denon	DRA265 3Swpc	199
	DRA385 RDS 45wpc	279
Yamaha	RX-385 RDS - 40wpc	269

We stock the products you want to buy! All shops hold "most of the Agencies for most of the Brands" listed. All this plus 2 Year Guarantees and Good Old Fashioned Service.

## TOP TAPE at "Simply The Best!"

Just a selection of our tape lines also full range of TDK Audio. The complete TOP TAPE price list is available from your local "Simply The Best!" Dealer. Tape Mail - Hot Line 0181 427 1404 - P&P £4.50, Orders over £60.00 Post Free.

### AUDIO CASSETTES

MAXELL	Ferric - Type I	
	UR 90	0.69
	UR 90 10 pack	6.45
	UR 120	1.49
	SX1 90 3 pack	2.79

MAXELL	Chrome - Type II	
	UD 11 90	0.99
	UD11 120	1.65
	XL11 90	1.45
	XL11 100	1.49
	XL11-5 46	1.25
	XL11-5 90	1.75
	XL11-5 100	1.95

MAXELL	Metal - Type IV	
	MX 90 2 pack	3.75
	MX 110	1.95
	MX -5 46	1.95
	MX-5 100	2.45

### DIGITAL FORMATS

DAT 4mm		
TDK	DA-R 16	4.25
MAXELL	DM 46	5.25
	DM 60	5.75
	DM 90	6.75
	DM 120	7.45
	DM 180	9.95

D.C.C.		
BASF	DCC 60	3.95
	DCC 75	4.45
	DCC 90	4.95

### VHS - VIDEO

BASF	E300 EQ	4.95
MAXELL	E30 GX Black	1.69
	E60 GX Black	1.95
	E120 GX Black	1.99
	E180 GX Black	2.25
	E240 GX Black	2.95
TDK	E180 HS	2.25
	E240 HS	2.75
	E180 EHG	2.75
	E240 EHG	3.45

### SUPER - VHS

TDK	SE-180 XP-B	6.95
	SE-240 XP-B	7.95
	SE-180 XP-Pro	7.95
	SE-240 XP-Pro	8.95

### S-VHS COMPACT

MAXELL	SEC 30 XR-S	4.95
	SEC 45 XR-S	6.95

### DIGITAL VIDEO

MAXELL	DVC 30	14.95
	DVC 60	17.95
TDK	DVC 60	15.95

### MINI DISC

MAXELL	MD 60	6.49
	MD 74	7.99

### RECORDABLE CD

TDK	CD-RXG 60 for Pioneer	12.95
-----	-----------------------	-------

### PLYMOUTH

Hi-Fi Attic  
58 New George Street  
Tel: 01752 669511

### RUGBY

Sounds Expensive  
12 Regent Street  
Tel: 01788 540772

### St ALBANS

Radlett Audio  
9 Holywell Hill  
Tel: 01727 855577

### SEVENOAKS

Performance Hi-Fi  
5 London Road  
Tel: 01732 740425

### SOUTHAMPTON

Southampton Hi-Fi Centre  
37 Bedford Place  
Tel: 01703 228434

### STRATFORD-on-AVON

Stratford Hi-Fi  
10a Chapel Street  
Tel: 01789 414533

### TORQUAY

Chelston Hi-Fi  
38 Walnut Road, Chelston  
Tel: 01803 606863

### WALSALL

Musical Approach  
37 High Street Aldridge  
Tel: 01922 57926

### WILMSLOW

Swift Hi-Fi of Wilmslow  
St. Ann's Parade (on A34)  
Tel: 01625 526213

### WORTHING

Phase 3 Hi-Fi  
215 Tarring Road  
Tel: 01903 245577

### WREXHAM

Acton Gate Audio  
Ruabon Road  
Tel: 01978 364500

**CARRIAGE FREE  
Hi-Fi  
TO YOUR UK ADDRESS**

Check your local Dealer for  
48 Hour delivery or  
Send / Fax your order to:-  
Harrow Audio, 27 Springfield Road,  
HARROW HA1 4QF.  
Tel:- 0181 930 9933 Fax:- 0181 863 2443

Please Supply:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Post Code: \_\_\_\_\_

Tel No: \_\_\_\_\_

Method of Payment:- Cheque Encl / Credit Card

Expiry Date:- | | | | Card No:- | | | |

**MAIL ORDER** Most major items are available with 48 hour FREE delivery on cleared payments. Goods insured against loss or damage. Payments by Visa, Switch, Mastercard or Cheque. See TOPTAPE section for P&P on tapes.

**The Genesis CD player has evolved from a Pioneer PD-S504 at the hands of Trichord Research. Douglas Floyd-Douglass monitors its growth.**



# GENERIC ENGINEERING

**T**he Genesis makes no bones about being a badge engineered product. In fact the badge is an inexpensive decal type sticker, which rather undermines the sonic value that this player represents. Finish is typically

Japanese; black brushed and shiny fascia holding a host of superfluous programming features. Pioneer's turntable platter style loading tray sits dead centre, solid and smooth in operation. Trichord honourably

exonerate the virtues of badge engineering by admittedly supplying an unabridged version of the original instruction manual as a cost cutting exercise.

Inside the Pioneer's chassis,

Trichord have implemented their Clock 2 modification. This reduces jitter through improving the accuracy of the master clock, which controls the timing of the digital data. The more accurate this clocking process is, the lower the jitter produced, which is typically heard as a coarseness through the midrange. The Clock 2 has an accuracy of 2ppm (parts per million) whereas in a typical player the clock would be accurate to 50-200ppm.

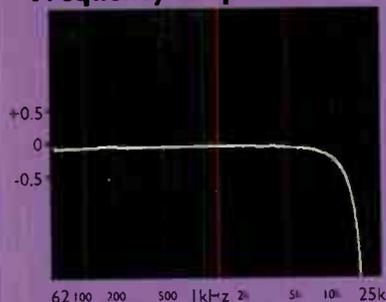
### Technical View

Pioneer's PD-S504 CD player, which the Genesis is based on, uses their Legato Link digital processing system. This has some peculiar characteristics that should be borne in mind. The frequency response of conventional players reaches 21kHz, that of Legato link players reaches just 16kHz, as our impulse measurement shows.

The audibility of this depends upon programme content. Strong transients, from a closely miked steel-stringed guitar for example, or cymbals, suffer most. Whilst widely praised for some fine properties, these players do sound warm, softening out strong treble.

Bear this in mind when auditioning. NK

### Frequency Response



It's not just the accuracy of the clock that is important though. The rise and fall time (the speed at which the clock pulse rises to its peak and falls again) and noise on this clock signal are also important factors.

Trichord's Clock 2 has a rise/fall time of 4ns, compared to 8-10ns for a typically well specified clock of a standard player. Noise is reduced by a further power supply regulator on the Clock 2 board which also has a ground plane on either side. On top of all this, the analogue output stage is improved and biased into class A working.

With Frank Sinatra's re-masters the Genesis displayed great dynamics and a very good impression of stage depth - something few players, even at twice this price, are capable of resolving. Sinatra's vocal was smooth, rounded and tonally faithful. The plucked strings of upright bass were captured complete with a lovely woody boxiness and a warm fullness that swelled out across the stage. Capturing the character of instruments is certainly a forte of the Genesis; brushed cymbals were soft with a smooth, even decay - realistic enough to have Frank dancing all night.

Enter next, The Big Fat Snake. This album really showed the force and scale the Genesis lends to music. Bass, although emphasised, was tight and powerful with bass drums driving deep and low. On 'Midnight Mission Man' electric guitar sounded raw, rich and loud, contrasting dynamically above carefully positioned backing vocals.

Once again I was drawn by the terrific bass energy the Trichord delivered with Supertramp's 'C'est le Bon'. But that's not to say that the Genesis is unsubtle. With a great sense of space, acoustic twelve string guitar was free to fill the room with its clear and spacious harmonics. Notes were well separated with little blurring, adding to the sharpness and incision with which they were played.

Drummer extraordinaire Dave Weckl, on one of those GRP recordings that often have a harsh dryness, came through full of attack and with fine midband projection. The Genesis made a better stab at this recording than many, giving a more luscious and liquid quality and making the whole a far more listenable and enjoyable experience.

The Soweto String Quartet's 'Shut Up and Listen' convinced me that that

was exactly what I should do. Strings, especially in the remarkable cello duets, ooze a tangible timbre. Violins were smooth throughout their range, with harmonics finely extended into the high treble. Bass was again full, but not overbearing, and played with such gusto and rhythm I got a real sense of Paganini meets Pongola.

Church organ made a fantastic debut with Head Acoustics binaural recording of Joyce Jones performing works by Bach, Tournemire and Dupre. The 32ft organ at the Cadet Chapel, US Military Academy West Point in New York reconditioned the cabinets of my 'speakers and the carpet received a complimentary dusting. This was serious air shifting.

Trichord's Genesis certainly veers on the side of musicality rather than accuracy. The Genesis is a 'box of electronics' that converts recorded information into a highly listenable and musical performance. In doing so, it preserves all the nuances of the acoustic, timbre, reverberation, dynamics and tone. Other boxes of electronics may perform part of this ritual, but not all - detracting from the original musical signal. In achieving all of these, I have no hesitation in commending the Genesis as one of the most musical players I've heard. It is excellent value. Dynamic, bold and inspiringly musical, with celestial bass to boast of ●

**Trichord Genesis**

**£549**

**Trichord Research**  
73 Church St.,  
Malvern,  
Worcs. WR14 2AE  
☎ 01684 573524

### WORLD VERDICT

Conveys music in a powerful and dramatic fashion. Smooth and sweet, with a good sense of depth.

**Measured Performance**  
see P103

# LEAGUE LEADER?

Orelle, it seems, have a new star player in their revised SA-100 amplifier.

Haider Bahrani goes scouting for sonic talent.



Orelle's SA-100 integrated amplifier is fun. The only way it will ever tire you out is from walking back and forward to your CD player, trying to give your entire collection the Orelle treatment. And it's something you'll be doing a lot of.

The black, thick brushed aluminium fascia with its sandblasted stainless steel plaque hides one killer machine. The control knobs, of which there are two, sink neatly and unobtrusively into the

front panel, allowing for an elegant if not awe inspiring finish. Features? It has six inputs, all at line level delivering the signal to a stereo 50watt per channel amplifier. A record out and tape monitor are also included. And that's about it.

*“The picture painted by the amplifier was so convincing I could almost see the video where Michael Stipe's torso is passed along on a sea of hands.”*

Inside, improvements have been made since this model was first introduced. The main difference is an up-rated power supply; the toroidal transformer certainly looked a beefy affair. Component quality is high for the price, with an Alps volume control and selector switch sitting next to a neat and simple circuit.

With an Audio'lab 8000CDM transport and Pink Triangle Da Capo reading off the CDs, I tried the SA-100 driving a pair of Harbeth Compact 7s to start with. Listening to REM's 'Drive' off Automatic For The People brought a huge sense of relief - I was going to enjoy this one. The picture painted by the amplifier was so convincing I could almost see the video where Michael Stipe's torso is passed along on a sea of hands. In fact his voice was so hauntingly reverberating it gently raised the hairs on my back.

Off the same album 'The Sidewinder Sleeps Tonite', which is a little more demanding in terms of tempo, produced quite an impressive response. The bass and midband were open, clean and well controlled, whilst the treble sparkled, if not like a clean cut diamond, then a polished silver nugget all the same.

'Missing You' is the final track off Beverly Craven's self-titled album. The mood is of a wake, and this was captured almost perfectly by the Orelle. Horns and her vocal took control of the stage and whilst cymbals may have splashed a little, that's just a nit picking niggle for which a £449 amplifier like this can be forgiven.

Again from Beverly's collection, 'You're Not The First' asked the Orelle to handle transients from brass sections and thundering kick drums. In general, it coped well, exhibiting a sense of space that most amplifiers in its league would be in awe of. With this kind of performance on tap from the SA-100 it's a case of sitting back and enjoying the music.

I was half-way through a song on Sade's Love Deluxe CD when the urge took me to have a change. The Harbeths were put aside and in came Mission's 752s. With a slightly fuller presentation the already open sound expanded even further.

It did also expose one or two minor frailties that were hinted at on the Harbeths though. Upper bass was strong and punchy, but there was little low end grumble, the Orelle being quite dry here. 'No Ordinary Love' off the Sade album is a mellow yet punchy little anthem, but it seemed a tad reserved when asked to really go for it with the seductive basslines. The distorted guitar that normally gives me a warm feeling was lost a bit in the background. Other than this the sound was very lively and wonderfully expressive.

Bjork then took a spin with her post-Sugarbubes CD, Début. If ever a system is capable of delivering a big sound then the recordings on this silver disc show it. 'Venus as a Boy' was huge, with sumptuous strings and

a clean and clinical top end. 'Aeroplane' showed off the amplifier's timing which was a good A-grade, and the sparse, brass-heavy 'The Anchor Song' revealed its truthful tone.

David Bowie's 'It ain't easy' from his Ziggy era was a bit dry in places, but very clean with it. 'Starman' too, always manages to arouse the senses and certainly nothing obscured its path here, with a display of good soundstaging and acoustic punctuality.

Mozart's 21st piano concerto with Vladimir Ashkenazy caressing the keys is a disc I'm getting quite used to. My father will be asking for it back soon, I'm sure. But I was glad to have it when auditioning the Orelle; there are few amplifiers at this price that deliver such a convincing display of orchestration.

The Orelle SA-100 finds itself amongst the Newcastle and Manchester Uniteds of its league. Its strip is a bit on the conservative side, but the quality of its game surpasses this. To get better than this you'll have to fork out more, probably quite a lot more.

**Orelle SA-100**

**£449**

**Orelle  
Unit 12,  
Imex House,  
6 Wadsworth Road,  
Perivale,  
Middx. UB3 7JS**

☎ 0181 810 9388

#### WORLD VERDICT

Clean, open, active sound. Smooth and detailed with good punch too. One of the best at the price.

**Measured Performance  
see P103**

# GT AUDIO

## "BEYOND Hi-Fi"



The "Hyperspace"



The "Illusion"



The "Interspace"

Anyone who has visited the various Hi-Fi shows over the years will know that the most demonstrated turntable is the Nottingham Analogue Spacedeck. Chosen for its outstanding performance and design, and its sheer ability to play music as it was recorded. With the advent of more and more new vinyl pressings becoming available a more affordable audiophile turntable was sort. Based on the Spacedeck, the Interspace turntable was born. The interspace has just received a five star accolade in What Hi-Fi magazine, described as being "Sweet, fluid and supremely musical, the Interspace is out of this world".

The "Illusion" turntable is basically a Spacedeck, only engineered in a conventional marble finished plinth which looks simply stunning. The performance of the Illusion is identical to that of the Spacedeck allowing the use of any of the Nottingham Analogue pick-up arms and cartridges to be used to maximise results.

The "Hyperspace" turntable has been described as a Spacedeck on steroids. Based on the original Spacedeck design concept and sonic virtues, but taken a stage further to improve on the Spacedeck's already outstanding performance. Nottingham Analogue have also produced a fine range of unipivot and parallel tracking pick-up arms, which together with four moving magnet cartridges complete the analogue chain. The cartridges start with the Analogue Tracer No 1 which can be upgradable to the No 2 and No 3 cartridge at a later date by just simply replacing the stylus. The Analogue tracer No 4 is different and as such represents the pinnacle of cartridge design. The Analogue Tracer cartridges will out perform moving coil cartridges and with the added advantage of having a user replacement stylus assembly. Another advantage if you own a valve amplifier is the ability to connect your turntable straight into your amplifier without the need of a step-up device. This does away with all the extra connections/circuitry required for using a moving coil device. If you own a valve amplifier with a good phono stage and are considering a new cartridge then the Analogue Tracer range of cartridges should definitely be on your short list.

**If you appreciate the beauty of real music and want to re-create its illusion at home then consult Graham Tricker to arrange a demonstration or information on the following products.**

**Agents for:- APOLLO, CROFT, G.A.T.E. AMPLIFICATION, GRAAF, G T AUDIO CABLES, LEAK TROUGHLINE TUNERS, MONRIO, NOTTINGHAM ANALOGUE, POSSELT LOUDSPEAKERS, UNISON RESEARCH, UKD OPERA AND YAMAMURA CHURCHILL ACCESSORIES AND CABLES.**

*Ex-demonstration equipment for sale*

BEARD CA35 pre-amp, BEARD M70 MkII monoblocks + matching stands (list over £4000) used once at Ramada, all boxed & still under warranty, £1500. Monrio:- MC200S £535, MC205 £900, MC25 £535, Cento £835, UKD Opera Loudspeakers:- Operetta's inc stands £400, Prima's (oak) £350, Divina's (walnut) inc stands £999, Unison Research Smart 845's £2500. Spacedeck, Space arm and No 1 cartridge £600

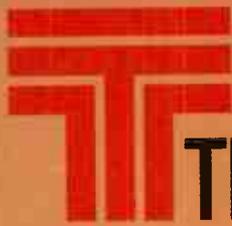
Service and Repair Department

Vintage Equipment Restored

**DEMONSTRATION BY APPOINTMENT ONLY**

Tel / fax 01895 833099

We are situated on the outskirts of NW London 4 minutes from junction 16 of the M25 (M25/M40) or 20 minutes by train from Marylebone Railway Station.



# TRISKOM

Designer hardware to store your classic software.

Looks Good, Sounds Good,  
Is Good VALUE.

Audio Visual Support Systems

REVOLVES



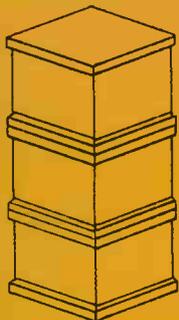
IMMEDIATE  
DELIVERY  
WHILST  
STOCKS LAST

REVOLVES



### VHS CASSETTE STORAGE SYSTEM

**VHS MINI BLACK/GOLD** Ht. 110 cm.  
20 Cassettes. WAS £54.99 **NOW £44.99**  
**VHS TOWER BLACK/GOLD** Ht. 160 cm.  
30 Cassettes. WAS £64.99 **NOW £54.99**

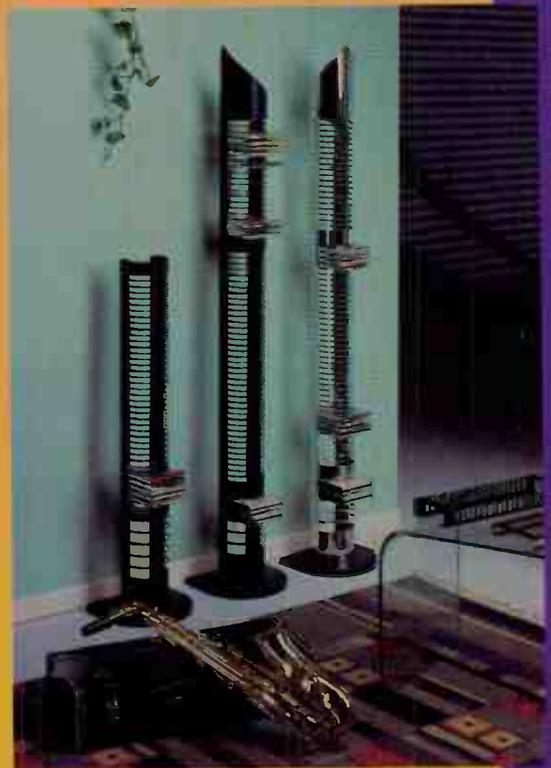


STACKS 3 UNITS HIGH

### COMPACT DISC STORAGE SYSTEMS

**CD 80** Revolving and stackable  
CD cube. Capacity: 80 sgle. CD's.  
Dimensions: 32 x 32 x 31h(cm).  
Stackable to 3 units high.  
WAS £49.99 **NOW £39.99**

**CD 240** Revolving unit. Capacity: 240 sgle.  
CD's. Dimensions: 32 x 32 x 82h(cm).  
Pre-assembled.  
WAS £109.99 **NOW £99.99**



### COMPACT DISC STORAGE SYSTEM

**CD MINI BLACK**. Ht. 110 cm. 40 sgle + 5 dble.  
WAS £39.99 **NOW £29.99**  
**CD TOWER BLACK**. Ht. 160 cm. 60 sgle + 5 dble.  
WAS £49.99 **NOW £39.99**  
**CD TOWER CHROME**. Ht. 160 cm. 60 sgle. + 5 dble.  
WAS £59.99 **NOW £49.99**

### MAIL ORDER COUPON

#### CD and Video Storage Systems

	QUANTITY	TOTAL	
CD Mini Black, 40 sgle & 5 dble CD's	WAS £39.99 NOW £29.99	.....	NAME .....
CD Tower Black, 60 sgle & 5 dble CD's	WAS £49.99 NOW £39.99	.....	ADDRESS .....
CD Tower Chrome, 60 sgle & 5 dble CD's	WAS £59.99 NOW £49.99	.....	.....
VHS Mini, 20 video cassettes	WAS £54.99 NOW £44.99	.....	POST CODE .....
VHS Tower, 30 video cassettes	WAS £64.99 NOW £54.99	.....	
CD 80, 80 single CD's. Revolving, stackable	WAS £49.99 NOW £39.99	.....	
CD 240, 240 single CD's. Revolving	WAS £109.99 NOW £99.99	.....	

Carriage, UK mainland only

TOTAL £ .....



CREDIT CARD HOTLINE 0181 903 3583



TRISKOM SALES LIMITED,  
UNIT 27A, POPIN BUILDING,  
SOUTH WAY, WEMBLEY, MIDDLESEX, HA9 0HB.  
TEL: 0181 903 3583  
FAX: 0181 903 4822

World Radio History

# C O D I N G

## *problems*



**Haider Bahrani  
acts as code  
breaker with KEF's  
new Coda 9  
floorstanding  
loudspeakers.**

**T**he works of great impressionists, like Picasso and Chagga, are appreciated by most people, yet their interpretations are hardly literal. On the other hand, pictures from a Kodak Instamatic aren't commonly found in art galleries, but accurate portrayals they may be. The KEF Coda 9 loudspeakers, which I am reviewing here, fall into the first of these categories.

The Coda 9 is a three-way, floorstanding 'speaker - a bass driver sits inside in coupled-cavity

arrangement. The mid and bass drive units are 165mm coated paper types and the tweeter is a 25mm fabric dome design. The box is finished in black vinyl veneer with a moulded plastic face hugging the treble and midrange units as it does the front port in similar style to the Coda 8.

Mick Jagger's 'Sweet Thing' (thang!), from the Wondering Spirit CD, was given life by these 'speakers, with a huge bass that funk'd and rock'd almost out of control. The top end wasn't much better, ringing with every crash of cymbals to blur notes into a m el e of metallic jangling. It was overly excited with far too much energy. But although these KEFs may at times have thumped and crashed like a PA system, their

*“ These KEFs may at times have thumped and crashed like a PA system, but their heart is clearly set on hi-fi and they tried hard to impress ”*

heart was clearly set on hi-fi and they tried hard to impress.

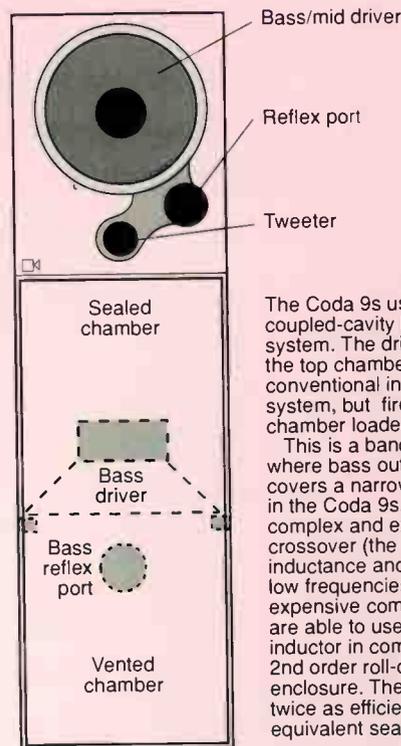
'Don't Tear Me Up', from the same album, brought some breadth to the image which was lacking with 'Sweet Thing'. Here the KEFs opened out well, able to convey a convincingly large sound stage. Bass again hit the listening room like the flood from a dam. This strength of output at low frequencies though did tend to over-shadow the midrange. With strong treble too, this gave it a slightly recessed and hollow nature where I would have liked more projection, especially with vocals.

Our faithful Audiolab 8000CDM transport span the soundtrack of the Rocky Horror Picture Show, with Richard O'Brian singing 'Science Fiction'. A youthful Susan Sarandon seemed too reserved in her vocal delivery on the teasing 'Touch-a, Touch-a, Touch Me' - she needed to reach out more and grab for attention. The bass guitar was desperately trying to steal centre stage from her - and at times succeeding. The star of the show, Tim Curry, brought some life back into the listening room on 'I'm Going Home', but this I fear owes more to his powerful delivery than to the 'speaker's.

Over the past few months the marketing department of China Records have been pestering me about an EP called Witchetty Grubs. My home system has been enjoying its eccentricities ever since. This CD has been excellently recorded, with some amazing effects. On simpler tracks the KEFs were fine with the imaging; in fact the guitarist playing just ahead of the left 'speaker was so strongly located I kept turning to look at him. Despite this the Coda 9s still showed their overly excitable character. Dynamics on tracks like 'Pigman' and 'Nibbs Crabbs' sent the speakers into a frenzy; they lost their grasp of the image and instruments became confused and jumbled rather than distinctly separated.

Pulling the speakers, which have rear ports, further away from the wall a little did reduce their overwhelming bass, but this exposed deficiencies in the lower midband. It lost more of its punch and drive, sinking down with the midrange and giving them a slower, thinner balance. Tori Amos' 'Hey Jupiter' was interpreted well though and few people will find listening to her through these floorstanders discomforting. The piano perhaps lacked body and her voice was prone more to shouting than singing, but with this quite midrangy recording the KEFs gave one of their best and most entertaining performances.

Ricky Lee Jones' acoustically cool 'Easy Money' was in much the same vein, presenting a reasonable image, but struggling a tad with depth. With some splashiness at the top and lightness in



The Coda 9s use KEF's coupled-cavity bass loading system. The driver is sealed into the top chamber like a conventional infinite baffle system, but fires into a second chamber loaded by a reflex port. This is a bandpass system, where bass output from the port covers a narrow band - 90-40Hz in the Coda 9s. So, instead of a complex and expensive crossover (the large values of inductance and capacitance at low frequencies mean bulky and expensive components) KEF are able to use just a single inductor in combination with the 2nd order roll-off of the enclosure. The system is also twice as efficient as the equivalent sealed box.

the midrange the performance thinned out, but was crisp and open at least. 'Coolsville', which reminds me of a hot summer twilight with a gently fanned breeze, had a hint of autumn chill in it. Ricky sounded like she'd sung it just one too many times.

As impressionists go the KEF Coda 9s are in an early stage of development. They've got talent, but it needs nurturing. In the mean time, part with your money with care ●

**KEF Coda 9** **£299.00**

**KEF Audio**  
**Tovil,**  
**Maidstone,**  
**Kent ME15 6QP**  
 ☎ 01622 672261

**WORLD VERDICT**

Strong bass can get out of control, as can treble. This tends to overpower the midrange reducing projection. Reasonably open and spacious with simpler pieces though.

**Measured Performance**  
 see P103

# Audio Illusion

23 Langley Broom  
Langley  
Berkshire SL3 8NB  
TEL: (01753) 542761; FAX: (01753) 772 532  
10am-8pm Monday-Saturday

*When Reality  
becomes a  
Dream.....*

80W Pure Triode.  
Single Ended & Balanced Inputs .....

*.....Pure Magic*

FOR YOUR NEAREST  
STOCKIST CONTACT.....

AUDIO ILLUSION

INFORMATION ALSO AVAILABLE  
ON THE FOLLOWING:-

Classe Audio  
Enlightened Audio Designs  
Mirage Bipolar Loudspeakers

TRIODE 100 SB

MONO BLOCK / BLOC DE PUISSANCE



## ELEMENTAL OR ELEMENTARY?



ALCHEMIST  
FORSETI

Back in the good old days, when life was simple and so were those that lived it, there was a group of men that called themselves Alchemists. They heralded the beginnings of what we might call the scientific age. By questioning the world around them, they devoted their lives to finding ways of changing the unchangeable: to transform. Transformation is the process of turning something that is plentiful but ordinary into something special. Water into wine, lead into gold, and in our case, hi-fi into art. That's why we called our company Alchemist. Anyone with a little technical know-how can build an amplifier. The components are freely available and a rectangular box is easy enough to make. At Alchemist we endeavour to transform the ordinary into something special, something unique - something you can be proud of owning.

**Alchemist amplifiers are available for between £250 and £15,000.**

Call us now on 0181-883 3008 for details. We just might transform your life.

## The Vintage Audio Co.

### VALVES

WE HAVE ACQUIRED A LARGE INVENTORY  
OF VALVES.

CALL US WITH YOUR REQUIREMENTS  
WE CAN SUPPLY MOST TYPES FROM  
STOCK AT SENSIBLE PRICES

### PARTRIDGE OUTPUT TRANSFORMERS

WE CAN SUPPLY MOST POPULAR TYPES  
FROM STOCK.

THESE ARE ORIGINAL PARTRIDGE  
TRANSFORMERS MADE FOR US BY  
PARTRIDGE IN GUILFORD

CALL or  
FAX us on  
(01239)  
891448

TEL & FAX

### VINTAGE AUDIO

BRINHLYGEN  
EGLWYSRW,  
CRMYCH,  
DYFED, WALES  
SA41 3SS

# SEISMIC SCIENCE

**The new Rhythm amplifier from Gamma Acoustics features the 211 triode. Jon Marks sets up his seismograph for some serious listening.**

The Gamma Acoustics Rhythm is an integrated line level amplifier, using a 211 power triode in each output stage in what they claim to be a zero feedback



topology able to deliver up to 18watts of single-ended power. The smaller valves almost hidden in the shade of the hulking 211s are the ECC83 double-triodes of the line stage, ECC81 double-triodes of the drive stage, and the 5687 regulator.

The presentation of the 211 is very different from that of the 300B valve, which is famed for its silky, creamy delivery. What you have with the 211 - and this was immediately obvious from the first moment music started coming through the Rhythm - is a more forceful rendition, with real depth and power in the bass, allied to great control and dynamics.

The Rhythm was partnered with our own KLS3 'speakers, for the simple reason that they were deliberately engineered to have the kind of smooth impedance curve that zero feedback amps function best with. Having an idea of what the 211 is capable of with bass, I started off listening to the CD 101 Damnations by Carter The Unstoppable Sex Machine, spinning on our Audiolab 8000CDM/Pink Triangle Da Capo combination.

'Sheriff Fatman' was my first port of call. The bass line that bounces along throughout this song had real authority, control and drive, and the Rhythm even managed to reproduce the feeling of space around the notes of the bass guitar and drum tracks. It was a tonic compared to some of the rather effete (or gutless?) valve amps that have passed my ears.

Detail and separation were good across the whole frequency range, bass in particular. Jim Bob and Fruit Bat were obviously on lead and backing vocals respectively, and lead guitar

emerged clean and powerful from the soundstage.

The Rhythm's presentation as a whole could be described as clean and powerful, in an appealingly natural way. It never became overwhelming or 'loud'.

Trying a change of direction, I slipped Bonnie Raitt's country-bluesy Luck Of The Draw CD into the player. I was impressed to find that the Gamma had no trouble whatsoever reproducing the smokey bar room feel of this album, regardless of the tempo of the songs. The great bass weight and control of the 211s helped to paint a very realistic picture on a deep, wide soundstage.

Vivaldi's Four Seasons really had me on the edge of my seat, especially the storm of Summer. This demonstrated the reserves of power the Rhythm seemed to possess, even when dealing with a truly tempestuous piece of music.

In fact, whether it was the string quartets of Ravel or Debussy, Alanis Morissette or Joni Mitchell being fed into the Rhythm, what emerged always impressed with its natural, easy power and control. For those in search of an alternative to the 300B, one which couples the organic feel of valve amplification with a rather un-valve-like ear-opening bass extension and control, the Rhythm is definitely worth audition.

**Gamma Rhythm**

**£2499**

**Gamma Acoustics**  
Ivy Lodge,  
81 Sussex Place,  
Slough SL1 INN  
☎ 01753 526939

## WORLD VERDICT

Partnered with sensible 'speakers of good bass depth, the Rhythm is capable of impressive performance.

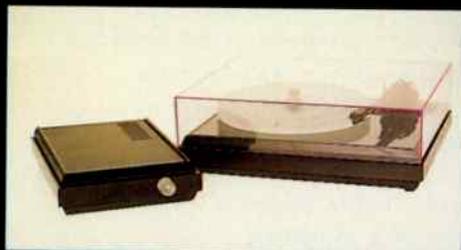
**Measured Performance**  
see p103



**Michell Silver Gyro Deck** - 'One of the biggest bargains in hi-fi'. Ken Kessler.  
RRP £825 with RB300 £967



**Michell Orbe** - 'A turntable to be proud of. Highly recommended'. P J Comeau. RRP £1950



**Pink Triangle Anniversary** - Battery PSU  
RRP £2173  
Standard PSU RRP £1797



**Project 6(MC15)** RRP £450



**Roksan Xerxes 10** - 'I cannot recommend it too highly'. Alvin Gold.  
RRP £1295



**Linn LP12 Sondek** - 'Has provided excellent test results for rumble, wow and torque'. Martin Colloms.  
RRP £1750 inc Lingo Power supply.

# Turntables at Covent Garden

18 Monmouth Street  
COVENT GARDEN  
London WC2H 9HB  
Tel: 0171 497 1346  
Fax: 0171 497 9205



**Branches also at:**  
45 High Street, HOUNSLOW  
Middlesex TW3 1RH  
Tel: 0181 569 5802  
Fax: 0181 569 6353

---

173 Station Road, EDGWARE  
Middlesex HA8 7JX  
Tel: 0181 952 5535  
Fax: 0181 951 5864

**MAIN AUTHORISED DEALERS FOR:**  
Acoustic Energy  
Aiwa  
Akai  
AKG  
Alphason  
Apogee  
Arcam  
Atacama  
ATC  
Audio Alchemy  
Audio Innovations  
Audioquest  
Audio Technica  
Aura  
AVI  
B & W  
Beyer Dynamic  
Bose  
Boston  
Cabletalk  
Canon  
Castle  
Celestion  
Cerwin Vega  
Chord  
Creek  
Cyrus  
Denon  
DPA  
Dual  
EPOS  
Exposure  
GLL  
Goldring  
Grundig  
Harman Kardon  
Heybrook  
Infinity  
IxoS  
Jamo  
JBL  
JPW  
JVC  
KEF  
Kenwood  
LaserDiscs  
Lexicon  
Linn  
Marantz  
Meridian  
Michell  
Mission  
Mitsubishi  
Monarchy  
Monitor Audio  
Monster Cable  
Mordaunt-Short  
Musical Fidelity  
NAD  
Nakamichi  
Ortofon  
Panasonic  
Philips  
Pink Triangle  
Pioneer  
Polk  
PROAC  
Project Turntables  
QED  
Quad  
RCF Projectors  
REL  
Restek  
Rogers  
Roksan  
Rotel  
Royd  
Ruark  
SD Acoustics  
Sennheiser  
Sharp  
Shearman  
Shure  
SME  
Sony  
Soundstyle  
Stands Unique  
STAX  
Sumiko  
Systemdek  
Tannoy Prestige  
Target  
TDK  
TEAC  
Technics  
Thorens  
Toshiba  
Trichord  
Van den Hul  
Wadia  
Wharfedale  
XLO  
Yamaha  
and many more

# BUDGET BATTLE

**Wharfedale's Valdus 300 battles it out in the budget loudspeaker market. Jon Marks referees.**

**S**tandmounting against a wall is the way to go if you want to hear Wharfedale's new Valdus 300s at their best. Early listening made it clear that bass was on the light side with the speakers a foot or so into the room.

With John Lee Hooker's Boom Boom LP, played by our resident Garrard 401, SME312 and Goldring 1042, feeding an Aura VA-

80SE-x amplifier, it was obvious the cymbals had an attractive metallic sheen to them, and were well detailed, easily marking out the rivets in the rim. Reverb on the guitar also stood out clearly, although the guitar itself seemed to be a little further back in the mix than normal. John Lee Hooker's vocals growled convincingly, but kick-drum lacked the weight necessary to really make its presence felt. The detailing was good, and the speed of upper bass meant the 300s had a fast, rhythmic delivery that kept both music and feet tapping along.

With Bob Marley's Exodus album the rhythm was there, but it was more of the foot-tapping than the dread-

swinging variety. Ultimately, Bob Marley through the 300s didn't grip me in the same way that John Lee Hooker had done.

Our Audiolab 8000CDM/Pink Triangle Da Capo combination was pressed into service as a CD source. The first movement of Rimsky-Korsakov's Scheherazade swelled out of the speakers, the orchestra spread evenly across the soundstage. The slow majesty of the piece was nicely captured, as were the crescendi, which had a palpable sense of anticipation in their build up.

There wasn't quite enough depth to the bass to produce the kind of weight that orchestral works really need. Also, while Samuel Magad's solo violin fared well, there was a sharp edge to the string section as a whole, especially noticeable on louder sections.

The Valdus 300s need partnering with sources and an amp possessing a warm, full sound, like Aura's VA-80. Then they turn in a satisfying performance at the price.

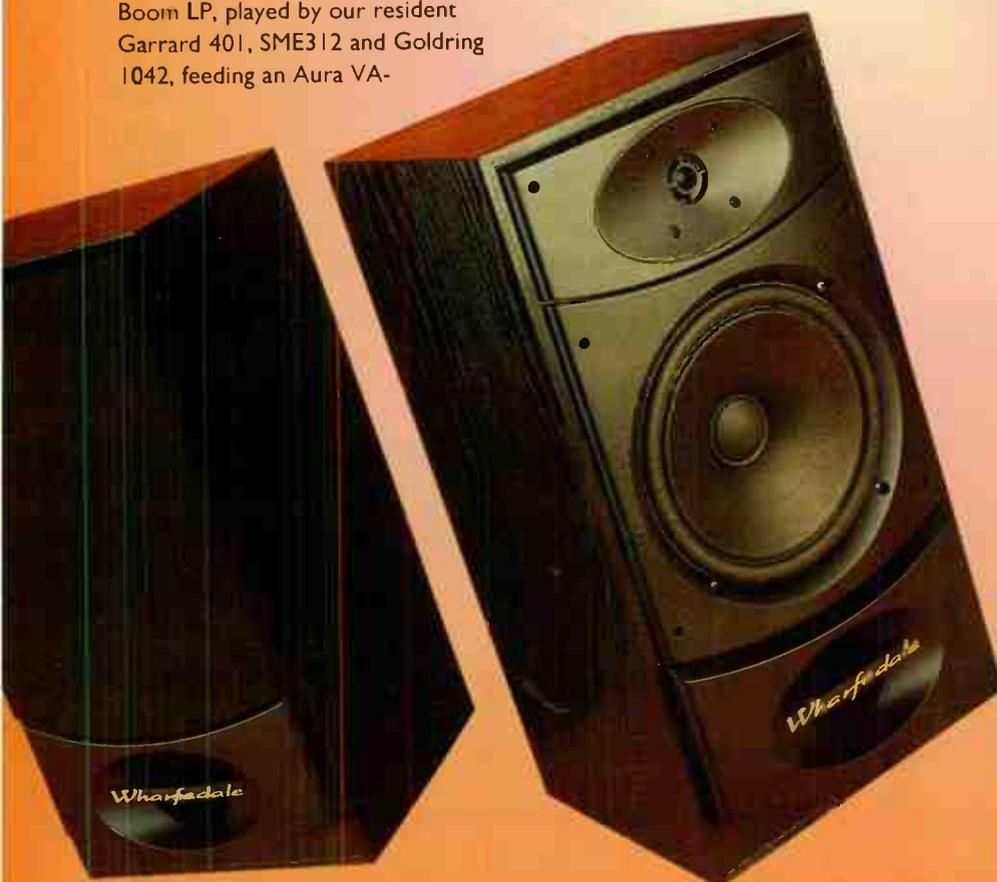
**Wharfedale Valdus 300 £149.95**

**Wharfedale International Ltd.**  
Sandleas Way,  
Crossgates,  
Leeds LS15 8AL  
☎ 0113 2601 222

## WORLD VERDICT

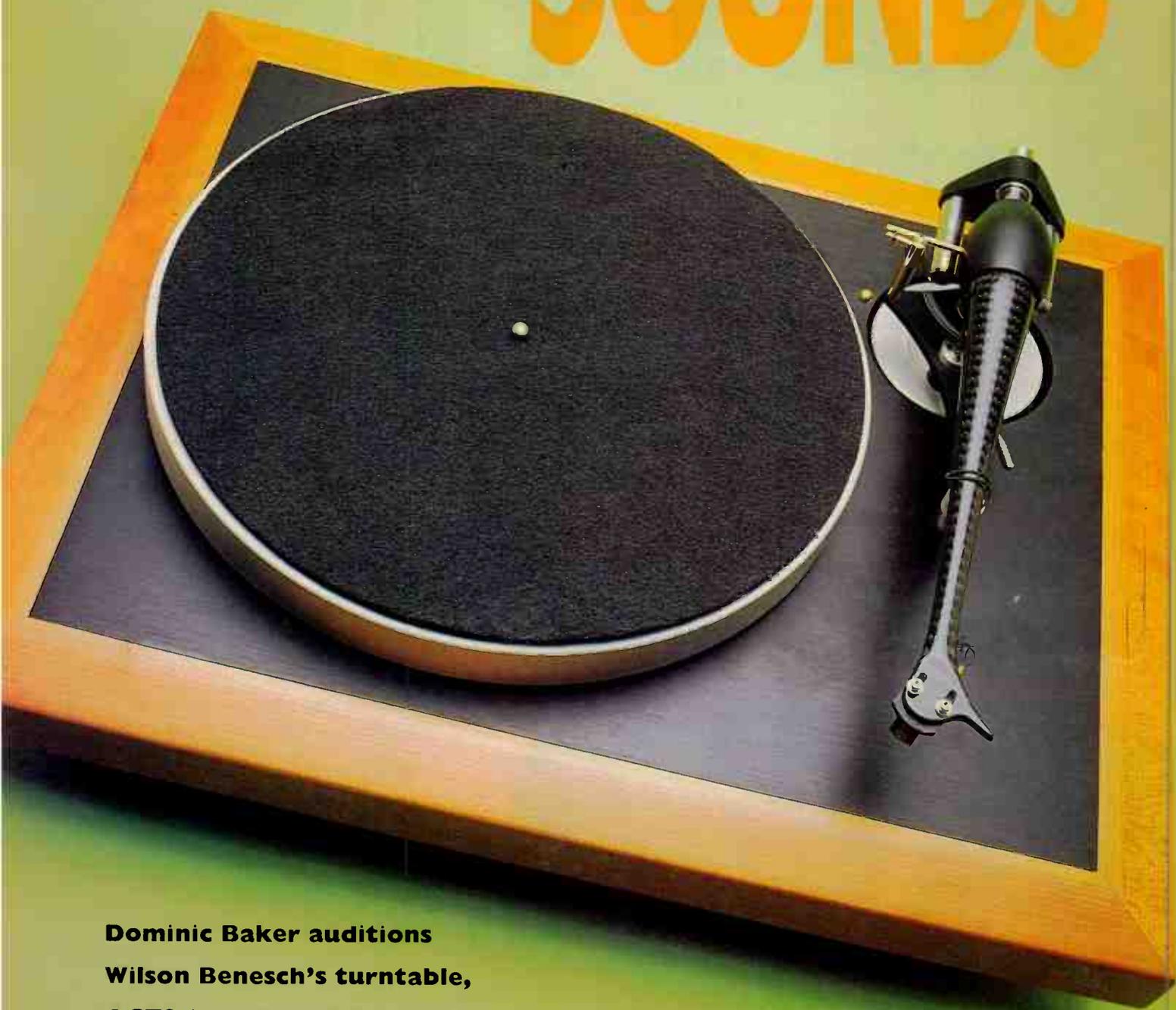
Can work well, if partnered to give weighty bass and smooth treble.

**Measured Performance**  
see p103



# COMPOSITE

# SOUNDS



**Dominic Baker auditions  
Wilson Benesch's turntable,  
ACT2 tonearm and Hybrid  
cartridge - all using carbon  
fibre in their construction.**

**W**ilson Benesch developed this, their first and only turntable to date, in 1990. It is a suspended sub-chassis design, the main component being a thick carbon fibre plate linking main bearing to tonearm rigidly. Carbon fibre can attain a modulus of stiffness five times that of steel and is half the weight of aluminium. Seven springs are used in this suspension system which is finely adjusted to control each degree of movement.

The Quartz referenced power supply provides two pure sine waves at exactly the right voltage and phase orientation to both windings of the motor to achieve a speed accuracy of 0.1%. The motor itself is a high quality hysteresis type fitted to the plinth via its own suspension system which minimises transmission of energy into the platter. The power supply also provides a DC supply to the plinth to power the optional Stage One phono amplifier.

Wilson's ACT 2 tonearm uses a moulded single component arm tube, which they claim is typically ten times stiffer torsionally than conventional types, three times stiffer in bending and an order of magnitude better in damping through the audio band. The arm tube is formed from two counterwoven helices of carbon fibre giving it its unique pattern.

Unusually, the ACT 2 uses a kinematic bearing. Unlike a unipivot or bearing race, this uses three ball bearings in a triangle, with a fourth bearing sat on top. This allows the arm to move freely in any direction with extremely low friction. The low slung counter balance is located using four carbon chrome balls, and also permits fine adjustment of azimuth as it is rotated from side to side.

For our review, at the end of the ACT 2 tonearm sat Wilson Benesch's Hybrid cartridge. The body, shell and cover are made from, you guessed it, carbon fibre, and the stylus is a highly polished elliptical diamond. Dropping it gently into the groove of Massive Attack's 'Better Things', Tracey Thorn's vocal had a wonderfully deep, rich texture to it, flowing gracefully and smoothly through the lyrics. Percussion was sharply defined and snappy in its delivery with a crisp transient attack that gave a real sense of precision and insight.

Beneath all this though there was an underlying smoothness and ease to its rendition that made everything liquid in a way only top flight turntables are capable of. Couple this with the lavish layers of detail and texture that the Wilson Benesch portrays, and the whole becomes an involving and intricate web drawing you into the music.

Bizarre's 'Keep the Music Strong' had dub bass sounding tight and forceful, the

tempo caught and tracked religiously. With its ability to dredge up a surprising amount of low bass, the Wilson creates a large and weighty sound. Further up in the bass, although timing was stable, I did find myself yearning for a more explosive kick, something to really drive the energy and feeling of the music forwards.

*Throughout the listening tests I was continually impressed and surprised by the super clean midrange and its superb neutrality of tone*

But again vocals were deliciously projected, full, but not too warm. Throughout the listening tests I was continually impressed and surprised by the super clean midrange and its superb neutrality of tone. There's a real sense of clarity and insight here, and in this respect the Wilson is one of the best I've heard.

Up top, treble was sweet but a little closed in with it - more so than my own combination of SME IV and Ortofon Rohmann mounted on a Systemdek II Xe900. By the year 2000 I should have saved just about enough for a Model 20. The Hybrid cartridge does need to see a load of 47k $\Omega$  though I found, the more normal 10-100 $\Omega$  for MCs curtailing upper treble early. This arrangement was possible with the DPA phono stage I used, but others may need minor modification.

With Nirvana's 'Dumb' from In Utero, things opened out to create a far wider soundscape. Cymbals were now brightly lit within the soundstage, which itself created a wide and deep image of the performance. Again the midrange really shone, with guitar strings richly

captured along with their deep and softly decaying harmonics.

REM's 'Radio Song' had Michael Stipe's vocal as clear and well conveyed as I've heard. The depth of emotion and feeling he puts into his lyrics came across well to produce a strong sense of realism. Cymbals had fantastic extension to their harmonics, fuelled by a strong, if not completely solid feeling, initial crash.

All along though I wasn't quite convinced. Concentrating less on its performance during the evening when it was used for background music, the Wilson failed to really grab my attention. I wouldn't call it bland, that's too strong a criticism, but dynamic contrast is certainly not one of its fortés. Things rarely propelled themselves forwards out of the soundstage, preferring to stay tightly interleaved with the rest of the mix. It is undoubtedly one of the most neutral set-ups around, especially through the midrange where tonally it is spot on. But it's a little detached and uninvolving with it.

I suppose that against CD nowadays, one of the most appealing things about a turntable is its characterful presentation. Perhaps for me then, the Wilson was just too neutral, and while I could certainly appreciate its strengths, I still craved a little more zing and life. Please don't dismiss this combination on my personal feelings alone though, have a listen for yourself. In many areas, it is still one of the very best.

<b>Wilson Benesch turntable</b>	<b>£1,775</b>
<b>ACT 2 tonearm</b>	<b>£1,199</b>
<b>Hybrid MC cartridge</b>	<b>£968</b>

**Wilson Benesch**  
**Falcon House,**  
**Limestone Cottage Lane,**  
**Sheffield S6 1NJ**  
 ☎ 01142 852656

#### WORLD VERDICT



Gives a technically excellent rendition but fails to really communicate the emotion in music.

Measured Performance  
 see P103

# TWIN BOX BONANZA

## Rotel's RDD/RDP-980 CD

transport and convertor come in at under £1,000 for the pair. Has Eric Braithwaite stumbled across a crock of gold?



The arrival of Rotel's new RDD-980 transport and RDP-980 DAC coincided with the start of the hay fever season. Streaming eyes don't stop you hearing, but they do reading, so it was a while before I focused on the instruction leaflet and noticed Rotel call their transport a 'Digital Drive'.

What with traffic pollution, the shambolic sell-off of British Rail and Eurotunnel's enormous debt, could it be the word 'transport' is becoming

politically suspect? Casting one slightly puffy eye over the book of words for the RDP-980 told me that it is not a 'digital-analogue converter' either. It's a 'Digital Processor'. Oh, well, they're only words. Sixteen-bit words, in a way. Count the letters. . .

Both Rotels are standard hi-fi black; what with an Audiolab 8000DAC, an Audiolab 8000A, a pair of Sugdens and a couple of Denon CD players, the hi-fi corner of the room looked like a black cat in a coal cellar at midnight.

Fortunately, the lights give an inkling of how to tell one from t'other.

The Processor has quite a range of them, in orange, red and green. Orange for whichever of the three sampling frequencies is locked on, phase inversion, co-ax input and output, red for on and mute and optical in and out and green for tape monitor and each of the four source inputs. All the functions are duplicated on a remote. At £450, this is quite impressive proof we are in a digital age.

If four digital inputs sounds a lot, remember we already have DMX satellite receivers with a digital output and next year will see the first Digital Audio Broadcasting receivers given a bit of luck. A wicked thought springs to mind: if Rotel had slipped in a level pot, you wouldn't even need a pre-amplifier. Unless you wanted to play those antediluvian round black things, of course.

Speaking of which, The Band's latest CD looks like a black vinyl seven-inch EP. Apart from two tracks, with that album they need all the helpful nostalgia they can get. It wasn't Rotel's fault that their version of 'Forever Young' sounded pensioned off. Better was an '86 live recording of 'She Knows' with Richard Manuel's vocal chords straining on the odd note while he concentrated on a very clubby atmospheric piano. Even better was the coarse, hoarse voice of Champion Jack Dupree later.

*“ One evening turned into a real Mozart session, with an excellent round tone from a clarinet in the K.581 Quintet and splendidly smooth and accurate tone from the violins and viola.”*

The Rotel did a grand job on pianos altogether, with Barenboim and the ECO apparently in excellent form in the lilting 'Romance' movement of Mozart's K.466 concerto. One evening turned into a real Mozart session, with an excellent round tone from a clarinet in the K.581 Quintet and splendidly smooth and accurate tone from the violins and viola. Both were rhythmically right on the ball, too, with this listener happily chuntering along to one melodic line after another.

And so it went on, through Terrorvision and re-hashes of Buddy Holly classics. Looking back, a couple of

very happy evenings later, it suddenly became obvious that not a single question mark had arisen over the Rotel's treatment of instrumental or vocal tone. Even Gerry Mulligan's baritone sax, a weird range for anything digital to cope with, had been quite incredibly realistic. As was the drummer's gentle brushing and rim shots, and the total cohesion with Chet Baker and John Scofield, whose guitar fingering was unmistakable.

A casual listen would have shown little obvious difference between the Audiolab 8000DAC and the Rotel RDP-980. Certainly not to the tune of another 300 quid. The devil, of course, is in the detail, but the Rotel wasn't missing much. Certainly, in tonal integrity there wasn't much to choose between them. Most noticeable was a clearer ambience in the Kingsway Hall recording of Tchaikovsky's Sixth, where through the Audiolab converter, the venue was unmistakable. It was less obvious through the Rotel, and there was more fuzziness over the string sections which were less sharply focused. Sinead O'Connor's 'Fire on Babylon' also had a more sharply etched vocal through the Audiolab, while Gerry Mulligan's baritone sax on the Sony re-issue of the Carnegie Hall concert acquired a cleaner-outlined shape too.

Some of this is down to the transport and why I never felt entirely convinced by it, I don't know. Mind you, there's only one other around at this price, and after that we talk about double the money. Hand on heart and hanky to eyes, it didn't altogether slaughter (oops! another politically incorrect word thanks to BSE) a Denon DCD-625 used as a transport. The Denon sounded brighter and a touch faster, though admittedly the soundstage had less depth. The RDD-980 certainly improved on this Denon's own DAC, with an altogether sharper focus and finer detailing. It's obviously worth considering as an upgrade to some single-box players: better than the Audio Alchemy DDI; up against tougher competition, except in facilities, faced with DPA or the QED Reference Digit.

The Rotel combination, however, does stand up pretty well against single-box CD players like the Marantz CD-17,



Quad 77 or Teac VRDS 10. It's a spot more dynamically robust and forceful than the first, but not as delicate; not as pure and tight in the mid as the 77, though it has a better integrated mid-bass; it doesn't have the Teac's touch of grittiness in the treble. Dynamically, although it had done so well otherwise with the smaller ECO and jazz quartets, the Rotel was just that bit more constrained when a grand orchestral climax popped up than the Quad 77 that was to hand. It just goes to show how good some £900-ish integrated players are these days. Well, three, at any rate. Make that four. A single-box player doesn't have the flexibility of Rotel's converter, and at £900 the RDD-980 and RDP-980 are welcome co-members of the under-£1000 club ●

**Rotel RDD/RDP-980** £450/450

**Gamepath**  
25 Heathfields,  
Stacey Bushes,  
Milton Keynes,  
Bucks. MK12 6HR  
☎ 01908 317707

#### WORLD VERDICT

One of the more affordable routes into two-box CD players. Good, clean dynamic sound with a neutral and pure mid-range tone.

**Measured Performance**  
see P103

# At Sixes and Sevens



**Replacing the 66/606, Quad's 774 I pre-amplifier and 7767 power aim to bring greater flexibility. Haider Bahrani and Eric Braithwaite are first to command this new pairing via the remote system console.**

**H**ot on the heels of the mains powered 77 CD player, Quad's latest addition is a new pre/power combo. Built in similar style to the 77 integrated, appearance is smart and tidy. Adding to the sophistication factor, the pre-amplifier comes complete with a remote system console, allowing you to command its functions alongside the 77 CD player and the soon to be launched 77 tuner.

The new pre-amp adds a selectable MM/MC phono stage and sees the welcome return (via the remote control console) of the treble tilt and bass step controls beloved of previous Quads. New is the ability to set sensitivity for each input, allowing the 'loudness' of different sources to be equalized and in the case of the phono stage, a wide range of cartridges to be matched. The

AV friendly power amplifier can be stacked to be used in a full surround system, with switchable outputs for dedicated rear speakers or a subwoofer.

### Haider Says

Total Eclipse Violent Relaxation is a new Trance/Ambient collection from the Blue Room Released label (of B&W fame). 'Virtual Terminal Energised' is a track driven by a TR-909 kick drum and a TB-303 type acid bass line, pumping at around 140bpm. Well, an impression of how I recall these sounds at least was presented to me by the Quads. The sound was tight and well controlled in the mid band, enhanced by a hard thumping bass. There was, however, a hint of accentuated treble. The track 'Chaotic Circus' pulsed and beeped with

the madness of a drunk R2D2, showing off perhaps the crisper nature of the pair.

Moloko's 'Day for Night' was a great deal more encouraging. The sound of the vocoder just tickled the senses from the inside, whilst the drum and bass sounds were a lesson in control and precision. The sparser sound of 'Dominoid', also off Moloko's Do You Like My Tight Sweater album, was even more appealing, opening up what had, until now, seemed a slightly confined soundstage, but the whole production still gave the impression it was in overdrive.

Garbage's 'Stupid Girl' was a little less forgiving, with Shirley Manson's vocals coming out rather too dry and crisp. Guitar tweaks and riffs were also slightly exaggerated and the soundstage was confused. Having said that though,

what the Quads presented they presented with clarity and strong treble energy.

Alanis Morissette's Jagged Little Pill was a good exponent of this energy, especially on 'You Oughtta Know'. This was the Quads on speed. Production was solid, with plenty of oomph and drive culminating in a good, clean if dry sound. The irony is that this very same energy assisted in pouring a bucket of water over Mariah Carey's rendition of 'Without You'. The highlighted reverberation on her vocals really overran the performance and distracted me from the rest of the song.

Ravel's String Quartet in F major, elegantly played by the Chilingirian String Quartet, brought everything back into line again. The sounds of the first movement were almost clinical, with plenty of attack. The fuller violins of the second were nicely rounded and clean, if slightly hard at the top.

*Though the new 77 pre-amplifier takes the facilities a step forward from the integrated 77, soundwise it's no change*

Next I switched to LP with our Garrard 401 turntable and Goldring 1042 MM cartridge attached to SME's 312 arm. Via the console, I set the sensitivity to low (7.75mV). Tracy Chapman was first on the platter with her Crossroads LP. Most of the amplifier's clean, tight presentation was retained, with some good detailing coming off the title track. The loss of lower end response on the other hand brought the crispness of the amp's behaviour more into prominence.

Fleetwood Mac's Rumours produced a more open soundstage on tracks like 'Dreams' and 'Go Your Own Way', but overall things were

unfortunately uninspiring. Swapping over from the Garrard to the Wilson Benesch set-up reviewed in this issue didn't bring much of an improvement. I took John Lee Hooker's Boom, Boom out of its sleeve and let it spin, hoping its fulsome bass would help to balance things better. This escapade turned out to be as fruitless as J LH's vocals, which had an obvious lack of colour and depth.

Fed by line sources the pre-amplifier offers a clean enough sound with good detail, and the power has speed and control on its side. As far as the phono stages are concerned though, enough said.

**Eric Says**

Down at Huntingdon, Quad has been dancing the two-step: two steps forward, one step back. Though the new 77 pre-amplifier takes the facilities a step forward from the integrated 77, soundwise it's no change.

Richer and more fulsome than a 34/306, the new pairing might have been expected to attain equal standards of tonal purity and precision of imagery, but even applying an Argo pre-amplifier to the power amp didn't tighten up what was a somewhat diffuse central image by comparison. String tone also lacked 'body' and seemed thinned out next to the bigger sounding midrange. Nor, vice-versa, did applying the pre-amplifier to other power amplifiers change anything. The 77CD player is actually capable of more tonal subtlety than either the new pre-amplifier or power amplifier would let through.

Take Gerry Mulligan's baritone sax for example, which had a good blowy sound to it, but one which was in essence, for a pre/power combination costing £1450, a blowsiness that was really a bit over-blown. The drummer's kit suffered too, lacking some of the finer elements of the wire-brushing and stroking that in the last analysis make the recording entirely credible.

The phono stage, alas, didn't come up to the quality of previous Quad disc inputs. It was stubbornly uninvolving,

with instruments lacking true body and scale throughout. Violin tone had a thin and slightly papery quality, cellos and double basses a diffuse warmth which was short on attack. In Vivaldi's mandolin concerto, the tonal colour of the two mandolins had a gulf fixed between them, the one sounding steely, the other more like a guitar. In reality they should sound much closer tonally to each other, but still be definable as different instruments.



I sound a bit disillusioned, but the 7741/7767 are, really, only the 77 integrated with a phono stage and tone controls, which means the price is hardly competitive and they are sonically outclassed. Perhaps that's to misread the design aim; if that was to add flexibility above and beyond the integrated, then so be it

**QUAD 7741/7767 £849.95/599.95**

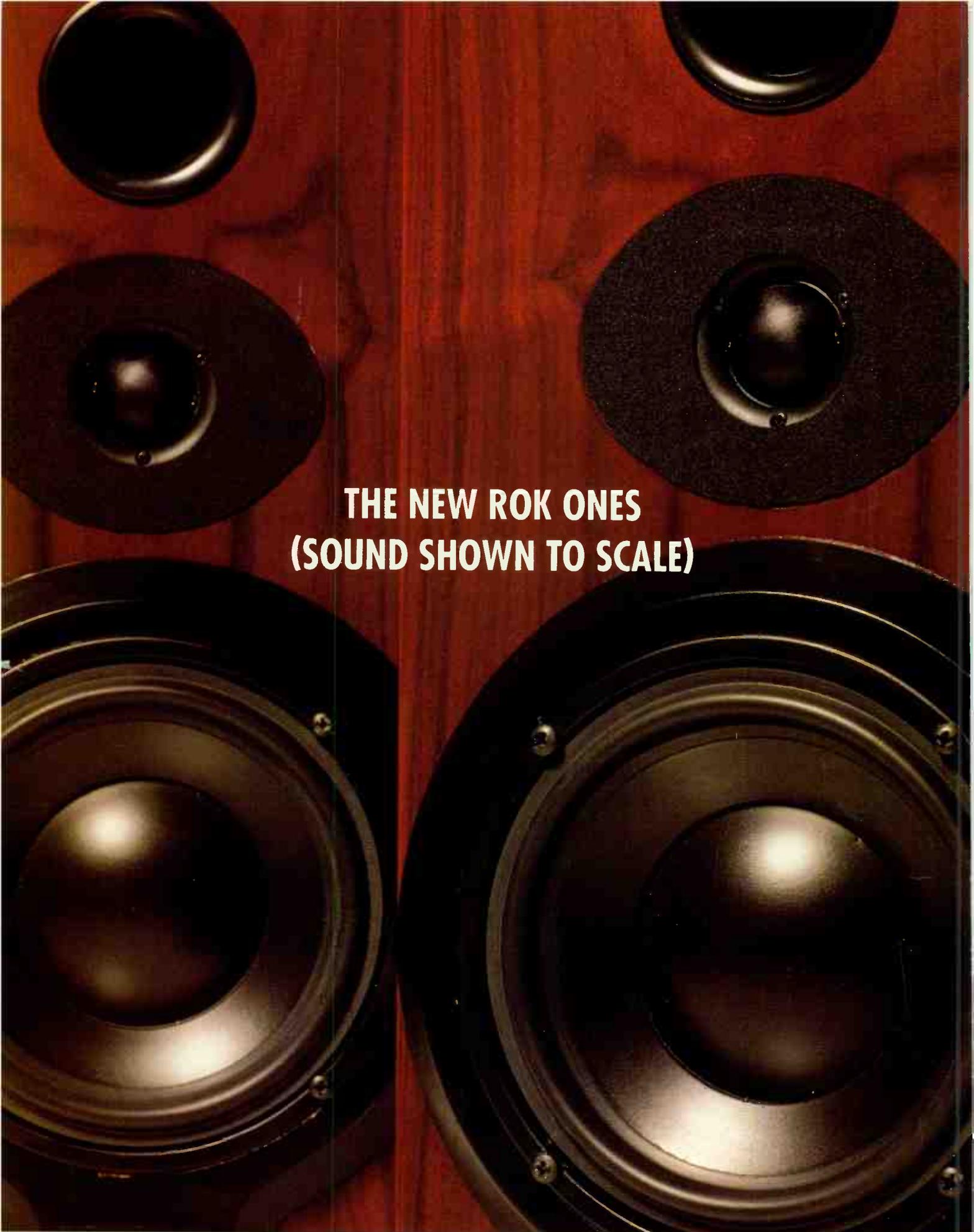
**Quad Electroacoustics**  
**St. Peters Road,**  
**Huntingdon, Cambs. PE18 7DB**  
**☎ 01480 433777**

**WORLD VERDICT**

**7741**   
 Bright and detailed, but phono stage inadequate at this price. Flexibility is no excuse for mediocre sound.

**7767**   
 With good punch, speed and attack the power amplifier is the better half of the pairing. Still a little uninspiring though.

**Measured Performance**  
 see P103



**THE NEW ROK ONES  
(SOUND SHOWN TO SCALE)**

**ROKSAN**

Stonehill, Huntingdon, PE18 6ED, England. Telephone: +44 (0) 1480-431577 Fax: +44 (0) 1480-432777  
E mail: [info@rokson.co.uk](mailto:info@rokson.co.uk)

World Radio History

# HEADSTRONG TECHNICS?

**The replay head fitted to Technics' new RS-AZ7 cassette deck features 'thin film' technology developed for use in DCC recorders, but is it state of the art? Noel Keyword explains.**

**T**he technology behind the replay head of Technics' new RS-AZ7 cassette deck is fascinating. It has also given Technics the opportunity to let their professor of acronyms try for his Masters, sprinkling terms like MR, AZ, BBP and such like liberally through their literature on the subject.

So revolutionary is the head that Technics took the time and effort to fly two Japanese engineers to the UK (and doubtless to the rest of Europe and the U.S. at least) just to explain what it's all about. And to make sure potential buyers don't miss the point, the motorised cassette draw has an illuminated window behind which the new AZ head sits bathed in lurid green light. Technics probably pinched this idea from Luxman, who once put a valve in a window on the front of one of their amplifiers, of all things. Perhaps their engineers were inspired by a night out in Amsterdam.



One thing the Lalis did that few other speakers do was make listening to music fun.  
Chris Beeching, Hi-Fi News '95

# Lali

Impulse  
Loudspeakers

Unit 14 - 16  
62 Tritton Road  
Dulwich  
London SE21

Telephone  
081 766 0474  
Fax  
081 766 0468

For those of you that think that modern life has been immeasurably improved by the advent of nuclear power, soap operas and the ending of all wars, you should replace all your records with CD's.



ortofon  
MC 3000  
Mk II

# ortofon

# 01753-889949

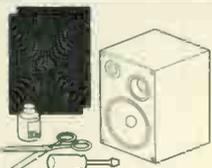
"All I need is the right lead..."

- Sam Spade-Connector during his undercover investigations into the Mystery of the Lost Chord. He subsequently solved the case by utilizing a pair of ORTOFON SPK100 speaker cables.

SPK100

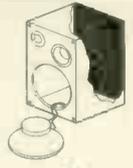
ortofon 01753-889949

**Better off DEAD** THIS MONTHS PRODUCT FEATURE **3**  
 no vibrations **dead** sounds perfect **DEFLEX** Acoustic Panels



You need at least 2 Deflex panels for a pair of small bookshelf speakers, 4 panels for a pair of Tannoy 6's, and at least 6 panels for larger cabinets

Once you have gained access to the inside of the cabinet, remove foam and/or wool damping from the inside of the speaker (if fitted)



Place the flexible Deflex panel thru' the speaker cut-out and stick to the inside of the cabinet using the recommended adhesive



Now sit back and listen to the extra detail in sound, and far less distortion when played loud

**What the Experts have to say...**  
 "...a marked improvement was obvious from the first few bars of REM's Automatic for the people album..."  
 HI-FI News & Record Review - March 1994  
 "...Deflex panels seemed to give greater lightness and control, improved internal clarity, and pitch definition - all without deafering the sound in any way..."  
 "...But one thing for sure - the Deflex panels are no gimmick. They work..."  
 Audio Video - December 1994  
 "...the result was sharper imaging, wider dynamics and a more natural sound..."  
 HI-FI Choice - January 1994  
 Sound Quality: **★★★★★**  
 Value for money: **★★★★★**

Standard Panel £7.95 (28cm x 21cm) - Small Panel £5.95 (24cm x 13cm)  
 Sub-Woofer Panel £14.95 (34cm diameter) - Adhesive £3.50 - P&P £5.00

For a **FREE** comprehensive information pack and details of other products from **Spectra Dynamics**

Tel. (01745) 571600  
 Fax. (01745) 570194

**WORLDWIDE DISTRIBUTORS:** (9 - U) **Russia** Tel 095 917 4385 - Fax 095 917 8762. **S.Africa** Tel/Fax 011 462 7290. **Singapore** Tel 743 7124 - Fax 747 5340. **Spain** Tel 34 3 265 82 10 - Fax 34 3 265 77 94. **Sweden** Tel 0660 560 30 - Fax 0660 561 01. **Switzerland** Tel/Fax 61 361 64 66. **Switzerland** Tel/Fax 21 824 1175. **U.S.A (Ca)** Tel 415 669 7181 - Fax 415 669 7558. **U.S.A (W)** Tel 608 831 3433 - Fax 608 831 3771. **U.S.A (Or)** Tel 503 369 6821 - Fax 503 389 5273

Spectra Dynamics Limited Talsgarth Trading Estate Meliden Road Dyserth Chyrtd 110 6005

**KLIPSCH** HORN LOUDSPEAKERS **®**  
**IMMORTAL** **SOUND FORESIGHT**

Hear **KLIPSCH** for yourself in: Avon 01934 520248/01272 686005. Bucks 01296 28790. Cheshire 01925 828900. Cornwall 01209 612260. Hants 01730 895194. Herts 01923 856497. Kent 01303 256860. London (W1) 0171 486 8262. (NW3) 0171 431 7423. (NW6) 0171 794 7848. Middx 0181 892 7613. N. Ireland 01232 403634. Northants 01604 37871. Notts/Lincs 01777 870372. Oxon 01865 247783. Scotland 01381 620655. Suffolk 01284 724337. Sussex 01903 872288. Wales 01978 364500/01745 343060. W. Mids 0121 429 2811/455 01667/742 01254/354 2311, 01203 525200. Wores 01384 444184. Yorks 01302 781387. UK Distributor 0121 430 7817

Whilst the packaging has been designed to draw attention to the RS-AZ7's main feature, I noted that otherwise the specification is modest. The transport is a single-capstan type, of so-so performance it turned out. There's tape tuning, which makes the deck flexible in terms of tape choice, but it lacks Dolby S. These deficiencies are significant when the price of £299 is taken into consideration.

*“I noticed early on that the lower octaves of piano sounded natural, possessing firmness of delivery and freedom from emphases.”*

Switching on, the RS-AZ7 cassette compartment lights up that aforementioned attractive shade of green. To the right sits the fluorescent record level display which is on the small side. This shows tape type selected (automatically), as well as Dolby (B&C), which I really had to peer at to read. The record level part of the display has 0VU set at Dolby flux which is normal enough, even though the record head can get quite high levels onto tape.

The deck itself works slickly, especially with its DAT-like dual-speed fast-wind and the cassette lifter that operates when the draw opens to make retrieval easy. While the standard of finish is good, build quality can only be described as lightweight, and Technics are outclassed by their rivals in this respect.

### SOUND QUALITY

Tests showed the RS-AZ7 can handle metal tape, so I tuned in TDK MA and set about recording with peaks on the level meter just hitting the red. With rock music in particular, which commonly has a lot of treble, innately bright recordings became thin sounding and sharp. No matter how many times I used the tune system, it consistently yielded a bright tonal balance (tune systems are not always consistent, but this one was). My treble torture test, Steve Earle's *Someday*, didn't sound happy through the RS-AZ7, coming across as splashy, coarse and sibilant. Some of this is down to the treble lift of the tune system - ferrics and chromes sounded balanced and altogether smoother - although flutter also plays a part.

Conversely, recordings with strong bass energy were handled very well. I noticed early on that the lower octaves of piano sounded natural, possessing firmness of delivery and freedom from emphases. Although cymbals and percussion were rather bright on 'The Sound of Drums', from Angelique Kidjo's *Fifo* album, the walking bass line was prominent and impressively solid. It potently underlined the fact that this deck has superb bass.

Because the transport held speed tightly (i.e. low drift), subjectively it didn't slur or wander when reproducing piano. I couldn't fault it in this difficult area; not for one small second did either Ashkenazy or Perlemuter sound drunk! However, there was on occasion some pitch pollution caused by capstan wow, which tainted instruments tonally.

With prerecordeds, the RS-AZ7 did a reasonable job but head azimuth error and resultant treble loss was audible as dullness. James Brown's 'Gravity' sounded fine, apparently possessing clean bass and midband along with soft treble. My Nakamichi ZX-9 showed, however, that the Technics was rounding leading edges and flattening dynamics.

For a reason I don't understand, Technics claim this deck is good with old tapes. This promise wasn't fulfilled



with the wonderful *River Deep*, *Mountain High*, where again the Nakamichi sorted it out far better. I should point out here that NADs, Yamahas and Pioneer's FLEX machines can all beat the Nak. in terms of replay quality, so it is not an unrealistic standard to use.

The replay head of the new RS-AZ7 does a fine job and confers some useful benefits, but there's more to cassette than replay head performance alone. Technics need to do a better job of addressing its weaknesses, then the RS-AZ7 will become a more balanced and successful design ●

**Technics RS-AZ7** **£299.95**

**Panasonic**  
**Willoughby Road,**  
**Bracknell,**  
**Berks. RG12 4PF**  
 ☎ 01344 862444

### WORLD VERDICT

Tuning system prefers ferrics and chromes to metals. Excellent bass but mid and treble lack dynamics.

**Measured Performance**  
 see p 103

# THE TRICKS OF TAPE

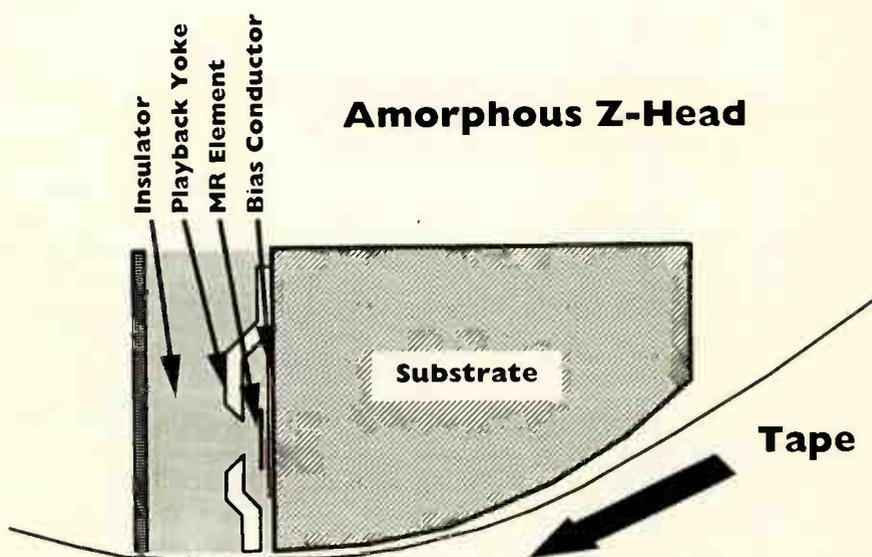
## Part 2

**Technics have just launched their RS-AZ7 cassette deck using a special head developed from Digital Compact Cassette players. Noel Keywood investigates what this new technology has to offer.**

**T**echnics have taken the thin-film head technology developed by Philips for Digital Compact Cassette (DCC) and, with Japanese ingenuity, turned it into a head suitable for steam-driven analogue cassette. Technics make many claims for this clever new head and my tests validated all of them. Their new Amorphous Z-head replay head works well. But will it transform cassette performance?

When put into context, it seems unlikely. This is a replay head; it is not a record head. The crucial difference is that record heads carry a higher flux density, especially when recording onto metal tape - and this is a key issue in tape recording. As it stands the fine structure of the AZ-head is unlikely to be able to handle the flux required to make analogue recordings.

Digital recordings, for which thin film heads like this were developed, don't demand high flux levels. They need only record two signal states (0 or 1 for digital); level is not an issue. The thin film



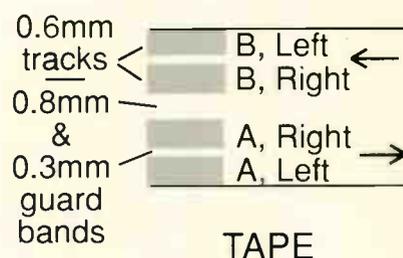
head is a high technology, mass production item designed to avoid the limiting cost of the conventional record/replay head, with its miniature coil, bulky magnetic circuit and narrow gap that demands precision machining. Thin film was designed for digital, where precision must be accompanied by cost effectiveness. In the RS-AZ7, however, I believe Technics have not used it to save money, because they must still fit an expensive conventional record head. Instead, it's a unique selling point.

So the AZ-head will not find its way into more common usage on budget decks that first record, then replay, using the same "combination" head. It seems unlikely to become the saviour of analogue tape recording, nor an item that will give Nakamichi owners sleepless nights. But this ingenious head could well become common on three-head decks, because it meets Technics' claims and works well enough to justify its existence. It's an ingenious piece of engineering. Here are the issues.

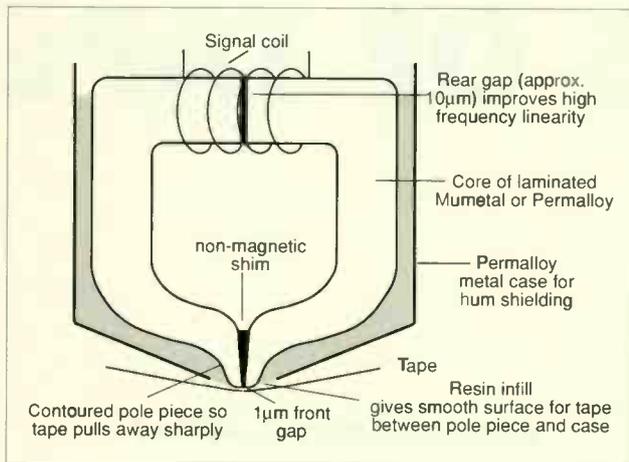
### DYNAMIC RANGE

Analogue cassette has a very narrow track width of 0.6mm. To give long recording times from as little tape as possible, it moves at a snail's pace, at "one and seven-eighths" inches per second (or 4.75cms/sec), the slowest speed commonly used in tape recording.

At this slow speed and narrow track width insufficient volume of tape passes over the record head to



Compact cassettes use thin tape and slow speed for compact size/long playing times. But the low volume of tape passing the head limits dynamic range to around 55dB.



Conventional record and replay heads are much alike, except the record head has a wider front gap and must accept a higher magnetic flux. The coil induces (record) or senses (replay) a magnetic flux in the core.

At the front gap the magnetic flux takes the path of least reluctance, through the magnetic tape, which it magnetises. The assembly is very hum sensitive, so it must be shielded. Contouring the front pole for sharp tape pull away minimises low frequency response undulations. The front gap tapers down toward the front to concentrate flux.

achieve adequate dynamic range for music reproduction. With cassette, ferric tape offers around 55dB dynamic range, chrome 58dB and metals can get to 61dB or so. Around 70-80dB minimum is required, so at a fundamental level, cassette still needs an extra 15dB or so dynamic range before reaching modern expectations, amongst which are absence of hiss.

At present Dolby makes up the difference, Dolby B giving 10dB improvement, Dolby C 19dB and Dolby S 24dB.

Dolby apart, expanding dynamic range demands either the upper

recording limit be raised, or the noise floor be lowered. To expand upward higher coercivity tapes are needed. These in turn demand record heads capable of generating yet higher magnetic flux densities.

More coercive metal tapes continue to appear, the most advanced being Sony Metal ES, with its visually distinctive white ceramic shell. This can accept enormous signal levels, but only top Nakamichis can exploit it.

When considering dynamic

range, tapes are not the limiting factor. It is record heads that, for the time being, have reached a practical limit and with the advent of the new AZ-head this limitation has become more conspicuous.

### LOWER REPLAY NOISE

Signal coils generate noise, from the Brownian movement of atoms within their wire, especially where many coil turns are used to generate a usable output from a weak magnetic field (amplifier input noise does not predominate, as is commonly thought).

I measure replay noise by inserting

an empty cassette into a machine, selecting Play and measuring the noise of the replay chain, CCIR weighted, Dolby out. This is consistently -61dB (ref Dolby flux). By using an empty cassette, i.e. one without tape in it, I eliminate tape hiss (this is a test of underlying engineering quality rather than one intended to represent real life performance).

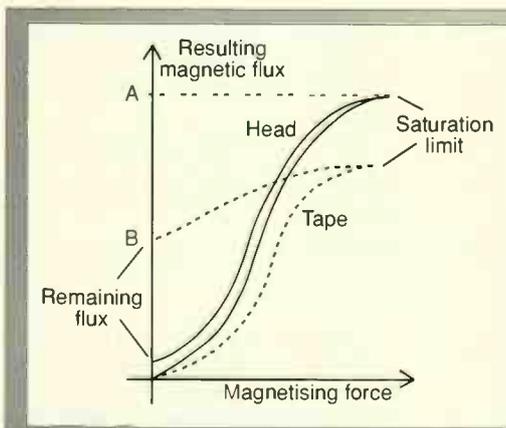
By using a low impedance Magneto-Resistive element that changes its resistivity under the influence of a magnetic field, Technics have done away with the replay head's coil and the noise it generates. The RS-AZ7 measured -65dB, usefully lower than usual.

However, in use this benefit is swamped by tape hiss (bias noise) which, for the quietest tape available (TDK SA-X), measures -56dB. On the RS-AZ7 it measured -57dB. So the actual noise improvement is small. Tape hiss dominates during replay, not noise from the head or replay amplifiers.

### HEAD DISTORTION

Strong distortion is produced in tape recording by magnetic overload, termed 'saturation'. The force needed to magnetise a tape is greater than the flux that results. As a consequence, the replay head encounters a lower magnetic flux than the record head. It has an easier life, but not that easy. It can still experience a strong enough flux to suffer core distortion.

This was another problem Technics faced when adapting the thin-film head to analogue use. What we have to be aware of here is that a hi-fi deck like the RS-AZ7 should, for example, be able to replay a recording made on a Nakamichi.



The head must use a core that is highly permeable (ratio of magnetic flux in material to that in free space, for a fixed magnetising force), but does not retain magnetism (low remanence & coercivity). It must have a high saturation limit too.

Special materials such as heat compressed ferrites, Permalloy, Crystalloy, Sendust, etc are used. Metals are laminated to minimise eddy currents and improve high frequency performance.

Tape must also have a high saturation limit but, unlike the head, have high remanence in order to retain a strong magnetic signal. This means it will also have high coercivity (the force needed to reduce the remanent flux to zero).

A recording head must develop as strong a magnetic flux as possible (A). A replay head sees only the remanent flux of a tape (B) - always lower.

## HEAD MATERIALS

Source: Akai

Permeability ( $\mu$ )	Permalloy (0.1mm thick)	Sendust (0.2mm thick)	Ferrite (0.6mm thick)
D.C.	40,000	30,000	10,000
1kHz	20,000	11,000	10,000
10kHz	6,400	3,000	10,000
100kHz	1,500	600	9000
Saturation limit (G)	7,000-9,000 <small>hard / soft</small>	9,000	5,000
Hardness (Hv)	130	500	650

 $\mu$  = flux in medium / flux in free space

G = flux in Gauss

Permalloy is popular for heads, but it is soft and wears quickly and unevenly. Hard Permalloy resists wear better but has lower saturation. Permeability falls off rapidly with frequency, ameliorated by using thin laminations.

Sendust has better wear resistance and a high saturation limit, but is difficult to machine and fabricate. Ribbon Sendust can be laminated down to 20 $\mu$ m (0.02mm) for good high frequency performance.

Ferrite cores exhibit very good high frequency performance and are wear resistant, but don't have the highest saturation limit.

Trouble is, with a coercive metal tape like Sony ES this can be anything up to +8dB above usual, enough to overload many conventional heads I've found from experience, let alone a thin-film type.

In counteracting this problem Technics' engineers have been astonishingly ingenious. During their visit they explained to me that head distortion was counteracted by feedback, but I admit to having difficulty fully understanding the details, explained in broken English with great difficulty but valiant effort by the Japanese engineers. A permanent magnet is used to align the field through the MR element and additionally, I believe, to establish a flux through it to avoid distortion. However, a controllable bias flux is applied through one conductor, and a signal flux applied through another conductor to provide an element of linearising feedback.

Distortion tests showed the RS-AZ7 can record and replay high signal levels well. For example, at 40Hz, Dolby flux level, the RS-AZ7 managed 2% - a relatively low figure (good recorders commonly produce around 3%-6% distortion on metal tape). So Technics have combated this problem successfully.

## HEAD CONTOUR EFFECTS

As tape pulls away from a replay head the recorded field progressively weakens as a function of distance. It still retains an influence, however, especially if the head has a smooth contour around the gap, for easier fabrication. At low frequencies, where wavelengths are long, the waning flux of tape that has left the head gap interferes with that moving across the

gap, generating low frequency undulations. Screening and ensuring the tape pulls away from the head gap at a sharp angle minimise this (see head diagram), but make fabrication more difficult and the head more expensive.

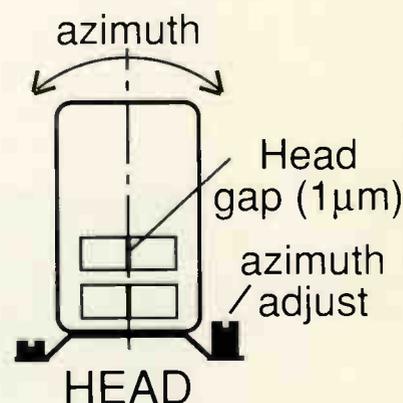
Technics use a sophisticated magnetic circuit where permeable yokes conduct field changes in the head gap back to the MR element. The tape moves away from the front yokes at a sharp angle and this does, as Technics claim, eliminate low frequency undulations. My analysis of low frequency response clearly shows how the head rolls off smoothly below 40Hz, measuring -3dB at 20Hz. This is an unusually good result and, with low distortion, should contribute to clean sounding bass.

## HEAD AZIMUTH ERROR

If the replay head does not match the vertical alignment of the record head (azimuth) its fine magnetic gap will straddle the short wavelengths of high frequency signals, causing severe high treble loss. It's a common problem, a primary cause of dullness and muffling. The cassette was never designed to record up to 20kHz, at which a wavelength measures just 2.3 $\mu$ m (two thousandths of a millimetre) and head azimuth error has proven an intractable problem - even for the Japanese.

Technics claim that by reducing the height of their head gap (not width) from 600 $\mu$ m to 489 $\mu$ m makes the AZ-head less sensitive to misalignment. Trouble is, in our review sample deck

the AZ-head was still sufficiently misaligned to suffer significant high frequency loss, even if the rate of treble roll-off was slower than usual, as they predict. Technics still need to sort out this problem, which bedevils them. If Nakamichi can do it, so can Technics, although I suspect Japanese production speeds/build times come into this, making it as much an economic problem as a technical one.



## SUMMARY

The new AZ-head is undoubtedly a clever piece of engineering. But until it can record as well as replay, its impact will be limited. Perhaps Technics should consider extending it into this role by using Dolby S, which offers overload protection. It could do with a better platform in which to operate than the RS-AZ7 deck too, whose transport was mediocre. All the same, the ingenuity behind this new head is impressive. I hope Technics will continue to use it ●

# THE NEW HARBETH HL-P3ES

## Perfectly formed!

Remember the time traveller's box that was far bigger on the inside than out? It's the same with the new Harbeth HL-P3ES: the big-box sound from a conveniently small cabinet!

Jazz, classics, pop, speech whatever; the HL-P3ES brings the sweet, detailed and dynamic full-scale sound of reality to even the smallest room or studio!

Whatever your musical (or home theatre) tastes, the HL-P3ES transports you right into the recording – you're simply never aware of these unobtrusive mini-marvels. Just as real hi-fi should be.



Uncover hidden depths – sounds you'd never noticed before – in modern sessions and your most treasured recordings. That's what we mean by low-colouration.

A pair of these mini-Harbeths upgrade any hifi system and the screened magnet technology and super-size sound make them ideal for front and dialogue channels in AV systems.

In nine beautiful real-wood veneers the HL-P3ES blends into any room, acoustically and cosmetically.

**HL-P3ES**  
**HARBETH**  
 ACOUSTICS  
MONITOR SPEAKERS MADE FOR MUSIC

NEW GENERATION  
 for  
**96**

The new Harbeth HL-P3ES: *dynamically!*

For information please contact Heather Lewis,  
 Harbeth Acoustics Ltd. Unit 1, Bridge Road, Haywards Heath, W. Sussex, RH16 1UA, UK.  
 Tel: 01444 440955 Fax: 440688 E-Mail CompuServe 100624,455

## the AUDIO CONSULTANTS

*dealers with a difference*

*At last we have received the Unison Research Mystery One Pre-amplifier. Exquisitely sculptured in solid cherry and offering superb sound quality. Combined with their Smart 845 amplifiers, it produces a sound so musical and very transparent.*

*Cary Audio have impressed us with their range of 300B amplifiers. Really good sound with a tighter bass than most. Their CD-300 player incorporates 3 valves in the output stage and produces a sound tonally quite different to that normally associated with CD.*

*The new Mentor turntable from Nottingham Analogue is well ahead of the high level established by their first version. Hard to believe but true. Probably the last turntable that serious vinyl lovers need to consider, especially when combined with their Paragon linear tracking arm.*

*Because of the success we have had with the CDs and DACs designed by John Curl, we are pleased to be able to demonstrate pre- and power amplifiers from Parasound. This amplification not only provides incredible value for money but has a sound closer to valves than solid state.*

*A genuine consultancy offering totally independent advice providing audio systems for those that appreciate music rather than hi-fi*

Alon Speakers  
 Analysis Ribbon Speakers  
 Analogue Tracer Cartridges  
 Arion Audio  
 Art Audio  
 Audio Note  
 Blue Oasis Cartridge  
 Cary Audio Design  
 Impulse Speakers  
 Klipsch  
 Nottingham Analogue Turntables  
 Paragon Linear Tracking Arms  
 Parasound  
 The Vamp  
 Trilogy  
 Unison Research  
 V-Damp Isolation System

Demonstrations by appointment only  
**0171 380 0866**

## Real Hi-Fi in the City

**DANISH HARD CORE!** Amplifiers that is. Check out the outstanding value for money offered by the **Densen Beat 100**, a minimalist integrated combining articulation and rhythm with a power delivery that drives all but the most demanding loudspeakers. The powerful and refined **DM10** offers more of the same, but with the advantage of dual mono operation and massive (150wpc) power capability. The sheer power and presence of these amplifiers contrasts nicely with the delightfully refined sound produced by the range of valve and hybrid models from **Copland**. The **CTA14** integrated combines valve sound with the muscle of solid state power at a very reasonable cost while the all valve integrations and pre-power combos combine the best of modern valve technology with great build quality and finish, all at real world prices.

**The  
 Sound  
 Organisation  
 London S.E.1  
 0171 403 2255**

# TWO TONE

The harman/kardon TU 950 is one of those rare beasts in the world of hi-fi tuners that seems to possess more buttons than available features. The purpose of most of them is obvious, but the functions of some of the eight buttons that sit below the display are a little more difficult to fathom at first glance.

Memory is pretty much self-explanatory, but it was RDS, AF, Display and PTY that really drove me to the user manual. RDS toggles the Radio Data System on and off, while AF will automatically scan up to six alternative frequencies for the best reception. Display shows the information available, and PTY can be used to search the various stations for a particular Programme Type, such as news or sport.

I felt more in control now, so with RDS on I homed in on the 'Classics' of Radio 3, featuring the works of Szymanowski. The playing of the Silesian Quartet was smooth and dynamic as it emerged from the 'speakers, flowing along easily. I had little trouble differentiating between instruments; each of them seemed to have its own realistically 'woody' sonic signature intact, thanks to a taut and weighty bass.

Unfortunately, the quartet sat in a soundstage which couldn't quite shake itself free of the 752s' cabinets, and the subtle details that flesh out the shape of the recorded acoustic were veiled, giving a rather vague impression of the venue. Stravinsky's Concerto in D minor performed by the Basle Chamber Orchestra moved powerfully and rhythmically, but for all its gusto still

remained rather box-bound.

Tonally, h/k's TU 950 struck a nice balance compared to a lot of others in its price bracket, which tend to have engineered treble lift to add artificial insight and detail. It didn't have quite as broad a palette of tonal colours to work with as the NAD 412 reviewed in June's issue, but it certainly painted a better picture than most.

Manic Street Preachers with 'Design For Life' and 'Heaven' by Sarah Washington punched along foot-tappingly, even though the 950 did a good job of showing up how heavily processed Radio 1's signal was. The same could also be said for commercial stations, where its truthful presentation of a broadcast never really detracted from my enjoyment.

AM reception with the loop aerial supplied turned out to be a bit of a disappointment. Capital Gold genuinely sounded as though it was being transmitted from the bottom of a bucket, and Richard Skinner on Virgin was constantly plagued by background hum and warbling. For most people, AM quality is almost incidental, but it was still a bit of a shame that the performance here wasn't as good as it might have been.

Harman/kardon's new TU 950 tuner has only seven more, but messages too via Ed: Jan Parks looks and listens for information in the hi-fi world.



For £199.99 the TU 950 is sitting close to the top of the class. It has an impressively dynamic, rhythmic presentation free from the kind of response tweaking that leaves most sub-£200 tuners with a sterile sound and bright treble. However, for a tenner less, the NAD 412 provides even better tonal colour and a broader, deeper soundstage.

**Harman/kardon TU 950 £199.99**

**Harman Audio Ltd.**  
Borehamwood Ind. Park,  
Rowley Lane,  
Borehamwood,  
Herts. WD6 5PZ  
☎ 0181 207 5050

## WORLD VERDICT

Sound quality is generally impressive. Let down by a rather constricted soundstage, but still good value.

**Measured Performance**  
see P103

# World Mail

WRITE & WIN  
WITH  
HI-FI WORLD!

Every letter we print  
wins a superb prize!

Audiophile  
International  
LPs & CDs,  
Newnes Audio &  
Hi-Fi handbooks,  
or a FREE  
subscription to  
Hi-Fi World  
for the best letter  
of the month!

Please write to  
Hi-Fi World Mail  
(with prizes)  
64 Castellain Rd  
Maida Vale,  
London W9 1EX

## LETTER OF THE MONTH

### LAZY DAYS

One lazy Sunday afternoon I decided to remove the front grilles from my 'speakers while listening to my system, consisting of Naim NAC 72/NAP 180 amplifiers with Hi-Cap, Meridian 506 CD player with Chord Solid interconnects and Royd Prior loudspeakers with Chord Twin Flatline 'speaker cables.

I can honestly say that the difference was amazing. The whole system opened up - it was like opening a cage for an animal to escape, the sound stage was as never before. My system was just sitting there waiting to be unleashed. But how come removing the grilles is never really mentioned by you in the pages of your excellent magazine? Am I doing something wrong? Apart from the obvious reason of little ones putting their fingers through delicate parts, are there other reasons?

Also, may I ask why you have never written a review on the Royd Prior 'speaker? I know a lot of people find that their bass rather booms, but in my listening room all the speakers that I auditioned with my system sounded bright or laid-back. The Priors seemed ideal partners for the Naim equipment. They really are a good 'speaker.

Why do I listen to the system rather than to the music? I mainly play well-produced music that sounds good through my hi-fi. I'm probably missing out somewhere along the line. Is this normal for a budding audiophile? **Anon'**

*Well, Budding Audiophile, I think you've been caught in the great hi-fi enthusiast-unfriendly net that we all get tangled up in every now and then, and from my own experience, it's not easy getting out. Once the grilles are off the speakers, that's it. It's a life long struggle to appreciate music without craving for that niggling criticism of the system.*

*Why do hi-fi magazines not tell you to remove the grilles? Quite frankly it's taken for granted, perhaps unwisely, that*

*people just do. In some cases, the grille does act as a good diffuser for tinny tweeters, and more recently I have come across a couple of pairs of speakers that seem to be designed for use with them kept on - the Rogers LS33s (reviewed in our April issue) are one good example. But in general, they exist as dust covers and because some people find them more aesthetically pleasing than looking at exposed drivers and tweeters. Of course they also work as a front-line defence against curious younger and older fingers.*

*Some speaker designers may argue otherwise, justifiably perhaps, but I lost my grilles a very long time ago. HB*

*Most loudspeakers do tend to sound better with the grilles off because they have been designed like that. The vast majority of designers will work without the grilles on - in fact, at the development stage, the grilles may well have not even been designed. When you are modifying crossover components and experimenting with drivers, grilles are a pain. So most loudspeakers give their optimum response without grilles; Royd confirmed that the Prior was designed to give best results without grilles.*

*In production, the box is finished, fitted with a grille, and boxed up for sale. The grille is normally a fine cloth with a soft surface, one that will absorb more treble than bass. This will cause the top end response to roll-off, making them sound duller and more closed in, as you have experienced with your Prior loudspeakers.*

*Some manufacturers design their loudspeakers for use with the grilles on, Harbeth for example, where removing the grille will unbalance the sound. We try and give advice on this in our measured performance section, where we measure with and without grilles to find the best response. Most manufacturers, however, are good enough to include a brief note on this in their instruction manuals. DB*



▲  
The writer of the  
'Letter of the Month'  
wins a free subscription  
to Hi-Fi World

**LIGHTEN UP!**

I have just purchased an Audio Innovations L1/PI combination to complement my First Audio power amp. Although I'm generally quite happy with the sound of the system, I believe it's a little dark and generally rough overall.

My speakers are Triangle Comets on MAF speaker stands and my front ends consist of a Voyd turntable with SME V silver-wired and Goldring 1040, and a Cambridge CD2 Clock 2-ed. The system is wired up with Audio Note silver cable and Audio Note copper speaker cables. I feel the SME series V is the reason for the lack of a musical sound, bordering on the mechanical.

Would a complete change of amplification to an Audio Note OTO SE be a possible solution, or should I look at the front ends or speakers?  
**J. Manders**  
**Edgbaston,**  
**Birmingham.**

*Nobody I know has ever accused the SME V of being inadequate, and certainly not in the manner you describe. It's most likely that your stylus is worn and needs replacing. I've heard systems go very flat when the cartridge conks.*

*The Triangle Comets are bright and on the hard, mechanical side we've found. They can be a bit remorseless. It's also possible that they could be loading down the First Audio power amps. Unfortunately, with a limited 7watts or so from your amps you haven't got*



Try a cartridge replacement to hear your SME V at its best

so much choice in speakers.

*Bear in mind that big floorstanding speakers are usually more sensitive than small boxes, a fact that surprises people. I'm going to be totally partial and suggest you consider our own KLS3 kit speakers, which were designed for low power valve amps, having high sensitivity (90dB) and flat 8Ω impedance. Commercially there's little else like them. NK*



Audiophile Int.Tel: 01276 855578

Have a listen to what your SME V is really capable of with this Mobile Fidelity Sound Lab LP.

**STUDYING FOR HI-FI**

I am a sixth form student studying Maths, Physics and French, and I have applied for and had offers from Salford and Surrey Universities for courses in electroacoustics and electronic engineering with French respectively.

I would really like to work in the hi-fi industry when I have the necessary qualifications, but I am at odds as to which course I should accept.

Salford's course is excellent and contains lots of acoustical theory, but Surrey is extremely friendly (and nearer) and has an

outstanding reputation, thus making me more employable when I graduate.

I would really appreciate some advice. Which would be of more benefit?

Secondly, I have about £500 to spend on an amplifier. Some possibilities on my mind are the Naim Nait 3, Sugden A21a, Cyrus 3 and the Aura VA 80.

I have a NAD 501 CD player, an old Pioneer amp and JVC S-66 speakers (which I intend to replace in time) with Sonic Link silver Pink interconnects.

I listen to all kinds of music, from classical (mostly choral) to rock and jungle (yes that dreaded word!), so I require something elegant and yet powerful with a good pumping bass. My listening room is about 11 x 12ft.

**Daniel Lewis**  
**Dorchester,**  
**Dorset.**



For medium sized rooms and sensible volume levels there's little to beat the Sugden A21a.

*It is always difficult to advise someone which course to go for. I'd recommend you go to Salford, but I'm biased - that's where I went. It's a lively place, very close to the centre of Manchester which is full of students/pubs/clubs and all the other things that go with it. There are some really good record shops too, and plenty of opportunities to check out live gigs.*

*There are a couple of*

*other things to bear in mind. Every student hates their course, so it's the people you meet and make friends with that make it all worth while. It doesn't matter if the university has got a good or a bad reputation, if you don't like the place/people you'll have a miserable time anyway and probably quit. Better to go somewhere where you'll have a really good time, enjoy yourself and work better, even if its reputation isn't as good - it's all snobbery anyway.*

*If you intend to take your system with you, get it insured against everything from theft and fire to beer spillage. It took me several days and a lot of money (in student grant terms) to repair a large power amplifier of mine that suffered from spillage damage when a friend*

*dropped a can of Coke on it. It is also quite common for things to go missing - two of my friends had their rooms burgled and I had a bag complete with Walkman Pro stolen off the train on the way home once.*

*Assuming that electricity will be included in your rent, as it is for most university-arranged student accommodation, I'd go for the Sugden A21a.*

*I use one all the time in my system and find its combination of fine detail resolution, smoothness and deep, rich bass superb. It's found its way into a wide range of systems, most recently driving JBL's horn hybrid S2600 loudspeakers where it certainly wasn't out of place; in fact the combination worked better than anything else I tried.*

*The only draw-backs with the Sugden are its limited power output of 20 watts and the heat it generates. When you audition amplifiers, try to hear the Sugden with a pair of Tannoy's D100s as the loudspeakers should be your next upgrade. These are excellent little 'speakers; efficient, punchy, clear and with super imaging. They're compact too, so will suit a bedroom or small living room well.* DB

Newnes. Tel: 01865 310366

## AUDIO & HI-FI HANDBOOK

SECOND EDITION



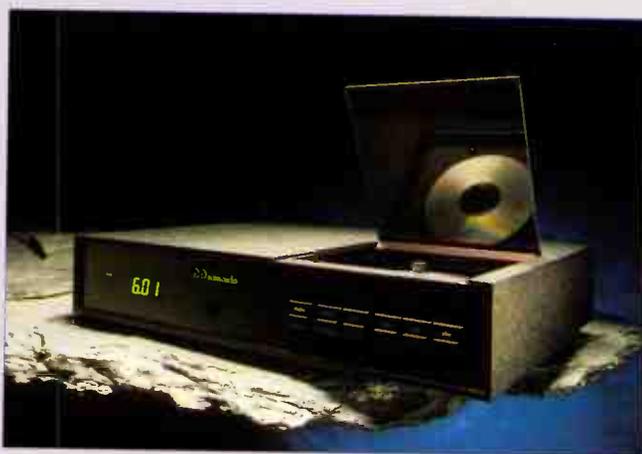
Try a bit of light reading at university with the Audio and Hi-Fi Handbook

### IN THE NAIM OF UPGRADING

I am writing in the hope you can give me a little advice with the upgrade I'm planning for my hi-fi system. Unlike most of your readers' queries, I am very happy with its sound quality, merely wishing to add a CD player to the system. Unfortunately,

this is where the problem lies. All my Naim 62's inputs are spoken for, with my LP12, cassette deck, tuner and Nicam video used through the aux input playing into a NAP 90.

Common sense tells me to purchase a Naim 72 pre-amp for its better sound quality and extra input, but there again I've never heard my 62 working at its best because I've not added a Hi-



Want to add a CD player to an LP based Naim system? The Naim CDI is a fine choice.

Cap or Flat-Cap to it. Would adding either of these first be the best way to go, thus making the most of what I already have as I've not got the CD player yet, or should I go straight for the 72?

I've also thought about Naim's new 92 remote pre-amp. This would give me all the inputs I require, plus remote operation. Decisions, decisions. Can you help?

It's also nice to see you changed the prizes for readers letters, as not all hi-fi systems' amps (mine included) have phono connectors or have CD players installed within them, which made your old prizes totally redundant for people like me. A real change for the better I'd say. **Kevin Kelly Dundee, Scotland.**

*If you are already happy with the sound of your system, I'd tend to suggest you leave well alone. Against your LP12, you are likely to find CD a bit cold and bland.*

*Cheaper players especially tend to underwhelm when set up alongside a high quality turntable. I'd direct funds towards this area and get the best CD player you*

*can afford - Naim's CDI would be a fine choice.*

*This still leaves you with the problem of inputs though, but there is a simple solution. QED make a range of input expansion boxes which allow you to plug two pieces of equipment into one input socket via a switch box. They come with good quality phono sockets and switches, so will have minimal effect on sound quality.*

*You can then choose whether to replace your 62 with a 72 or 92 at a later date, which will remove the need for this switch box. But for the time being, I'd spend your time and effort on finding the best CD player you can afford. We hear of too many readers who add a cheap CD player to their systems and expect*

*the same level of performance as they're getting from their top flight record deck. The CD player normally ends up sitting there unused. Choose wisely.* DB

Audiophile Int. Tel: 01276 855578



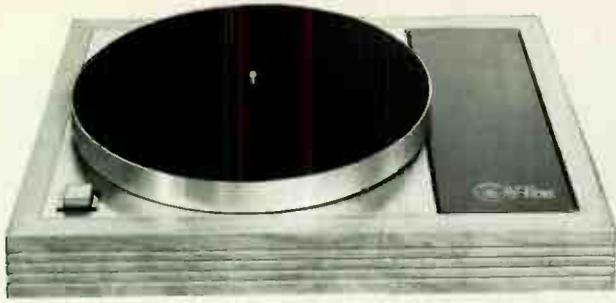
You can continue to enjoy the sound from your LP12 with this top quality LP.

### BAD DREAM

For almost as long as I can remember I've had a dream - a hi-fi one that is. It's of owning a Linn Sondek on which to play my records. Now, after five years of looking at the picture on my notice board, I am in a position to fulfil this dream. So what is my problem? Well, I am getting worried about my ears!

I picked out some of my favourite albums and went to listen to the object of my desire, an eight-year-old LP12, Valhalla, Ittok and AT OC-7. This was feeding Naim amplification (power and pre-amps) which was driving some small Linn speakers (I didn't note the name).

I was not overwhelmed. Good, yes; overwhelming, no, even taking account of the listening room - 13x18ft, with the speakers firing across the width and therefore sitting about six feet away. On returning home, I decided to give my ageing system a careful audition. It comprises Dual CS505 turntable with AT95E cartridge, Audiolab 8000A amplifier acquired earlier this year (with the front-end upgrade in mind), Heybrook HB1s on HBS1 stands linked by Naim NAC-4 cable, all in a room



The long running LP12 is worth an audiophile audition.

15x15x10ft, with the speakers about 13 feet from the listening position.

This system sounds excellent. Yes, I could pick out the bass lines on a 1961 Dave Brubeck album and, yes, they sounded musical. Admittedly, the lower piano notes did not reach the depths heard in a live recital, but then nor did the Linn I had just auditioned.

So my question is: am I wasting my time or should I continue? I listen to a wide variety of music (jazz, blues, classical, rock). Perhaps I should concentrate on upgrading my CD player (a rather ancient Sony multidisc) which doesn't come close to the Dual.

Incidentally, I also heard a Linn Karik while listening to the LP12 and was again disappointed, in that it sounded rather too analytical and lacking in warmth and feeling. Help!

**K. R. Hill  
Bristol.**

*Your audition of the Sondek was carried out in an unfamiliar system where every other component was alien to the one in your home. The only real way to test a new component is as part of a familiar system. The fact that you weren't overwhelmed could be due to any single one or a combination of the other components you auditioned. Also, the LP12 requires careful set-up and tuning by an experienced*

*Linn dealer to give of its best. I'd suggest auditioning the Linn in your own system making sure that it is well set-up and the cartridge isn't worn. HB*

*As Haider says, you have been clobbered by a perceptual problem, akin to assuming an antelope and a rhino might be similar because they both happen to have horns. It sounds as though the 'small Linn speakers' might have been Kans, and the combination of an AT-OC7, Naim amplification and these is going to sound an awful lot brighter and probably harder than your home system.*

*Any number of vinyl addicts will have an alternative turntable suggestion to a Linn, but no-one has ever suggested it was really inferior to a Dual. Just to add to the potential for being misled, if the cartridge was as old as the deck, or if the deck has not been serviced in its eight years, it could certainly*

*sound pretty dire.*

*Don't let all this put you off your dream. Audition other Linns. In the meantime, replace the cartridge in your Dual. The AT-95E was a good, but cheap 'n' cheerful affair. One of the Goldring moving magnet cartridges (the 1012 is a good choice) will be a considerable improvement. And do swap your CD multiplayer. Early examples were not the best-sounding by any stretch of the imagination. Listen to a Denon DCD-315 or preferably DCD-825. EB*



Here's another record for your collection, while you're waiting for your new turntable.

### A BETTER CLASS

I have noticed in recent editions of your magazine several letters proclaiming the virtues of valve amplification over solid state amplification. Could I add the virtues of a valve DAC?

My system started with a Marantz CD-63 player, Denon

PMA250 Mk3 amplifier and Monitor Audio Gold I speakers. Almost immediately interconnects were upgraded, which made an improvement.

Still finding the overall sound unsatisfactory, the Denon amplifier was replaced with a second-hand Musical Fidelity A100 amplifier. Things started getting better. More detail, more bass and a fuller, more rounded sound were obvious.

But the break-through really came when I purchased an ex-demo Audio Note DAC I from The Powerplant, Brighton, on their recommendation. Merely added to my existing system, this valve DAC has made an incredible difference to sound quality.

Suddenly, extra detail, previously submerged, poured through with instrumentation more natural and realistic. Additional bass was apparent and soundstaging very much more clearly defined. But above all, the previous sharpness and glare of my system before adding the DAC has largely gone.

Two queries. Firstly, the DAC I boasts a Class A valve output stage. My Musical Fidelity A100 is billed as a Class A integrated amplifier, but appears to have no valves fitted. What exactly is Class A and how do valves fit in with it? And secondly, why is Class A not more popular today?

**James Fraser  
Glasgow.**

*The A100 is a transistor amplifier, and as you quite rightly say has no valves associated with it at all. Class A refers to the bias used, rather than the type of components employed, so amplifiers can be found using bipolar transistors, FETs or valves in Class A configurations at their output stages.*



For the money, Denon's DCD-315 has a surprisingly smooth and musical sound.

... 47 >

# STUPENDOUS

## Stimulation STRAIGHTAWAY!

### STRATA II STORM STADIUM II STENTOR STOCKED

Dealer	Town	Contact No.	Dealer	Town	Contact No.
Northwood Audio	Aykesbury	01296 28790	Musical Images	London	0171 497 1346
Audio & Visual Consultants	Basingstoke	0370 435952	(Covent Garden)		
Paul Green	Bath	01225 316197	Barletts	London N7	0171 607 2296
The Audio File	Bishops Stortford	01279 506576	Listening Rooms	London SW5	0171 244 7750
Dawns	Bournemouth	01202 764965	Hi-Fi Experience	London W1	0171 580 3535
B G Audio	Bury St. Edmunds	01284 755227	K J Leisuresound	London W1	0171 486 8262
The Audio File	Cambridge	01223 68305	Kamla	London W1	0171 323 2747
Audio Excellence	Cardiff	01222 228565	Sound Sense	London W2	0171 402 2100
Peter Tyson	Carlisle	01228 25891	Hobbs	Luton	01582 20907
Rayleigh Hi-Fi	Chelmsford	01245 265245	Dooleys	Macclesfield	01625 423 158
Audioscene	Chesterfield	01246 204005	The Hi-Fi Room	Manchester	0161 832 0888
L. C. Down	Crowley	01293 520150	Practical Hi-Fi	Manchester	0161 839 8869
Sevenoaks Hi-Fi	Croydon	0181 631 1109	VJ	Margate	01843 226977
The Hi-Fi Studios	Doncaster	01302 781387	Technosound	Milton Keynes	01908 604949
Music Matters	Edgboston	0121 429 2811	Unilet	New Malden	0181 942 9567
Audio Design	East Grinstead	01342 314569	Rapkin	Northampton	01604 37515
Musical Images	Edware	0181 952 5535	Oxford Audio	Oxford	01865 790879
Radford Hi-Fi	Exeter	01392218895	A & W Pounds	Ponders End	0181 804 3000
Hispek	Finchley	0181 349 1166	Rayleigh Hi-Fi	Rayleigh	01268 779762
VJ	Folkstone	01303 256860	Helen Koczur	Rochdale	01706 42107
Lintone Audio	Gateshead	0191 477 4167	Sounds Expensive	Rugby	01788 540772
James Kerr	Glasgow	0141 226 5711	Sevenoaks Hi-Fi	Sevenoaks	01732 459555
Hoiley Audio	Hailey	01992 442425	Music Matters	Solihull	0121 742 0254
Adams & Jarrett	Hastings	01424 432398	Reyleigh Hi-Fi	Southend	01702 435255
Musical Images	Hounslow	0181 569 5802	Darbys	St Albans	01727 851596
Fanthorpes	Hull	01482 223096	Burden Electronics	Swindon	01793 613733
Anglian Home Entertainment	Ipswich	01473 288211	Take Two	Uxbridge	01895 231488
Leicester Hi-Fi	Leicester	0116 539753	Bradys	Warrington	01925 820009
Nicholls Hi-Fi	Lewisham	0181 852 5780	Sevenoaks Hi-Fi	Watford	01923 212736
			Sevenoaks Hi-Fi	Whittham	01376 501733
			Barletts	Woking	01483 771175
			Bowers & Wilkins	Worthing	01903 264141



REL Storm



HOME ENTERTAINMENT  
awards

WINNER REL Storm - Best Subwoofer



# REL ELITE DEALERS

For further information contact Harman Audio 0181 207 5050

# Aria. A new way to look at hi-fi support.

Introducing the Aria Modular Hi-Fi Support System. It can change the way you look at your components. Build up separate vertical shelves. Or link units side by side. Either way, Aria lets you vary shelf heights to suit your components.

Start with a Base Pack and go from there. There's no limit to the number of ways you can build it up. Not only does Aria give you more flexibility than any other hi-fi support system, it also provides positive sound deadening and decoupling benefits. With black tubular steel legs. Grey tinted glass or black MDF shelves. And adjustable carpet-piercing spikes.



The Aria Support System. Hi-Fi will never look the same again.

I want a good look at the Aria system. Please send me a brochure

Name \_\_\_\_\_

Address \_\_\_\_\_

Post code \_\_\_\_\_

## APOLL

HI-FI FURNITURE

Our components improve yours

Zenith Crown Ltd., Tipton road, Dudley,  
West Midlands, DY1 4SQ Tel: 0121 520 5070/1432

As to why they aren't as common as, say Class B, the answer is that they simply aren't as efficient. Anyone with enough experience of Class A amplifiers will have noticed the fact that they could fry eggs on the amplifier. Class B on the other hand wastes less energy, transferring a greater share to the amplifier's load.

In Class A amplifiers, whatever the type of amplifying components used, they both handle the full swing of the signal. In Class B configuration, however, the positive and negative portions of the cycle are split between the two devices, and so only one device need be working at any one time in the cycle. This theoretically gives a 50% improvement in efficiency.

Although less efficient than all other operating modes, Class A forces a designer to optimise a lot of ancillary circuits, especially the power supply, that are less critical with Class B. It also lessens thermal cycling by running everything flat out! For these reasons amongst others, it usually gives best sound quality. HB.

Dare I say that not long ago I reviewed the Woodside valve-output-stage DAC in Hi-Fi News. Different convertor chips, as I pointed out then, have markedly different signatures, and one needs to be wary of attributing a particular sound quality to valves alone.

True, valve output stages do have a reputation for added smoothness, but I suspect in your case some of this is due to the MF amplifier. The improved detail is due, simply, to inserting a higher-quality DAC and output stage

than the on-board Marantz one into the chain. Now look for a separate CD transport. EB

Chord Co. Tel: 01722 331674



Hook up your Musical Fidelity amplifier and Audio Note DAC with this Chord Co. Chrysalis interconnect.

### ADDRESSING ANGELA

I refer to a reply which Andy Grove gave in December's Supplement. He mentioned the Tube Amp Book by Groove Tubes and a company called Angela Instruments.

I would be most grateful if you could provide addresses for these companies.

**Kevin Flannigan, Portsmouth.**

You can contact Groove Tubes at:

**8 Barn Green, Bradmore, Wolverhampton WV3 7AY.**

**☎ 01902 620156 Fax: 01902 620207**

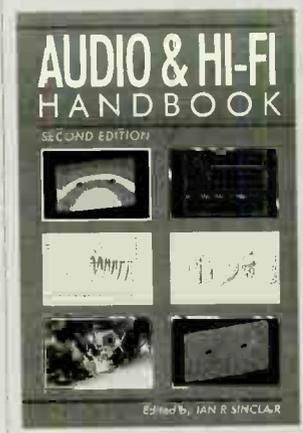
And Angela Instruments can be found at:

**10830 Guilford Road, Suite 309, Annapolis Junction, Maryland, USA 20701.**

**☎ 001 301 7250451 Fax: 001 301 7258823**

Weighing in at £250 the Aura VA 80 is an impressive amplifier, possessing a smooth and musical sound.

Newnes. Tel: 01865 310366



Here's a copy of the Audio and Hi-Fi Handbook to go with The Tube Amp Book.

### UPGRADE UPDATE

I am in the process of the first major upgrade to my system since it was originally purchased in the early eighties. Since those days, my knowledge of individual units and matching separates has become totally outdated, and I would appreciate your advice on the choice of a replacement integrated amplifier.

Currently my system comprises NAD3020i amplifier, Dual CS505 turntable, NAD 402 tuner and TDL RTL 3 speakers. Room size is 14x13ft, but I hope to be moving somewhere larger soon. My budget for the amp is £300-£400. After hearing the superb Arcam 5+ amplifier on my system, I think the Arcam 6 CD player would be ideal to replace my ageing Philips CD720. A good choice?

I listen to a wide range of

music, ranging from female vocalists (Tori Amos, Tracy Chapman, Alanna Myles) through harder rock such as Nirvana, Rage Against the Machine and guitar indie bands like Oasis, Cure and Pulp.

I would be grateful for any suggestions you can make to advise me. Are there any other system weak points I ought to be aware of?

**Mike Kenna Newbury, Berks.**

If you've read the January '96 issue - and I'm sure you have by now - you would have seen the review of the Arcam Alpha 6 CD alongside its amplifier brother the 6+. They both fit neatly into your budget and are suitable for your purposes.

Other models worth auditioning within your budget are the Alchemist Axiom and the Aura VA 80SE-x. I've given both some time and they do fare well in their price range. Not only that, but they look good too. HB.

I wonder if combining an Arcam CD player and an Arcam amplifier might not, added to the TDLs, prove too much of a good thing in the amount and quality of the bass. Both have a 'richness' to them at the bottom end. Since you liked the amp, give it a try, but don't forget the current lower-end CD players from Sony and Denon. I certainly wouldn't like to run the TDLs off a 3020i; I'd replace this first. EB



Chord Co. Tel: 01722 331674



Whatever amp and CD player you choose, this Chord interconnect will work well between the two.

# BAG END SUBWOOFERS

## Probably the best on the planet

22"x22"x19" Box with 18" Driver = 90Hz to 8Hz flat response = the **smallest** box with the **lowest** subwoofer response in the world - with proper dynamic agility!

**The De-Regle Group** proudly introduce to the UK the fabulous BAG END sub-woofer system.

The USA's famous **Stereophile** magazine awarded this American system the 1995/6 prestigious and coveted Class 'A' Recommendation. **Stereophile**, whose contributors number well-known UK reviewers, qualifies its Class 'A' rating as:

"Best attainable sound for a component of its kind, without any practical considerations; "the least musical compromise". A Class 'A' system is one for which you don't have to make a leap of faith to believe that you're hearing the real thing."

The superb **BAG END S18/ELF1** received this distinguished **Stereophile** 5-Star endorsement, accorded only to 'state of the art' - world class equipment, with Reviewer, Larry Greenhill, enthusiastically summing-up by saying:

"If you're considering adding a sub-woofer system to a first-class, dynamic stereo loudspeaker or Home Theatre system, make sure you audition the **Bag End S18Es** and **ELF1** before anything else."

**Absolute Sound** magazine said: "ELF Bass is the finest I've heard in my system or elsewhere.... Articulation and transients of low-frequency bass notes were positively astounding." Equally glowing reviews for Bag End speakers come from: **The Audio Critic, Home & Studio Recording, Professional Sound, Recording, Bass Player, Mobile Beat, Car Stereo Review, Guitar World, Electronic Musician, The Music Paper, Illinois Entertainer and Modern Drummer.**

A truly professional sub-woofer system equally at ease in home cinema and Hi-Fi listening rooms, the **BAG END** system is probably the most flexible available at any price. Widely used in the professional-audio field e.g. Disney, ABC Studios, MGM Grand, and Todd-AO Studios with over 60 systems in their dubbing and digital recording studios, and seriously endorsed by "musicians" musicians such as Herbie Hancock, Chick Corea, Allan Holdsworth, to name a few famous users.

Ideally used by owners of Quad ESL and Ribbon/panel speakers. Flexible enough to by-pass existing bass unit.

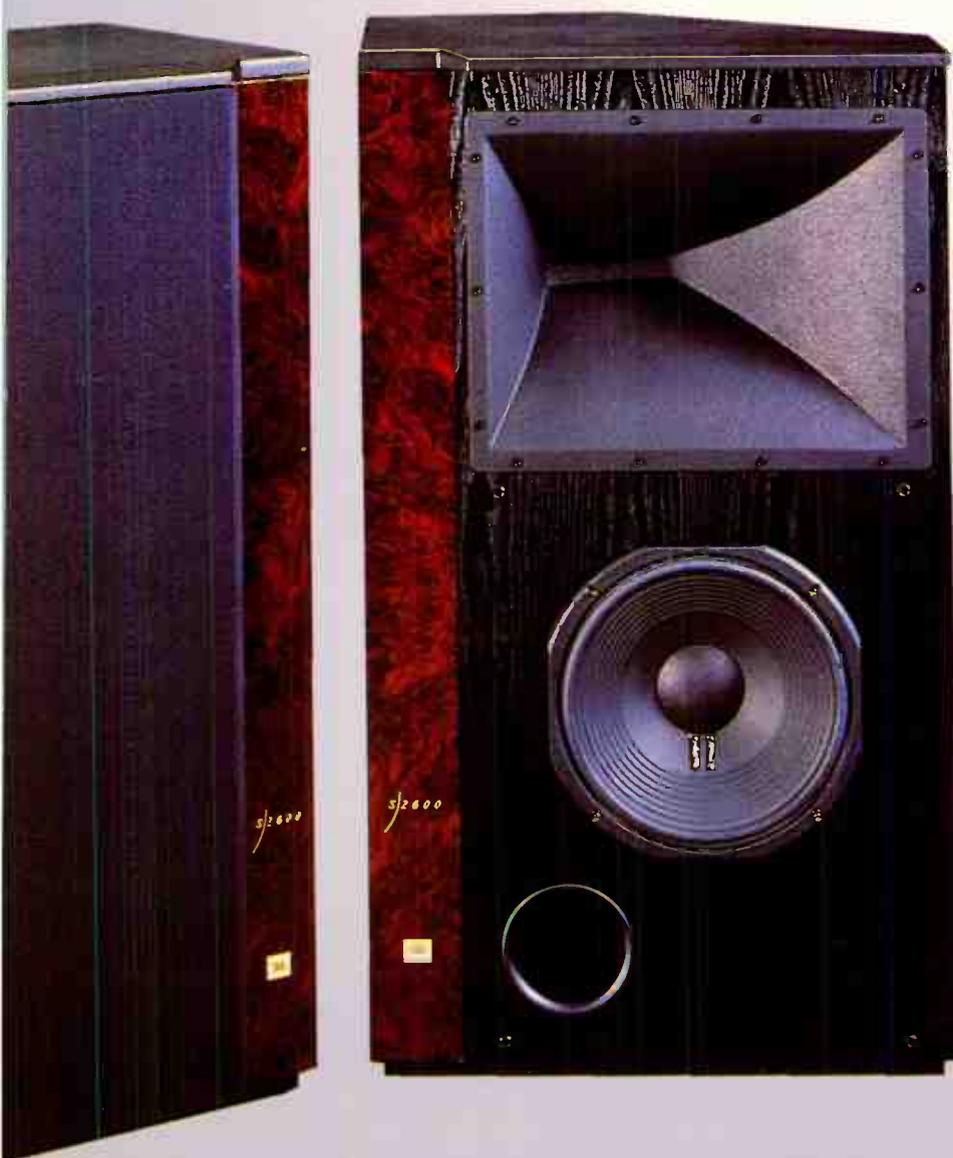
The **BAG END** system offers 10" to 18" drivers, mono or stereo (dual-integrator) outboard electronic crossover. System based on sophisticated Extended Low Frequency technology using two forms of overload protection - concealment for the sub-woofer and continuously variable recovery (CVR) for the satellite speakers. Separate amplifier power required - up to 400 watts continuous each 18" driver. Input impedance 25K ohms. Nominal input level required 750mV. Distortion 0.005%. Signal/noise ratio 110dB. ELF and high-pass dynamic ranges 110dB (20Hz-20kHz). Ninety independently selectable switches (45 per channel) to control settings for gain and crossover frequencies (20-205Hz) for high-pass roll-off for satellite loudspeakers; low frequency cut-off (8-70Hz) and gain (+/- 15.5 to 31 dB total range) for subwoofers. High-pass slopes 12dB/octave.

Professional and domestic options include single sub-woofer systems, near-field and time-aligned monitors, range of finishes, metal grills, wheels, handles and System Interface Adapters (balanced to single-end), stainless spikes. Subwoofer system prices £1,500 to £4,500. Copy of reviews, with full specification and price list, from sole importers:

De-Regle Enterprise & Marketing Limited  
Freepost ANG3016 **WISBECH** Cambs PE13 3BR  
Fax: 01945 588533

# HARMONY *from a* HORN

**JBL show that a horn midrange/treble and reflex loaded bass can work in harmony in their S2600 loudspeakers. Dominic Baker comes away impressed.**



*I*'ve been spoilt recently. First Sonic Frontiers' HDCD CD player arrived, then Wilson Benesch's turntable, now these JBL hybrids. If my insurance brokers knew how rapidly the value of my system has escalated, they'd be 'phoning Lloyds about shipping cover. Using a horn for midrange output, from 800Hz upwards, and a conventional reflex loaded driver below, the S2600s are an interesting concept. I'll keep details brief here though, as there's a full description of the S2600's technical side following this review.

The S2600s draw on technology developed from their professional side, where JBL's horn systems are regarded by many as the best available. The professional compression driver - not commonly seen in hi-fi - is fixed to a horn. The latter delivers equal sound pressure level across a wide horizontal listening plane, rather than over a frontal hemisphere. JBL claim that because of this the stereo pair create a consistent stereo image over a wide area. A custom made 12" bass driver completes the package, reflex loaded by a large, front firing port.

Like any good horn loudspeaker, the JBLs have an immediacy to their sound and the way it is projected. It's very free, open, with a great sense of scale and dynamics. Overall, the S2600s are

# TRICHORD GENESIS



*'Your first taste of the High End at only £549.00'*

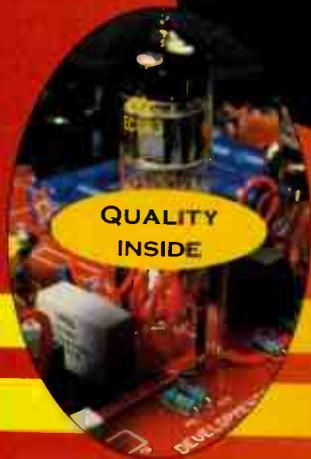
***TRICHORD RESEARCH LTD - CREATING PRODUCTS OF INNOVATIVE EXCELLENCE***

73 Church St. Malvern, Worcs, WR14 2AE Tel: 01684 573524 Fax: 01684 577380

## KALYPSO

The tube amplifier that set new quality, price and performance standards. A true 18+18 Watts RMS output power that will take musical appreciation to new heights. Designed and built by engineers and music lovers.

Telephone or Fax for an information pack.



**Supplied complete with cover**

**KALYPSO RRP £549.00**

TEL: (44) 01702 469055  
FAX: (44) 01702 601883

**CR DEVELOPMENTS LTD.** Unit 8, Craftsman Square, Temple Farm Ind. Est., Southend-on-Sea, Essex, SS2 5RH

one of the best balanced horn loudspeakers I've heard. Treble is smooth, sweet and has enough extension to bring atmosphere and spaciousness to music. They are impressively fast and clean. Percussion on The House of Love's 'In a Room' sent a crisp leading edge striking out into the room. Decay was beautifully captured too; after the initial transient strike it faded gently back into the soundstage.

The JBLs gave a thoroughly convincing performance with PJ Harvey's 'Down by the Water' too. Treble sounded solid and powerful; not bright, just realistic and with the kind of dynamic contrast you rarely get a hint of from conventional loudspeakers. A bum note, a chord struck too hard, are sounds the S2600s capture and accurately relay to the listener. Not that they only emphasise mistakes you understand, but everything is so ruthlessly exposed that the music becomes a living, breathing performance.

A crescendo really is a crescendo with the JBLs behind it. Musical peaks were conveyed with terrific power and authority, rather than blurred by confusion and compression.

With such a wide open sound stretching well beyond the loudspeakers, the S2600s can certainly create the scale of a performance in a thoroughly realistic fashion. Their hybrid design works especially well. Through the midrange and treble there is a solid presence; singers really sound six foot tall - not midgets squeaking at you from a tiny box in the corner. And the 12" bass driver packs impressive upper bass punch, combined with a solid lower end kick.

Bass was deep and taut in the right room, but I must stress that these 'speakers need space to be expressive. In a large room bass extension was superb: deep, powerful and with strong control. There was some colouration of the upper bass, with a warmth that gave cellos a pleasant bloom, although this wasn't strictly accurate. But musical it was, so much so, that this small gripe was quickly forgotten and forgiven. In fact, it lends a richness to

the presentation which is more captivating to listen to, even if it does in theory represent a detraction from truthfulness.

*"A bum note, a chord struck too hard, are sounds the S2600s capture and accurately relay to the listener. Everything is so ruthlessly exposed that the music becomes a living, breathing performance."*

The JBL S2600s are certainly the best loudspeakers I've listened to since - well - the S3100s, a few weeks ago at the Paris hi-fi show. These are essentially very similar, but use a 15" bass driver. Both have qualities that place them on a par with Quad ESL 63s in my opinion. They are completely different from the Quads, their strengths lying in other areas, but the overall level of fidelity is similar. Both the S2600s and the Quads image especially well; both are a reference to others in this respect. The Quads have transparency, but the JBLs have the raw detail, scale and power that makes a live performance so much more believable.

Lou Reed's 'Perfect Day' was an absolute pleasure. Piano sounded pure and graceful, vocals intimate, strings smooth and rich in texture. Imaging was fantastic; I loved the way the JBLs painted a clear, stable and convincing picture that precisely pinpointed where everything was located on the stage.

Such was the force behind bass guitar on Garbage's 'Stupid Girl' I could have been in the studio, working

on the master through a pair of top monitors, so convincing was reproduction. Portishead's 'Strangers' was just breath taking. The level of detail resolution coupled with such a massive and convincing sound was astonishing.

I have a new favourite loudspeaker - and that's something that doesn't happen often. I used a wide variety of amplifiers, from single-ended 300B valves to 100watt solid state. Nice thing is, with such efficient loudspeakers - as these are - quality, not quantity, is the issue. For the majority of the time the S2600s were driven by a Sugden A21a - a 20watt Class A integrated. Many more expensive amplifiers struggled to improve on this combination.

The JBL S2600s gave such a totally believable sound, that it will be difficult to live with anything else once they're gone. I'd buy a pair if I had anything like the kind of money they cost. . . but I don't. Instead I'll have to content myself with memories of their short visit, topped up by annoying local dealers by booking demonstrations every weekend. "I'm not really sure yet, could you just play this for me, and this. . . and this?" "No, I think I'll need to come back next week for a longer listen" ☀

**JBL S2600**

**£3,500**

**Harman Audio  
Unit 2,  
Borehamwood Ind. Park,  
Rowley Lane,  
Borehamwood,  
Herts. WD6 5PZ  
☎ 0181 207 5050**

#### WORLD VERDICT

Smooth, detailed and spacious with great scale, dynamics and imaging - capable of producing a real performance. One of the very best.

**Measured Performance  
see p103**

# WHAT'S IN A HORN?

**JBL's S2600 loudspeakers use a horn loaded midrange/treble driver. Dominic Baker discusses the principles behind their design.**

**J**BL's S2600 loudspeaker is a bit of a rarity amongst mainstream loudspeakers; it combines a horn loaded compression driver, which covers midrange and treble frequencies, with a large reflex loaded bass driver. There are many advantages to this approach, the main ones being the seamless quality of midrange and treble and the high sensitivity.

## The Compression Driver

Compression drivers are used mainly in the professional loudspeaker market where high power handling and efficiency are paramount. A compression driver is basically a tweeter housed inside a chamber that has an opening smaller than the diameter of the dome. This narrow opening is connected to the throat of the horn. Inside the chamber there is a

phase plug which controls the flow of energy from all parts of the diaphragm to the throat, ensuring proper phase relationship.

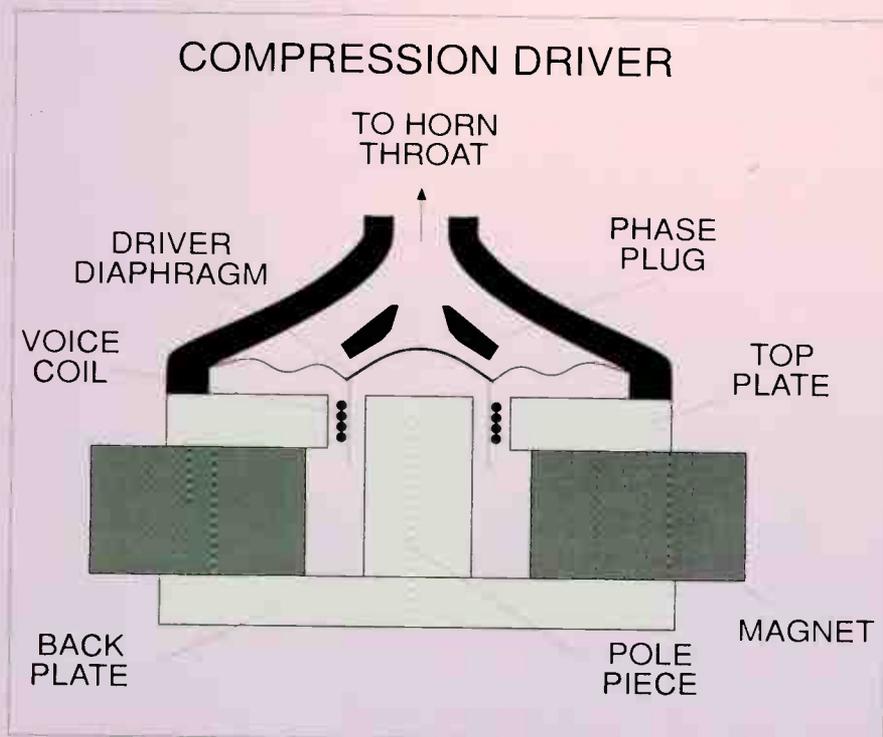
## How a Horn Works

In a conventional loudspeaker efficiency is very low, typically in the region of 1-2%. This is because there is a mis-match between the high impedance, high pressure situation at the driver's surface and the low impedance, low pressure required to drive the air in a room. A horn acts as an acoustic transformer in that it more effectively couples the air load in the room to the drive unit. This improved matching allows some horns to reach efficiencies of 50%.

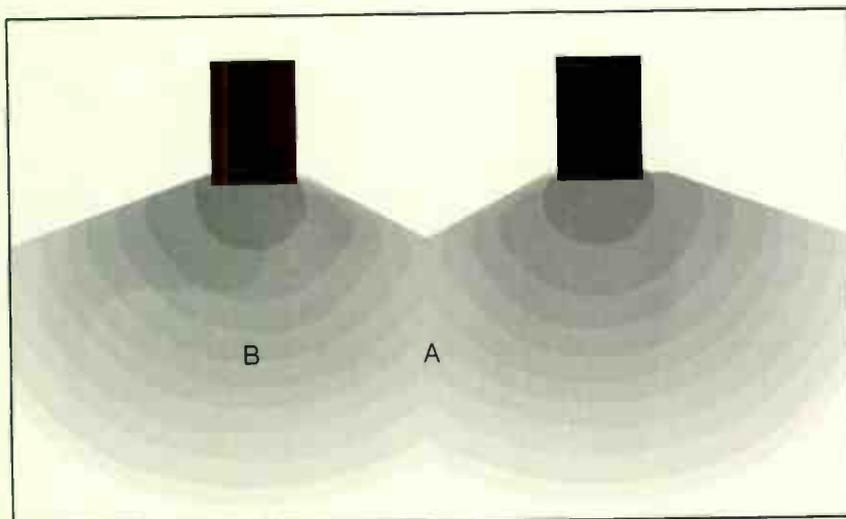
So, with a horn not only is the driver better able to drive the room, but it is also far more efficient. This leads to lower distortion, increased dynamic range, greater headroom for transients and lower power input for a given volume level.

So why aren't horns used more often? The size of the mouth of a horn determines its lower limit. A horn to reproduce bass frequencies down to 40Hz in free space say, would need a mouth diameter of 8.5m, which is large enough to be impractical in most domestic situations.

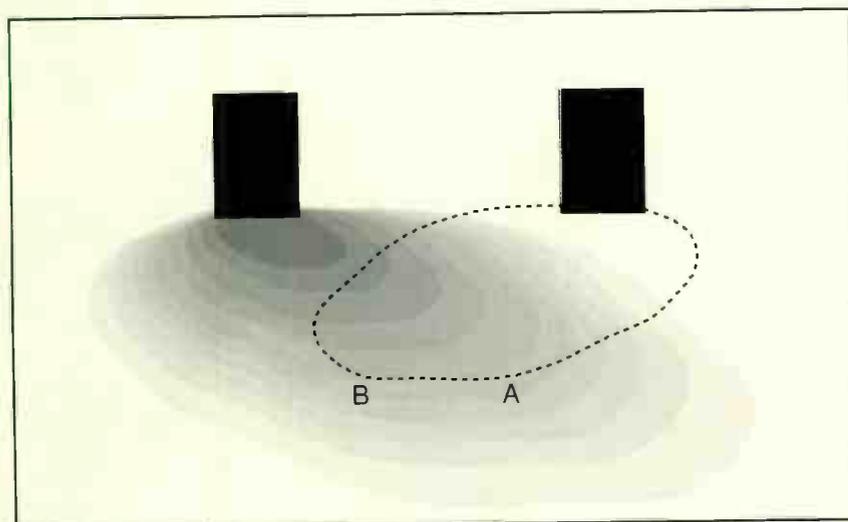
Through the midrange and treble, horns are much more practical, indeed many manufacturers use a shallow horn around their tweeters to boost efficiency. Here though, the horn profile becomes much more critical. Whereas in the bass flat sided panels can be used with a high degree of success, more complex flares like hyperbolic, exponential and tractrix are needed for an even response at higher frequencies.



In its basic workings a compression driver is similar to a normal dome tweeter. Fitting it with oversized magnets and a horn greatly increases its efficiency.



Listener A hears equal sound pressure from both loudspeakers giving a stable image. Listener B hears more level from the left hand loudspeaker, destroying image focus. As well as this the frequency response from each loudspeaker will be different because the listener is placed further off axis from the left loudspeaker than the right.



In JBL's S2600 system the midrange/treble horn has an asymmetrical radiation pattern, so that our listeners at A and B hear the same level across a horizontal plane and therefore from each loudspeaker. JBL have also taken care to maintain a flat frequency response off axis.

### JBL's Stabilized Imaging Horn

In the S2600s JBL have developed a special horn flare that distributes sound asymmetrically in the horizontal plane to increase the area over which a stable image is held. With conventional loudspeakers if you sit off axis (ie. closer to the right than the left) the image will not be maintained because the output from the right loudspeaker will be louder. The frequency response you hear from each loudspeaker will also be different - normally as you move further off axis treble output falls.

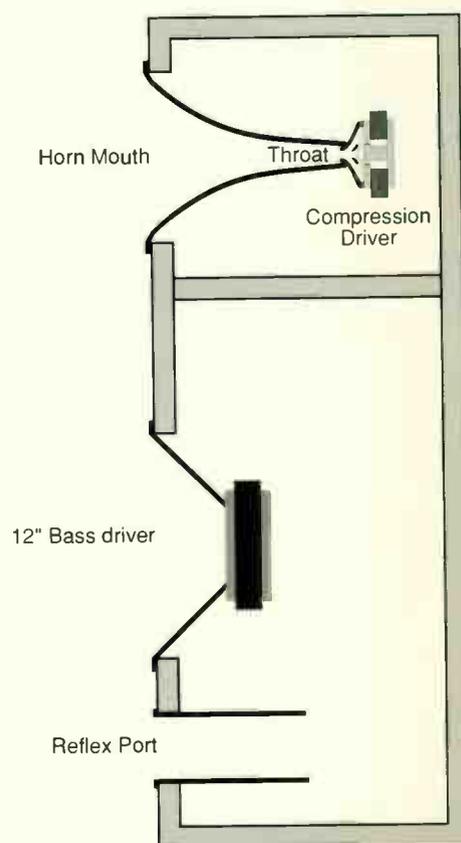
In the S2600s the horn has been designed to direct sound more strongly towards the listener as you move further off axis. So, for example, as you move towards the right loudspeaker the output from the horn of the left one gets louder to compensate. Care has also been taken to ensure that this off axis response stays as smooth as possible, so that differences between the two loudspeakers, even for a wide range of listening positions, are kept to a minimum.

### The S2600

JBL's S2600 loudspeaker combines this asymmetrical dispersion horn midrange and treble unit, which runs down to 800Hz, with a powerful 12" bass driver. The light paper cone is reflex loaded, making the driver efficient enough to keep up with the output from the horn.

Paper, although generally regarded as a cheap cone material, does have a natural tone to it which is well suited to the qualities of the horn. It doesn't have to go up the scale too high either, so cone break-up isn't a problem. All in all, the JBL S2600s are a very interesting design. Clever and careful engineering and choice of components allow them to reach a level of performance few others can match. I am sure that they will be regarded as a landmark product in years to come ●

### JBL S2600 CUT AWAY VIEW



# Our BEST salesmen are

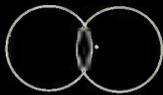
With hundreds of hi-fi dealers to visit and thousands of products to choose from, who do you listen to when you want to buy real hi-fi? The hi-fi salesman, or the hi-fi customer?

# Our BEST customers...

We think you should listen to our customers. Because they are fairly restrained and completely unbiased when it comes to compliments. And they are all pretty complimentary about our service and the way in which we sell hi-fi.

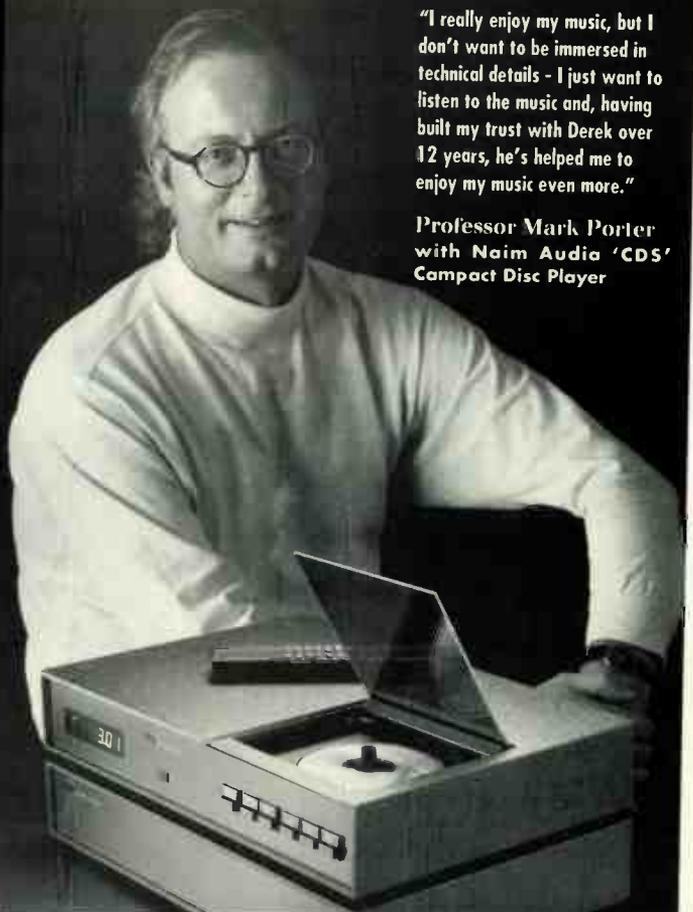
You listen to the systems and your music, we listen to what you want. And together we decide on the best one to suit you - not us. A system that delivers real hi fidelity sound that will change your perception of music. And that's the way we think real hi-fi should be sold, instead of from a brown box.

Now, who would you prefer to believe?



**sound advice**  
BECAUSE THE BEST HI-FI NEEDS THE BEST ADVICE

Sound Advice, Duke Street, Loughborough LE11 1ED.



"I really enjoy my music, but I don't want to be immersed in technical details - I just want to listen to the music and, having built my trust with Derek over 12 years, he's helped me to enjoy my music even more."

Professor Mark Porter  
with Naim Audio 'CDS' Compact Disc Player

For Sound Advice on your Hi-Fi requirements or a Demonstration just call Derek Whittington on 01509 218 254

Living Voice Air Parquet	P.O.A.	£2,700	Audio 1000 Series 1000 Monst	£950	£1,900
Audio Note ONGAKU	P.O.A.		Audio 1000 Series 1000 MCT	£190	£300
Audio Note LO<100 hrs	£750	£1,100	Audio 1000 Series 1000 MCT	£830	£900
GARNER Rigid Six Wheeler	P.O.A.		Roger's LS2.2	£150	£250
HÖRNING Agathon Oak	£3000	£3,655	Wagee Custom Mixer	£680	£1,320
Wadia 21 Boxed 30 hrs	P.O.A.	£4,950	Manley Audio MA 60 (para-wd)	£80	£365
MICROMEGA Duo CD.2 Tr port	£1,380	£2,500	Barber Pritel 300 B Power	£2,000	£2,500
MICROMEGA Stage 2 Ex Dem	£590	£760	System 1000 1000 One 1000	£1,900	£245
MICROMEGA Stage 3 Ex Dem	£750	£900	Quid 66-606 Prit-Power	£900	£1,500

Audio for the first time buyer and seasoned enthusiast.  
A wide range of interesting products - some mainstream - some unusual - all serious.  
UK Distributor - HÖRNING, UK Agent - Lowther  
World Wide Distributor - LIVING VOICE, VITAVOX  
Visa Amex Mastercard  
**DEFINITIVE AUDIO: Tel/Fax (00 44) (0)115 9813562**

There's no doubt in my mind that a good valve amplifier is hard to beat. Their deceptively simple circuits do, however, conceal some tough problems and we're no closer to solving them in 1996 as we were in 1946. As a result, too many commercial valve amplifiers suffer weaknesses that obviously colour their sound.

This gives critics - especially those who assume that because valves predate transistors they must be worse - a field day. It appears to confirm that colouration is the main attraction. But that's not the case. When the awkward technical problems are adequately dealt with, the resulting amplifier is often a wonder.

We've got two problems here. One is purely technological: valve amps are peculiar beasts to engineer, simple in pure

everyone rates highly. A Pink Triangle Da Capo CD convertor was used as a source (also universally admired). Through our KLS-3 loudspeakers Fifa sounded shrill and mechanical - I got up and took it off. This system just didn't work.

Dedicated hi-fi enthusiasts - including

## Mysteries from Noel Keywood



opinion

I've ever encountered, but it was a long way from being accurate. In the end I sold them. All the same, I could listen to music through the Quads, but with the modern solid-state amp I've mentioned above I could not. I'll leave you to draw your own conclusion as to which I would choose between the two.

But back to valve amplifiers. Extreme warmth in their sound invariably comes from limited power bandwidth. This prevents full treble output being delivered so, say, a crash of cymbals will be muted, its full power lost. The phenomenon will sometimes be accompanied by falling treble output, which limits top-end frequency response. Both are attributable to poor transformer design, where the output valve struggles to supply current into unwanted leakage inductance or winding capacitance.

Keeping both these parameters low requires a lot of sectionalising within the transformer, careful control of a stack's aspect ratio, precision winding and, finally, tedious connection of all the sections such that reactances cancel rather than add. Whilst this is at heart a cost problem: good audio transformers take a long time and a lot of skill to make, these days it's also become a lost art. Few people understand the problems any more, nor

how to overcome them. As a result, overly warm sounding valve amps are common and the reason is blindingly obvious from measurement. It serves to give valve amps a bad name.

I know from my own experiences with valve amplifiers that, with a good output transformer, frequency response, distortion and power bandwidth can all be quite sufficient for high fidelity. I expect, for example, a good design to be able to swing full output at 40Hz and 10kHz, quite good enough even for the most difficult modern rock music. The result is interesting. As you might expect, much warmth and softness disappears. However, at the same time the intrinsic smoothness and liquidity of sound offered by valves becomes even more apparent, especially with string instruments, which display texture and bite, whilst not possessing that peculiarly flat and grainy sound of solid-state, which on occasion can be offensive - as I found with Angelique Kidjo.

Whether the dying art of audio transformer manufacture will ever be fully revived I don't know. Until it is, I fear too many valve amps will only serve to prove their critics right. My advice is to be very careful when auditioning. I hardly need to say that, in my view, valve amps are wonderful; it's too bad so many are awful ●

*"a pair of Quad II power amplifiers displayed the sweetest, easiest sound I've ever encountered, but it was a long way from being accurate"*

electronic terms, difficult to the point of impossible in transformer technology. As a result, many suffer all the drawbacks their critics recite - in spades full.

The other problem lies in the opposing camp, as it were. If many people are happy to listen to even a poor valve amplifier - and often they are - we need to consider why. The answer to this struck me forcefully the other day.

I bought Angelique Kidjo's Fifa album, at London's thronging Portobello Road market - a great place to be on a sunny Saturday. At home the hi-fi was in bits, as always after a busy week, so I connected up a top quality, British made solid-state integrated amplifier that I've spent little time with to date, but which

reviewers - often look for ever more detail and "speed". Trouble is, there's only so much you can get out of a recording. If there's no more in there - and current 16-bit digital in particular has a strict limit - then the rest is artifice. A bright, forward sound emphasises both detail and speed, but it isn't easy to live with. Ordinary listeners, as opposed to enthusiasts, are put off by this.

By way of contrast, when valve amplifiers - especially old ones - sin, they commonly become soft and warm sounding. I can't say I'm especially impressed by this sort of presentation. For example, many years ago I owned a pair of Quad II power amplifiers. They displayed the sweetest, easiest sound



Bill Wilson invites you to buy your CDs at dealer's cost price using the new service.

## Records at cost

As a member of the WSL Records at Cost service you can buy any brand new CD at trade price plus postage and a small handling charge of only 50p.

Now you have no need to shop around for the best discounts. Here at last clearly stated are CDs at the ultimate saving - **the dealer's cost price.**

Only WSL - offering a music by mail order service for more than 35 years - can guarantee you such low cost listening.

Return the coupon or contact us now and we'll send you full details of the RECORDS AT COST SERVICE and how to join, together with our FREE CD

CATALOGUE - The WSL Quarterly Review' free of charge and without obligation.



Please send me full details of the new RECORDS AT COST SERVICE together with the FREE CD CATALOGUE. Without obligation (I enclose two first class stamps for speedy reply)

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

POST CODE \_\_\_\_\_

To Bill Wilson Stereo Library  
PO Box 32 St. Leonards-on-sea  
East Sussex TN38 0UZ

☎ (01424) 718254 Fax (01424) 718284



HF7/96

**HIGH END** Export discount  
50% or more

# SALE

Only few units left!  
Some prices negotiable

### AUDIO RESEARCH

DAC1 D/A converter - LS1, SP15  
preamplifiers - D250 MkII, M300  
MkII, Classic150 power amplifiers



### WELL TEMPERED

Record Player, Classic, Signature

export price from

**£590**



### GOLDMUND

Studietto turntable - T5  
tonearm - Mimesis 8 power  
amplifier - Apologue speakers

Also: Berning TF-10 preamplifier, Breuer tonearm, Cotter ultra-/subsonic filter, Eureka 1 and 2 step-up devices, MarkLevinson MLC-1 cartridge, Moerch tonearms

**Call for catalogue!**

Glotta AB, phone +46 8345251, fax +46 8346533

### DO YOU USE AN OUTBOARD DAC?

If so, this could be the most cost-effective upgrade you'll ever make...

# D·A·R·T

Digital Audio Real Time interconnect -

£49.95 direct from SDAV.

(See review by Jimmy Hughes, Hi-Fi Choice, September '95)

- 🌀 Improved focus
- 🌀 Improved inner detail
- 🌀 Sweeter, more extended treble
- 🌀 Cleaner midrange and bass
- 🌀 Greater transparency
- 🌀 Improved transient response

And that's guaranteed! If you are not satisfied with the results after 14 days home trial, we'll give you your money back - simple.

'Phone SDAV on 0181-399 6308 to place your order.

# THE SUN GOES DOWN ON NAKAMICHI



The Nakamichi model 1000

**Famous around the world for their astonishing cassette decks, we were surprised to learn recently that Nakamichi have called it a day. Noel Keywood looks at the company's history, and its most famous products.**

 If you want definitive sound quality from cassette, the name is Nakamichi - but not for much longer. I was saddened to hear from their importers, B&W UK, that they are ceasing production of all hi-fi products, including cassette decks. These were the pinnacle of Japanese ingenuity and engineering skill.

Like so many of Japan's electronics companies, Nakamichi arose from the ashes of the second world war. Chiyoda Riken was founded in 1948 by Etsuro Nakamichi. It designed, developed and manufactured electronic entertainment products for other companies, who badged and sold them. This is a popular practice in Japan. Their first tape deck

was an open reel design, produced in 1951, selling under the brand name Magic Tone.

Later, in 1957, the company developed and manufactured their first magnetic heads. Head technology in particular has always distinguished Nakamichis, so it hardly seems surprising that their first efforts netted many orders from Japanese tape deck manufacturers. The following year the company's name was changed to Nakamichi Laboratory.

Etsuro's younger brother Niro Nakamichi had stayed out of the business, even though he studied physics and in 1964 claims to have lodged a patent, in Japan, for a cassette system that ran at 3 inches per second, using 1/4in tape. However, beaten by Philips, it was dismissed.

By 1967 the company, just four years after the introduction of the cassette, was awarded a contract to design and manufacture cassette decks for Harman



**Etsuro Nakamichi,**  
founder of the company in 1948.



**Niro Nakamichi,** who joined his  
brother as the company expanded.

# Who Knows Best How A Linn Hi-Fi Sounds?

*"..fed by the Mimik and driving the Tukans, the whole effect is of excellent musicality without much sign of hi-fi artifice."*

*"..it covers its tracks so well, that you concentrate on what's being played, not how it's being produced."*

What Hi-Fi? June 1995

*"Not for Linn the sterile portrayal of musical detail in a detached intellectual manner. The open midband was used to good effect, detailing performance touches in a way that brought excitement and emotional reaction to the music."*

Hi-Fi News, June 1995

*"..the timing was spot on and the whole acoustic imparted with a sense of precision and grip."*

*"Percussion took on a more speedy and challenging presence than most players manage."*

Hi-Fi World, April 1995

**Once you have read the reviews, visit a specialist hi-fi retailer to form your own opinion. It's the one that matters.**

**LINN HI-FI**

*music for life*®



For the name of your nearest Linn Hi-Fi Retailer, call 0500 888909

Linn maintains the right of all customers to receive a balanced view by making all of its products available for review to all the magazines. Linn operates an open and honest policy towards the press. All the magazines agree that you need a demonstration to be sure you know how well a product performs.

Kardon of the U.S.A. As business increased, Niro joined his elder brother but as a subcontractor their name was still little known.

This changed in 1972 when Nakamichi launched their first own-brand deck, the Model 1000. It was both innovative and visually impressive. As a dictation medium, Philips had made provision for two heads only with cassette. On the Model 1000 Nakamichi used a third head, together with record head azimuth adjustment, to get a frequency response that reliably extended to 20kHz. It was launched in America, under marketing manager Takeshi Nakamichi, son of founder Etsuro.

The Model 1000 was followed by the Model 550/350 and 250 portables, and later the 600 series, especially distinctive because of their sloping fronts.

The 1980s saw a new Model 1000, the ZXL. It had computer tuning, a dual-capstan transport, record head azimuth adjustment, three heads and numerous other refinements. It was accompanied by the simpler 700ZXL, as well as the manually adjustable ZX-9 and 7. Less ambitious were LX-5/3 and the BX-2/1, domestic machines most likely to be found second hand.

Most amazing of all is the Dragon.



The CR-7E with manual azimuth adjustment



The ballistic RX-505, featuring Unidirectional Auto Reverse - the head remains stationary while the cassette pops out & pirouettes.

This has automatic replay-head azimuth adjustment, the first time ever for any cassette deck. In fact, only Nakamichi have ever sought to alter replay head azimuth, using a motorised head platform. The later CR-7E is, in my view, the ultimate in this respect. Simpler than the Dragon, it lacks the auto-sensing head, having instead manual adjustment accompanied by remote control.

Seduced perhaps by the market impact of products like the Model 1000 and Dragon, Nakamichi have produced many other astonishing devices, like the RX-505/303/202 auto-reverse cassette decks that physically spin the cassette around, the T1000 turntable that centres records to eliminate low rate wow produced by eccentricity, the OMS-1000 optical disc system and finally the 1000 DAT recorder.

Couple all this with a very broad but, in the UK at least, none too successful hi-fi range comprising power amplifiers, pre-amplifiers, tuner amplifiers, CD players, CD auto changers, tuners, AV units and a host of accessories and it starts to look as if Nakamichi have spent huge sums in research and development, inventory, marketing and all the paraphernalia needed to support such a large range. The Kodaira plant, whose senior managing director, Osamu Nakamichi, is another brother of the founder, employs around 200 people, but Nakamichi have other plants, and manufacture computer

peripherals in America.

As the 1990s started, sales of upmarket hi-fi slowed around the world. The cassette went into decline some time ago, prompting Philips to launch DCC and Sony their MD.

Both these significantly undercut DAT, leaving Nakamichi's

expensive 1000 recorder out on a commercial limb. It looks as if this combination of events has been particularly cruel to Nakamichi, who have over the years invested enormously in highly complex top-end products. Now, all production of hi-fi has ceased, leaving only the 1000 DAT recorder for professional use, semi-professional CD-R recorders and computer peripherals.

### BUYING A NAKAMICHI CASSETTE DECK

Nakamichi have traditionally offered a good spares and backup service to avoid early obsolescence. The factory supplies spares for 8 years after a model has ceased production and B&W UK stock enough to extend this period further.

They told us they have all spares for all cassette decks, with some exceptions for early models. For the Model 1000 and 700 Tri-tracer, including MkII's (over 20 years old), only belts and heads are available. Similarly, for the 600, 550, 350, 250 models (early 1970s), certain spares are now unavailable.

Note that parts like belts and heads are more likely to be available than trims.

For recent models, like 1000/700ZXL, Dragon, CR/DR series, all spares are available.

For more specific information, phone Nakamichi Service Dept

☎ 01903-750750

☎ 01903-750694

### WHAT TO BUY

Later model cassette decks are a much better bet than early ones, but if early ones are wanted for a collection, make sure they are cosmetically in good condition, since trims are unavailable. Internal parts are easier to replace.

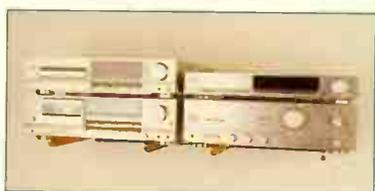
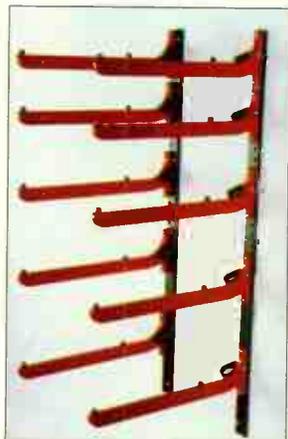
For normal use I found from tests that the budget three-head decks, e.g. LX-5, Cassette Deck 1/1.5, CR-4/3, DR-1/2 offer best value. Upmarket models like Dragon, ZX-9/7, CR-7/5 are the cream, but they are complex and may be more expensive to repair/service. All two-head models are unremarkable.

I bought a ZX-9 in 1983, for tape testing. It has worked perfectly since, with the exception of regular bulb failure (end-of-tape sensing). BASF (Germany) didn't believe my tape overload figures, so they sent over an engineer from Germany. I was told later that when he returned they went out immediately and bought ZX-9s! Nakamichi's reputation was well earned in my view ●

# BURRIDGE

QUALITY BY DESIGN

THE BURRIDGE RANGE OF WALL MOUNTED HI FI RACKS OFFER A STYLISH, STRONG PLATFORM THAT CAN BE TAILORED TO SUIT YOUR SYSTEM. THE ARMS ARE HEIGHT AD-JUSTABLE AND CABLE CLIPS TIDY ANY WIRES. A RANGE OF COLOURS ARE AVAILABLE TO MATCH YOUR LAYOUT.



FOR MORE DETAILS AND A FREE INFORMATION PACK CONTACT  
**BURRIDGE ENGINEERING**  
 70 HIGH STREET, CLACTON-ON-SEA, ESSEX, CO15 6PW  
 TEL: 01255 420203 FAX: 01255 426942

The Rohmann cartridge has been developed by Ortofon to celebrate the memory of the late chairman of the company. It has been designed to bring much of the excellence of the MC7500 to a wider audience. It is a serious product commemorating a serious man, so you will find none of the irreverent puns in this advert that have become prevalent with our ads.



So don't \*\*\*\* about - go out and buy one.

**ortofon** 01753-889949

YOU REALLY MUST  
 HEAR THIS



Doug Brady  
 Hi-Fi

WARRINGTON TEL: 01925 828009

*Dilson benesob*

Turntable, Tonearms, Cartridges, Head Amplifier,  
 Loudspeakers, Turntable Table, Equipment Platforms

## Studio One

We are flexible with our opening times  
 Free parking available by appointment.

117-119 HAMMERSMITH ROAD  
 LONDON, W14 0QH.  
 Tel: 0171 371 3037  
 Fax: 0171 371 1790  
 We are open Mon-Sat 10.00 - 6.00

Mail Order



**SONNETEER CAMPION**

*Presents:*  
 THORENS  
 CD PLAYER, PRE-  
 AMP & TUNER.



*We offer home  
 demos on Hi-Fi  
 equipment and  
 cables.  
 So you can make  
 your choice.*

AVAILABLE NOW

Agents for:- Alchemist, Audio Innovations, Audiolab, Aura, Alphason, Atacama, ATC, Audio Technica, Boston, B&W, Chord Company, Castle, Denon, Dynavector, Harman-Kardon, Heybrook, JBL, Jecklin, Jamo Oriol, Oreille, KEF, LFD, Marantz, Michell, Moth, Musical Fidelity, NAD, Nakamichi, Ortofon, Pro-ject, Rogers, S.M.E., Sequence, Sendor, Stemsfort, Sugden, Systym, Teac, Thorens, Totem, Tannoy, Townshend, Tube Technology, Van - Den - Hul, TDL, Electronics, Studio series and many more.

- \* Home Installations\*
- \* Free Local Deliveries\*

*"Introducing a new brand of  
 amplifiers exclusive to Studio  
 One The Sonneteer Campion  
 Integrated amplifier."*

**"Call Joseph or Ossie now for Free advice"  
 Audition The ECA Servo A Point 2 True Ribbon  
 Loudspeakers "Be Amazed"!  
 "Records cleaned and sleeved on Nagaoka antistatic  
 for £1.50 per album"  
 Pay us a visit, we are near Olympia**

# 12 ISSUES FOR ONLY £25.00

(Within the United Kingdom)

## HI-FI WORLD SUBSCRIPTION FORM

Please send me the next 12 issues of Hi-Fi World,  
starting with the \_\_\_\_\_

I enclose my cheque/postal order for £25.00 (United Kingdom only) made  
payable to **Audio Publishing Ltd.**

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DAYTIME  
TEL. NO. \_\_\_\_\_

Please debit my VISA / ACCESS Card No.

\_\_\_\_\_

Expiry date \_\_\_\_\_

Signature \_\_\_\_\_

Send to:  
AUDIO PUBLISHING LTD.,  
64 Castellain Rd, Maida Vale,  
London W9 1EX.  
☎ 0171 266 0461

### Overseas subscription rates

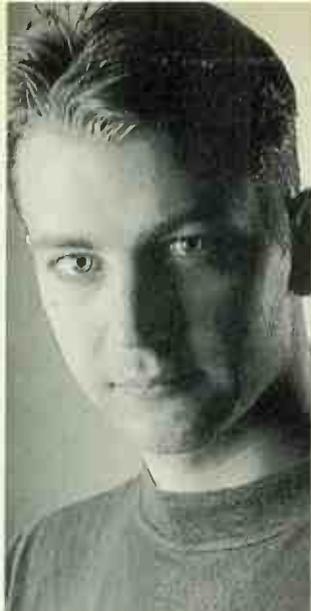
Surface Mail	£38
Airmail Europe	£48
Airmail Middle East & South East Asia	£58
Airmail USA, Canada, Australia, Japan, Korea & China	£68

- Airmail  
 Surface mail

E&OE 02/96



Subscriptions



## Dominic Baker

# dB on the level

I had to think long and hard before writing this column. The question I kept asking myself was, "do our readers really want to know about another new format to rival CD and the battle that will undoubtedly ensue?" Aren't things already confusing enough, now that there are 6 digital formats present and projected (CD, DAT, DCC, MD, CD-R, DVD) and 2 analogue?

CD and DAT, as most engineers now agree, are already outdated. In fact, many are of the opinion that they were never good enough right from the start. DCC and MD sought to tackle the market for home recording, offering the ability to record a digital or analogue source, but compromised quality further; neither have been especially successful. CD-R, recordable CD, is used mainly by the Pro industry - cost and copyright problems have prevented this system making major inroads into the domestic scene.

DVD (Digital Video Disc) is intended as a medium for video and multimedia, where far greater storage capacity is required (DVD can store nearly 8 times as much information as a CD on the same size disc). It is this DVD disc that has stirred the audio industry, which quickly realised that here was a carrier suitable for a greatly improved digital format. Because the DVD discs will be used by the

film and computer industries too, there is a good chance that the discs/players will be affordable as well - the economy of scale and all that.

DVD is a 'high-density' disc using smaller pits read by finer lasers to give 4.7Gigabytes of storage space compared to CD's 0.6Gigabytes. The Acoustic Renaissance for Audio, which was founded by Professor Hirokazu Negishi of Canon and includes Bob Stuart of Meridian and Professor Malcolm Hawksford of the

ideal for archiving.

In fact the need to archive music was what inspired DSD in the first place. Having recently bought Columbia, Sony face the task of archiving a \$2 billion back catalogue, which as you can imagine is a lot of music. Their engineers readily admit nowadays that 16-bit digital is insufficient to capture all of the information from an analogue master tape. So before the archiving process could begin, they had first to come up with a system that was 'transparent'.

*"CD and DAT, as most engineers now agree, are already outdated"*

University of Essex, has already proposed a 24-bit 96kHz sampling system. Now that Sony have their own system, DSD, the battle begins.

Visitors to room C1P5 at AES Copenhagen in May will have been able to listen for the first time to Direct Stream Digital (DSD). It was demonstrated against 20-bit 44.1kHz digital audio with a 1/2inch 2-track analogue tape running at 30ips as a control (interesting that analogue is still chosen as a reference). The specification, Sony claim, is so high that it won't need improving in future (unlike CD) and so is

Sony's DSD was developed primarily for two track mastering, but there is also good potential for audio, multichannel and surround sound applications. The provisional specifications for DSD are far higher than the 16-bit CD system we use now. The sampling frequency is 64 times higher, bandwidth is 100kHz compared to CD's 21kHz, and dynamic range 120dB (up to 20kHz). At this sampling rate DSD produces four times the digital data of CD.

Direct Stream Digital captures the output of a modified Delta-Sigma convertor as a single-bit high-density pulse train.

The analogue signal can be easily reconstructed by passing the DSD datastream through an analogue low-pass filter. This high-density datastream can also be down-converted to a variety of the other industry standard data formats (such as 16-bit 44.1kHz) allowing backwards compatibility which is going to be an important factor for any new system.

As a final note, it must be said that it is the hardware manufacturers of the hi-fi industry who are pushing for higher quality digital audio. The software suppliers, record labels, are not so keen. As far as most are concerned, there is no need for a CD replacement; the consumer is more than happy with the quality of CD, they say.

Looked at in this way, it appears unlikely that any new super quality digital system will ever be introduced, but as DVD takes off in the computer and video markets, perhaps the convenience for pressing plants of being able to run production of DVD discs for computers, video and audio with no different processes involved will be a strong lure. Hardware too could be standardised, the laser mechanism for all three areas being identical. This would push production runs upwards and cost downwards. In theory too, there's no reason why your computer shouldn't function as a multimedia station, playing video, audio and computer DVD discs. For audio it would act as a computer controlled CD transport, supplying digital data to your outboard DAC to feed to the hi-fi system.

It sounds like an impossible dream at the moment, but perhaps in the next 5 years or so we'll see a super-CD system with fantastic sound quality. Better still, the players and discs may be no more expensive than they are at present, bringing the consumer a real and worthwhile benefit ●

Does hi-fi have to come packaged in boring black boxes? The debate as to whether hi-fi should be more outlandishly designed continues to rage. You may have noticed in our recent Letter pages it's a subject that many of us feel strongly about, one way or the other. It's something I've written about in previous columns, usually lambasting manufacturers for not being more adventurous. After all, if companies such as Michell and Audio Innovations can produce genuinely different and stimulating designs, why can't other manufacturers?

The reason, I feel, is not as clear cut as it first appears. Although I would be the first to argue for more adventurous hi-fi design, there are compelling arguments for the 'black box' that need to be heard.

Looked at in a Germanic, practical fashion, black boxes make a lot of sense. Firstly they are relatively unobtrusive. A stack of black separates may stand out in a room, but it won't shout at you like a stack of chrome or Ferrari red separates would do. Many may rather their hi-fi is attention grabbing, but over time the novelty can wear off. Also the colour scheme and styling of the unit may act as a positive distraction whilst listening to music. You don't believe me? Then just try listening to a Michell Gyrodec, placed in front of you, without becoming hypnotised by its revolving platter weights!

Black is usually resistant to marking and dust (depending on the finish) too. An Audio Innovations chrome Alto amplifier may be striking when lifted out of the box but, believe me, the novelty soon wears thin after cleaning off dozens of smeared finger prints daily. The matt black Alto amplifier, on the other hand, will look good for weeks without the need for constant attention from the duster. Black is also a very safe colour that doesn't

date as other hues do. A ten year old Nakamichi, for example, still looks good today, which is more than can be said for a ten year old component in 1986. It would no doubt have been silver, wrapped in fake wood reminiscent of a school desk, and of

fifteen years ago, you'd be able to buy a CD player for it today that would match.

Then there is the box shape itself. Despite there only being a loose standard for width or depth, different manufacturers' units seem to quite happily stack one on top of

separates that's more than the mere sum of its parts. Each system tells a story of the owner's likely tastes in music and musical presentation. It points to possible upgrade paths that have been taken in the past, that can be as intricate as a family tree (remember the lengthy articles on readers systems in hi-fi magazines of yesteryear?)

These systems also usually feature yards of exposed cable. It may not be neat and tidy like a midi system with all the cables hidden in conduit tubing, but at least it's got character. I always like to think of a real hi-fi separates system as the equivalent of the Lloyds building, with all the workings exposed in an intriguingly skeletal yet honest fashion.

You may argue that this is the case with a collection of any separates whether square black ones or not, but there is something appealingly industrial and, again, honest about boring black boxes. Don't get me wrong, I still think there's scope for huge improvements in build quality and detail design. And there will always be a place for the absurd, impractical and downright gorgeous (which we could do with more of). But maybe there's more to the mainstay black box than first appears, and perhaps they aren't so boring after all. Perhaps ●

## Fair Views

from  
*Dominic Todd,*  
*our man in*  
*retailing*



opinion

*“ Somehow the black box  
is the iconoclastic symbol  
for all that is hi-fi. ”*

gargantuan proportions.

Being a boring black box also means that when the time comes to buy another, it will usually fit in with the rest of the system. I say usually as I'd be the first to admit that no one manufacturer uses quite the same finish, or the same texture for that matter. Yet the end result is usually harmonious enough.

There's much to be said for sticking to the same shade over the years, too. Whilst other manufacturers wavered from silver to black, and maybe experimented with champagne gold along the way, NAD religiously stuck to grey. Whilst it may not fit in with anything else, it has at least meant that if you bought a NAD system

another. Try this with Audio Innovations' 'flying saucer' shaped amplifier, and the result is bound to end in tears. Black boxes simply fall off the top of its oval shaped casing. And that other stalwart of alternative design, the Gyrodec, may look imposing but finding something that will accommodate its bulk can be difficult.

Yet there's a factor involved here that goes beyond the merely practical. It's almost inexplicable, but somehow the black box is the iconoclastic symbol for all that is hi-fi. It is the very identity (wrongly perceived or otherwise) of our whole industry. There's something appealing about a stack of anonymous

**We've a great deal in store...**

AE, Atacama, Audio Innovations, Audiolab, B&W, Cable Talk, Cyrus, Harman-Kardon, JBL, KEF, Kenwood, Marantz, Michell, Mission, Monitor Audio, Mordaunt-Short, Musical-Fidelity, Pickering, Pink Triangle, Pioneer, Quad, REL, Rogers, Ruark, SME, Systemdek, Tannoy, TDL, Thorens, Tube Technology, Yamaha & lots more...



Best place in town for Hi-Fi and Home Cinema...

- Widest choice in the area
- Independent advice
- Qualified staff
- Comfortable dem rooms
- Superb showrooms
- Main road location
- Major car parks nearby
- Insurance estimates
- Over 30yrs experience.
- Service Dept.
- Delivery & installation
- Part Exchange
- Interest Free Credit
- Up to 2yrs ask for details
- Visa/Access/Switch etc
- Open 10.30 - 5.30 6 days



**24 Gillygate, York  
Tel. 01904 629659**

High Fidelity Specialists est. 1967

X Dem. Sale...

Audiolab 8000A	£395
8000T	£650
8000CDM	£995
8000DAC	£650
8000M	£1195
Acoustic Energy AE1 r/w	£695
Aegis One	£350
Aegis Two	£599
Micromega Stage 1	£449
Stage 2 s/h	£495
Ruark Crusader bk.	£1195
Templar r/wood	£425
Michell Alecto Stereo	£995
Argo pre.+Hera	£685
KEF Q30	£295
Spendor SP3/1 L/cherry	£645
TDL RTL3 bk.	£335
Musical Fidelity E100	£395
E600 CD	£395
Quad 66 inc remote	£695
34 pre amp	£325
77 Amp	£525
Pink Triangle PTA ash	£1350
Dacapo	£1250
Harman HD7725 CD	£650
TL8500 multi CD	£450
JBL Aquarius S119 LSs	£650
REL Stadium r/w	£875
Yamaha DSP-A2070	£895
DSP-E580	£385
Mission 753 r/wood	£650
752 bk.	£395
751 r/w	£265
776/777 pre-power s/h	£950
Audio Innovations L1	£275
Series 1000 monoblox	£1250
2nd Audio s/h	£1250
Series 200 amp	£395
MA Studio 20SE r/w	£1950
Naim Nait 2 s/h	£250
Pioneer VSA701 pro-logic	£425
CLD1950 laserdisc	£495
KEF Centre 90	£200
Marantz CD63SE	£295

**HiFi Cabinets?**  
**Jan's SUPERB**  
**hand made units**  
**are the**  
**bees knees -**  
**OAK ASH MAHOAGANY**  
**TEAK WALNUT ROSEWOOD**



Also CD Storage

**IAN EDWARDS**  
**THE OLD CHAPEL**  
**282 SKIPTON ROAD**  
**HARROGATE HG1 3HB**  
**'PHONE: (01423) 500442**



New range includes:

4240 Integrated Amp	£279
P42 Pre-Amplifier	£279
A42 50W Power Amp	£279
CD 42 CD Player	£500
OBH-8 Phono Pre-Amplifier	£99
OBH-10 Remote Volume Control	£129
OBH-11 Headphone Amplifiers	£129

Over the last 14 years Creek Audio has designed and constructed Hi-Fi equipment for thousands of enthusiasts. Now that it is once again an independent company the story is set to continue, with a new range of equipment designed for the nineties.

For further information and a list of stockists

Phone 0181 - 361 4133 or send coupon to:

CREEK AUDIO LTD, 2 BELLEVUE ROAD, FRIERN BARNET, LONDON N11 3ER.

Name \_\_\_\_\_ Address \_\_\_\_\_

# SPALDINGS

The South East's Leading Hi-Fi Specialists  
352-354 Lower Addiscombe Road, Croydon, Surrey. CR0 7AF

**0181 654 1231/2040**

Arcam, Audiolab, Cable Talk, Chord, Copland, Denon, Ixos, Linn, Loewe T.V.'s, Meridian, Mission, Marantz, NAD, Naim, Nordost Flatline, Panasonic, Quad, Revolver, Ruark, Tannoy, Target Audio, Technics Yamaha.

INSTALLATION SERVICE, 0% FINANCE AND BADA. APPROVED



# BUILT FOR BATTLE

**Tangent's Monitor Two loudspeakers put up a tough fight against their opponents for just £60. Haider Bahrani is on the front line for some close surveillance work**

**A**s a budget loudspeaker the Tangent Monitor Twos aren't bad at all. For £60 these are the nearest things to a bargain I've come across in hi-fi.

In loudspeaker terms the Monitor Twos are tiny, their cabinets holding a tightly confined 5.7litres of air. Sound staging was quite the opposite though with very good breadth and depth giving a far larger impression than I'd expected. The bass driver is a 130mm long throw unit and the tweeter is a 25mm copolymer dome, ferrofluid cooled. Interestingly these are an infinite baffle design, not reflex loaded like most miniatures.

Now let's talk music. Eurythmics' 'Sweet Dreams' was exposed in most of its synthetic splendour. The mid band was clear if a bit dry and its lower end behaviour was dynamic and punchy. Below this bass didn't extend down that far, but was tight and tuneful which is all you can expect from such a compact box. Transients like on 'Here Comes the Rain Again' were handled quite competently with the typically fast

attack of a small sealed box.

The bells on Bjork's 'Venus as a Boy' rang a little too much though and the decay on cymbals and high hats, in contrast to the upper and lower midband behaviour, tended to fade rather too slowly causing them to splash. Bjork's vocals were prominently forward in the image however forming a convincing illusion of expansive sound.

With Fairground Attraction's hit song 'Perfect' the reproduction of the acoustic instruments and Eddie Reader's vocals was musically enjoyable. I can't describe these speakers as truthful, but I did find them entertaining: The First of a Million Kisses lost little of its life or character. Double bass didn't have the openness and richness of a floorstander and treble lacked the smoothness and sweetness of more expensive models. Saying this, the Tangents' sound reproduction was coherent, gelling together all aspects of the music and presenting it in a balanced and tidy fashion.

Sade's 'No Ordinary Love' off her Love Deluxe album really did show these speakers off more than their sub £100 price tag would have you suspect. The soundstaging was better than I've found in speakers at many times the price while the control in the lower midrange bought a tightly defined tempo and rhythm to the track. The slight glare in the treble and accentuated sibilance tried, but failed to detract

from the very acceptable overall sound.

Much like a budget guitar, the Tangent Monitor Twos don't have the smoothness or sustain of pricier Fenders and Gibsons, but they sure can churn out a good tune when asked to. Beer swiggin' blues fans I'm sure will show some feeling for this raw animal which complemented the smooth Cognac of Bonnie Rait's slide guitar on Buddy Guy's 'Feels like Rain'. Buddy's guitar did screech a little on the higher notes and there was a clear lack of substance at the very bottom. . .

But then for this kind of money what more could you ask for. The Tangents are balanced to produce an enjoyable and communicative sound, and at this price that's not just half the battle, it's a clear victory. Perfect for students or audiophiles on a budget.

**Tangent Monitor Two £60**

**Tangent Acoustics**  
115 New London Road,  
Chelmsford, Essex CM2 0QT  
0500 828620

## WORLD VERDICT



Good imaging as well as control. Tweets a bit too much, but more than fine for the money.

**Measured Performance**  
see p103

# A COMPETITION WITH IMPACT

**We've got four pairs of loudspeakers from Celestion's Impact range to give away this month, one each of the 10s, 15s, 23s and 30s. That's a total of over £1,000 worth of prizes.**

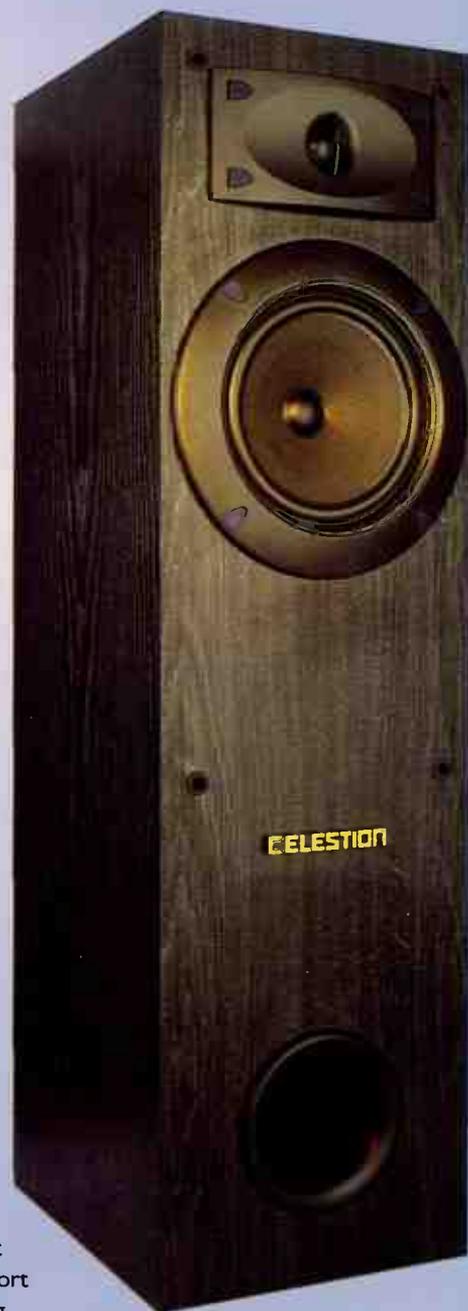
Celestion is the world's oldest loudspeaker company, with a history of manufacture stretching back 70 years. The company was formed in 1924 by Cyril French, an audio engineer from Hampton Wick in Surrey.

1932 saw Celestion produce the Reetone Dual, one of the first two way 'speakers for domestic use with an awesome power handling capacity of two watts. In the early 50s the introduction of FM transmissions meant that for the first time real high fidelity became a possibility for radio listeners. Celestion's HF 1300 tweeter, developed in 1956, was therefore quickly adopted by the BBC for studio use. The Ditton 10, one of the first bookshelf 'speakers, made its debut in 1964 and the Ditton 15 arrived a couple of years later.

In the professional world, Celestion made its mark with the G12, the speaker of choice for The Beatles, The Rolling Stones, Jimi Hendrix and Led Zeppelin.

The late seventies saw Celestion's development of 'speaker diaphragm mapping with lasers. This technique was used in the design of the SL6 and the SL600, famous for its cabinet of aerolam, a rigid, lightweight aluminium honeycomb sandwich used in the aerospace industry.

Moving into the digital domain, Celestion then released their DLP600 digital loudspeaker processor for use with the



SL600 and SL600i. This unit sat between the transport and DAC correcting frequency response and time delay errors in the 'speakers, improving their sound quality.

The latest addition to Celestion's 'speaker canon is the Impact range. Dominic Baker reviewed the Impact 23s in our March '96 issue, and was very taken by their coherent presentation and tonal accuracy, coming to the conclusion that



they were a sonic bargain. You too could find yourself sitting in front of a pair of Impact 'speakers, if you're one of this month's competition winners. All you have to do is complete the questions and tie-breaker opposite.

Please send in your entry on a postcard or the back of a sealed envelope to reach us no later than 4th July to:

**Celestion Impact Competition**  
**Hi-Fi World Magazine,**  
**64 Castellain Road,**  
**Maida Vale,**  
**London W9 1EX**

Don't forget to include your name, address and telephone number if possible so we can contact the winners promptly.

## MAY ISSUE COMPETITION

### ROGERS COMPETITION

In our May '96 issue, we gave you the chance to win one of five pairs of Rogers loudspeakers. Here are the lucky winners:

Martyn Scott of Locks Heath  
 wins Rogers LS33/AB33

L. Bourne of Bracknell  
 wins Rogers LS33

John Morton of Eccles  
 wins Rogers LS33

Peter Molyneux of Witley  
 wins Rogers LSI

Miss K. Cooley of Milton Keynes  
 wins Rogers LSI

**CONGRATULATIONS!**

## COMPETITION ENTRY QUESTIONS

*Cut out and affix to the back of a sealed envelope*

1) What famous Celestion 'speaker did the Beatles use?

- |        |        |
|--------|--------|
| A. G12 | C. R68 |
| B. F15 | D. M40 |

2) In which year did the Celestion Ditton 10 make its debut?

- |         |         |
|---------|---------|
| A. 1875 | C. 1968 |
| B. 1964 | D. 1932 |

3) Who was Celestion's founder?

- |                 |                 |
|-----------------|-----------------|
| A. Fred Bloggs  | C. Dominic Todd |
| B. Jimi Hendrix | D. Cyril French |

4) What material was used in the Celestion SL600's cabinet?

- |              |              |
|--------------|--------------|
| A. MDF       | C. Aerolam   |
| B. Cardboard | D. Chipboard |

5) How long have Celestion been making 'speakers?

- |             |             |
|-------------|-------------|
| A. 20 years | C. 70years  |
| B. 50 years | D. 80 years |

## TIE BREAKER (obligatory)

*Complete the following in less than 30 words*

Celestion have been manufacturing loudspeakers for over 70 years now, their latest range being the Impact series. Write a one line slogan incorporating these facts, eg. Celestion - Making an impact for over 70 years.

.....

.....

.....

Name: .....

Address: .....

.....

Post Code: ..... Tel No.....

Please do not add my name to your mailing list.

## COMPETITION RULES AND CONDITIONS OF ENTRY

- [1] Only one entry per household. Multiple entries will be automatically disqualified.
- [2] In the event of more than one entrant submitting all-correct answers, the winner will be picked from the tie-breaker by the Editor. We will endeavour to publish the results in the second issue following the closing date.
- [3] Purchase of the magazine is not a precondition of entry.
- [4] No correspondence will be entered into; the Editor's decision is final.
- [5] No employees of Audio Publishing Ltd. or of any companies associated with the production or distribution of the prizes may enter.

\* If you would prefer not to receive details of new products or special offers please tick 'No'.

Hi-Fi World magazine is published by Audio Publishing Ltd.



VIBRATION ISOLATION PLATFORMS  
AND THE MODULAR AUDIO  
SUPPORT SYSTEM

**MUCH MORE THAN JUST A STAND!**

The Reviewer Choice  
As a piece of functional furniture the  
BASE Racks and Platforms together  
are a work of art - Dave Wiley,  
Audiophile Magazine.

The Customer Choice  
It's refreshing to find a complete  
isolation system that values aesthetics  
as highly as it does sonic benefits -  
Mr P M Roxwell, Cornwall.

Thanks!! The improvement is  
astounding and after hearing and  
trying other audio stands, the  
performance of BASE is second to  
none - Mr M Slattery, Sussex.



*"The Audiophile support brings the  
sound I hear at home one step closer  
to the sounds we create in the concert  
hall. Bravo".....Dr. K Murphy  
(Classical Musician)*

**WORLD VERDICT** 

Great Build and finish, and it sounds great

100

**Audiophile**  **For more  
details  
and a  
product  
portfolio  
please  
telephone**

**Tel: 01342 826262**

**Audiophile Furniture Limited**  
The Square, Forest Row,  
East Sussex RH18 5SE.

# RINGMAT FOR RECORD LOVERS

First record support to be  
properly designed

RINGMAT is the leading  
support for a record on a  
turntable platter and has  
been acclaimed around  
the world for its outstanding  
performance and  
cost-effectiveness.

## NEW XLR VERSION OF 330 MkII AVAILABLE FROM APRIL 1996

Tracking even more  
secure. Sound is fuller  
and more natural.  
Greater power and  
expressive-ness. Bass  
line goes much deeper.

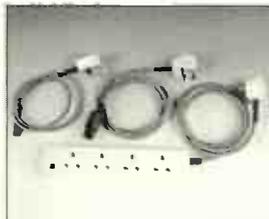
**PRICE: RINGMAT  
330 MkII XLR £47.50**

RINGMATS can be ob-  
tained through good hi-fi  
retailers. There is an ex-  
change scheme for  
earlier RINGMATS. For  
more information on this  
or on RINGMAT  
generally, or for mail  
order (including VISA  
/MasterCard), contact:

**RINGMAT  
DEVELOPMENTS  
PO BOX 200  
BRENTWOOD  
ESSEX CM15 8QG  
UNITED KINGDOM  
Tel: 01277 200 210  
Fax: 01277 201 225**

(Mail order p&p:  
additional £2.50 UK;  
£5.50 outside UK)

## campaign audio design



Getting a better more involving sound  
often means spending a lot of hard earned  
money. It's such a waste, because every  
system can benefit from our cables and  
accessories, at a fraction of the cost of some  
new "black box". Here are some of the  
ways we can help.

We have Oxygen Free Copper  
interconnects (£12.48) up to High Purity  
Silver cables (£89.00) and high definition

loudspeaker cables in Silver plated Copper or Pure Silver. Our mains cables  
add weight, power and scale, and with non inductive RF filtering (£10.00) and  
over voltage protection (£3.00) enhance performance still further. Gold plated  
AV cables, both RF (£19.95) and Scart (£23.52), help bring picture quality in  
line with NICAM sound resolution.

Valves, capacitors and transistors are all microphonic, they cannot perform  
optimally if vibrated. Our set of three Brass Isolation cones (£5.00) are worth  
their weight in gold - revealing low level resolution and dynamics hither to  
hidden beneath electronic noise. We also have a cure for your noisy fridge or  
central heating motor (£3.50), enabling you to throw away your big mains noise  
suppressor, which has been giving you that "sat upon sound" for years.

There's lots we can do to bring you closer to the emotion and energy of the  
performance. So confident are we, that we offer a 14 day money back  
guarantee.

Ring or write for details:-

**CAMPAIGN AUDIO DESIGN**  
Llandudno Road (HW)  
Cardiff CF3 8PG  
Tel:- 01222 779401

Trade and International Enquiries Welcome.

You can follow the digital  
revolution or you can follow the  
**Groove**



"The sounds from the Pro-ject 1 had the famous engaging bloom and  
warmth so characteristic of LP, which is either caused by analogue's  
inherent superiority over digital or a mixture of distortion, crosstalk and  
microphony according to your viewpoint. Anyway, I liked it ..."

John Borwick, Gramophone

Project 1 Turntable

**PRO-JECT**  
AUDIO SYSTEMS

Pro-ject record playing systems are available for between £150 and £2,000  
For more details and stockists, phone ORTOFON UK on 01753-889949

**SOUTH**

For the great sound of sound :

**The Comflake Shop**  
37 Windmill Street London W1P 1HH  
071 631 0472 Fax. 071 436 7165

We stock ATC, Arcam, Meridian, Naim, Rega, Royde, Roksan, AVI, Monitor Audio, DNM; as well as offering a marvellous mail-order worldwide service • Crunch •

**SOUTH**

**QUAD 33 CONVERSION**

A re-designed rear panel incorporating gold phono sockets and up-dated selector boards installed into your Quad 33. Free Ixos leads supplied with conversion. Other Quad modifications available. Also repairs to: QUAD, LEAK, LOWTHER, BOSE, etc

ACADEMY SOUND (CORNWALL).  
BANK HOUSE, ST AGNES, CORNWALL, TR5 0QW.  
TEL: 01872 553317

**LONDON & SOUTH EAST**



Best place in town for Hi-Fi and Home Cinema

- ★ Six superb demonstration rooms
- ★ Interest Free Credit
- ★ All Leading Brands
- ★ OPEN SUNDAYS

**UNILET SOUND & VISION**  
35 High Street, New Malden, Surrey KT3 4BN  
Tel 0181 942 9567 Fax: 0181 336 0820

**LONDON & SOUTH EAST**



79/81 Fairfax Road  
Swiss Cottage  
London NW6 4DY  
071 624 8855/6  
Mon-Fri 10-7-Sat 10-6

**SPALDINGS**

THE SOUTH EAST'S LEADING HI-FI COMPANY

3 DEM ROOMS A.V.  
HOME DEMS., 0% CREDIT  
FREE INSTALLATION  
LINN . NAIM . QUAD . AUDIO LAB  
DENON . MARANTZ . RUARK  
MON TO SAT 9.00 TO 6.00, TUE 9.00 TO 8.00  
SERVICE DEPT

325-354 Lower Addiscombe Road, Croydon, Surrey CRO 7AF  
Telephone: 0181 654 1231/2040 Facsimile: 0181 655 3922

Stockists of: ARCAM • CREEK • EPOS  
HEYBROOK • MICROMEGA • NAIM AUDIO  
NEAT • REGA • ROKSAN • ROTEL • ROYD  
TEAC • YAMAHA

**Infidelity**  
indecently good hi-fi

9 High Street, Hampton Wick, Kingston upon Thames, Surrey KT1 4DA. Tel: 081-943 3530  
Open Tues - Sat 10.30am - 7.00pm.

**HI-FI & COMPONENTS LTD**

Established Over 30 Years

- All Leading Makes Of Equipment
- Hi-Fi & Video Repairs & Servicing
- Stockists Of All Accessories & Those Hard To Find Ones
- Large Range Of Chassis Spkrs
- AUTHORISED DEALERS

FOR... NAD, DENON, SANO, TANNAY, KENWOOD  
(To Name But A Few)

0171 223 1110  
84 Battersea Rise, London, SW11

Open Mon - Sat 10-6pm.  
Switch and major credit cards accepted.

**R. J. F.**

**AUDIO VISUAL**

**CORNWALLS PREMIER DEALER**

Analysis, Atacama, Audio note, Audiomeca, beyer, Cable Talk, Chord, Denon, Harman Kardon, Impulse, JBL, JPW, Klipsch, McIntosh, Micromega, Monitor audio, NAD, Ortofon, Project, REL, Rotel, SD Acoustics, SME, Target, TDL, Teac, Triangle, Trichord, Parasound, Musical Technology, QLN,

Demo rooms & free installation (subject to certain conditions). Interest Free Credit available

**Front End Problem?**

contact -

**The Cartridge Man**

It doesn't have to cost an arm and a leg to get the best - listen to my koetsu - and Decca - eater.

Also agents for croft, sugden, Thorens, Pentachord Speakers & Nottingham Analogue.

plus cartridge re-tipping service

081 - 688 6565

**NORTH WEST**

**audio excellence**

86-90 Boughton, Chester CH3 5AQ  
(01244) 345576  
**TUESDAY - SATURDAY 9.00 - 5.30**  
**CLOSED MONDAY**

**EIRE**

**WORTHING AUDIO**  
20 Treville Gate, W.Sussex. BN11 1UA  
(0903) 212133  
The friendly shop with the best sound system in the South. Friendly advice  
• 3yr guarantees • easy parking  
Open Mon-Sat. 10am-6pm Late night Wed. 7.30pm  
Agencies include: Arcam, Exposure, Kinshaw, Naim Audio, Marantz, Ruark, Audio Technica, Target, Tripod, JPW, TDL, Orelle, and many more....

**"One of the 5 best hi-fi shops in the world"**

**GRAHAMS HI-FI**

Canonbury Yard, 190a New North Road  
London N1 7BS, ☎ 071-226 5500  
**Ring for a chat, an appointment and a map!**

**AUDIO CONCEPT**  
27 BOND STREET, EALING  
LONDON W5 5AS  
TEL. 081 - 567 8703

AMC, Acoustic Energy, Aura, Audiolab, Audio Innovations, B&O, B&W, Cannon, Castle, Cyrus, Denon, Dual, Evolution, JPW, KEF, Marantz, Micromega, Mission, Monitor audio, Musical Fidelity, NAD, Nakamichi, Onix, Onkyo, Quad, REL, Rogers, Rotel, Systemdek, Target, Teac, Thorens, Van den Hul.

10 - 6 pm Mon., Tues., Friday, & Sat.  
Late night Thur., closed Wed.

Two demonstration rooms.  
Free local delivery and installation.  
Repairs and Services

hi-fi in the CITY

**Auditorium**

ARCAM CYRUS  
BANG & OLUFSEN  
DENON EPOS KEF  
DYNAVECTOR  
REL MICROMEGA  
NAIM MISSION  
NEAT WTT XLO  
SHAMANIAN  
SYSTEM AUDIO

119 Middlesex Street, Bishopsgate, London E2 7JF  
Telephone 071 247 5000  
Facsimile 071 247 5990  
TWO MINS WALK FROM LIVERPOOL STREET STATION

THE INNOVATIVE AUDIO AND VISUAL HI-FI RETAILER

**ORANGES & LEMONS**

0171- 924 2040  
61/63 WEBBS ROAD, SW11

NOW IN OUR SECOND FRUITFUL YEAR.

REL • Audiolab • Arcam • B&W • Naim • Castle • Epos • Technics • Audioquest • Pink Triangle • Rega • EAR • Classé • Meridian • TDL

A Passion for Excellence

**CLONEY Audio**

for those who demand the best

55 Main St Blackrock  
Tel: 2889449 • 288477  
Open: Tue-Sat 10AM-6PM. Thur/Fri 'till 9PM

**specialist hi-hi dealers**

**VALVES/TUBES**

**CVC** Chelmer Valve Comapny  
for  
Audio Valves

Buy CVC PREMIUM Hi-Fi valves direct from us. All valves processed for improved performance. We also have Stock of MAJOR BRAND types including :MULLARD, GEC, BRIMAR, RCA, GE, etc

130, New London Road, Chelmsford, Essex, CM2 0RG  
Tel: 01245 265865 Fax: 01245 490064

**VALVES**

. Svetlana 6550B-2 £18 . Sovtek EL34G £8 .  
. Sovtek 12AX7WB. £4 . Sovtek 12AXWT £4 .  
. Sovtek 5881 /6L6 WGC £6 . P.P. £2 Per Order.  
Our prices include Matching. Not VAT registered  
N.O.S. OVER 2500 DIFFERENT TYPES STOCKED  
SEND S.A.E. FOR A LIST  
Wilson Valves, 28 Banks Ave., Golcar, Huddersfield,  
W. Yorkshire, HD7 4LZ  
TEL: 01484 654650. FAX: 01484 655699  
Visa, Switch, Master Card etc.

**REPAIRS/DIY**

**Sowter Transformers**  
EA Sowters Ltd  
PO Box 36  
Ipswich IP1 2EL  
0473 219390/252794

Output and mains transformers for GEC KT88 circuits.  
Can also make any other transformer to order. Send  
SA for lists and data.

**TECHNICAL & GENERAL**

THE ORIGINAL TURNTABLE SPECIALIST

for the Great Classical Turntable, Arms, Cartridges, Styl  
CONNOISSEUR • GARRARD • GOLDRING •  
LENCO • ORTOFON • SHURE • S.M.E. •  
THORENS • WATTS

All available Genuine spares and our own  
re-manufacture of obsolete parts

NO ILLUSORY 'IMPROVEMENT' NO  
DUBIOUS OR HARMFUL 'MODIFICATIONS'

Cartridges and styl, correct radius diamonds, for early  
recordings - 78s & Lps

**TECHNICAL & GENERAL**

P.O.Box 53 Crowborough, East Sussex TN6 2BY  
Tel: 01892 65 45 34

**Russ Andrews** Russ Andrews Ltd.  
Edge Bank House, Skelsmergh, Kendal,  
Westmorland, LA8 9AS, ENGLAND  
Tel: 01539 823247 Fax: 01539 823317

If you like the Hi-Fi equipment you have, but want a better  
performance, don't change it -

**UPGRADE IT!**

You can build better than you can buy and we offer kits,  
parts and instructions for anything from simple component  
upgrades to complete rebuilds, plus kits to build high end  
equipment from scratch.

**Upgrading Service.**

If you are daunted at the prospect of taking the lid off your  
prized possession, send it to us and we can do the  
upgrade for you. We will advise on feasibility and cost  
before starting work and upgrade to the level of  
performance you require and can afford. We have a  
secure, low cost collection and delivery service within the  
UK.

Upgrades to: Audia Research, Celestion, KEF, Krell, Linn,  
Marantz, Meridian, Naim Nysatech,  
Pioneer, Quad, Leak, Radford, Rotel etc....

To receive your copy of our 1995/96 catalogue, just Mail,  
Phone or Fax the address above.

**REPAIRS/DIY**

**Lockwood Audio**

THE  
Authorized **TANNOY** Specialist

SPARES AND REPAIRS

DEALERS IN VINTAGE AND USED  
EQUIPMENT AND RECORDS

**VISA** Callers welcome by **VISA**  
appointment

Imperial Studios Maxwell Road  
Borehamwood Herts. WD6 1WE  
Phone: +44(0)181 - 207 4472  
Fax: +44(0)181 - 207 5283

**GT AUDIO**

GUARANTEED TOP QUALITY REPAIRS AND  
SERVICING ON ALL TYPES OF VALVE AUDIO  
EQUIPMENT. SYMPATHETIC UPGRADING  
CARRIED OUT USING THE FINEST  
COMPONENTS AVAILABLE.

Also agents For: CROFT. G.A.T.E. GRAAF. LEAK  
TROUGHLINE TUNERS. MONRIO.  
NOTTINGHAM ANALOGUE. POSSELT. UKD  
OPERA. UNISON RESEARCH. YAMAMURA  
CHURCHILL ACCESSORIES

**TEL: 01895 833099**

**SUFFOLK**

ation  
audio innovations  
audion  
audiorecorder  
audiorevector  
audio synthesis  
chord company  
dansen  
ecr  
harbeth  
kar  
lyra  
michel  
morel  
ortofon  
project  
quad  
ray  
spendor  
hepburn  
pierre lumie  
sugden  
teac  
triangle  
trichard  
void

signals

hi-fi for grown-ups

ipswich 01473 622866

**MIDLANDS**

**CREATIVE AUDIO**

9 DOGPOLE, SHREWSBURY,  
SHROPSHIRE

Tel: (01743) 241924

Closed Mondays

- Comfortable listening rooms
- Home demonstrations available
- Part exchange welcome
- Free home installation
- Interest free credit

Authorised retailer for:

A&R ARCAM, AUDIOLAB,  
CELESTION, CYRUS, DENON, DUAL,  
MERIDIAN, MISSION, MONITOR AUDIO,  
QUAD, REVOLVER, ROKSAN, ROTEL,  
YAMAHA, EPOS, NAIM, KEF, NAD

**NORTH**

HI-FI YOU  
CAN'T  
AFFORD  
not to listen to

EQUIPMENT BY ABSOLUTE SOUNDS  
AUDIO INNOVATIONS, SUGDEN, IMPULSE, MICHEL, ROKSAN,  
PINK TRIANGLE, ACCUPHASE, THIEL, COUNTERPOINT, SONIC  
FRONTIERS, TRICHORD RESEARCH ETC.  
By appointment only

**SERIOUS KIT**

061 707 4823

**SOUNDS AROUND**

NEW & USED HIFI

Professional Service Repairs and  
Accessories

146A Clarendon Park Road, Leicester  
Telephone : 0533 702442

**MUSIC**

**CD SELECTIONS**

The UK's leading suppliers of bargain CDs and music  
for your free catalogue contact

CD SELECTIONS  
PO BOX 1011

DORCHESTER DORSET D12 7YG  
Tel. 0305 848 725

**MUSIC MATTERS**



**LATEST ARRIVALS**

CHORD SPA3200 & SPH1200B PRE-POWER, MERIDIAN  
DSP6000 SPEAKER SYSTEM, 565AC-3 SURROUND  
PROCESSOR, 557 POWER AMP, 518 DIGITAL PROCESSOR  
AND 566 20-BIT DAC.

ALCHEMIST MAXIM, NEMESIS AND FORSETI AMPLIFIERS,  
DYNAUDIO RANGE OF SPEAKERS, EPOS ES22, SPENDOR  
AND PRO-AC SPEAKERS, ROYD SQUIRE & DOUBLET  
SPEAKERS, QUAD 77 RANGE.....

**CLEARANCE & SECOND  
HAND SALE**

OUR VERY SUCCESSFUL SALE NOW  
MEANS WE HAVE A NEW LIST.  
PLEASE SEND A N.S.A.E. FOR AN  
UPDATE OF THE NEW BARGAINS  
AVAILABLE.

**PLEASE NOTE OUR NEW OPENING TIMES**  
TUESDAY TO SATURDAY 10am TILL 5.30pm,  
LATE NIGHT THURSDAY TILL 7pm.

Branches at:

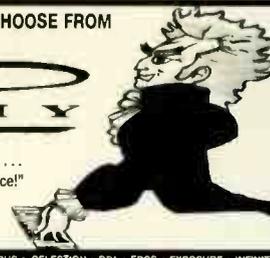
- Birmingham : 363 Hagley Road,  
Edgbaston, Tel: 0121 429 2811
- Solihull : 93-95 Hobs Moat Road,  
Tel: 0121 742 0254
- Stourbridge : 156/157 Lower  
High Street, Tel 01384 444184  
~Demonstrations By Appointment~

AUDIO EQUIPMENT FROM LEADING AND SPECIALIST BRANDS ON TWO FLOORS FOR YOU TO LISTEN AND CHOOSE FROM

- 3 Demonstration Rooms
- Home Trials
- Home Cinema – Instore Demonstration Theatre
- Audio Visual Equipment
- Evening Demonstrations by appointment
- Inhouse Service Department
- Mail Order Available
- Interest Free Credit on Selected Items (Apr. 0% – Written details on request)



Quality, Clarity, Expertise... and that's just the service!



Sharing the ASDA Carpark with ample free parking. Off High Street, Bloxwich, Nr Walsall, West Midlands. Near M5 Jnc. 10 & 11. Open 6 Days 9am – 6pm Late night Friday



Hi-Fi for the Beginner, the Enthusiast and the Audiophile Telephone (0922) 493499/473499

ACOUSTIC ENERGY • ARCAM • ALEMA • AUDIO LAB • APOLLO • A.T.I. • AUDIO ALCHEMY • AUDIO QUEST • B&W • BOSE • BEYER • CABLE TALK • CHORD COMPANY • CHORD • CYRUS • CELESTION • DPA • EPOS • EXPOSURE • INFINITY J.P.W. • KEF REFERENCE • KENWOOD • MARANTZ • MICHELL • MONITOR AUDIO • MONSTER • MORDAUNT SHORT • MERIDIAN • MICROMEGA • MISSION • MOTH • MUSICAL FIDELITY • NAKAMICHI • ORTOFON • PROJECT • QUAD ROKSAN • ROGERS • ROTEL • SENNEHEISER • SONY • SPENDOR • SUMIKO • SYSTEMDEK • TARGET • TDL • THORENS • TRIANGLE • TUBE TECHNOLOGY • VAN DEN HUL • VANDERSTEEN • YAMAHA • YBA

OVERSEAS



Information overload.

The Part Catalog & Resource Guide, Volume 2... The Parts Connection Catalog & Resource Guide, Volume 2... This is the only hi-fi reference work of its kind... It's not enough to give you a wide range of books on various hi-fi topics... It's also the only hi-fi reference work of its kind... It's not enough to give you a wide range of books on various hi-fi topics... It's also the only hi-fi reference work of its kind...

THE PARTS CONNECTION  
A DIVISION OF SONIC FRONTIERS INC.

2790 Brighton Road, Oakville, Ontario, Canada L6H 5T4  
Toll Free Order Line 1-800-769-0747 (U.S. & Canada only)  
Tel (905) 829-5858 Fax (905) 829-5388  
e-mail: TPC@sonicfrontiers.com  
WWW: http://www.sonicfrontiers.com/TPC

FRANK HARVEY  
Hi-Fi EXCELLENCE

163 Spon Street, Coventry, CV1 3BB Tel : 0203 525200.  
Mon to Sat 9.30 to 5.30. Closed Thursday

MUCH MORE THAN HI-FI  
WE ARE A BADA DEALER

Audiolab • Audio Alchemy • Arcam • Alphason • Bose • Bang & Olufsen • Celestion • Cyrus • Denon • Dual • Foundation • Kef • Marantz • Monitor Audio • Mission • Musical Fidelity • Nakamichi • Nad • Quad • Rega • Rogers • Rotel • Target • Tripod • Tannoy • Thorens • Van Den Hul • Yamaha



3 Floors, 3 Dem rooms, 3000 sq feet in the pursuit of Hi-Fi Excellence

WEST & WALES

audio excellence BADA  
WHERE THE MUSIC MATTERS

<b>Bristol</b> 65 Park Street Bristol BS1 5PB (01179) 264975	<b>Cardiff</b> 134/6 Crwys Road Cardiff CF2 4NR (01222) 228565
<b>Gloucester</b> 58 Bristol Road Gloucester GL1 5SD (01452) 300046	<b>Swansea</b> 9 High Street Swansea SA1 1LE (01792) 474608

TUESDAY - SATURDAY 9.00 - 5.30  
CLOSED MONDAY

SERVICES & CONSULTANTS

STEVE HANNAH AUDIO of WALSALL

neat  
sugden  
ukd-opera  
unison research  
slate audio  
stemfoot  
j m lab

01922 640300

LORICRAFT AUDIO

Required Garrard 301/401, Thorens TD124, Goldring GL75 any condition or any parts from new to completely used

Tel/Fax/Answer phone -  
01488 72267

WEST & WALES

Retailers of Fine Audio Equipment  
Congleton

LINN  
ARCAM  
B&W  
DENON  
EPOS  
KEF  
MISSION  
NAKAMICHI  
PIONEER  
TARGET  
TRIPOD  
YAMAHA  
LOUSY COFFEE  
DEFINITIVE  
MILLER KRIESEL

SUPERB DEMO FACILITIES  
FULL INSTALLATION & HOME DEMO SERVICE

OPEN 6 DAYS A WEEK  
OTHER TIMES BY APPOINTMENT

01260 297544

V'AUDIO 36 Druid Hill, Stoke Bishop, Bristol BS9 1EJ  
Tel: 0117 9686005

ATC, AVI, Acoustic Energy, Analysis, Alon, Audiomeca, Audio Technica, AMC, Analogue Electronics, Cadence Valve, Chord Amps, Electrocompaniet, Exposure, Goldring, Harman Kardon, Heybrook, Jamo, LFD, Lyra, Ortofon, Perception, Pink Triangle, Ruark, Michell, REL, Sansu, SME (inc. 20A), Sonic Link, Stax, Sugden, Sumiko, Townshend, Triangle, Wadia.

Demos by appointment only. Free trial facilities. Free installations. Servicing facilities. We are not a shop.

SERVICES & CONSULTANTS

atv

ATV SERVICES  
LEATHERHEAD  
01372 456921

- Service & Repairs
- Valve & transistor amplifiers
- Vintage valve Radios
- Hi-Fi VCR's
- Valves Tested

REVOX SERVICE

Fully Guaranteed Service and Repair  
Insured Carriage arranged  
Free Estimation  
Also: Tape Supplies  
Second User Reconditioned Machines  
Spare Parts orders welcome  
Free Advice

Ram Tek  
Tel: (0181) 207 6159  
Fax: (0181) 953 1118  
Kinetic Centre, Theobald Street,  
Borehamwood, Herts. WD6 4SE

specialist hi-hi dealers

## LONDON & SOUTH EAST



Best place in town  
for Hi-Fi and  
Home Cinema

- ★ Three superb demonstration rooms
- ★ Interest Free Credit
- ★ All Leading Brands

### UNILET SOUND & VISION

24-26 Union Street, Maidstone, Kent. ME14 1ED  
Tel: 01622 676703 Fax: 01622 676723

## AUDIO FAIR

THE SALE OF AUDIO EQUIPMENT OLD AND  
NEW, ELECTRONIC COMPONENTS,  
RECORDS. IN FACT ANYTHING TO DO WITH  
AUDIO REPRODUCTION.

VENUE:  
THE EGHAM YOUTH CENTRE  
18 HIGH STREET, EGHAM, SURREY  
(5 MINUTES FROM JUNCTION 13 M25)

SUNDAY 1ST OCTOBER 1995

10:30AM - 4PM

ADMISSION £1.00

STALLHOLDERS £15.00

LIGHT REFRESHMENTS WILL BE AVAILABLE

CONTACT  
GRAHAM TRICKER  
ON  
TELEPHONE/FAX:- 01895 833099

### Vitamin - Q Caps

We have a limited supply of metal case, paper/oil  
caps, Sprague, Westcap, Gudeman, J.Fast etc.  
Send for a list

*Kurluff Enterprises*

4331 Maxson Rd., El Monte, CA 91732 USA  
818/444-7079 \* Fax 818/444-6863

### TOP END EQUIPMENT?

THEN IT DESERVES THE BEST AERIAL CONTACT  
**RON SMITH AERIALS**

98, ASH ROAD LUTON, BEDS.  
TO OBTAIN A FULL "AERIAL GUIDE" OR DISCUSS  
YOUR RECEPTION PROBLEMS D.I.Y. SUPPLIES ARE  
AVAILABLE MAIL ORDER. OR WE CAN ARRANGE  
INSTALLATION

TEL: Day 01582 36561 Evs 29560

**R. J. F.**

**AUDIO VISUAL**

Tel: 01209 612260 Fax: 01209 710777

A.K.G., Audio Innovations, Audio Analysis, Atacama, Audio Mech,  
Audionote, Audioquest, Audio Technica, Beyer, Cable Talk, Denon,  
Foundation, Goldring, Harman Kardon, Impluse, JBL, JPW, Klipsch,  
Micromega, Monitor Audio, Musical Fidelity, NAD, Nakamichi, Onkyo,  
Ortofon, Preception, Project, QED, S.D. Acoustics, SME, Sonic Link,  
Soundstyle, Sugden, Target, TDL, Teac, Triangle, Trichord, Vivanco

*the powerplant*

**BRIGHTON'S LEADING HI-FI SHOP**

Cyrus, Roksan, Micromega, Audionote, Audiolab, Rega,  
Arcam, Exposure, Aura, Epos, Thiel, Ryark, Rotel,  
Marantz and other fine equipment.

66 Upper North Street, Brighton  
Telephone 0273 775978



STOCKIST OF: HEYBROOK, NAD, ROTEL, PHILIPS,  
MARANTZ, QUAD, PINK TRIANGLE, ACOUSTIC  
ENERGY, JPW, CELESTION, MUSICAL FIDELITY,  
TANNOY, TDL, NAKAMICHI, YAMAHA, KEF, SONY,  
AURA, PIONEER, AND MANY MORE...

38 WALNUT ROAD, CHELSTON,  
TORQUAY, DEVON TQ2 6HS  
TELEPHONE: (01803) 606863

Come to us for the largest selection of surround sound systems in  
the South West

### Vitamin - Q Caps

We have a limited supply of metal case, paper/oil  
caps, Sprague, Westcap, Gudeman, J.Fast etc.  
Send for a list

*Kurluff Enterprises*

4331 Maxson Rd., El Monte, CA 91732 USA  
818/444-7079 \* Fax 818/444-6863

## STATION SOUNDS

W O R T H I N G  
FOR A SELECTION OF VALVE AMPLIFIERS  
AND OTHER OLDER QUALITY EQUIPMENT

Valve amplifiers (combos and hi-fi) overhauled at  
sensible rates.  
Audio Note speakers and used  
Audio Innovations amplifiers stocked  
Valve and other equipment always wanted.

Mike Pointer 0903 239980 (including Fax)

DOWN PLATFORM WORTHING STATION SUSSEX

## REVOX SERVICE

A77, B77 PR99

For fully guaranteed professional service and  
repairs, call RamTek.

Tel: (081) 207 6159. Fax: (081) 953 1118  
Suite 33, Kinetic Centre, Theobald Street,  
Borehamwood, Herts WD6 4SE

## SPALDINGS

THE SOUTH EAST'S LEADING HI-FI COMPANY

3 DEM ROOMS A.V.  
HOME DEMS., 0% CREDIT  
FREE INSTALLATION

LINN . NAIM . QUAD . AUDIO LAB  
DENON . MARANTZ . RUARK

MON TO SAT 9.00 TO 6.00, TUE 9.00 TO 8.00

SEVICE DEPT

325-354 Lower Addiscombe Road, Croydon, Surrey CRO 7AF  
Telephone: 0181 654 1231/2040 Facsimile: 0181 655 3922

ENGLISH  
audio

BADA

CYRUS CENTRE  
PINK TRIANGLE-AUDION-SYSTEMDEK-HEYBROOK-  
MICH-KEF-REFERENCE-MICROMEGA-NAKAMICHI-  
CHORD-ARCAM-ROGERS-NAD-ROTEL-DENON-  
TANNOY-MARANTZ-MISSION-STAX-DUAL-TDL-JPW-  
EXPOSURE-YAMAHA-JOHN SHEARNE AND OTHERS

Free installation Credit facilities Service department

Mon - Sat 9.30 - 5.30

37 Whitecross Road, Hereford. HR4 0DE

TO ADVERTISE  
IN THIS SECTION

PLEASE CALL

CAROLINE KNOTT

01245 443555



# KITS HAVE NEVER BEEN SO GOOD!

## 300B VALVE AMPLIFIER



### 300B VALVE AMPLIFIER KIT

**£850**

This is a specialised 28watt amplifier based on the highly linear 300B triode valve. Our 300B runs in Class A, giving one of the most sweet, open and neutral sounds possible today. Matched with good loudspeakers, it is unsurpassed. All parts are included in the kit, except valves since different 300B makes are available.

## KLP1/KLPP1 PREAMPLIFIERS



### KLP1 VALVE LINE PREAMPLIFIER

**£345**

The KLP1 line level preamplifier uses one of the simplest and most elegant circuits to give a sound with remarkable clarity and detail. The components are all high quality and include Military Spec. Russian valves, Alps potentiometer, polypropylene signal capacitors, silver plated copper wire etc.

### KLPP1 VALVE PHONO PREAMPLIFIER

**£495**

KLPP1 has five line inputs, a tape input with monitor, and a unique low noise valve MM/MC phono stage. There is a switchable subsonic filter to prevent output transformers of valve amplifiers saturating. The line stage has gain, so it will drive any power amplifier. Audio grade components are used and many parts are custom made for highest quality.

KLPP1 has a super clear sound, sweet and detailed through line and phono inputs.

## NEW - K6L6 35W INTEGRATED £295

**K6L6 - A high performance 35watt integrated valve amplifier using 6L6 beam tetrode valves. It has four line inputs and a tape output. It is a compact design that will fit into any system, bringing valve transparency, warmth and detail.**



### OVERSEAS DISTRIBUTORS

Selected World Audio Design Products are on demonstration at:

#### Octave Electronics

No. 81, Jalan 1/12,  
46000 Petaling Jaya,  
Selangor Darul Ehsan,  
West Malaysia.  
Tel: (603) 793 7939

#### New Best Co. Ltd.

No.199, Sec. 3,  
Cheng-Teh Road,  
Taipei,  
Taiwan. R.O.C.  
Tel: (886) 2 599 2598

#### SB International Inc.

Zenkyoren Bldg.,  
2-7-9 Hirakawacyo,  
Chiyodaku,  
Tokyo 102, Japan.  
Tel: (81) 3 3264 5321



**World Audio**  
*design*

**Tel: 0171 289 3533**

WARNING

THESE ARE EXPERT KITS, NOT FOR THE INEXPERIENCED. World Radio History

**KLS3 THREE WAY CARBON-FIBRE DRIVER LOUDSPEAKER**

KLS3 uses extremely light and stiff carbon fibre cone drive units for a fast and accurate sound. A dedicated 4inch carbon fibre midrange drive unit provides the cleanest, smoothest and most detailed midrange characterised by superb projection. Its high 90dB sensitivity and near flat 8Ω impedance make it one of the easiest loudspeakers to drive.

Drive Unit & Crossover kit etc £350  
Drive Unit Pack £230

**KLS4 TWO WAY CARBON-FIBRE DRIVER LOUDSPEAKER**

A two way standmounter using stagger-tuned reflex loading for good bass, plus light and fast carbon fibre drivers.

Drive Unit & Crossover kit etc £230  
Drive Unit Pack £120

**KLS6 ADVANCED TECHNOLOGY THREE WAY LOUDSPEAKER**

KLS6 is our most advanced loudspeaker to date. It uses a combination of Audax's HD-3P gold piezo-electric dome tweeter and High Definition Aerogel (HDA) midrange and bass drivers. To provide super bass depth and dynamics, an 8" HDA bass driver is used in a large, efficient reflex enclosure. With 89dB sensitivity, and a smooth impedance curve, KLS6 can be easily driven with amplifiers capable of producing 20watts or more.

Drive Unit Pack £640  
Drive Units & Crossover kit etc. £825

**KLS7 TWO WAY CARBON FIBRE DRIVER FLOORSTANDER**

A compact and affordable two way reflex loudspeaker. KLS7's slim dimensions make it easy to accomodate, but it uses light and fast carbon fibre drivers, so performance isn't compromised. An audiophile bargain.

Drive Unit Pack £110  
Drive Units & Crossover kit etc. £195



**K5881 KIT £395**

A superb, Class A, 20watt stereo power amplifier that uses Russian 5881 output valves, a military version of the American 6L6, designed for low distortion audio work.

Designed for long life, low running costs and excellent sound quality, K5881 can be used with a simple passive pre-amp. or our own line-drive pre-amp, and it matches modern loudspeakers well.

**K5881PSE KIT £650**

An audiophile parallel-single-ended valve amplifier at an affordable price. K5881PSE uses the reliable Russian 5881 output valve in parallel-single-ended mode for outstanding detail and atmosphere. It produces 17watts, enough to drive most loudspeakers, making high-end sound quality and design available to everyone. Can be easily monoblocked to give 32watts.



**HIGH TECH AUDAX DRIVE UNITS**

This range of Audax drive units sees many modern high tech materials and technologies that would normally be unavailable to the home constructor. We offer a small range of the highest quality drivers, including High Definition Aerogel (HDA) units, carbon fibre and three superb soft dome tweeters.

**CAST CHASSIS UNITS**

	3inch mid	4 inch mid	6.5inch bass/mid	8inch bass
HDA	HM100Z0	HM130Z0	HM170Z0	HM210Z0
=CARBON FIBRE		HM130C0	HM170C0	HM210C0

**FABRIC DOME TWEETERS**

- TW025M0 (25mm 92dB suitable for 2-way systems)
- TW025M1 (25mm 92dB suitable for 3-way systems)
- TW034X0 (34mm 93dB a large dome with powerful sound)
- OVAL GOLD DOME TWEETER HD-3P (complete with crossover. Works extremely well with HM100Z0 - ultra flat response from 400Hz to 20kHz.)

World Audio Design Ltd, 17 Maritime Court, Harboro Rd, Sale, Cheshire, M33 9PL, UK. Tel: 0161-969-0460



Tel: 0171 289 3533

WARNING

THESE ARE EXPERT KITS, NOT FOR THE INEXPERIENCED

World Radio History

**DEMONSTRATIONS!!**

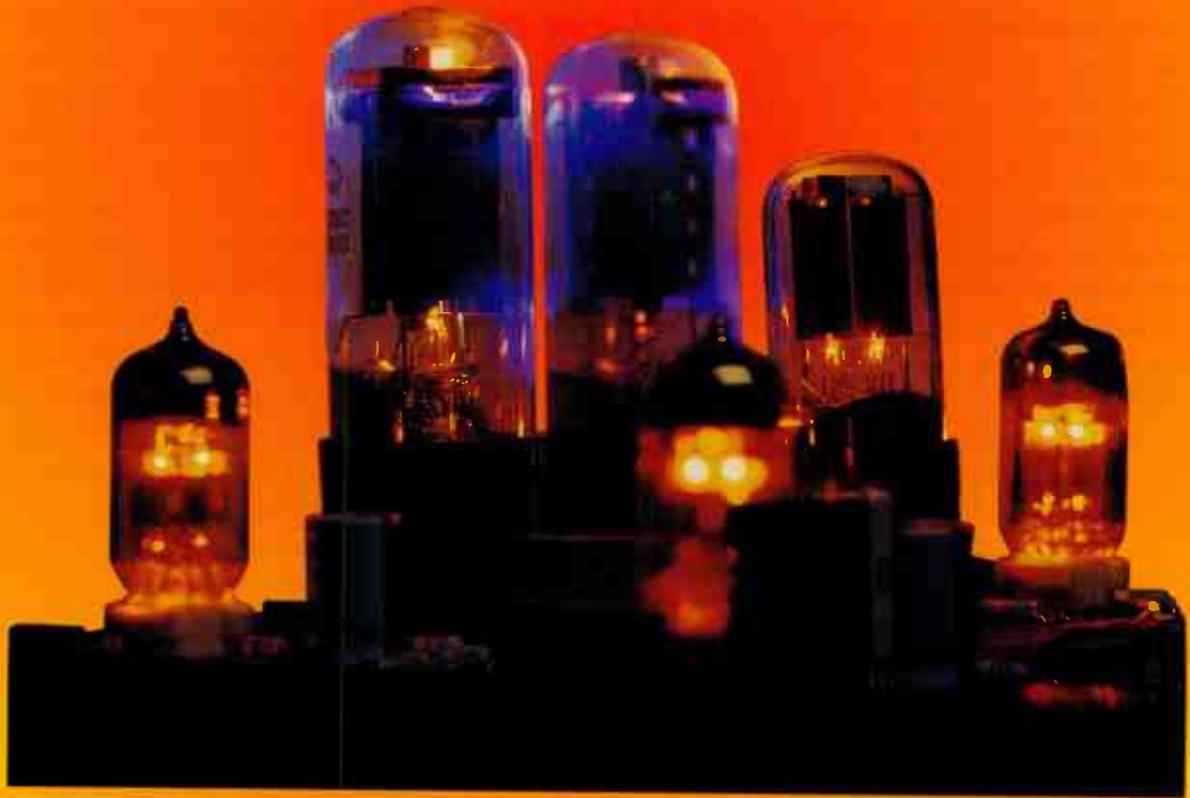
Selected World Audio Design Products are on demonstration at:

**2nd Audio**  
17 Maritime Court,  
Harboro Rd,  
Sale.  
Tel: Andy on  
0161-969-0460

**Horsham Hi-Fi**  
28 Queensway,  
Horsham,  
W. Sussex.  
Tel: Jeff on  
01403-251587

See following page for order form...

# e



*...a warm glow*  
from

**Rogers<sup>®</sup>**  
**BRITISH HIGH-FIDELITY**

The E-Series. Pure class 'A', fully integrated,  
all-valve, hand-made British amplifiers.  
Uninhibited musical power that extends  
beyond conventional electronic and  
acoustical boundaries.  
Guaranteed to send more than a tingle  
down your spine.



ROGERS INTERNATIONAL (UK) LTD. - Tel: 0181 640 2172. Fax: 0181 685 9496. E-mail: [gloots@rogerinter.win-uk.net](mailto:gloots@rogerinter.win-uk.net)



# World favourites guide

## COMPACT DISC PLAYERS

### QUAD 67 second-hand

One of Quad's best products for a long time, the 67 is warmer and smoother than most, yet is highly musical and revealing. Good enough to frighten many rivals.

### DENON DCD-315 £150

Real hi-fi and real music for a mere £150. Achieves a good semblance of orchestral dynamics and acoustic space.

### NAD 510 £200

A competent all rounder with lifelike soundstaging and impressive treble clarity.

### NAD 512 £250

Its smooth sound and fine treble extension make the 512 something of a rarity at the price. For the money rivals are few.

### ARCAM ALPHA ONE £300

An excellent entry-level player from Arcam that's far better than equivalently priced Japanese machinery.

### MARANTZ CD-63 Special Edition £350

A superb budget buy. Addressing the problems of the CD-52II SE, its detailed and musical sound embarrasses many expensive players.

### NAD 514 £350

The 514 conveys deep bass notes with conviction and weight. A supremely relaxing player to listen to with fine build quality.

### MARANTZ CD-63MKII KI-SIGNATURE £500

Similar to the CD-63SE but with more powerful and authoritative bass and an all-round smoother sound.

### TRICHORD GENESIS £549

Conveys music in a powerful and dramatic fashion. Smooth and sweet, with a good sense of depth. Maybe a little soft sounding though.

### DPA RENAISSANCE £895

Words cannot describe its infinite variety, but suffice to say you'll love it or hate it. Highly emotional, involving presentation with not a hint of self-doubt.

### MARANTZ CD-16 £1399

An extremely neutral CD player, smooth and reserved in its performance. Beautifully built too.

### LINN KARIK 3 £1600

Superb one-box player. Its supremely rhythmic, musical sound with delicacy and finesse puts it up with the best of the rest.

### NAIM CDI £1600

This single box 16-bit player sounds very engaging compared to your average bitstreamer. Has that vital tingle factor of the larger, two-box CDS.

### MCINTOSH CDM7009 £2635

A thoroughly inspiring machine. One of the most musical CD players around; sweet, open and detailed.

## COMPACT DISC TRANSPORTS

### TEAC VDRS-T1 £550

Not as substantially built as its chunky looks suggest, the T1 is nevertheless a good entry-level transport with a warm, expansive sound.

### ARCAM DELTA 250 £800

A well-built transport with serious sound quality. It partners the BB50 well, especially when sync-locked.

### AUDIOLAB 8000CDM £1300

Beautifully built and finished, the CDM is packed with sensible features and performs superbly, day-in day-out.

## CD CONVERTORS

### DPA LITTLE BIT III £300

A lot more weight at frequency extremes than the II and far better control. For £300 there's nothing to beat it.

### THORENS TDA2000 £700

Used with the TCD2000 as a transport, the TDA2000 produces a sound that is focused, detailed and spacious. Good value.

### DPA ENLIGHTENMENT £795

Some believe this to be the best convertor around. A truly charismatic performer, it dives into rock music with rare passion.

### PINK TRIANGLE ORDINAL £837

Pure, smooth sound free from hardness. One of the best at any price, losing little to the big guns.

### PINK TRIANGLE DA CAPO £1450+

Offers a choice of filter modules, all up there with the best. The Da Capo is superb in many respects, but can sound a touch polite on rock.

### DPA 1024 £6000

Proof positive that today's CDs needn't sound CD-like! Uses an in-house discrete convertor, and DPA haven't skimped on the build either!

## TURNTABLES

### GARRARD 401 second-hand

In a decent plinth with an arm of SME309 calibre, the 401 has a highly authoritative overall sound with the most solid, expressive bass in the business. Very musical, but treble isn't up to modern standards.

### THORENS TD124 second-hand

One of Thorens' best-ever turntables. Needs a modern plinth to give of its best. Duly installed, it's good enough to face off the Garrard 401, swapping some of its bass power for a more delicate, incisive treble.

### SYSTEMDEK IIX900/RB250 £330

A fine all rounder and easy to upgrade. Brings more depth and breadth than a Rega 3.

### RESON rs1 £600

A lean, yet vibrant sound quality that really draws the listener in. With good detail and rhythmic integrity this is an impressive turntable package.

### MICHELL GYRODEC £800

Stunning looks, build and engineering, and don't underestimate the sound. Standard PSU and Rega arm gives a detailed, architectural, if undynamic sound. With QC PSU and SME V, its scale and insight kills the competition at the price.

### PRO-JECT 6.1SA £999

The Pro-ject places the listener in the best seat in the control room. Outrageous dynamics and a punchy, seriously deep bass. Comes with Sumiko arm and Ortofon MC30 Supreme.

### LINN SONDEK LP12 £840 - £1530

Cirkus bearing puts it back up with the best. Superbly beguiling, rhythmic sound that plays jazz like few others, but lacks the Gyrodec's detail or imaging. With a Lingo PSU and EKOS tonearm, you'll forget CDs were ever invented.

### PINK TRIANGLE ANNIVERSARY £1200

One of the finest-sounding turntables around, the Anniversary takes the listener nearer the recording studio than almost any other deck. Works with Rega, Linn and SME arms alike.

### MICHELL ORBE £1950

The Darth Vader of analogue, the Orbe builds on the strengths of the Gyrodec. An ultra-tuneful, expansive sound.

### SME MODEL 20 £2495

Including the excellent SME V tonearm, the Model 20 is possibly the last great turntable, unless you've got £11,000 for the Model 30, that is.

## TO NEARMS

### REGA RB300 £130

Supremely capable at the price, but not quite humankind's salvation as has been suggested. Detailed, tight, rhythmic sound but tonally rather grey and cold-sounding.

### LINN AKITO £300

A well made entry-level tonearm which works especially well with the LP12, but struggles to match the RB300 on other decks.

### SME 3009SII £375

This Paleolithic device doesn't bother with frequency extremes or detail, but its legendary serviceability makes it a cult in Japan. Oh death, where is thy sting?

### SME309 £570

A down-market version of the IV and V with aluminium armtube and detachable headshell. Tight, neutral sound with good tonality, but lacks the IV's pace and precision.

### SME IV £850

A Series V with lower toleranced bearings, cheaper cables and no damper. Still vastly over-engineered and almost capable of its bigger brother's sonic fireworks. SME's best value product.

### SME V £1235

A masterpiece of precision engineering with a cohesive, ultra-transparent sound. A dream to set up and use.

### LINN EKOS £1400

A thunderous battleship of an arm, with a very impressive sound, masses of detail and dynamics, but lacks the SME V's cohesion and musicality.

## CARTRIDGES

### ORTOFON VMS-2E £10

Warm, full-bodied, punchy and fast. Not to be sniffed at for a tenner. Can be upgraded with a better stylus at a later date.

### GOLDRING 1012GX £60

An accomplished MM with a solid bass, slightly forward midband and clean transients. £20 buys the faster, more dynamic 1022GX.

### GOLDRING 1042 £100

The best moving magnet available. Has an extremely cohesive sound that's warm but highly involving. Deliciously delicate treble and strong, powerful bass.

### ORTOFON MC15 SUPER II £109.95

An excellent budget moving coil with a smooth, polished, detailed sound. Tracks superbly but verges on the analytical at times. A bargain.

### ORTOFON SUPREMES £225-£450

The MC10, MC20 and MC30 Supremes all offer superb sound and value for money, with a distinctively rich, smooth and detailed musical performance. The valve brigade love them.

### LINN KLYDE £450

The Klyde's soft treble and prodigious bass mean it's tonally unbalanced, but it's still a real music-maker that many will love in the right system.

### ORTOFON MC2000 £650

We came across this one in an SME IV on a Garrard 401; it duly gave one of the best results we've ever heard.

### ORTOFON ROHMANN £1000

In a way it's MC2000 meets MC7500 with all the tonal strengths and dynamo sound Ortofon has been putting into its best moving-coil cartridges of late.

### LYRA LYDIAN £649

A truly musical, sophisticated device that makes most other MCs sound frigid.

### VAN DEN HUL MC-10 £840

Fluid bass, finely etched treble and highly tuneful in between. The MC10 is honey, pure and simple.

### ORTOFON MC7500 £2000

Conclusive proof that there's hope for humankind. Makes music of enormous scale and vibrancy. CD lovers would die if they heard it.

## INTEGRATED AMPLIFIERS

### NAD 3020 second-hand

Classic sweet sounding, punchy budget super-amp with strong phono stage. Able to embarrass many modern budget amps.

### NAD 310 £130

A real hi-fi amplifier at a bargain price. Forms the heart of a separates system that will murder any midi system at twenty paces. No phono stage, but you can't have everything at this price.

### NAD 312 £200

Smooth, clear and dry. Fine detailing with little to complain about at the price. Good facilities.

### ARCAM ALPHA 5 £230

A well-engineered budget amplifier with a bold, exciting presentation. Plenty of power and facilities, but lacks subtlety.

### DENON PMA 450II SE £270

A solid, refined sound with plenty of power make this a good all rounder, but hard and steely with the wrong ancillaries. Mediocre phono stage.

### AURA VA-80 £280

The VA-80 is superb for the price with a confident, powerful sound. One of the smoothest around, it is capable of embarrassing more upmarket competition.

### ORELLE SA-100 £449

Clean, open, active sound. Smooth and detailed with good punch too. One of the best at the price.

### AUDIOLAB 8000A £500

A jack-of-all-trades whose facilities, build, power and top-rate phono input make it a steal. Sound is good, but less involving than the Naim Nait 3.

### NAIM NAIT 3 £500

A taste of high-end audio. The most involving, musical design at the price, but low power. Superb phono stage is £100 extra.

### MISSION CYRUS 3 £500

Superb engineering, a solid cast chassis and a clear, spacious sound. Phono stage could be better.

### SONNETEER CAMPION £579

An amplifier that delivers near studio definition along with exemplary timing. Utterly gripping.

### DPA RENAISSANCE £595

Rich and smooth, the Renaissance is one of the sweetest amps around, if lightweight.

### AUDION STERLING ETSE £600

Economically but well built single-ended valve amplifier. Wonderful clarity with vocals. £600 with 1 line input, £800 with 5.

### SUGDEN A21a £640

Class A transistor amp. Rich, crisp, deep, tight sound and it images well too. Wonderful.

### AUDIOLAB 8000S £650

Fast, clear, crisp sound with a wide-open sound stage. One of the best at the price.

### MERIDIAN 551 £795

Beautifully-built integrated with a sweeter, clearer sound than mid-price alternatives. Plenty of facilities and remote controllable.

### UNISON SIMPLY 2 £995

This single-ended valve amplifier is smooth, sweet and open. An extremely musical amplifier.

### UNISON SIMPLY 4 £1495

Sonically similar to the Simply 2, but with more power and control.

### AUDIONOTE OTO SE £1500

Ten watts of the sweetest sound around. Use sensitive speakers though, because it's unlikely to crack windows or trigger earthquakes.

### McINTOSH MA6800 £3735

The MA6800 not so much plays music as takes control of it, with effortless bass drive and a three-dimensional sound stage.

## PRE-AMPLIFIERS

### NAIM NAC32.5 second-hand

Naim's one-time top preamp is still a force to be reckoned with thanks to its precise, fast sound and excellent phono stage.

### ROTEL RQ-970BX £130

Superb value entry-level phono stage with audiophile quality components and clear sound.

### DPA DSP200S £495

Not quite the 50S, but there's little to match it at this price if outright sound quality is your priority.

### ROSE RV23-S £495

This interesting valve/transistor hybrid has a smooth, rich, spacious sound.

### AUDIOLAB 8000C £520

Versatile with superb phono input. Can sound sterile, but latest version is much improved.

### MICHELL ISO/HERA £530

This phono stage has fine midband and treble detail, with taut bass. The £850 ISO/HR brings more of everything, and for many people is the last word on the subject.

### AUDIO INNOVATIONS P2 £749

Fantastic bass and super insight make this one of the best phono stages around. One for vinyl lovers.

### AUDIOLAB 8000Q £995

Excellent line-level only preamp, greatly improves on 8000C with a more fluid, musical sound and greater grip. Remote control.

### NAIM NAC82 £1945

This remote control preamp thrusts detail forth in true Naim fashion.

## POWER AMPLIFIERS

### QUAD II second-hand

Classic valve monoblock with many thousands still in use around the world. Archetypal warm, smooth valve sound, although not the last word in detail or dynamics.

### LEAK STEREO 20 second-hand

The Stereo 20 can sound impressively up-to-date, although power and detail are ultimately limited.

### QUAD 405II second-hand

Solidly built, but lifeless sounding, power amp which can be substantially improved by a Quad factory service.

### MISSION CYRUS POWER £450

This power amplifier is a honey. Rich and smooth, but with a firm grip; a fine blend of properties.

### ROSE RP190 £495

Used with the partnering preamp it gives 70watts of smooth, relaxing sound.

### SUGDEN AU41P £530

Extremely competitive at the price with 100W of unusually smooth, full-bodied sound.

### SHEARNE PHASE 3 £619

A neutral, highly dynamic and thoroughly exciting amplifier. A sonic bargain.

# World favourites guide

## QUAD 606II £675

Quad's latest 140W powerhouse is smooth and civilised, but engagingly musical. Legendary back-up service.

## DPA DPA200S £750

Better than anything else at the price. Not as dry as the 50S.

## NAIM NAP180 £900

Partnered with a NAC82, this has classic Naim control, making for a superbly rhythmic presentation. A touch lean for some tastes.

## MICHELL ALECTO STEREO £1300

A refined transistor amplifier with valve-like transparency and a full, warm, easy-going sound. The £1800 Alecto monoblocks have rare lucidity and three dimensional realism.

## AUDIOLAB 8000M £1500

Beautifully built, powerful amps that will drive anything you care to throw at them. Detailed, analytical sound, but a touch grey compared to valve rivals.

## CHORD SPM 1200 £2995

This is one of the best solid-state power amps around, with a massively powerful, dynamic and detailed sound.

## TUNERS

### LEAK TROUHLINE second-hand

Our favourite way of listening to the wireless. A deliciously smooth, mellifluous sound that will have you junking your transistor radio in seconds. Ergonomics are crude, and you'll need a decent aerial and stereo decoder.

### NAD 412 £190

The 412 is remarkably musical and natural sounding. Rich sound and full bass are a rarity. Unbeatable at the price

### KENWOOD KT-6050L £300

Very, very tuneful and as clear and detailed as CD. Tuners like this have you sitting in your seat wondering at the sheer wealth of music out there.

### MISSION CYRUS FM7 £300

Clear and lucid sound that puts it up with the best regardless of price. Superb build and superior ergonomics to the NAD.

### ROTEL RT990BX £500

High quality Michi-based tuner with a sophisticated, forward sound with great imaging and soundstage. Sensible facilities and remote control.

### NAIM NAT03 £500

The NAT03 is further proof of Naim's proficiency with tuners, with a warm, easy sound and a good sense of atmosphere.

### FANFARE FT-1 £1350

In its native US the FT1 is no mere tuner but a 'broadcast monitor' no less, a task at which it acquires itself well, with a clear and powerful sound.

### NAIM NAT01 £1380

The best solid-state tuner available. For better radio, live in the studio.

## CASSETTE DECKS

### AIWA AD-S750 £150

Sonically a very decent machine. For the price there's nothing better. With Dolby B, C and S

### AIWA AD-F850 £230

A real bargain with fine recording quality and good playback.

### PHILIPS DCC 730 £250

Digital playback gives a good 'analogue' presentation and analogue playback is reasonable too. A DCC bargain.

### AIWA AD-S950 £300

A stable transport, superb head and Dolby S make this an excellent recorder.

### PIONEER CT-S740S £430

A great piece of engineering from Pioneer, a bit complex, but a first rate sound on playback and recording. Dolby S included.

### NAKAMICHI DR2 £600

Where serious cassette decks start. The DR2 pushes recordings to the limit, remaining unflustered at all times.

### NAKAMICHI DR1 £850

Better still than the DR2, with manual head azimuth adjustment to boot.

### NAKAMICHI CR7 £1500

Kills every other cassette deck and stamps on their graves.

## LOUDSPEAKERS

### MISSION 730iSE second-hand

Big clear sound and tuneful bass with plenty of punch. An audiophile bargain at a budget price.

### KEF CODA 7 £129

Arguably the new king of budget standmounters, the 7 has a highly musical presentation.

### MISSION 731 LE £149

An extensive reworking of Mission's entry level 'speaker, much tighter on transients and more refined treble. Neutral and revealing.

### TANNOY 631 SE £170

Great bass extension, super open and focused midrange and fine detail up-top. Work best on filled dedicated stands; unmatched at the price.

### B&W DM601 £200

Tight, solid and tuneful bass with a clean and pure tonal quality. Midrange is a little laid back, but sound stage is wide and open.

### ROGERS LS33 £249

Big sound and a wonderful impressionist. Combine with matching AB33 subwoofers for extra bass depth.

### TDL RTL 2 £300

Bass on a budget from one of TDL's best floorstanders. Solid, vibrant and spacious sound.

### SYSTEMDEK SYSTM 931 £300

One of the best mini-monitors around, with a coherent, involving sound that really sings.

### REL Q-BASS £350

Few subwoofers match the Q-Bass at the price. The tuning controls can be a bit of a fiddle, but once set up the rest is pleasure.

### EPOS ES11 £445

Extremely refined, well engineered standmounters that need distinguished partnering equipment if they are not to sound over-polite.

### REL STRATA £500

The Strata is not a toy. Offers superb, true hi-fi bass depth and power.

### MISSION 752 £500

More capable than many twice the price. Using advanced High Definition Aerogel drivers, the 752s are clear, crisp and focused. Good sensitivity makes them easy to drive.

### TANNOY D100 £650

This small dual-concentric loudspeaker produces believable three dimensional imaging.

### CASTLE CHESTER £700

Good sound allied to Castle's exquisite cabinetry and finish. Quarter-wave bass loading.

### PROAC STUDIO 100 £700

Excellent monitors with detailed, natural sound and plenty of atmosphere.

### HARBETH HL-P3ES £799

A fine example of good loudspeaker engineering. The top of the mini-monitor league.

### UKD CALLAS £850

High quality sound with a high quality bass from this solid walnut miniature.

### KEF REFERENCE SERIES ONE £995

The KEF's combine pin-point imagery and detail with a smooth and polite balance. Good, agile bass too.

### HEYBROOK SEXTET II £1129

Heybrook have retained the strengths of the original Sextet, whilst improving on bass extension and smoothness. Treble and imaging still up with the very best.

### HARBETH HL COMPACT 7 £1329

Dry and analytical, but truthful and uncoloured with it. A cohesive sound from this top class monitor.

### KEF REFERENCE SERIES TWO £1500

A truly endearing 'speaker, with clarity, cohesion, detail and precise imaging. Bass has superb extension.

### EPOS ES25 £1505

Epos' best. Combines near-uncoloured tonality with characteristic fireworks in the rhythm department. Superb by any other name.

### SPENDOR SP7/I £1970

This big Spendor is very appealing thanks to its lucid sound and valve-friendly load.

### QUAD ESL-63 £2860

A reference against all other loudspeakers, with superb imaging qualities and genuine transparency. Earlier ESL model is an excellent second-hand buy, and both enjoy that legendary Quad service back-up.

### JBL S2600 £3500

Smooth, detailed and spacious with great dynamics and fine imaging. Capable of producing a superb performance when used in a big room.

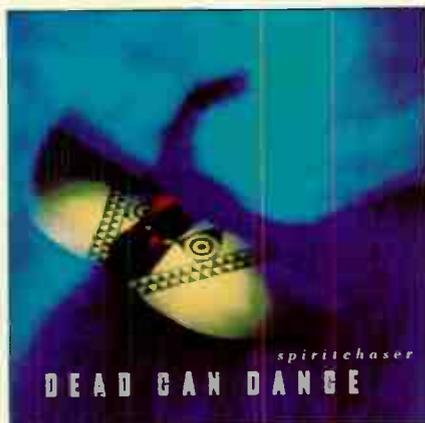
### TANNOY WESTMINSTER ROYAL £10,000

An incredibly dynamic, detailed full-range horn design with a rich sound. Its high sensitivity predisposes it to valve amplification.

# MUSIC REVIEWS index

rock & pop.....	81
Giovanni Dadomo Jon Clarke	
dance & ambient.....	84
Viv Craske	
jazz.....	87
Simon Hopkins Simon Cooke	
classical.....	93
Peter Herring	

## Giovanni Dadomo



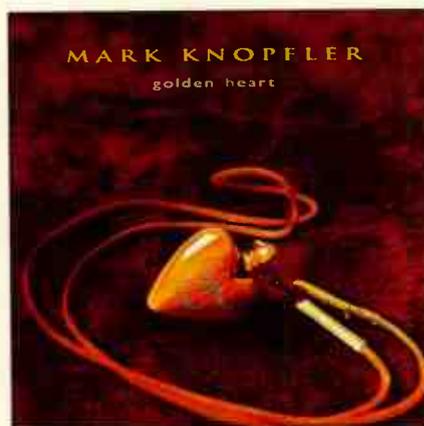
DEAD CAN DANCE  
**SPIRITCHASER**  
4AD CAD 600S CD

Hard to believe but Australian-born duo Dead Can Dance here deliver their seventh studio disc - and it's as inspired and enchanting as anything in their catalogue. Singers/multi-instrumentalists Lisa Gerrard and Brendan Perry have dwelled on this septic isle since 1981, since when they've produced a body of work that is truly international. On this latest recording they continue to draw their inspirations from anywhere and everywhere - Africa, The West Indies, the Middle East. . . it is, in short, a veritable atlas of sounds and instruments.

Lisa Gerrard sounds - to these ears anyway - like someone grounded in the

traditional English Folk style of early Fairport Convention or anytime June Tabor, but onto that she can saddle anything from the sound of a Muezzin calling the faithful to prayer to a Bollywood playback singer and almost anything outside or in between. This is world music without being worldly, a constantly intriguing mixture of the ethnic and the modern, a place where the Arabic drones and South African township tribal chants are deftly interwoven, where swaths of rhythm and swatches of colour harmonise with a breath-taking ease and beauty.

Listening to Dead Can Dance can take you anywhere in time or space, from the roots of early Velvet Underground, George Harrison and the Byrds' forays into what was once dubbed Ragga Rock to the entrancing percussion of Haitian Voodoo and the hypnotic and magical sounds of the American Indians. And that's just for starters - there are Egyptian('Song Of The Nile'), South American and Celtic influences - every fresh listening unearths new archaeologies of sound and inspiration. And if this may make 'Spiritchaser' sound pretentious, it's anything but. Instead, it is immediately accessible, yet every listening reveals new magic. The word, I think, is awesome, rightly awesome.



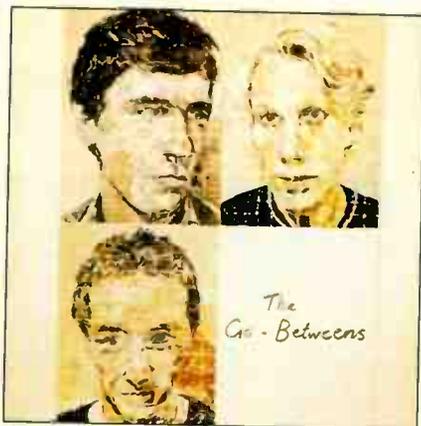
MARK KNOPFLER  
**GOLDEN HEART**  
VERTIGO 514 732-2

Well, if it isn't that geezer from Dire Straits with the bandage on his head. I've never been a big Straits fan myself, but only a churl could deny that Knopfler is a fully paid-up member of Guitar God Heaven, as inspired and unique at his best as Clapton, Garcia or any other of the three wise Kings - B.B., Freddy and Albert, that is. I don't know if the Straits are history or not and frankly my dear - yup - I do not give the proverbial damn.

For all that 'Golden Heart' did, for the most part, win even this thick-shelled cynic over. The swaying rhythms of the suitably cheeky 'Imelda Please' (a tribute to shoe fetish queen Mrs Marcos) and the ball-of-barbed-wire guitarings of 'No

Can Do' pleased me as much as they'll no doubt please the crowds. But by a third of the way through Knopfler and my ears started to fall out a bit. But then that's the trouble with such distinctive stylists - J.J. Cale worst of all perhaps - it's all too easy for the style to make up for lack of content.

After all, I'd already heard the inevitable 'Brothers In Arms' re-write in the likeable but over-familiar 'Darling Pretty' and - sure enough - it wouldn't be long before Master Knopfler re-hashed the one about MTV, not to mention 'Twisting By The Pool'. I'll forgive him for sounding like a poor man's Bob Dylan because Bob Dylan's been doing the same for years, but I do get the hump when I'm force-fed something I've heard a zillion times already. This said, fans probably will lap up every single sibilant note, and Knopfler redeems himself with songs like 'Rudiger', as subtle a portrait of sad-eyed loneliness as has come along in yonks.



**THE GO-BETWEENS**  
**THE ALBUM COLLECTION**  
 BEGGARS BANQUET BB  
 2001/2/3/4/5/6 CD

I haven't the space to list every LP title or go into my usual massive scholarly details, but the Go-Betweens were undoubtedly the Australian band of the Eighties. Cored by writers Robert Forster (vocals/guitar) and singing bassist Grant McLennan, they began life with the somewhat rough and ready 'Send Me A Lullabye' in 1983, where their major roots - Television, Dylan, The Velvets etc., were inevitably somewhat obvious.

Nonetheless they quickly developed a strong and distinctly unmistakable personality of their own over six albums and seven years. My personal favourite remains the penultimate 'Tallulah', a joyful mix of poignant voices, dizzyingly inspired guitar and clever rhythms. If you missed them the first time, they sound just as good now. As much a Great Lost Band as The Flamin' Groovies, no problemo.

**RECORD OF THE MONTH**



**THE WISPLANTS**  
**DADDY LONGLEGS**  
 CHINA WOLDCD 1070

A month or so past my estimable Editor (fawn, grovel, fawn!) sent me an EP called Wittchety Grubs. Now as everyone except Stevie Wonder and Ray Charles probably knows, Hi-Fi World doesn't cover EPs, but it was, nonetheless, a charming and amusing excursion. Now, with the release of the new Wishplants long-player, I've finally clicked - Wittchety Grubs and the Wishplants are one and the same.

I'd heard the name but not the music and - on this evidence - it was my loss. The quartet - vocalist Saul Denton, bassist Paul Simpson, the multi-talented (guitar, piano, vocals, keyboards) Ed Gilmour and drummer Mick Fitzgerald - produce a dazzling concoction of sounds some rock hack or other will doubtless dub Retro Psychedelia. And so it be's - imagine if you will a mish-mosh of Lennon circa 'Across The Universe', Syd Barrett, late terminally deranged Small Faces and others of that ilk and era.

According to the entertainingly wordy press release (one song is built, we're told on a "Zeppelinesque space folk groove" and why not?) this is a concept album. This would seem rather immaterial. What isn't is the music, with its turbulent maelstroms of sound, backwards guitars, skewwiff strings, frequently ominous vocalising and all manner of lyrical and sonic craziness.

You could of course say it's all

been done before, not to mention again (pace Todd Rundren, doubtless another Wishplants eminence grise) but so what? The point is that this time around it works, and whether you're familiar with the prototypes or not isn't really important. The spooky 'Bigger Than God' is an obvious yet massively well crafted homage to the dear departed Moptop, while Syd and the early Floyd's ghosts

clank cheerily through the muscularly discombobulated 'Everyone Avoids Unmannerly Valerie' - Morrissey eat your heart out for that title!

The words recall Lennon and Bonzo Dog Viv Stanshall at their most Lewis Carroll deranged, while the mock operatics of another song bears out my Rudgren theory, carrying as it does a rhino-heavy hint of the latter's rendering of Gilbert and Sullivan's 'The Lord Chancellor's Nightmare', pausing only to cock a snook at Queen at their most ludicrous on the way.

It's not all lysergic - 'Kika and Frank', with its falling down drunk keyboards and sixty-Gauloises-a-day vocals could easily be Tom Waits' second cousin twice removed, while the closing thirteen minutes-plus 'Treading Water' is, well, simply haunting.

The Wishplants' George Martin in this gloriously wacky escapade is Mark Wallis, a man whose previous credits range as far and wide as Talking Heads, The Smiths, the La's and Marianne Faithfull, to name a few. The results are a minestrone of sounds without being messy or cloggy, which is no mean feat considering the sheer diversity of the arrangements, instrumentation and effects. And they had the good taste to shoot most of the sleeve art at Portmerion, complete with black jackets with white piping a la Patrick McGoohan in 'The Prisoner'. Absolutely lovably insane, 'Daddy Longlegs' may well be the sound of the next Oasis album writ large. Why wait?

## Jon Clarke



NEARLY GOD  
**NEARLY GOD**  
ISLAND DPCD 1001/524 245-2

While it didn't seem possible, last year's musical genius Tricky has gone from strange to stranger. As rockers Oasis come ever closer to self-destruction and Blur disappear more and more up their own crevasses, Tricky's mind seems to be delving further inwards for new inspiration.

With *Nearly God*, the ex-Massive Attacker has put together a series of highly experimental songs, which at times come as close to the logical destruction of music as German industrial loons Einsturzende Neubauten. Recorded in only three weeks, the 10 tracks are - while original - distinctly odder, more sinister and perverse than the tracks off last year's excellent *Maxinquaye* album.

Not a "proper" Tricky album, the singer states. This is merely a time out between his debut and a second album, due for release later in the year. In the meantime, the lairy Bristol rapper has gathered the most uneven group of A-list vocalists to duet with him. Fortunately this includes his partner/ex-girlfriend/mother of his child, Martina, who just about snuffs the rest of them out.

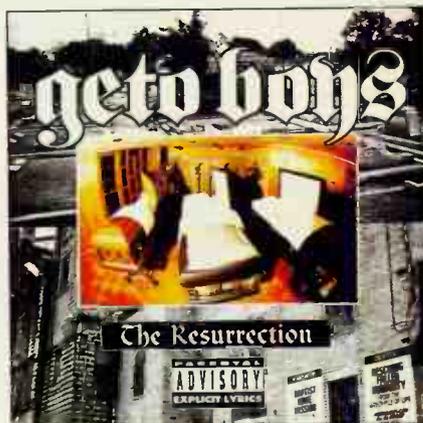
Terry Hall, Alison Moyet, Neneh Cherry and Bjork all make appearances on *Nearly God*. The best are with the highly-strung Icelandic crooner and ex-Special Terry Hall, whose contributions with 'Poems' and 'Bubbles' are both gritty, moody and interesting.

The album starts without a bang - and strangely - with an old Siouxsie and the Banshees track, 'Tattoo'. But things improve considerably, notably where the brilliant Martina appears in 'Poems'.

'Make a Change', a duet with a powerful Alison Moyet, is apparently a

promise to loved ones to "make a change for Masey," Tricky's recently-born baby. Somehow it doesn't quite work. 'I Sing For You', a collaboration with Stereo MC's Cath Coffey - an eerie, and particularly special fusion of soul and experimentation - is better. As is final track 'Yoga', with Bjork, highly reminiscent of the psychotic ramblings of an early Fall number.

It is unlikely Tricky will produce anything quite so strange again, and on the whole this is lucky. But if *Nearly God* shows nothing else, it shows a man not prepared to rest on his laurels. Buy and file. But look forward to the "proper" album out later in the year.



GETO BOYS  
**THE RESURRECTION**  
VIRGIN CDVUS 103

The world's baddest rappers - famous for dwarf singer Bushwick Bill - return with an unavoidably tasty new offering. *The Resurrection*, the band's seventh album, comes hot on the heels of two solo efforts - Bushwick Bill's decidedly dodgy 'Phantom of the Rapra' and Scarface's hard-hitting and moving 'The Diary', which both did well commercially.

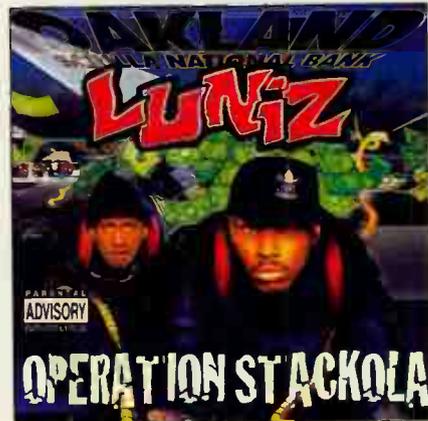
But the original gangster rappers, from Houston, Texas, obviously realise they are at their strongest hanging together. *The Resurrection* is testament to that. Kicking off with the firing 'Ghetto Prisoner', the album's 15 tracks roll past with a real swagger. The debut track - a scathing attack on death row's unfair balance of black inmates - is as lairy as it is catchy. A real dancefloor filler of classic production quality.

Sleeve pictures of a church, a graveyard and the band tucked up in coffins ready for burial, are fitting for an album almost entirely obsessed with murder, drugs and crime. It's probably best summed up by 'I Just Wanna Die', sung by Bushwick Bill, who notoriously shot his eye out after an argument with his girlfriend (a picture of the injury was featured on the front cover of their

debut album, *We Can't Be Stopped*). This is not a cheerful album.

But while there are few laughs on *The Resurrection*, it is a realistic and thought-provoking album. The 'World is a Ghetto', for example - a single which features on the soundtrack for the forthcoming movie *Original Gangsta's* - talks about the depressing spiral of poverty many black people are permanently caught in.

The rest of the album flows past smoothly with a good range of rhymes and rhythms. Basically a mix of old school style chants and more modern sampled tracks, *The Resurrection* is a step forward for the Geto Boys.



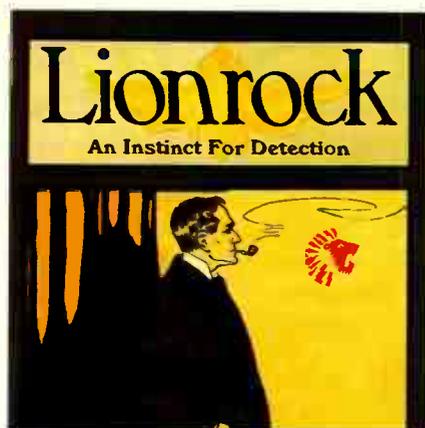
LUNIZ  
**OPERATION STACKOLA**  
VIRGIN CDVUS 94

One swallow never made a summer, and on the strength of the debut album by Luniz, we're still scouring the skies for a track even half as good as the band's current single 'I Got 5 On It'. The wacky track - that recently soared high in the charts worldwide - should have lit the touchpaper for a grand entrance on the rap scene. But unfortunately, one listen of album *Operation Stackola*, is enough to proclaim Luniz childish "one hit wonders".

'I Got 5 On It', a tribute to the wicked weed, deserved its unexpected number 3 slot in the national pop charts last month, for its irritably catchy chorus, groove and beats. As well as going Gold in the US, it even sold half a million copies in Germany alone. But while it will be heard through the summer, the rest of Luniz' debut album will, I fear, disappear without trace.

*Operation Stackola* starts on a good note, with the mellow 'Put The Lead On Ya', followed by the single in question. But that's about it, unfortunately. The album drifts on, more or less directionless, rabbiting on about various forms of drug use. Basically these youngsters have got a lot more to learn.

Viv Craske



LIONROCK  
**AN INSTINCT FOR  
 DETECTION**  
 DECONSTRUCTION 7432134282

At last! Lionrock aka Justin Robertson has finally recorded the album he's been promising for so long.

After launching his Spice club in 1990, a stomping ground of The Chemical Brothers, and re-mixing some of Tom Chemical's early tracks, he's finally decided to join them and the rest of the Brit Hop crowd. But whatever the names - Brit Hop, Amyl House - it doesn't adequately describe the feel of 'An Instinct For Detection'.

Mixing house and hip hop beats with drum rolls and inventive breakdowns, this CD nudges the frontiers of dance forward in much the same way as Leftfield's 1995 ground-breaking album Leftism. Since then a lot has changed, with Tricky, The Chemical Brothers, Portishead and Goldie all doing their bit to destroy musical barriers.

But Justin Robertson more than makes up for the time delay, cutting up lyrics and samples and nailing them to hard house rhythms. His musical progression is evident on 'Peace Repackaged', a drastic re-working of 1992's pop hit 'Packet Of Peace'. From chart favourite to bouncy hard house, the track sounds urban and tribal, the industrial beat writhing as samples stab at the vocals.

'The Guide' begins like a down-pitched acid house tune before it is underpinned by a dub bassline and saxophone samples to create a sultry vibe.

There are huge tunes and huge drum tracks, thought-provoking raps courtesy of MC Buzz B and a handful of Sherlock Holmes samples. Given the Lionrock treatment, the raw materials have been turned into a very respectable first album. Somehow Justin makes it all seem elementary.

# dance & ambient



THE BIG CHILL  
**EYELID MOVIES**  
 GLOBAL HEADZ HEADZCDOO1

Lie back, close your eyes and let Eyelid Movies' summer breeze drift over you. Wafting drum 'n' bass snares you with hi-hattery and gentle melodies at the start of this stroll through electronic easy listening.

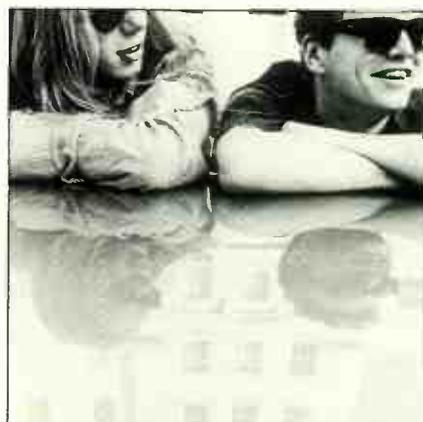
Put together by Pete Lawrence, North London's regular Big Chill DJ, this is the take home version of the Sunday chill-out sessions. The policy is simple and since its inception two years ago has been much imitated. Take an eclectic mix of cutting edge blissful music, add people and a sprinkle of Sunday rest and relaxation. The vibe has since spread by word of mouth to create one of the friendliest atmospheres around.

From electronica and dub, to ambient and trip hop, even film music and classical is melted down and stirred in to create a single track CD of hazy summer dreams. Highlights (if I have to choose) come from the likes of T Power, Cool Breeze and Astralasia, each track adding new moods and feelings, like a more

subtle 'Café Del Mar'.

Unlike many ambient compilations, 'Eyelid Movies' draws you in on its first play, each listen building on the last until the album becomes almost greater than the sum of its parts. The perfect antidote to a full-on weekend.

Simply let the melodies weave intimate soundscapes while you shut your eyes and watch the 'Eyelid Movies'. The sound of summer.



LIVE AT THE SOCIAL VOL. I  
**VARIOUS**  
 HEAVENLY HVNLP13NCP

Get a bag of floor-fillers and chart-skirting tracks, whack on a big name mixer and hey presto - another club experience in your own home. Formularised club compilations fronted by resident DJs are becoming a little tedious on the whole.

But this one's different. Not only do The Chemical Brothers do the honours, but they kick up a storm in the process, re-creating a big night out that many big-selling club compilations fail to do. But even then if you've been to a Heavenly Social in

the last two years, you'll know they're hardly run-of-the-mill. With The Chemicals dropping The Beatles and The Manic Street Preachers into the mix alongside Red Snapper, Lionrock and Eric B & Rakim, the emphasis is on rocking the floor, rather than playing safe and mixing invisibly.

The Chemicals blend genres with ease but without pretension, collecting fat beats with elements of trip hop, electro, funk and disco. They then ignite the blue touch paper, building the tracks up before stripping them down.

DJ Who's 'PB4UG02BED' adds acidic 303s into the equation lifting the music, while the Charlatans' anthemic 'Nine Acre Dust' is slotted into funk D'Void's tribal funk of 'Jack Me Off'.

This anything-goes, cut-and-paste approach certainly hits the spot, the tracks like scaffolding supporting The Chemical Brothers' musical architecture. No formulas, no tedium just a seriously funky, heads-down party mix.



THE BELOVED  
X  
EAST WEST 0630-13316-2

Providing further proof that dance music is finding a respectable niche in the mainstream culture is the latest release from The Beloved. Fusing the best elements of pop with dance rhythms, chord progressions and melodies, they have joined the likes of Everything But The Girl as the acceptable face of dance.

Simple but stylish, the ten tracks on X range from yearning ballads to honest

expressions of emotion to uplifting house. The confessional nature of John Marsh's vocal draws you deep into tracks like the ultra-emotional 'Deliver Me' and the yearning passion of 'For Your Love'.

Die hard dance purists may be forgiven for turning their noses up at this CD at first, but given a chance X blows up in places into epic proportions. Up-tempo house tracks like 'Ease The Pressure' deliver the happy house vibe, but with intelligently raw vocals X dips its toes in the club atmosphere to produce engaging and sensuous examples of what 90s pop should be.

But where the CD shows real depth and maturity is on the slower tracks. 'A Dream Within A Dream' layers orchestral moods that gently envelop the vocals, to calm those post-club jangled nerves.

X combines the pure spirit of top 40 hits 'Hello' and 'Sweet Harmony' with the grown-up voice of experimentation and experience. Okay, X is not particularly cerebral or as intricately constructed as say Portishead, but the feeling will stir you just the same ●

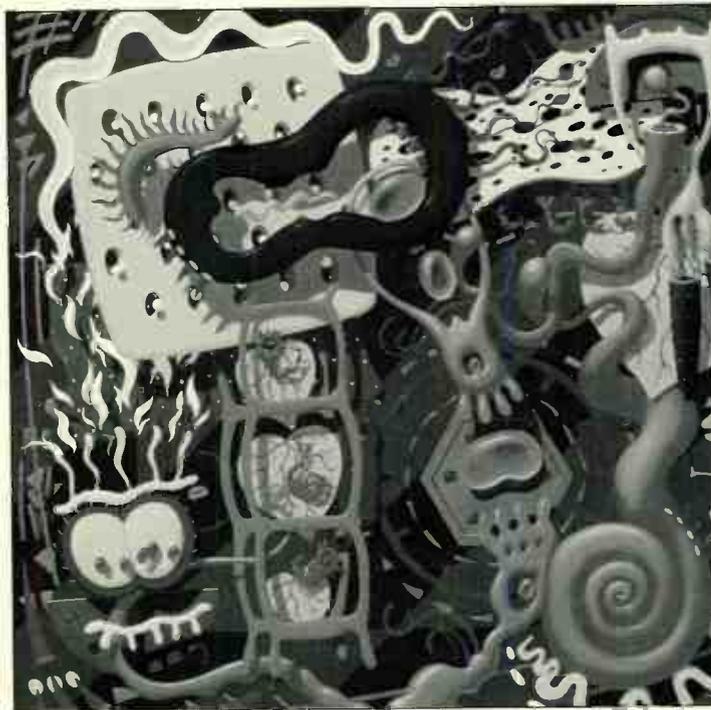
## RECORD OF THE MONTH

### ORBITAL IN SIDES INTERNAL TRUCDIO

The now iconic Orbital have dusted down the machines once again to create this, their fourth album release. Whereas the tracks on 1994's *Snivilisation* were somewhat observational and distinct from each other, *In Sides* has more of the Hartnoll brothers' personal touch.

*Snivilisation* opened a quizzical window on the world and *In Sides* is the reaction, looking inwards for its inspiration. Consisting of six tracks, the CD clocks in at over 70 minutes, allowing the tracks to grow and mutate their melodies.

'The Girl With The Sun In Her Head' oozes sadness-tinged beauty.



'P.E.T.R.O.L.' and 'Adrian's' pick up the pace while still retaining an atmosphere of uncertainty between firmly-rooted beats. Once again, eerie vocals weave in and out of the tracks, 'Adrian's' delivering simple

melodic motifs on a par with Orbital's 'Chime' and Orbital II's 'Halcyon'. Chart hit 'The Box' meanders like a lost soul, exposing one of Orbital's most emotionally-charged tracks to date.

Where 'Snivilisation' left a few fans cold, 'In Sides' will lead them back to the fold with its proudly displayed maturity and confidence. Years on Orbital still maintain their position as the best ambient techno outfit around, creating cinematic soundscapes rather than detached melodies and beats.

Like many albums of long-lasting quality, the effect is not immediate but stirs the listeners more and more with each play. The hope and melancholy slowly makes sense of the classical refrains and rounded beats. Timeless beauty ●

# Give your outboard converter the digital source it deserves

Our no nonsense modifications will transform an average integrated C.D. Player into a top-notch C.D. Transport. We operate a professional, well-organised factory service and guarantee all our work. For a copy of our Company profile together with prices and details on our unique, affordable upgrades send an S.A.E. to:

**AUDIO SYNERGY LTD.,**  
Valley works, Station Lane, Heckmondwike, West Yorkshire, WF16 0NF.

# SYSTEM LOUDSPEAKERS

## MUSICMAKING BY SYSTEMDEK

SYSTEMDEK LTD 34 KYLE ROAD IRVINE SCOTLAND KA12 8LD TEL:(01294) 271251 FAX:(01294) 277095

### SPECIAL OFFER FROM LINN RECORDS!

LINN RECORDS

LINN RECORDS

CAROL KIDD  
STEPHANE GRAPPELLI  
MARTIN TAYLOR  
DAVID NEWTON

# linn Jazz 1995

CLAIRE MARTIN  
TOMMY SMITH  
RAY GELATO GIANTS

For a taste of the Linn Records Jazz catalogue why not try

**LINN JAZZ 1995**

CD SAMPLER : PRICE ONLY £4.99

CALL US NOW FOR A FREE CATALOGUE OF ALL LINN RECORDINGS

tel: 0141 303 5029 or fax: 0141 644 4262

Linn Records, Floors Road, Waterfoot, Eaglesham, Glasgow G76 0EP

### TOP QUALITY VINYL SPECIAL OFFER!

The following top quality titles are available to HiFi World customers at the special price of ONLY £7 including postage and packing

#### Classical

- |         |                              |                                 |
|---------|------------------------------|---------------------------------|
| CKH 007 | NEW LONDON CONSORT           | Columbus                        |
| CKH 011 | NEW LONDON CONSORT           | Elizabethan & Jacobean          |
| CKH 010 | PALLADIAN ENSEMBLE           | An Excess of Pleasure           |
| CKH 013 | NIGEL NORTH                  | Bach on the Lute Vol 1          |
| CKH 029 | NIGEL NORTH                  | Bach on the Lute Vol 2          |
| CKH 006 | NIGEL NORTH                  | The Baroque Lute                |
| CKH 001 | POLISH CHAMBER ORCHESTRA     | Live Concert                    |
| CKH 002 | WILLIAM CONWAY / PETER EVANS | Poulenc Cello Sonatas           |
| CKH 003 | ENGLISH CLASSICAL PLAYERS    | Mozart Symphony 40              |
| CKH 004 | LENINGRAD SYMPH ORCHESTRA    | Shostakovich Symphony No 5      |
| CKH 005 | JILL FELDMAN                 | 17th Century Italian Love Songs |

#### Jazz

- |         |                   |                              |
|---------|-------------------|------------------------------|
| AKH 030 | MARTIN TAYLOR     | Spirit of Django             |
| AKH 020 | MARTIN TAYLOR     | Artistry                     |
| AKH 022 | MARTIN TAYLOR     | Reunion                      |
| AKH 016 | MARTIN TAYLOR     | Change of Heart              |
| AKH 014 | MARTIN TAYLOR     | Don't Fret                   |
| AKH 006 | CAROL KIDD        | Nice Work                    |
| AKH 007 | CAROL KIDD        | The Night We Called It a Day |
| AKH 017 | CAROL KIDD        | I'm Glad We Met              |
| AKH 026 | CAROL KIDD        | Crazy for Gershwin           |
| AKH 018 | CLAIRE MARTIN     | The Waiting Game             |
| AKH 021 | CLAIRE MARTIN     | Devil May Care               |
| AKH 028 | CLAIRE MARTIN     | Old Boyfriends               |
| AKH 024 | TOMMY SMITH       | Reminiscence                 |
| AKH 040 | TOMMY SMITH       | Misty Morning & No Time      |
| AKH 013 | DAVID NEWTON      | Victim of Circumstance       |
| AKH 015 | DAVID NEWTON      | Eye Witness                  |
| AKH 025 | DAVID NEWTON      | Return Journey               |
| AKH 019 | STEVE GIBBONS     | Birmingham to Memphis        |
| AKH 023 | JON STRONG        | Follow Me                    |
| AKH 034 | RAY GELATO GIANTS | The Full Flavour             |

All these titles and many more are also available on CD - price £13 including postage and packing

# Jazz

Simon Hopkins



general strike  
steve beresford  
david toop

GENERAL STRIKE  
**ANGER IN PARADISE**  
PIANO PIANO 503

One time Flying Lizard David Cunningham has reactivated his long-dormant Piano label with a batch of reissues and rediscoveries which includes his own excellent Secret Dub Life of the Flying Lizards (way outside this column's remit but highly recommended for listeners fascinated by the delights and struggles of pre-digital experimental dub) and this curio, General Strike's Danger In Paradise.

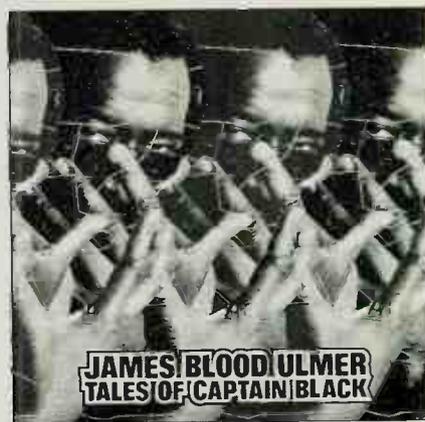
General Strike were multi-instrumentalists Steve Beresford and David Toop; they recorded this album - previously released only on cassette - between 1978 and 1984, and it's really quite wonderful. Toop and Beresford both had backgrounds in free improvised music, but these sessions, while full of improv's intuitive imagination, fell back on both musicians'

love of dub - not just dub's alchemical sound possibilities, but also its narcotic and inescapable rhythms. So what we get here are 15 short pieces hung around persistent and lop-sided rhythms banged out on whatever percussion came to hand.

To this Toop and Beresford brought a wide-eyed fascination with bizarre and exotic sounds, grabbing snatches of melodies and riffs played on guitars and synthesizers and glockenspiels and flutes and toy pianos and... on and on. The results, enhanced at the time and since with David Cunningham's highly inventive dubby tape treatments, are at once wonderfully exotic, naive and yet oddly disturbing.

There are two Sun Ra covers here, 'We Travel the Spaceways' and 'Interplanetary Music' (which features a swooping Lol Coxhill soprano solo), plus a fantastic dub version of the latter - for my money this album's stand out track. This couldn't be more appropriate; General Strike learned much from the great Saturnian bandleader's best work: a certain sense of wonder, a delightful clumsiness and a give-a-damn attitude to instrumentation and technique.

Toop and Beresford have gone on to wide acclaim in different spheres; Beresford has continued to expand the vocabulary of free improvised, and in the wake of the rise of post-techno ambient, Toop has recently re-emerged as one of its most innovative music makers. This timely, highly revealing reissue captures two musicians on different musical trajectories, briefly coming together with startling results.



JAMES BLOOD ULMER  
**TALES OF CAPTAIN BLACK**  
DIW DIW403

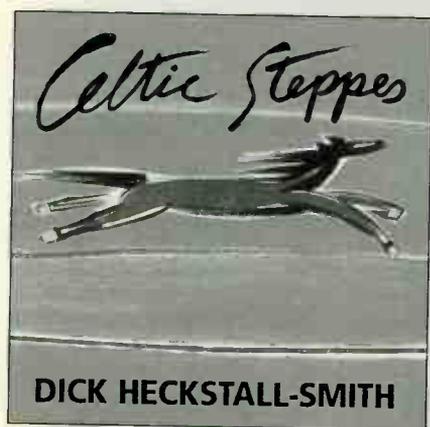
Guitarist and sometime singer James Blood Ulmer is one of those musicians who really polarises opinion. On one hand written off as a second rate guitar player who has made his name on a rag bag of esoteric musical theories from his mentor Ornette Coleman (another opinion polariser, but that's another story), he's lionised by others as one of recent jazz's key innovators, a musician who's brought the intensity and grit of the blues and the propulsive drive of funk to the more abstract world of free jazz. And as one of the most important guitar players to have emerged since the first flowering of jazz rock. The evidence of this reissue of Tales of Captain Black, Ulmer's 1978 classic, is definitely in favour of those in the latter camp.

Formerly Ornette Coleman's student, Ulmer had been playing on and off with the altoist since 1974 when he turned the tables, using Ornette's group to interpret his own songs. The resulting quartet - Ulmer, Coleman, bassist Jaamaladeen Tacuma and drummer Denardo Coleman (Ornette's prodigiously talented son) - is surely one of the finest to have graced contemporary jazz, and certainly one of the most shocking.

If you were to use one word to describe the music on this album, it would have to be 'angular'; angular, awkward, but generally relentless rhythms, angular melodies, angular group improvising. Of course, Ornette's 70s electric groups had already ploughed this furrough for some time, creating some of the most essential, groundbreaking and sadly overlooked albums in jazz history. But Ulmer, with a childhood spent singing gospel and subsequent years with organ funk groups, brought to the group a different energy altogether. This is cerebral challenging music, for sure, but music with passion and fire too. An essential reissue.



Simon Cooke



DICK HECKSTALL-SMITH  
**CELTIC STEPPES**  
33 RECORDS JAZZ 027

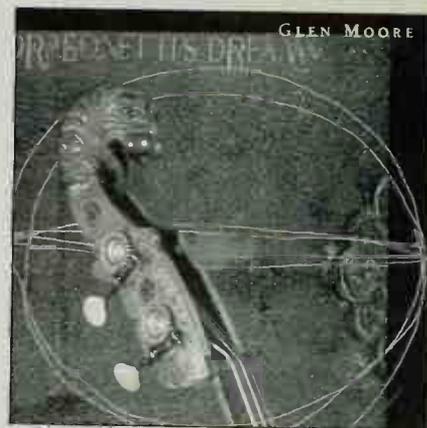
The steppes of the title have nothing to do with the mountainous western limits of Europe to which the Celtic peoples are now confined, but those of Central Asia whence the first proto-Celtic peoples rode into the recorded history of the Hellenic world, wreaking havoc and destruction as they came.

No, this isn't 'Archaeology Today' you've picked up! It's relevant because Heckstall-Smith employs motifs from across this gigantic geographical and cultural canvas, using it as a huge melting-pot of barbaric sound and rhythm, in preference to the more familiar but attenuated Celtic strains of today's Irish or Scots bands. This makes for a piece which sounds more like the film score to 'The Ten Commandments'

than a 'traditional' Celtic work at times, but take the size of that palette into account and a long, hard look at Celtic history, and this will make you realise just how deeply the roots of this waning ancient culture still reach into the consciousness of European people today. I hope I've given you the idea that this is more than just a piece of jazz; it's a revelation.

Enough about that though. The band is too large at twenty one members to list here but Don Weller and Theo Travis - with Ed Jones - on tenor sax and Spirit Level's Kendrick Rowe on drums are liable to be among the most familiar names for HFW readers. All of the players, however, turn in superb performances, with musicality and empathy with the material firmly to the fore. Many musicians have come a cropper trying to wed jazz with forms of Celtic music, but this group manages to invest Heckstall-Smith's work with both a reverence for the roots of this music and the pride of those who try to keep Celtic culture viable today.

All told, though, I have only one quibble, concerning length. At just over thirty minutes playing time there's a real danger of the buyer feeling ripped off by this CD, not only financially but because the work is so 'moreish'. Despite that, it's a superb piece well transferred to CD by the ever impressive '33' Records label, and I can heartily recommend it.



GLEN MOORE  
**DRAGONETTI'S DREAM**  
vBr 2154

If you're a fan of the rich, full sound of the double bass, this album really is a cracker. It's a solo album of fifteen tracks, fourteen of which are played on a luscious 1715 Klotz bass, lovingly strung with Thomastic Spirocore in high C, D, A, and low C (My, but I just adore sleeve notes this comprehensive). The second track, for no readily apparent reason, is played on a Steinway piano.

To get on with the review however, I have to say that the recording quality stands head and shoulders above the music, which I'll come to later. The technical side of this release is mouth-wateringly sumptuous, making it possible just to sit back and revel in the detail as every hair of the bow seems to lend something to the performance, every finger-touch on the strings is audible, and every note from the screeching highs to the flatulent thrumming of the lowest notes leap out of the 'speakers' at you. Fundamentally, this recording should score well for detail, whatever your taste in jazz may be.

Taste is where I encounter a problem with this CD, as I lean more toward the multiplexed, sampled and delayed complexities of Eberhard Weber, for instance. While Moore also uses electronics to boost his performance (those comprehensive notes list a Lexicon PCM 70, 2.0 effects unit among Moore's equipment), its presence is far less noticeable, and he substitutes a wry humour in place of prestidigitation or obvious electronic enhancement. This is most easy for me to describe by comparing Weber's 'Pendulum' with Moore's 'Walcott's Pendulum', which I assume has a similar *raison d'être*. Weber's track runs like a complex, quality Swiss chronometer while Moore's plays up the lurching, boozy passage of time as marked by your average pub clock and that goes for the whole album; empathetic, touching and humane. Try it.



accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Micromega, Mission, Monitor Audio, Quad, Rotel, Ruark and Yamaha.

**HUMBERSIDE**

**Zen Audio** George Street Hull Tel: 01482 587397. "Comfortable listening rooms. Home dems. Free installations. Agencies include: Audiolab, Audio Innovations, Auro, Audion, Denon, DNM, D.P.A., Cable Talk, Heybrook, JFW, Kar, Neat Petre, Micromega, Michel, Harmon Tardon, Impulse, Ruark, Rotel, Royal, Sugen and many more."

**KENT**

**ELECTRICAL DISCOUNT CENTRE, EDG**, 138 Pelham Road Gravesend, Kent DA11 0JH. Tel: 01474 569601. Pioneer, Marantz, Technics, Akai, JVC, Jamo

**ELECTRICAL DISCOUNT CENTRE, EDG**, 109 The Broadway Bexley Heath Kent DA11. Tel: 0181 298 7800. Pioneer, Marantz, Technics, Akai, JVC, Jamo

**THE LINN STUDIO**, Soudel LP12 "Knekt" Karil, Kairn Klout, Kremlin, Keltik, Kaber, Kelehdh, Numerik, Tukan, Wakonda, Majik, Mimik, LK100, Ekos, Kudos, Arkiv, Brilliant, Lingo, Valhalla, Sekrit, Aktiv... "Design systems for everyone from £2,000 to £30,000. A new dealership from a specialist family business, established in 1948. Outstanding service and facilities. Multi-room specialist. 223 Soudel Street, Dover, Kent CT17 9AF. Tel: 01304 201525. Fax: 01304 240336

**DOVER HI-FI**, 43 High Street, Dover Tel: 01304 207012. Suppliers of quality hi-fi equipment including: Arcam, Akai, Aura, B&W, Denon, Jamo, JFW, Mordaunt Short, NAD, Panasonic, ProAc, Quad, Rotel, UrArc, IDL, Technics, Tannoy. Part exchange. Listening room. Service and repairs. Credit facilities. Accessible. Open 9.30-5.30.

**V.J. HI-FI**, 29 Guildhall St. Eastgate Kent Tel: 01303 256860. Stockists of: Mission, Tannoy, JBL, Pioneer, Philips, Akai, Marantz, Musical Fidelity, Quad, Yamaha, Denon and much more besides. Full audio and home cinema demonstration facilities. Fully bonded BADA members. Interest free credit available (subject to status). Open Mon-Sat 9:00-6:00

**SEVENOAKS HI-FI** 28 St Johns Road, Tunbridge Wells, Kent. Tel 01892 531443. The UK's leading independent Hi-Fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration room. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Micromega, Mission, Quad, Rotel, Ruark and Yamaha.

**SEVENOAKS HI-FI** 4 Railway Street, Chatham, Kent. Tel (01634) 846859. The UK's leading independent Hi-Fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands include Arcam, Audiolab, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Michel, Mission, Monitor Audio, Quad, Rotel, Ruark, and Yamaha.

**SEVENOAKS HI-FI** 20a Lower Bridge Street, Canterbury, Kent. Tel (01227) 462787. The UK's leading independent Hi-Fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by

arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Micromega, Mission, Monitor Audio, NAD, Pioneer, Quad, Rotel, Ruark, and Yamaha.

**SEVENOAKS HI-FI**, 109-113 Lincoln Road, Sevenoaks, Kent. (01732) 458556. The UK's leading independent Hi-Fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Michel, Micromega, Mission, Monitor Audio, Quad, Rotel, Ruark and Yamaha.

**LANCASHIRE**

**ORPHEUS AUDIO** Standish, Lancs Tel: 01257 473175. See our main entry under Greater Manchester.

**PRACTICAL HI-FI**, 43 Friargate, Preston. Tel: 01772 823958. The audio visual specialist, expert advice, instant demonstrations, best prices, instant free credit, part exchange welcome. External warranty. Stockists of Yamaha, Kenwood, Denon, Sony, Technics, Onkyo, Marantz, Pioneer, Mission, Kef, Jamo, Celestion, B&W. Also stockists of LaserDiscs.

**PRACTICAL HI-FI**, 84 Penny Street, Lancaster, LA1 1XN Tel: 01524 319457. See our main entry under Lancaster.

**PRACTICAL HI-FI**, 33-35 Kingsley Street, Bolton, Lancs Tel: 01204 310089. See our main entry under Lancaster.

**PRACTICAL HI-FI**, 81 Whitegate Drive, Blackpool, FY3 1DA Tel: 01253 300038. See our main entry under Lancaster.

**NORMAN AUDIO**, 131 Friargate, Preston, Lancashire, PR1 2EE. Tel. 01772 253057. Fax. 01772 562731. Marantz, Pioneer, Yamaha, Audiolab, Arcam, Mission, Cyrus, B & W, Kef. Send for your catalogue. Home cinema dem room plus three sales areas. No apt necessary, free install, service dept, instant credit subject to status. Open 9.30-5.30, late night, Aud-Dep.

**LEICESTERSHIRE**

**ENCORE!** Nr. Melton Mowbray, Leic. 01664 823282. Sugden, Densen, Unison, Tube Technology, Ruark, UKD Opera, Keswick Audio Research and Fr-Pax. As you can see from our agencies, we are open minded and able to present diverse options for your appraisal. Unbiased and unhurried demonstrations by appointment incl. evenings and weekends.

**SEVENOAKS HI-FI** 147 Granby Street, Leicester. Tel 0153 255 7918. The UK's leading independent Hi-Fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with a dedicated single speaker and audio visual demonstration room. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Denon, KEF, Marantz, Meridian, Micromega, Mission, NAD, Pioneer, Quad, Rotel, Ruark and Yamaha.

**CLASSIQUE SOUNDS**, "Vintage Hi-Fi Specialist". Stockists of Garrard 3011-401, Thorens, Quad, Linn, Rega, Shiny Labs, Spendor, Wharfedale, Rogers, Arcam, SME, Decca, Pioneer, UKD, Sugden, Musical Fidelity, + much more... Tel/Fax Paul Greenfield on UK + 0116 283 5821 or 0802 213 740 (mobile) any - time Classique Sounds, Classique House, 61 Aylestone Drive, Leicester, LE2 8JG.

**LINCOLNSHIRE**

**COTTAGE AUDIO**, 17 Bridge Street, Southy, Nr Lincoln LN1 2PZ. Tel: (01522) 702836. Evenings: 015221 806700. ATC, A&K, chord amplifiers, Harbeth, LFD, Mitchell, Origin

Live, Kinshaw, CED, Royal, Samsa, Sequence, Something Like, Sonic Link, etc. Demonstration rooms. Home trial facilities. Free installations and advice at a personal, friendly service.

**LONDON**

**AUDIO T**, 190 West End Lane, West Hampstead. (0171) 794-7848. Great Value on Aiwa, Arcam, Audiolab, B&W, Denon, Linn, Marantz, Meridian, Micromega, Mission, Nakamichi, Rotel, Sony, Technics, Yamaha & many more. Tues-Sat 10-6. Late Thurs until 8.00. 3 year Hi-Fi guarantee. 30 day free upgrade. Home demonstrations. P1. Selected interest free credit. 2 listening rooms. BADA Based.

**TIME & TUNE**, For TV, Video, Hi-Fi, and in-Car Hi-Fi. We are dealers of: Aiwa, Bees, Hitachi, Jany, Kenwood, Marantz, Mitsubishi, Nad, Panasonic, Pioneer, Sony, Technics. For these and more come and see us at Time & Tune, 218-220 Whitechapel Rd, London, E1 1BJ. Or call 0171 377 2000

**AUDIO CONCEPT**, 27 Bona Street, Ealing, W5 5AS. Tel: (0181) 567 8113. Acoustic Energy, Audiolab, Aura, B&W, B&N, Boston Acoustics, Canon, Castle, Denon, Dual, Evox, Infinity, JPM, KEF, Marantz, Mission, Monitor Audio, Musical Fidelity, NAD, Nakamichi, Onky, Quad, Rorex, Rogers, Rotel, Systemax, Target, Teac, Thorens, Yan Jen Hul. Two dem rooms. Interest free credit, free local delivery & installation, service department. "Hi-Fi Specialists without the attitude"

**AUDITORIUM**, 119 Middlesex Street, Bishopsgate, London E1 7JF. Tel: 0171 247 5000. Full range of equipment from Arcam, Bang & Olufsen, Cyrus, Denon, Dynastar (Japan & UK), Epos, Kef, Micromega (including 21, 24, transports, CD, Pro 2 DCA and Stage) Mission, Naim, Neat, REL, Shalinian, Well Tempered Turntables, and Xio. Open Monday to Friday 10.30am to 7.00pm and Saturday 11.00am to 4.00pm. Two minutes walk from Liverpool Street Station

**HIFI EXPERIENCE**, 227 Tottenham Court Road, London W1. 0171 500 3535. Arcam, Audiolab, Mission, Cyrus, Quad, Celestion, Kef, Meridian, Rogers, Tannoy, Yamaha, TDL, Thorens, Marantz, Nakamichi, Musical Fidelity and many more. Open 10.00-7.00 Mon-Fri, 9-6 on Sat, Sunday Apt. Credit facilities, delivery and free installation.

**K J WEST ONE**, 24 New Cavendish St., Linnam W1M 7LH. 0171 486 8202/63. Fax 0171 487 3452. Two Hi-Fi & two home cinema dem studios. Appts pref. Home trial. Installation by arrangement. Service dept. Major credit cards. Interest free credit on selected items. Major brands stocked: Arcam, Audio Alchemy, Audio Innovations, Audion, Audiolab, Audio Research, B&W, Castle, Chora, DPA, Harbeth, Harman, Linn, KEF, Klipsch, Krell, Marantz, Martin Logan, Meridian, Michel, Micromega, Mission, Musical Fidelity, Nitty Gritty, Pini, ProAc, Quad, Kef, Rotel, Sonus Faber, Star, Tannoy, Theta. Open 6 days.

**THE LISTENING ROOMS**, 161 Old Brompton Road, London SW5 0JJ. (0171) 244 7750/59. Fax (0171) 370 0192. Linn, Quad, Meridian, Nakamichi, Arcam, Audiolab, Acoustic Energy, SME, Audio Research, Krell, Wadia, Theta, Apogee, Martin Logan, Pioneer, Tannoy, Systemax, Star, Pini Triangle, Mitchell, Monitor Audio, Yamada, Marantz, Kef, Bose, Crestone, Epos, Mission, Denon, Neat Petre. Mon-Sat 10-6pm.

**ORANGES AND LEMONS**, 61-63 Webb's Road, Battersea, SW11. Tel: (0171) 924 2040. Juicy fruit from London's freshest Hi-Fi / Home Cinema retailer, now in our second year. Telephone demonstrations, or just pop in. All the usual, i.e. friendly and efficient service, free home installation, credit cards, 0% credit finance available, plus all the very best from Cable Talk, The Choral Co., Denon, Epos, Kef, Marantz, Micromega, NAD, Neat, Quad, Rega, Roksan, Rotel, Sony, Roonik, Soundstyle, Stands Unique and more.

**ZEBRA**, 18-24 Stanton Road, South Croydon. Tel: 0181-608 2033. The UK's First and

Finest Home Cinema Store. 3 Demonstration Rooms. Laser Disc CRT and Projection TV Centre. Many brands stocked including Arcam, Audiolab, Meridian, Linn, Kef, Pioneer, Rotel, Yamaha, KEF and Panasonic. Mon-Sat 10.30-6.00pm. All major credit cards accepted. Finance available. Evening demonstrations by appointment.

**SEVENOAKS HI-FI** 403 New Kings Road, Chelsea, London. Tel 0171 352 9460. The UK's leading independent Hi-Fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with a dedicated single speaker and audio visual demonstration room. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Michel, Micromega, Mission, Monitor Audio, Quad, Rotel, Ruark and Yamaha.

**SEVENOAKS HI-FI** 162 Fowls Street, Noolich, London Tel 0181 855 8016. The UK's leading independent Hi-Fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with a dedicated single speaker and audio visual demonstration room. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Michel, Micromega, Mission, Monitor Audio, NAD, Pioneer, Quad, Rotel, Ruark and Yamaha.

**ALPHABET LTD**, 392 Finchley Road, Linnam, NN2 2HF. Stockists of Bose, B&N, Choral, Denon, Jany, JVC, Grundig, KEF, B&W, Onkyo, F&N, Harbeth, Sony, Vandy and Yamaha. Specialists in Multi-Room installations. Full service facilities. Credit terms available. Open Mon-Sat 10am-6pm. Thurs 10am-1pm. Tel: (0171) 431 0333

**GREAT BRISTOL**

**ORPHEUS AUDIO**, Less between you and the music... Arion Acoustics' Audiomosa (Pierre Lurie)' Audio Alchemy' Audio Note' Audio Synthesis' Burmeister' E.A.R.' Cambridge' Campana Audio Design' Choral Electronics' Gamma Acoustics' Grand' Klipsch' Linn' Proton Research' Linn' Origin Live' Ortofon' Project' 'CEC' Triac' Triac' YBA' Boulder' Acarian Systems' Sonic Link' Beyer' Sennheiser' Audio Quest' Demonstrations by arrangement in Standish, Lancs or in your own home without obligation. Tel: 01257 473175 (Evening calls welcome)

**PRACTICAL HI-FI** 65 Bridge Street, Manchester M3 3EQ Tel: 0161 839 4569. See our main entry under Lancaster.

**MERSEYSIDE**

**WIRRAL HI-FI (Audio Consultants)** 17 Shire Bank, Wirral, L22 0DB Tel/Fax: 0151 645 4021. We believe in value for money. That's why we only stock audio equipment that has been carefully selected for its price, build, & most important, excellent sound quality. The following manufacturers offer all this DPA, Gamma, Klyne, Magnum, Monarchy, Moth, Orelle, Pini, Teac, Tube Technology, XLO, Audio Synthesis, Audio Alchemy, Audio Vaive, Arion, Base, CR, Castle, Dynaudio, Electrofluidics, Hegonar, SD Acoustics, Triac. For friendly advice, free local delivery & installation, demonstration facilities by appointment.

**MIDDLESEX**

**AUDIO T**, 190a Chesh Side, Enfield. (0181) 867-3132. Great Value on Aiwa, Arcam, Audiolab, Celestion, Cyrus, Denon, Linn, Marantz, Meridian, Micromega, Mission, NAD, Nakamichi, Rotel, Sony, Yamaha & many more. Tues-Fri 9.30-6. Sat 10.30-6.30. 3 year Hi-Fi guarantee. 30 day free upgrade. P1. Selected interest free credit. 2 listening rooms. Home Cinema specialists. BADA Based.

**MUSICAL IMAGES**, 45 High Street, Harewood, Middlesex. Tel: (0181) 569 5802. Fax: (0181) 569 2353.





# Classical

Peter Herring

Four centuries of English music are encompassed by new recordings of Thomas Tallis, Michael Tippett and William Walton, while - as affirmations of faith - Tallis's serene austerity makes for a sharp contrast with Franz Schubert's final and most intensely personal setting of the Latin rite.



classical reviews



CARL PHILIPP EMANUEL BACH  
**Double Concerto for Two Harpsichords and Orchestra in F Major Wq46/ Double Concerto for Harpsichord, Fortepiano and Orchestra in E flat Major Wq47/ Sonata for Two Harpsichords and Orchestra in D Major Wq109**  
Eric Lynn Kelley, harpsichord; Jos van Immerseel, fortepiano and harpsichord; Alan Curtis, harpsichord; Gustav Leonhardt, harpsichord.  
Collegium Aureum  
Deutsche Harmonia Mundi  
'Baroque Esprit'  
05472 77410 2 (ADD/DDD/57.57)

A musicologist of my acquaintance takes great delight in openly questioning the normally unquestioned dogmas of music. One of his favourites is to maintain that Carl Philipp Emanuel Bach was a greater composer than his father, Johann Sebastian. These days, the suggestion is greeted with a sharp intake of breath, but in the second half of the eighteenth century it would have been met with widespread endorsement. It was not until the 're-discovery' of J.S. Bach by the likes of Mendelssohn during the nineteenth century that C.P.E. lost his pre-eminence.

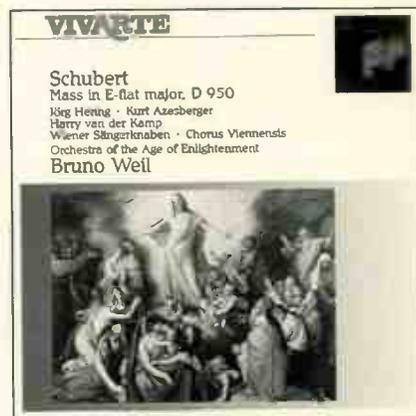
This recording reveals something of why C.P.E. Bach was so highly regarded by the likes of Haydn, Mozart and Beethoven. The Double Concerto for Harpsichord and Fortepiano, written in the year of his death, 1788, remains rightly celebrated. It is a work of remarkable freshness and originality, with much wonderful solo writing, and a delicious contribution from the orchestra of flutes, horns and strings. The Concerto combines reflection with wit and humour, and in many respects supplies an appropriate epitaph for the Baroque style.

The Sonata Wq109, one of fifteen composed in Berlin between 1762 and 1764, similarly mirrors the changes that music was undergoing. The Baroque spirit remains in the festive trumpets and drums of the orchestra, but the solo writing has more than a taste of the early ' Sturm und Drang' style which was to attain its high-watermark in the middle period symphonies of Haydn.

The third work here is one of the earlier of C.P.E. Bach's fifty-two keyboard concertos, dating from 1740 when the composer was resident harpsichordist at the Prussian court in Berlin. While not as arrestingly original as the two later works, its invention and wealth of ideas still shine through, and the introspective slow movement is particularly fine. It is a pity that the playing in this 'sixties analogue recording by Alan Curtis and Gustav Leonhardt is not a little more imaginative, but the performance as a whole is acceptable.

Better, both in terms of playing and sound quality, are the digital recordings of Wq47 and Wq109 from 1982: bright, airy and with great clarity of texture. The soloists are forwardly-balanced, but not at the expense of the often-piquant orchestral sonorities, and the whole presentation is most satisfying. Altogether a recommendable introduction to the music of 'the other

Bach' - and judge for yourself whether you think my heretical musicologist friend has a point!



FRANZ SCHUBERT  
**Mass No6 in E flat Major D950**  
Benjamin Schmidinger, treble; Albin Lenzer, alto; Jorg Hering, tenor; Kurt Azesberger, tenor; Harry van der Kamp, bass; Arno Hartmann, organ; Wiener Sangerknaben; Chorus Viennensis; Orchestra of the Age of Enlightenment; conductor, Bruno Weil.  
Sony Classical SK66255 (DDD/47.44)

As with Beethoven's *Missa Solemnis* of five years earlier, Schubert's sixth, last and most ambitious setting of the Mass is, despite its scale and splendour, an intensely personal and direct affirmation of faith. It is an oddly dualistic work: in many respects conventional (the composer was anxious for its acceptance by the 'censors' within the church), but with many examples of Schubert unable to contain the desire to express his inner spiritual vision and his own interpretation of the significance of the Mass texts. The result is a work where the dramatic tension is unrelenting, where supplicant

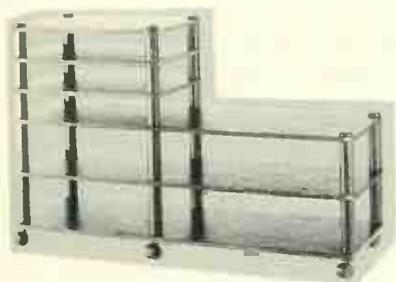
# Audio Masters

Mail Order Accessory Specialist

## Target Audio Racks by Mail!!

We stock the entire range of target products, here are just a few!

AER



Beta



Modular



AER 3 (3 shelf) £154.00

AER 4 (4 shelf) £190.00

AER 5 (5 shelf) £205.00

B3 (3 shelf) £135.00

B4 (4 shelf) £159.00

B5 (5 shelf) £185.00

MB3/165 (3 shelf) £128.00

MB3/165+1 shelf £179.00

MB3/165+2shelves £220.00

All of the above are available in Matt Black, Piano White, red, Antique Gold and Antique silver

At no extra cost

**All Target Racks are posted free of charge to mainland U.K.!!**

### Chord company Siren Interconnect Cable

The Chord Co. always seem to deliver very high quality sound without high quality prices, and their latest offering "The Siren" is no let down. Clad in an extremely fetching purple jacket it looks as good as it sounds. It is full bodied yet smooth cable with plenty of detail. Compatibility with most Hi-Fi separates is also one of its strong points.

All This For Just.....£65 + £1.50 P+P!!!

### Kontak® Cleaning solution

Originally developed for military use, Kontak is the only cleaning solution capable of removing completely all traces of any contaminants on any connecting surface. The subjective benefits gained from cleaning a system with Kontak are improved bass response, an enhancement of low level detail and transparency and a greater sense of dynamic range.

Never Be Without a Bottle!.....£14.95 + £1.15P+P

### XLO Reference AC Mains Cable

Not just another mains cable but probably one of the best mains cables in the world in our opinion!

After connecting this mains lead to your power amp you too can experience a cleaner bass, less muddled midrange and better overall dynamics!! It also works wonders for pre-amps, CD's and most other Hi-Fi components.

3ft £125...4ft £150...5ft £175...6ft £200 P+P FREE!

## TDL Owners!

### Are You Getting The Most From Your Speakers?

*TFL Ultraflex loudspeaker cables do not produce a sound of their own. For perfect result, the amplifier would need to be soldered direct to the back of the loudspeakers. TDL cables are designed to simulate that ideal condition by providing an ultra low link between the equipment and the speaker.*

*TDL Ultraflex Cables are produced from virtually 100% oxygen free multi stranded copper wires and are extremely flexible. Unlike cheaper cables which often employ a thick outer sheath, this is deliberately kept thin to permit the maximum diameter conductor within the space it occupies, thus ensuring the optimum current carrying for the lowest possible resistance*

*These cables come in terminated pairs of 2.5mtr, 5mtr, 7.5mtr.*

TDL recommend Ultraflex as the best cable to use with all TDL speakers. The prices range from £24.95 per set up to a very reasonable £64.95 per set

Available by MAIL ORDER

Exclusive By:

*Audio Masters*

For more details call...

01608 644954

### Other Agencies Include....

XLO, Target, Soundstyle, Beyer, Goldring, QED, Bib, Audioquest, Discwasher, Grado, Maxell, Ortofon, Shure, Sound Organisation, Stanton, Puresonic, Platform, Chord Co., Van Den Hul, Lyra, WBT, Audio Alchemy, Sennheiser, Kudos, Michell, AKG, Flatline, Ixos, Stax, Sumiko, MIT, Musical Fidelity, Ensemble, Cardas, Sonic Link, DPA.

And Many More!!

If you would like any of these products or would just like our latest price list, please feel free to drop us a line or give us a call!!!

1 Dunthorp Farm Cottages,  
Heythrop, Chipping Norton,  
Oxon.OX7 5TJ

**PLEASE ASK ABOUT OUR  
HOME TRIAL SERVICE!**

### How To Pay

By Post:- Please make cheques or Postal orders payable to:  
AUDIO MASTERS.

By Phone:- We accept VISA, MASTERCARD and SWITCH  
Phone or Fax:-

**01608 644954**

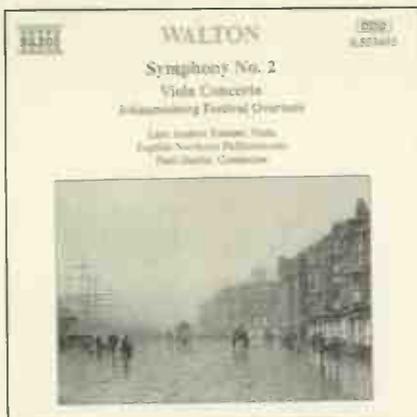
acceptance is swept aside by a vigorous, unyielding questioning. It is palpable even in the tremulous opening chord of the normally beatific Sanctus. Most startling of all, however, and most deeply affecting is the Agnus Dei in which Schubert employs as his basic material a theme symbolising the Cross - C, B, E flat, D. The effect is powerfully arresting, and Schubert was to redeploy it in a distilled and concentrated form just a few weeks after the completion of the Mass, in one of his most famous and intensely personal Lieder - Der Doppelgänger. It is impossible not to draw parallels between the man on the Cross and the protagonist of the song who "...stands there too and stares aloft, and wrings his hands in an access of grief."

But we should not be surprised by the profundity and power of this Mass setting: its date of composition - June-July 1828 - places it between the C Major Symphony and what, for many, remains Schubert's finest chamber work, the String Quintet. However, whereas the collector has been spoilt for choice in those two works, this has never been the case in the E flat Mass. I doubt, though, that this new recording under Bruno Weil has ever been bettered. For a start, the sound is outstanding, one of the best examples yet to come my way of Sony's 20-bit system. The inner clarity, even within the most complex choral sections is exhilarating, and the scale is awe-inspiring, as surely befits the score.

And what playing and singing Bruno Weil exhorts from his Viennese choral forces and that excellent period instrument ensemble, The Orchestra of the Age of Enlightenment. With brisk tempos and keenly accentuated rhythms, the dramatic momentum is maintained throughout; it is edge-of-the-seat stuff. The only drawback

is the comparatively short measure, but for once this is

outweighed by the quality and intrinsic value of one of the finest Schubert recordings of recent times.



WILLIAM WALTON  
**Johannesburg Festival  
 Overture/Viola  
 Concerto/Symphony No 2**  
**Lars Anders Tomter, viola;**  
**English Northern  
 Philharmonia; conductor,**  
**Paul Daniel**  
 Naxos 8.553402 (DDD/61.27)

Walton's Second Symphony has never attracted the attention or acclaim of his First, but then it was composed in a very different musical climate. When it was premiered at the 1960 Edinburgh Festival, it spoke a language that was clearly out of step with the prevailing radicalism and was coolly received by the critics. It deserved better, and in a fine performance such as this, its qualities can be appreciated without reference to any musical '-ism' (most of which it has outlived). The slow movement, marked *lento assai*, ranks among Walton's greatest inspirations: hauntingly atmospheric, lyrical, and displaying a complete mastery of a wide and exotic range of orchestral colours, something Walton appears to have learnt from Ravel, whose influence is undisguised.

Like the Fourth Symphony of Brahms, the Walton concludes with a splendid passacaglia, a set of variations on a twelve-note theme, and a lively fugato passage leads to a final, rousing coda. Throughout, colour and texture are all, underpinned by a rhythmic urgency, something which comes across strongly in this performance by one of the most promising of young conductors, Paul Daniel. His

orchestra, the English Northern Philharmonia, is better known as the orchestra of Opera North but is rapidly building a reputation for itself beyond the confines of the opera house - and rightly so, given the standard of playing here.

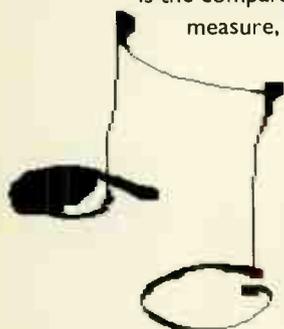
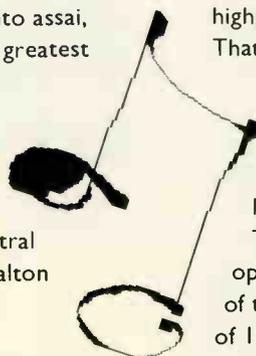
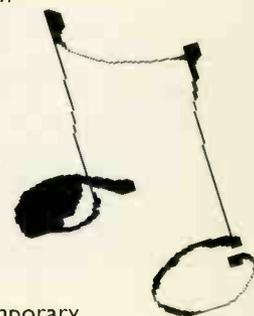
As with the Second Symphony, the other main work here, the Viola Concerto, enjoyed mixed fortunes initially. It was written in 1928 for the great virtuoso Lionel Tertis, but he rejected the score as too modern and the first performance was instead entrusted to the composer, Paul Hindemith, who also happened to be an accomplished violist. But Tertis disliked Hindemith's approach to the work and, as though to show how it should be played, took the concerto into his own repertoire after all.

He first performed it at a festival held by the International Society for Contemporary Music and then at a Three Choirs Festival, where it seems the piece did not meet with the approval of the ageing Elgar.

Now, though, the work is acknowledged as one of the finest concertante compositions for this 'cinderella' among string instruments, and arguably represented the highpoint of Walton's 'lyrical' style.

That lyricism is certainly evident in the hypnotic, poetic playing of the Norwegian, Lars Anders Tomter; it is as searching and compelling a performance as I have heard.

The entire programme, which opens with a sparkling performance of the Johannesburg Festival Overture of 1956, written for the seventieth anniversary of that city, has been very well engineered by Dave Harries in an acoustic which is, to judge from previous recordings made there, difficult to work in - Leeds Town Hall. The balance is entirely natural, and the detail is luminous, if occasionally a little hard-edged. But, at under a fiver, for exciting, freshly-minted performances of music by a still undervalued English master, I've no complaints.





# The ensemble Music System



PRIMADONNA GOLD

"Simply Stupendous"  
"good real bass"  
"so much dynamics"  
"- amounts to quite frankly a  
miracle"



LANDMARK STAND



EVOCCO AMP

"Beautiful, airy precise  
sweet velvety - its magic"  
"the Rolex of high fidelity"



DICHRONO DRIVE

## COMPONENTS THAT MAKE THE MUSIC COME ALIVE



TUBE SOX



REFERENCE SILVER



VOICE FLUX



TOP CONE



HONEYPLATE

## P M COMPONENTS LTD

Please ring for details on: 01474 560521

Major discounts available NOW on demonstration products

Dates of demonstrations in your area.

\* Extracts from recent major reviews - Dealer enquiries welcome.

## RECORD OF THE MONTH

THOMAS TALLIS

**Lamentations, Motets,  
String Music**

**Theatre of Voices;**

**Director, Paul Hillier**

**The King's Noyse;**

**Director, David Douglass**

**Harmonia Mundi**

907154 (DDD/70.45)

The lifetime of Thomas Tallis (c.1505-85) was one of both great musical development and socio-political upheaval in England. He was born during the reign of Henry VII and, after posts at Dover Priory, Canterbury Cathedral and Waltham Abbey in Essex, was to spend the rest of his life in the service of three other monarchs, as a Gentleman of the Chapel Royal. With Henry VIII came the Reformation, and with the accession of his nine-year old son, Edward VI, the Protestant zealots who were the young King's regents intensified the persecution of Catholics and the enforcement of the 'reformed style' in worship and everything associated with it, including the important element of music.

Henry VIII's elder daughter, Mary Tudor, reinstated Catholicism for six years (1553-58), but under her sister, Elizabeth, the Protestant faith was reimposed, mercifully with a lessening of the fanaticism which had characterised the reigns of her predecessors. Thankfully for succeeding generations, both Tallis and his younger contemporary, William Byrd, survived these dangerous times and, albeit with considerable discretion, maintained their allegiance to the Catholic faith. It enabled them to write with equal mastery and invention for both the Catholic and Anglican liturgy.

Tallis's long career also witnessed a significant shift in the style of English sacred music, as gradually the

ornate, discursive approach of the late Medieval period gave way to the new continental European imitative style, with its enhanced potential for emotional expression. Tallis seems to have had no difficulty in embracing the new style, as his setting of the Lamentations of Jeremiah - regarded by many as his supreme contribution to sacred polyphony - bears eloquent testimony. But his Latin motets are hardly less of an achievement, and two of the finest - *Salvator mundi* and *Audivi vocem* - are included here along with the Lamentations, in superb performances by Paul Hillier's American-based choir, Theatre of Voices.

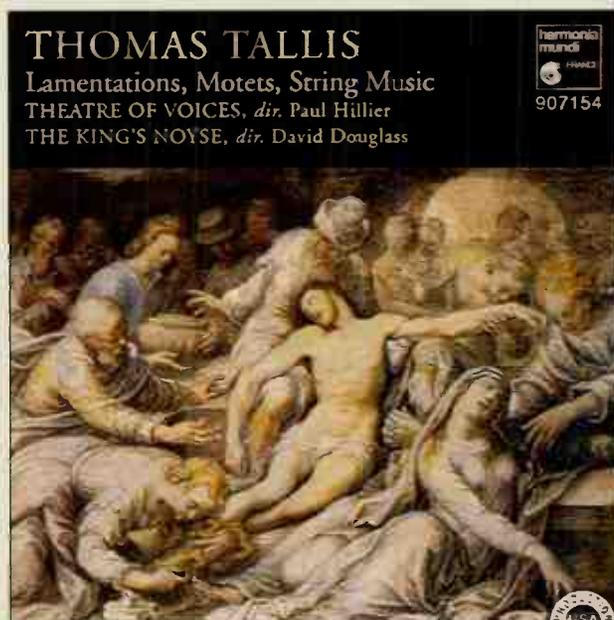
his Anglican rendition of the Benedictus. His command of the Protestant style at its most severe and unadorned is nowhere better heard than in the eight tunes Tallis contributed to Archbishop Parker's psalter, the two most famous of which, *Why fum'th in sight* and Tallis' Canon, are included here. The former, it is worth recalling, was the theme used by Vaughan Williams in his *Fantasia on a Theme of Thomas Tallis*.

For Tallis, the simplicity and directness of the Protestant dictate was as much a challenge as the new European polyphony, and he relished the opportunity to exploit it.

In performing works from both liturgies, Theatre of Voices offer an imaginative and balanced portrait of this great English composer, and it is made all the more comprehensive, and exceptional in Tallis discography, by the inclusion of some of his string music, expressively played by the violins, violas and cello of David Douglass's *The King's Noyse*. These are arrangements of partsongs, two instrumental settings of motets, and one of the two *In Nomine* settings, and far from interrupting

the flow of the choral music, they provide a refreshing contrast.

With its clear, limpid recording, made in St Stephen's Church, Belvedere, California, and first class presentation (an excellent booklet essay by David Vernier), I know of few better modern recordings through which to discover the composer who was described in one tribute thus: "As he did live, so also did he die. In mild and quiet sort." Such qualities may have ensured his survival; if so, we can only be grateful that the "mild and quiet" Thomas Tallis let his music express his innermost thoughts and feelings ●



The penitential nature of many of the texts set by Tallis, it has been suggested, was a subtle way of proclaiming his anguish at the treatment of fellow-Catholics and his despair at the Catholic Church's expulsion from England. If so, it might be expected that his music for the Anglican liturgy would fail to rise above the prosaic and workmanlike. Yet, as is amply demonstrated here, that could not be further from the truth. His English-language setting of *If ye love me, keep my commandments* is every bit as moving as any of the Latin motets, and the same can be said of

# Sound Sense

Hi-Fi.....Video.....TV

WHERE PRICES  
ARE LOW!

The only London Dealer to offer the  
Lowest Prices on lots of great equipment

- Large selection of Hi-Fi, Video & TV on display
- Comfortable listening room
- Knowledgeable friendly staff
- Home Cinema on permanent demonstration
- Credit facilities
- Most items supplied from stock
- Open until 7p.m. Monday to Saturday
- Authorised dealer for every product we sell

## THE HIT LIST

Audio Innovations  
Aura  
Boston  
B&W  
Celestion  
Denon  
Exposure  
Harman Kardon  
JBL  
KEF  
Kenwood  
Marantz  
Meridian  
Monitor Audio  
Nakamichi  
Orelle  
Pioneer  
REL  
Revolver  
Rogers  
Rotel  
Sony  
Tannoy  
Technics  
TDL  
Thorens  
Yamaha  
XTC  
Accessories  
& Furniture:  
Atacama  
Cable talk  
Flatline  
Quadraspire  
SoundStyle  
Stand Design  
Target  
van den Hul

## van den Hul The Magnum

50% off\*

Have we gone mad?

This magnificent linear structured carbon hybrid speaker cable combines excellent bass with cristal clear treble. Get the best of both worlds at an amazing price.

RRP £37.99

1 Meter packet TR 99

Hurry! Limited Stock

\*While stocks last

## Home Cinema

Pro-Logic  
Processors  
& amps by  
Denon and  
Yamaha

Laser Disc  
Players

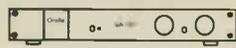
Sony  
televisions  
including  
Wide Screen  
Videos by  
Panasonic  
& Sony

## Orelle Audition the superb CD player and amplifier



CD-100SE

**BEST BUY** Hi-Fi Choice  
Multi-bit CD player £549.00



SA-100

**BEST BUY** Hi-Fi Choice  
50W RMS/Ch  
integrated amplifier £449.00

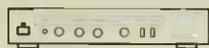
£50\* voucher  
with any  
Orelle product

7 days money  
back guarantee!

\*To be redeemed against any other in store purchase

upto 50%  
on selected  
products  
call for details

## Star Buy -Amazing value!



Denon PMA250I

Denon DCD315

+  
KEF Coda 7

+  
van den Hul The Storm

interconnect cable

+  
speaker stands

+  
speaker cables

All components in  
this system are  
well reviewed

Only £399.99

Save £116

Usual Price £516

Other systems also available  
at incredible prices!

## B&W

Free stands worth £40 with  
these superb speakers

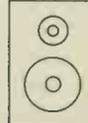


DM601 £199.95

WHAT HI-FI?

DM602 £299.95

WHAT HI-FI?



## Mail Order

We accept  
cheque and  
all major  
credit card.

Simply pick up  
your phone  
and order

Free Delivery\*  
above £250

\*Excludes offers  
UK mainland only

## van den Hul Unique CARBON technology for ultimate performance

**CS122**  
speaker cable

Carbon Hybrid

Magnificently transparent  
Hi-Fi News & RR

They're fab

Hi-Fi Choice

£11.99/m

**Skytrack**  
bi-wire  
speaker cable

Carbon Hybrid

speaker cable  
at an incredible

price of £5.49/m

**The FIRST**  
Pure CARBON  
interconnect

★★★★★ What Hi-Fi?  
★★★★★ HI-FI Choice

unique & wonderful

£159.99 (0.6m)

Full van den Hul  
range available

Free delivery\* for  
orders over £50

Demonstration-no problem

\*UK mainland, VDH products only

Sound Sense Sales Hotline Tel: 0171 402 2100

350 Edgware Road, London W2 1EA, Nearest Tube: Edgware Road. Fax: 0171 724 7750  
Open: Monday to Saturday 10a.m. to 7p.m.

## VALVE BOOKS

### The Williamson Amplifier - D.T.N.

Williamson  
Offers practical advice on how to build and set up the amplifier for best results.  
£10.95 Code: 1040



### Principles of Electron Tubes - Herbert J. Reich

A textbook for beginners starting with the basics of how a vacuum tube actually works and shows how a simple circuit is designed including amplifiers, transformers and power supplies. A must for both enthusiasts and hobbyists.  
£31.95 Code: 1010

### An Approach to Audio Frequency Amplifier Design - Seventeen circuits from 5 to 1100watts - General Electric Co.

High quality amp. designs using KT66s, KT88s, DA100s etc. Includes two valve pre-amps complete with phono stages.  
£21.95 Code: 1020

### Mullard Tube Circuits for Audio Amplifiers -

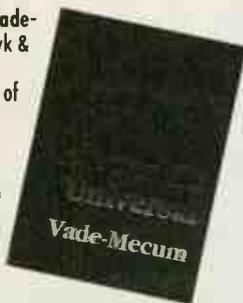
Includes full designs for eleven power and control amps, including 5-20, using valves. Begins with a four chapter tutorial on getting the best sound from valve amplifiers.  
£15.95 Code: 1030

### 70 Years of Radio Tubes & Valves - John W. Stokes

Outlines the evolution of radio receiving tubes and the part they played in the domestic radio receiver. A reference for those interested in the history and development and collectors alike.  
£21.95 Code: 1050

### Electronic Universal Vade-Mecum - Piotr Mikolajczyk & Bohdan Paszkowski

This Data book comprises of 5693 valves divided into 442 groups. A comprehensive book which contains connection details, operating parameters, load lines and example circuits.  
£55.95 Code: 1060



## LOUDSPEAKER BOOKS

### Quick & Easy Transmission Line Speaker Design - Larry D. Sharp.

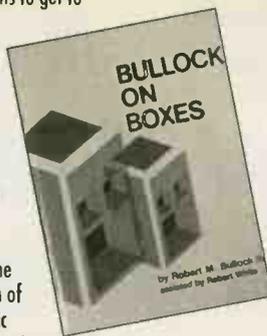
Practical approach to designing and building your own transmission line loudspeaker. Includes design examples, equations and a computer disk (Lotus123) for the maths!  
£12.95 Code: 1130

### Loudspeakers: The Why & How of Good Reproduction - G.A. Briggs

An easy to understand book on building loudspeakers, using empirical techniques that pre-date computer analysis. A strong recommendation for beginners.  
£11.95 Code: 1070

### Bullock On Boxes - Robert M. Bullock III

Using Thiele-Small parameters clearly, it offers lots of helpful tables and graphs to get to grips with sizing the box and port of a reflex loudspeaker.  
£14.95 Code: 1100



### Electrostatic Loudspeaker Design and Construction - Ronald Wagner

Step by step guide to the design and construction of a full range electrostatic loudspeaker, including basic operating principles. Strongly recommended for those wanting to either build, repair and restore or are just interested in electrostatics.  
£21.95 Code: 1080

### The Loudspeaker Design Cookbook, 5th edition - Vance Dickason

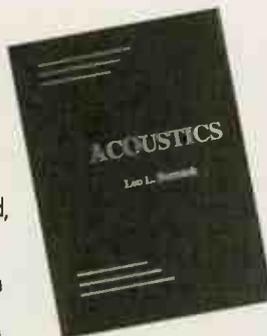
Best seller offers up-to-date design information for the home constructor. It uses modern Thiele-Small theory and parameters.  
£25.75 Code: 1090  
(Spanish version available this summer)

### Theory and Design of Loudspeaker Enclosures - J. E. Benson

Covers infinite baffle, reflex, passive radiator etc. in great detail with a highly mathematical approach making it unsuitable for beginners but highly authoritative to experienced designers.  
£27.95 Code: 1140

### Acoustics - Leo L. Beranek

From analogous electrical circuits important for modelling to microphones then loudspeakers (sealed, ported and horn) showing how theory influences practice in drive units. Also the behavior of sound in rooms.  
£43.95 Code: 1120



## AUDIO ANTHOLOGIES

### Audio Anthologies - When Audio Was Young

Six volumes to collect, covering one of the most exciting and important eras of hi-fi containing many ground breaking circuits and theory of all aspects of hi-fi design. A must for true enthusiasts.

#### Volume One: May'47 to Dec'49

Contents: 9.5W, 5W and 6.5W 6AS7G amps., 30W 300B amp., valve FM tuning indicator, 30W 211 power amp., cathode follower amp. using 6Y6, an adaptation of the Williamson amp., valve phono pre-amp., several horn and reflex loudspeaker designs.  
£16.95 Code: 1150

### Volume Two: Jan'50 to Jul'55

Contents: Ultra linear 6L6 design and operation of the Williamson, a direct coupled amp., Williamson type amp using 6AS5, 40W 845 push-pull amp., valve phono and line pre-amps., valves and loudspeaker damping, design and construction of reflex and horn loudspeakers.  
£16.95 Code: 1160

### Volume Three: Aug'52 to Jun'55

Contents: Simple valve phono stage, transformerless amplifier using 6082, 20W 5881 amp., 10W 6V6 amp., stereo valve pre-amp., high quality valve phono stage, a pre-amp for the Williamson, low distortion tone control pre-amp., binaural or stereophonic, transistor phono amp., corner horn loudspeaker, concrete horn loudspeaker.  
£16.95 Code: 1170

### Volume Four: Jul'55 to Dec'57

Contents: 18W 5881 amp., 4W single-ended tweeter amp., budget 11W amp., versatile bass/treble control, transistor theory, transistor pre-amp., transistor techniques, battery powered transistor phono pre-amp. and loudspeakers explained.  
£16.95 Code: 1180

### Volume Five: Jan'58 to Dec'59

Contents: Stereo valve multiplex decoder, 7W EL84 amp., valve active crossover and 20W treble amp./50W bass amp., monaural, binaural, monophonic and stereophonic explained, heterodyne FM multiplex adapter, transistor pre-amp., 60W EL34 amp., high power audio amps, hi-fi loudspeaker enclosure.  
£16.95 Code: 1190

### Volume Six: Jan'60 to Dec'61

Contents: Transistor pre-amps., feedback techniques, the coming of FM stereo, FM multiplex adapters, Tape recorders; distortion, frequency response and noise, 120W 6550 amp., loudspeaker efficiency.  
£16.95 Code: 1200

## SOLID STATE ELECTRONICS

### The Art of Electronics - P. Horowitz & W. Hill

Ideal book for beginner through to engineer. Each chapter takes you from the basic first principles through to full design and practical circuits.  
£40.50 Code: 1210



### The Art of Linear Electronics - J. Linsley-Hood

Concentrates specifically on analogue electronics going into detail on obscure topics like the drawbacks of feedback, as well as its advantages. Covers mainly solid state but also includes valves. A must for serious enthusiasts and budding designers.  
£18.95 Code: 1220

All prices include postage & packing (United Kingdom only).



## ORDER FORM



Please Send (Code No.) \_\_\_\_\_ (please enter codes clearly)

I Pay: WORLD AUDIO PUBLISHING LTD. £ \_\_\_\_\_ or please debit my Access/Visa card (Card No): \_\_\_\_\_

Exp date \_\_\_\_\_ Name \_\_\_\_\_ Signed \_\_\_\_\_

Delivery Address: \_\_\_\_\_

Tel (Day) \_\_\_\_\_ Please return to: W.A.P. Ltd., 64 Castellain Road, Maida Vale, London W9 1EX, ENGLAND

CREDIT CARD ORDERS TELEPHONE: 0171-266-0461

Tick if you do not want to be added to our mailing list

Contact us for overseas P&P charges. Please allow 28 days for delivery. All orders subject to availability. If further space is required please attach separate sheet.

# **The Hi-end**

- ▶ *for the discerning client...*
- ▶ *... audio fidelity by appointment*

The World's Finest  
Select Separates & Complete Systems

**HI-FI**  
**TV · VIDEO**  
**AUDIO VISUAL**  
**MULTI-ROOM INSTALLATION**

**0181 876 3355**

5 Rocks Lane • Barnes • London SW13 0DB

Open Monday to Saturday from 10.00 to 6.00

Credit Cards Accepted • Finance Arranged

Try Me & See Ltd/The Hi-end, 5 Rocks Lane, Barnes, London SW13 0DB

# **Try me & see**

*Mail Order – Worldwide*

**AMAZING PRICES GUARANTEED!**

Tel: 0181-878 0066

Fax: 0181-876 3399

World Radio History

# SOUND-BYTES

High Density Filler for Speakers and Stands

WEB SITE ADDRESS : <http://users.colloquium.co.uk/~bytes/soundbytes.html>



"Not only was the bass tighter and better defined, but midrange became better focused and treble more precise."

Dominic Baker.  
Hi-Fi World. June 1996

"listening tests proved conclusively to my mind that SOUND-BYTES are thoroughly effective"

Jonathan Kettle.  
CYBERFi. April 1996

"It'll improve your unfilled stands, budget or dear"

Ken Kessler.  
Hi-Fi News . July 1995

HALF THE COST OF LEAD SHOT,  
FOUR TIMES THE DENSITY OF SAND,  
FOR MASS LOADING....THERE IS NO SUBSTITUTE!

### RECOMMENDED BY

HARBETH  
ACCUSTICS

RAW

TARGET  
AUDIO

AP/LLC

RI IFA

KUDOS

Atacama Audio

ARMSTRONG

SOUNDSTYLE  
AUDIO SYSTEMS

Partington

REVOLVER

AVAILABLE MAIL ORDER FROM  
TEL : 0131 556 7901

*Colin Mackenzie's*  
**HI-FI-CORNER**

Scotland's No. 1  
Hi-Fi company

STILL ONLY £19.95 + £5 P&P

## Colin Mackenzie's HI-FI-CORNER

Scotland's No. 1  
Hi-Fi company

FOR MAIL ORDER  
1 HADDINGTON PL  
EDINBURGH  
TEL: 0131-555 7901

52 GORDON STREET  
GLASGOW  
TEL: 0141-248 2840

121 ROSE STREET  
EDINBURGH  
TEL: 0131-220 1535

44 COW WYND  
FALKIRK  
TEL: 01324-629011



### MAIL ORDER

#### COMPACT DISC ACCESSORIES\*

DENSEN  
CD MAGIC  
..... £9.95  
Demagnetise your  
system through the CD  
player!

CD REPAIR KIT  
.....£12.95  
Helps repair skip  
causing scratches on  
CDs, laserdiscs etc.

### MAIL ORDER

#### TURNTABLE ACCESSORIES\*

AUDIO TECHNICA  
RECORD CLEANING  
KIT..... £9.95  
Effectively removes dirt  
and dust from record  
grooves

AUDIO TECHNICA  
STYLUS CLEANER  
.....£2.95  
Powerful liquid cleaner  
to remove dust and  
dirt from stylus tip

\*FREE P&P IF PURCHASED WITH  
SOUND-BYTES (Otherwise £1)

#### Price Promise

We will beat or match any locally  
advertised genuine price

#### Quality Promise

If for any reason you are not satisfied with your  
original purchase we offer a 14 day exchange period

- Arcam
- Audiolab
- Audioquest
- Beyer
- Bose
- B&W
- Castle
- Celestion
- Denon
- Densen
- Harman
- Kelvin Cables
- Kenwood
- Micromega
- Mission
- NAD
- Onkyo
- Panasonic
- REL
- Ruark
- Sennheiser
- Sound-Bytes
- Soundstyle
- Tannoy
- Target
- TDL
- Teac
- Technics
- Thorens

VISIT OUR VIRTUAL SHOP!

<http://www.virtual-publishing/cyberfi/hlfishop/>



# TUBE TECHNOLOGY - TUBES WITH ATTITUDE!

Telephone:  
Melton  
Mowbray

# Encore!

(01664)  
823282

Superb sound and style from:

SUGDEN DENSEN UNISON PROAC OPERA RUARK  
TUBE TECHNOLOGY KESWICK AUDIO

East Midlands  
M1 - J23/J24 -  
30 mins  
Leam/Notts -  
15 mins

Accessories by: Partington • Target • Tripos • Fi-Rax • Keswick Audio

Evening/  
Weekend  
calls welcome.  
Demonstrations  
by appointment.

**HOT-ROX U.K.**

**POWER VACUUM TUBES**

## QUALITY VALVES

FOR ALL DEDICATED ENTHUSIASTS IN SEARCH OF PERFECTION

MAN SUPPLIERS OF SOVTEK

**OUR EXTENSIVE RANGE OF VALVES INCLUDE:**

6L6WGC	6L6WXT	6550	★ FAST FRIENDLY SERVICE
EL34G	EL34G+	6CA7	★ 24HR DELIVERY
6V6	5Y3	KT88	★ NO MIN ORDER
12AX7	12AT7	6SN7	★ BEST PRICES
EL84M	GZ34	6SL7	★ P&P JUST £1.50
12AU7	5U4G		★ VALUE FOR MONEY

**PLUS NEW SVETLANA SV6550C**

ALL ENQUIRIES WELCOME  
CHEQUES, VISA  
POSTAL ORDER

**HOT-ROX U.K.**  
10 AVONDALE ROAD  
CARLTON, NOTTINGHAM, NG4 1AF  
TEL/FAX: 0115 9873163 MOBILE: 0468-118375  
HOT-ROX U.K. A SOUND INVESTMENT!

## Cable Talk

Interconnects & Speaker Cables

The full range of our  
Award Winning Cables are  
available from your  
local dealer.

PLEASE TELEPHONE **01252-373434**  
FAX **01252-371818** FOR FURTHER INFORMATION

## CLASSIQUE SOUNDS (LEICESTER) VINTAGE HI-FI SPECIALIST

### WANTED

VINTAGE AND MODERN VALVE HI-FI

TOP PRICES PAID

FREE COLLECTION OR CARRIAGE PAID.

WORKING OR NOT.

### AMPLIFIERS

QUAD, LEAK, RADFORD, ROGERS, AVANTIC, LOWTHER, BEARD, AUDIO INNOVATIONS, CHAPMAN, CROFT, EAR, AUDIONOTE, LUMLEY, REVOX ETC.

### SPEAKERS

QUAD ELECTROSTATIC, LOWTHER, TANNOY, IMF ETC.

### TURNTABLES

GARRARD 301, GARRARD 401, THORENS 124/224 ETC.

### VALVES

MULLARD, OSRAM, BRIMAR, GEC, KT66, KT88, EL34, EL84, GZ32/34, 3c0B, PX4, PX25 ETC.

### RECORDS

CLASSICAL, JAZZ, BLUES ETC  
FULL OR PART COLLECTIONS.

### MISCELLANEOUS

HIFI YEAR BOOK. OLD CAPACITORS. OLD CARBON RESISTORS.

### ALSO WANTED

QUALITY MODERN/TRANSISTOR HIFI EQUIPMENT  
SPEAKERS, RECORDS DECKS, AMPLIFIERS, TUNERS ETC.

### FOR SALE

1970-1993 HIFI NEWS/RECORD REVIEW BINDERS. COMPLETE £150.

\*\*\*\*\*  
VINTAGE VALVE AMPLIFIER REBUILDS. FROM £100.00. ADD  
£20.00 FOR SAME DAY SERVICE. I.E., DELIVER 9AM COLLECT 5PM  
SAMEDAY. 12 MONTHS GUARANTEE ON ALL PARTS FITTED  
\*\*\*\*\*

### FOR SALE

#### PRE-POWER AMPLIFIERS

QUAD IIS (VARIOUS).....	EPOA	AUDIONOTE 070 VALVE MINT.....	£695
TANNOY HF200 + PRE-AMP.....	EPOA	DPA CT480 PRE AMPLIFIER.....	£295
LEAK TL25- CHAMPAGNE.....	EPOA	CROFT MICRO A PREAMPLIFIER.....	£200
LEAK STEREO PREAMPLIFIER.....	EPOA	AVANTIC SPA11.....	EPOA
ROGERS CADET POWER.....	EPOA	CROFT SUPER MICRO PREAMP.....	£200
LEAK TL12+ AMPS. (VARIOUS).....	EPOA	DNM PREAMP + POWER SUPPLY.....	£595
QUAD 44.405/2 BOXED.....	£395	PAIR ROGERS JUNIOR. AV COND.....	EPOA
ROGERS CADET MONOS (PAIR).....	£225	CROFT SERIES 6 NEW 100W/CH.....	£1,500
EAR 859 13W S/ENDED, NEW.....	£999	QUAD 33/303 PRE-POWER.....	£195
AUDIO INNOVATION S300, EXPT.....	£299	LUMLEY 1030, 15W CLASS A MINT.....	£550
NVA A40 P50 PRE-POWER.....	£199	CROFT EPOCH NEW 2YRS GTEE.....	£550
ION OBELEISK3X + XPACK1, MINT.....	£300	EAR 834P MM/MC PREAMP, NEW.....	£399
RCA NEW ORTHOPHONIC PW/R. AMP.....	EPOA	ROSE RV235 PREAMPLIFIER.....	£375
LUMLEY VTP 1000 LINE PRE.....	£295	AUDIO LAB 8000A INT.....	£275
LUMLEY PV1 PREAMP (£1500).....	£795	LEAK STEREO 20.s (VARIOUS).....	£EPOA

#### TURNTABLES

GARRARD 301/401 CHASSIS.....	EPOA	THORENS TD160 MISSION 774.....	£99
PINK TRIANGLE TOO/HELIUS.....	£595	THORENS TD160.....	£80
THORENS TD160MAYWARE.....	£99	GOLDRING 699 CHASSIS.....	£35
THORENS TD124 VARIOUS.....	EPOA	MICHELL SYNCHROMOTH.....	£250

#### SPEAKERS

QUAD ELECTROSTATICS.....	EPOA	IMF TLS50 MINT BOXED.....	£250
BOSE 305M EX. COND. (£430).....	£195	TANNOY CANTERBURY SILVER UNIT.....	£425
MORDALUNT CORNWAY RIBBON TWEET.....	£195	FANE QUARTET, PAIR, VERY RARE.....	£100
LUMLEY LMS MINT BOXED.....	£595	LINN SARA ISOBARICS STANDS.....	£299
MERIDIAN M303 STAMOS ACTIVE.....	£350	JAMO SILHOUETTE, MINT BOXED.....	£199
ROGERS LS36 MONITORS 15 OHM.....	£250	CASTLE PEMBROKE BLACK.....	£175

#### OTHER ITEMS

GARRARD 301/401/124 READY TO VENEER/PAINT, VERY HEAVY.....	£175	ACOS LUSTRE ARM BOXED.....	£50
NAKAMICHI ST-7E TUNER.....	£400	QUAD FM1 LW/MW/SW.....	EPOA
LEAK TROU/GHLINE 2.....	EPOA	QUAD FM1/STEREO DECODER.....	£80
LEAK TROU/GHLINE 3, VARIOUS.....	EPOA	SME3009.....	£60
MOTH MM/MC PREAMP/PWR SUPPLY.....	£149	LOWTHER PM6 ORIGINAL MAGNETS.....	EPOA
LENTEK MC PREAMPLIFIER.....	£49		

\*\*\*\*\*  
MAF STANDS FOR OLD ELECTROSTATIC SPEAKERS NOW STOCKED @ £175.00 PAIR

MAF STANDS FOR NEW ELECTROSTATICS @ £275.00 PAIR

### TRANSLUCENT

99.99% PURE SILVER INTERCONNECT CABLES.  
5 METRE.....£60 1 METRE.....£80  
7 DAY MONEY BACK GUARANTEE IF NOT BETTER THAN YOUR EXISTING  
CABLE.  
99.99% PURE SILVER WIRE. 0.5MM.....£4.95 PER METRE.  
SUITABLE FOR AMPLIFIER OR SPEAKER REWIRE.

TEL/FAX PAUL GREENFIELD ON 0116 2835821 OR 0802 213740 ANYTIME  
CLASSIQUE HOUSE, 61 AYLESTONE DRIVE, AYLESTONE, LEICESTER, LE2 8QE

# MEASURED PERFORMANCE

## AMPLIFIERS

### ORELLE SA-100

A very well behaved amplifier on the test bench, the SA-100 managed to deliver a good 50watts of power into an 8Ω load and 60watts into a 4Ω load.

Frequency response wise the Orelle fared well, particularly at the bottom end. The 1dB limit span was between 4Hz and 25kHz.

Noise and channel separation figures bore resemblance to a machine of greater than average quality, whilst input sensitivity on its auxiliary inputs was 260mV. This is quite standard and will be driven easily by most signal sources.

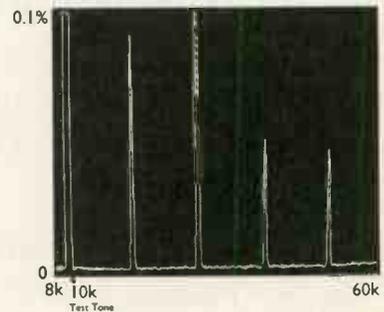
Distortion figures varied little with power output, giving around 0.02% at 1kHz

for any output level although, as is typical, they did increase markedly with frequency.

All in all a well designed integrated amplifier. HB

Power	50watts
CD/tuner/aux.	
Frequency response	4Hz-25kHz
Separation	78dB
Noise	-90dB
Distortion	0.16%
Sensitivity	260mV
dc offset	-5.1/-2.8mV

Distortion



### GAMMA ACOUSTICS RHYTHM

Gamma Acoustics' Rhythm is a single-ended valve amplifier using the 211 valve in the output stage to deliver 8 watts into an 8Ω load. Frequency response at ±1dB was limited between 39Hz and 18.3kHz.

Other measurable figures weren't at the highest level of acceptability either with noise at -70dB and sensitivity through line and CD stages a very unusual 18mV.

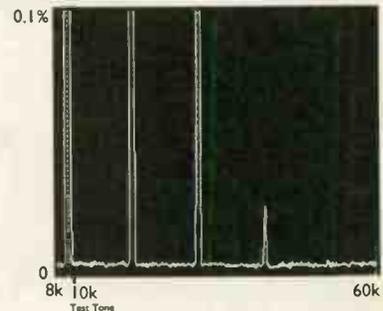
Harmonic distortion measurements gave fairly high readings with a 10kHz reading of 1% at normal listening levels reaching 4% at full power. Readings were lower at low

frequencies, but not by much.

On a school teacher's report this would read 'a reasonable effort, but must try harder'. HB

Power	7.6watts
CD/tuner/aux.	
Frequency response	39Hz-18.3kHz
Separation	70dB
Noise	-70.8dB
Distortion	1%
Sensitivity	18mV
dc offset	0/0mV

Distortion



### QUAD 77 PRE/POWER

The Quad 77 power amplifier through its Aux input managed a big 79watts into 8Ω and 115watts in a 4Ω load. The frequency response was more than adequate too, flat between the 1dB limits of 8Hz and 28kHz.

Midband harmonic distortion at lower power levels was measured at a very low level of 0.008% whilst increasing very slightly at full power. High frequency distortion behaved in much the same way, though starting at 0.07%. As is clear from the trace, some inharmonic signal distortion was also detected, mostly beyond the audio band.

The 77 preamp. has both an MM and MC phono stage. Both have three sensitivity settings following the line stages in similar fashion. The MM (Moving Magnet) stage had a -1dB roll off response of 13Hz to 22kHz with a 1dB peak at 50Hz. The MC (Moving Coil) stage fared less well with a 1dB limit response of 32Hz to 24kHz. I would expect the MM stage to have better low-end sonic results.

There was a factor of 10 difference in sensitivity between the two stages. At low

sensitivity settings the results were 8.5mV and 0.85mV for the MM and MC stages respectively. Given the choices on inputs both these stages should tolerate most cartridge signals.

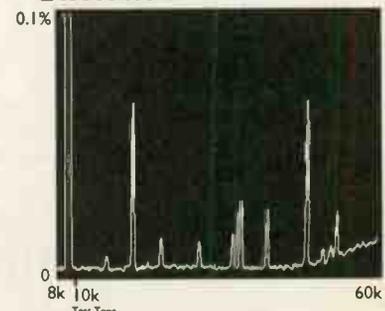
Input impedance of the MM stage was measured at 27kΩ paralleled with 100pF with the MC stage having a 47Ω input. HB

Power	80watts
CD/tuner/aux.	
Frequency response	8Hz-28kHz
Separation	88.6dB
Noise	-77.1dB
Distortion	0.07%
Sensitivity	320mV
dc offset	-5.2/-19.7mV

Disc MM	
Frequency response	13Hz-22kHz
Separation	68.7dB
Noise	-95.1dB
Sensitivity	8.5mV
Overload	100mV

Disc MC	
Frequency response	32Hz-24kHz
Separation	28.4dB
Noise	82.1dB
Sensitivity	0.85mV
Overload	9mV

Distortion



# AUDIOJUMBLE

## "96"

SALE OF VINTAGE AND  
MODERN  
AUDIO EQUIPMENT AT  
THE ROYAL VICTORIA HALL  
SOUTHBOROUGH,  
TUNBRIDGE WELLS, KENT.  
SUNDAY 14TH JULY  
10.30 AM - 4.30pm  
ADMISSION £2.00  
STALLHOLDERS £15.00

ALL ENQUIRIES:  
01892 - 540022

REFRESHMENTS AVAILABLE

## THE EMPORIUM

28 St, Nicholas Street, Diss, Norfolk.  
Tel/Fax: 01379 650744

### FOR SALE

QUAD ESL63 black with stands 6 mths gtee.....	£1500
QUAD EL557.....	£450
QUAD 44.....	£200
QUAD 33.....	£70
QUAD 66/606.....	£800
QUAD 50D pair of monoblocks.....	£250
ALBARRY M408 monoblocks pair.....	£400
PIONEER VSP200 add on dolby pro logic.....	£150
MISSION CYRUS 2.....	£150
SUGDEN C51/PS1/PS1 150 watts per channel in orig packaging, approx 20 years old.....	£350
QUAD FM3 tuner.....	£100
QUAD 22/II/III.....	always in stock
MUSICAL FIDELITY PRE3A.....	£200
CROFT super micro old style (Resprayed).....	£180
ELMDON passive pre.....	£90
AUDIO INNOVATIONS L1 line valve pre.....	£200
AUDIO INNOVATIONS 200 preamp.....	£200
ROSE RV23 valve preamp.....	£300
VTL deluxe valve preamp.....	£400
MERIDIAN 201 pre.....	£350
MERIDIAN 203 dac.....	£200
QED DIGIT.....	£80
MERIDIAN 206 cdplayer.....	£400
MAGNUM IA125 chunky integrated amp.....	£200
ROGERS LS7.....	£200
MISSION 753 LIGHT OAK boxed.....	£500
MONITOR AUDIO STUDIO 6 rosewood lovely, sweet, but detailed sound.....	£500
LOWTHER ACOUSTAS.....	cabinets and drive units available.
GOODMANS.....	AXIOM 301,201,402 etc
PINK TRIANGLE EXPORT imp. Nov 1992 brand new bearing.....	£450
ROKSAN XERXES & PSU TABRIZ Z1 arm.....	£500
VOYD VALDI ext psu 25mm platter boxed AT arm.....	£395
RADFORD SC24/SPA50.....	£300
RADFORD FM2.....	£100
REVOX B77 mk2 4track 3.75/7.5ips with brand new heads.....	£600
ORTOFON MC2000 boxed.....	£200
RADFORD STA25 rebuilt.....	£425
PS AUDIO passive pre & model 2 power amp.....	£300
SME 3009 II imp.....	£50
acos lustre arm (SME MOUNT).....	£30
DECCA FFSS ARM.....	£30
TANNOY GRF LOUDSPEAKERS (15inch drivers).....	POA

WANTED Good Quality Second hand & VINTAGE HiFi EQUIPMENT

### EQUIPMENT SUPPORT

## Mana Equipment Tables

- Superb upgrade for any hi-fi system; like changing every component and buying a new music collection into the bargain.
- Dust-trap par excellence; more addictive than crack cocaine.

"Now, I can only say that until I had the Mana equipment table fitted, my hi-fi system was at best half-cocked."

Alan Sircom  
Hi-Fi Choice March 1995



Photo: Paul Hartley Studios

"Mana Tables are not cheap. But they are essential if you want to unlock your system's true potential." **BEST BUY**  
Malcolm Steward, Hi-Fi Choice February 1996

For information on MANA products please contact:

## Mana Acoustics

59 Jubilee Close, Pinner, Middlesex HA5 3TB  
Tel/fax: 0181 429 0118 Tel: 0181 868 2788

MERIDIAN LUMLEY REFERE  
AUDIO RESEARCH MARTIN  
CASTLE ORELLE MICHELL  
TANNOY ONKYO ROTEL MA  
SILVER SOUNDS COGAN HA  
TEAC AUDIO TECHNICA NA  
VALVES MAXELL ORTOFON  
DYNAUDIO APOLLO  
MAF AUDIO ALCHEMY  
GOLDRING MILTY SOU  
THETA SILTECH  
CABASSE BXOS ROTEL  
STRATOSPHERE TUR  
CONVERGENT AUDIO  
FIGURATION GRAH  
TRICHORD THX- HOM  
MERIDIAN LUMLEY  
AMPS MUSICAL FIDE  
LOGAN CASTLE XTC  
ONKYO ROTEL NAD P  
SOUNDS COGAN HAL  
RESEARCH CUPS OF  
TEAC AUDIO TECHNIC  
BILLINGTON VALVES  
STANTON CELESTION  
CABASSE CONVERGE  
MONSTER-MERIDIAN  
AUDIO RESEARCH MU  
MARTIN LOGAN SON  
MICHELL RUARK STAX  
TANNOY NAD CELESTION ON  
LEXICON PROJECT SILVER SO  
DNM HOME DEMONSTRATIONS  
DEMONSTRATION ROOM SERV  
TWO YEAR GUARANTEE ALL MA

## Harrogate



hi-fi

NCE MUSICAL FIDELITY  
LOGAN SONUS FABER  
RUARK STAX COPLAND  
RANTZ LEXICON PROJECT  
LL DNM AUDIO RESEARCH  
D BEYER BILLINGTON  
STANTON CELESTION  
TDL SOUNDSTYLE  
ALPHASON QED  
ND ORGANISATION  
B&W CABLE TALK  
J A M O  
NTABLE AIRPOD  
T R A N S  
AM TONEARM  
E CINEMA  
REFERENCE VALVE  
LITY MARTIN  
ORELLE TANNOY  
ROJEC T- SILVER  
LDNMA U D I O  
C O F F E E  
A B E Y E R  
MAXELL ORTOFON  
D Y N A U D I O  
NT AUDIO  
GENESIS CABLES  
SICAL FIDELITY  
US FABER CASTLE  
COPLAND  
KYO ROTEL MARANTZ  
UNDS CHORD LUMLEY  
TRY BEFORE YOU BUY  
ICE DEPARTMENT FREE  
JOR CREDIT CARDS ACC

15 COMMERCIAL STREET, HG1 1UB (01423) 504274

# LOUDSPEAKERS

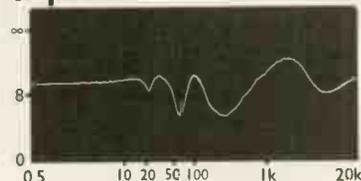
## KEF CODA 9

KEF's Coda 9s have a very smooth response right across the audio band, showing fine engineering. There is a small peak at 800Hz, but it is narrow and low enough not to effect their balance strongly. Bass extends well down too, so I'd expect quite strong and deep bass from these floorstanders.

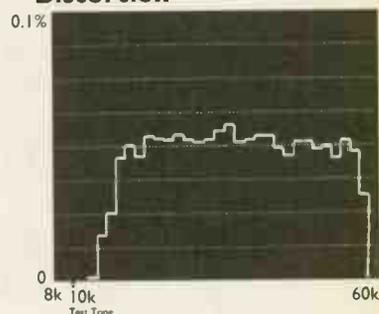
Producing 88dB at 1m for a nominal watt (2.83V) pink noise input signal, the Coda 9s should go loud with few watts. Overall impedance measured 8.1Ω, but the impedance curve shows some sharp rises and falls indicating reactivity. All the same

most modern amplifiers should drive them easily. I'd recommend 30watts or so for best results. DB

Impedance



Distortion



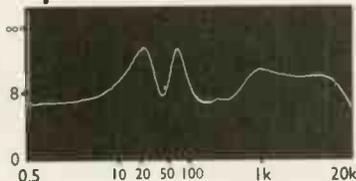
## JBL S2600

Congratulations have to go to JBL for the S2600s, they have one of the smoothest and flattest responses I've measured from a horn. Our plot doesn't show how flat they really are in fact, because I had to pull back further afield to get good integration between midrange and bass. In the near field the horn gave a near ruler flat response from around 900Hz up to 16kHz. This will give them a balanced and even sound. There was quite a lift in the bass, but this was in our smallest test room. In a larger room I'd expect bass to be flatter and deeper; this was verified during listening tests.

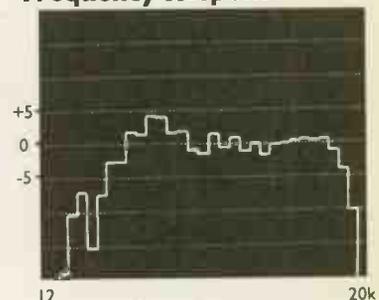
Surprisingly, sensitivity wasn't as high as I'd expected. They still deliver a very healthy 90dB which is high by domestic standards though. With a smooth 8Ω impedance, the JBLs are easy to drive and will certainly go loud with few watts. An ideal candidate for

valve amplification, I'd recommend up to 20watts for normal listening and 50watts for serious level in large rooms. DB

Impedance



Frequency Response



## TANGENT MONITOR 2

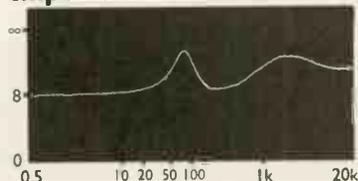
Tangent's Monitor 2s aren't perfect. In fact they have a serious problem, but it's one they get away with subjectively. The tweeter is out of phase with the bass unit, producing the strong suck-out shown in our frequency response plot. I reversed tweeter phase and my suspicions were confirmed as the gap filled in to produce a peak around 3-4kHz. This however was strong enough to make them aggressively bright, so I suspect they have been set out of phase to alleviate this. It's a shame, because all that's needed is a little fine tuning in the crossover for the Monitor 2s to produce an extremely flat response.

Sensitivity measured just 83dB using a nominal watt pink noise signal (it would be higher but for the midrange dip). High overall impedance of 10.5Ω was partly to blame. The

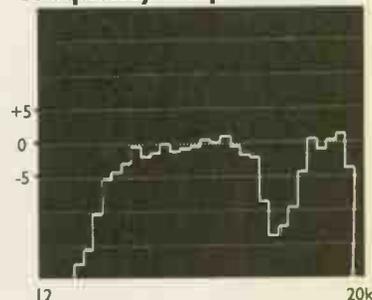
impedance curve was impressively smooth, a good feature. It indicates that they are a mainly resistive load, matching well with a wide range of amplifiers, even though they'll need plenty of volts to go loud. I'd recommend amplifiers capable of producing

40-50watts - and also that Tangent invest a little time fine tuning the crossover. Then, at £60, they would be exceptional value. DB

Impedance



Frequency Response



# Sound Connections

• Mail Order Suppliers of Quality HI-Fi Accessories •

• Tel/Fax: 0151 348 1988 •

**NEW THIS MONTH: THE EXCELLENT BLACK DIAMOND RACING SHELF AND PYRAMID CONES.**

## FOR A WIDE RANGE OF AUDIO ACCESSORIES

Speaker cables • Interconnects • Headphones • Cartridges • Tonearms • DACS • Equipment Tables • Isolation Products • RCA and Banana Plugs

## AGENCIES INCLUDE

Chord Company • Sonic Link • DNM Reson • Audio Quest • QED • Van Den Hul • Ixos • Nordost • Sennheiser • Beyer • Stax • Ortofon • Sumiko • Goldring • Target • Sound Style • Kontak • Kimber • Lyra • XLO • Tri Chord • WBT • Townshend • Audio Alchemy • SME •

**WE OFFER A HOME TRIAL SERVICE ON A SELECTED RANGE OF CABLES AND ACCESSORIES**

Please tele/fax for our winter product and price list. Mon-Fri 9.30am to 8.00pm (Sat to 1.00pm)  
52, GREEN LANE, GREAT SUTTON, SOUTH WIRRAL, CHESHIRE, L66 4LE.

# Are you making the right connections?

Send for Britain's biggest catalogue of specialist cable and connections.

All available by mail order.

Phone 081-9429124 or clip the coupon for your Free copy.

## CUSTOM CABLE SERVICE

PO Box 4007, London SW17 8XG

Please send me your FREE Custom Cable Catalogue

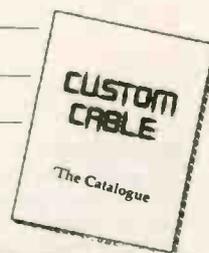
Name \_\_\_\_\_

Address \_\_\_\_\_

Postcode \_\_\_\_\_

NO FURTHER INFORMATION REQUIRED

Send to: Custom Cable Service  
PO Box 4007  
London SW17 8XG



## HEATHERDALE AUDIO LTD.

202 FINDON ROAD, WORTHING, WEST SUSSEX. BN14 0EJ  
TEL. 01903-872288 OR (AFTER HOURS) 0860 660001 FAX. 01903-872234

### HEATHERDALE PRE-OWNED GUARANTEED EQUIPMENT.

#### EXPORT FACILITIES AVAILABLE

AUDIO NOTE DAC 3 £995  
STUDER A807 Pro. tape recorder MINT £3750  
AUDIO RESEARCH D200 (£3248) offered for £2495  
ORTOFON MC15 Super 11 cartridge. £65  
SOLSTICE AAD speakers with stands. £650  
TRIO KR 8010 Receiver (ex cond.) £195  
TRIO XX1030 cassette deck (3 head) £95  
AUDIO RESEARCH Litzlink interconnect (from) £200  
AUDIO RESEARCH D400MK11 P/amp (ex demo) £4950  
DNM Primus Pre-Amp with PSU £150  
PIONEER 4Chan. receiver QX 949A £395  
MARANTZ Quadradial 4 receiver £295  
THORENS TD 126 MK 3 turntable £250  
McINTOSH C28 Pre amp (mint) £995  
CLEARAUDIO turntable/arm/cartridge (demo) £2795

BRAUN Al int. amp/T1 tuner  
AUDIONOTE M7 tube pre-amp (£14650)  
APOGEE Centaur minor speakers  
REGA RB 250 (silver wired) tonearm  
REVOX A700 Tape Recorder (semi pro.)  
MAF heavy turntable stand  
B&O CD 50 Beogram CD player  
ACUPHASE DP80/81L transport and DAC  
ADC Phase 2 Phono cartridge (new)  
FIDELITY Research FR-101 SE cartridge  
NAD 9200 cartridge  
GRACE F-9 cartridge  
GRADO G-1 cartridge  
CAMBRIDGE P 50 integrated amp.  
TRANSPARENT Ref. interconnect 15' st. pair  
TRANSPARENT Ref. interconnect 1mtr. pair  
TRANSPARENT Ultra bi-wire sp. cable 12' set

£495 TRANSPARENT Phono cable 2.5 mtrs. £395  
£5995 ACCUPHASE E203 Integrated Amp £695  
£750 GENESIS model 111 speakers mint £2495  
£95 JADIS Defy 7 stereo amp. mint £3695  
£650 LINN aktiv X over + DIRAK psu £450  
£250 LINN LK 100 power amp x2 each £350  
£250 LINN Isobariks with stands (active) £795  
£3995 STEREO K788 40 watt valve amp £750  
£49 NAKAMICHI DR3 cassette deck £250  
£40 AUDIO INNOVATIONS 200 power amp £195  
£25 AUDIO RESEARCH Classic 30 amplifier £1695  
£95 AUDIO RESEARCH DAC 1 £1295  
£45 ORACLE Alexandria turntable £750  
£50 S.M.E TV tonearm £595  
£1595 MICROMEGA DUO BS 2 DAC £495  
£1295 McINTOSH Mac 40 amps/C22 pre-amp (original) £2495  
£2195 QUAD 33/303/FM3 (excellent cond.) £275

ALL USED CARTRIDGES ARE CHECKED UNDER A MICROSCOPE BEFORE BEING OFFERED FOR SALE.

MAIN DEALERS FOR QUAD.  
VISA - SWITCH - MASTER CARD - DINERS CLUB WELCOME.  
WE TAKE PART EXCHANGE ON NEW & USED STOCK



## ORANGES & LEMONS

Juicy fruit from London's freshest hi-fi/home cinema retailer. Free home installation + credit cards, 0% credit finance available.

B & W, CABLETALK, CHORD CO, DENON, EPOS, KEF, MARANTZ, MICROMEGA, NAD, NAIM, NEAT, QUAD, REGA, ROKSAN, ROTEL, ROYD, RUARK, SOUNDSTYLE, STANDS UNIQUE

Now in our second fruitful year

THE INNOVATIVE  
AUDIO RETAILER

0171 - 924 2040

61/63 WEBBS ROAD, CLAPHAM SW11

## RESTORATION OF CLASSIC EQUIPMENT

ELECTRONICS ENGINEER (DEGREE/MAES) WITH OVER 40 YEARS EXPERIENCE AND SPECIALIST KNOWLEDGE OF QUAD, RADFORD, LEAK, ROGERS AND ARMSTRONG, ETC. EXTENSIVE FACILITIES ENABLE ORIGINAL STANDARDS WITH DETAILED REPORTS OF WORK CARRIED OUT. APPARATUS IS DEMONSTRATED PRIOR TO CLIENTS DEPARTURE. AVAILABLE 7 DAYS A WEEK. VALVE TESTING A SPECIALITY.

**CIRCUIT DATA AND AUDIO EQUIP ON OFFER...**

PLEASE ENQUIRE

TEL 0181 504 5467 WOODFORD, ESSEX

# LOUDSPEAKERS

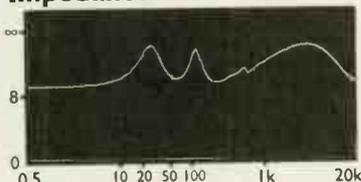
## WHARFEDALE VALDUS 300

The Valdus 300s are an interesting loudspeaker, certainly in measured terms, combining many strengths. Frequency response is impressively smooth, from low bass right through to upper midrange. Above this there is a shallow dip, around 2dB, which will remove some sparkle, but the response peaks again around 12kHz so I'd expect them to create a good impression of detail and insight all the same.

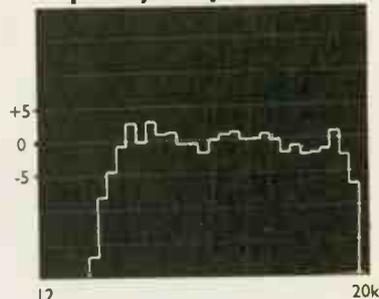
Wharfedale have balanced the drive characteristics of the Valdus 300s well too. They are sensitive, producing 89dB at 1m for a nominal watt (2.83V) pink noise signal, and overall impedance is high at 13Ω so they won't demand high current either. This

means they will go loud with few watts. The impedance curve is smooth too, indicating they are a mainly resistive load; again this will make them easy to drive and compatible with a wide range of amplifiers. Very good. DB

Impedance



Frequency Response



# TUNER

## HARMAN KARDON TU-950

The flat audio frequency response of this tuner will ensure it sounds tonally smooth, treble roll-off above 12kHz ensuring that neither sharpness nor brightness intrude.

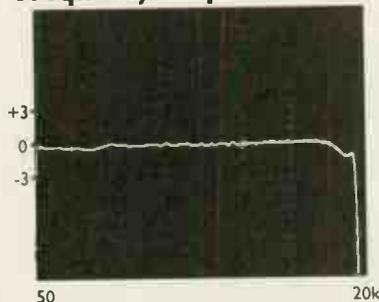
At full quieting, which requires 1mV or more from the aerial - normal enough - hiss sank to -74.5dB, lower than usual and low enough not to be audible even during Radio 3 silences. Distortion was also well controlled, measuring 0.3% second harmonic, as our analysis shows.

Harman have provided effective pilot/sub-carrier filtering and audio output was usefully high at 750mV.

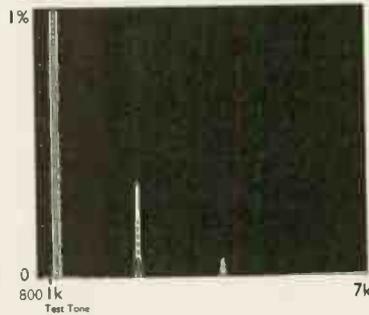
Alternate channel selectivity was well balanced, measuring 80dB above and below (+/-0.4MHz) a wanted signal. Stereo sensitivity was satisfactory at 30μV, if not class winning.

In all areas, the TU-950 measured well. It has no foibles or weaknesses. NK

Frequency Response



Distortion



Frequency response  
Stereo separation  
Distortion (50% mod.)  
Hiss (CCIR)  
Signal for minimum hiss

5Hz-12kHz  
33dB  
0.3%  
-74dB  
30mV

Selectivity (at 0.4MHz)  
Sensitivity  
mono  
stereo  
signal strength meter:

80dB  
2.5μV  
30μV  
none

# CASSETTE

## TECHNICS RS-AZ7

The new form of replay head used in this deck is a success, but the rest of the deck did not complement it. Head azimuth alignment was poor, so treble roll-off occurred - ironic considering the reduced head gap span was meant to alleviate, if not eliminate, this problem. Poor set up has negated this advantage. Replay frequency response was intrinsically flat, especially at low frequencies - a good result.

The RS-AZ7 could record high levels onto tape (e.g. +3.8dB MOL onto metals), although not Nakamichi levels (+6dB MOL onto metals). Its tape tuning system managed well with metals, chromes and ferrics, but metals (see analysis) had slowly rising treble. Chromes and ferrics tuned flatter.

Noise from the head was lower than usual, leading to good all-round noise figures, although Dolby C did not give quite the reduction (-18dB) hoped for (-20dB).

The transport was poor, suffering significant capstan wow and flutter. I'd expect this to detract from tonal purity, adding a wiriness (wow) and some paperiness.

The RS-AZ7 needs a better transport and more care in set up at the factory. NK

### REPLAY (pre-recorded tapes)

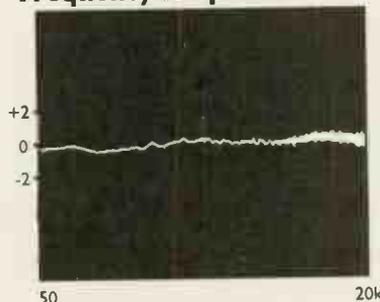
Frequency response (-2dB) 20Hz-12kHz  
Speed accuracy +1.3% fast  
Hiss (70uS, Dolby out) -65dB

### RECORDING (blank tapes)

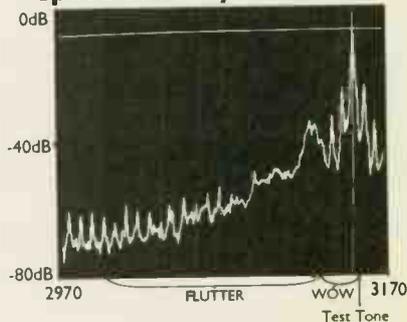
Frequency response (IEC Primary Refs.)  
ferric (IECI) 20Hz-17kHz

chrome (IECII) 20Hz-18kHz  
metal (IECIV) 20Hz-20kHz  
Separation (1kHz) 56dB  
Distortion (315Hz) 0.8%  
Hiss (70uS, Dolby out) -57dB  
Speed variations (DIN total) 0.14%  
Flutter energy (3-3.13kHz) -25dB  
MOL/SAT (IEC Refs) 315/10k  
IEC I (ferric) 4.4dB/-10dB  
IECII (chrome) 2.2dB/-8dB  
IECIV (metal) 3.8dB/-1.5dB

Frequency Response



Speed Stability

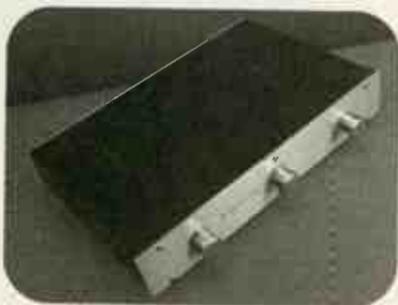


Campion

by

**SONNETER**

*Our Amplifier Your Music*



*"It's almost too good to be true...utterly gripping" Eric Braithwaite Hi-Fi World Jan '96  
"...exceptional value for money." Hi-Fi News & R.R. Dec '95*

Hand Crafted in the U.K. by F.T.M. Marketing Limited.  
PO box 163c, Esher, Surrey. KT10 0YH  
Tel/Fax: 0181 450 5433 or Fax: 01372 470053

ALSO AVAILABLE COMPONENTS

AV SYSTEMS

ACCESSORIES

**FRIENDS TO THE  
★ STARS LTD. ★**

Bespoke support systems for loudspeakers  
and audio equipment



Custom built  
loud speaker stands  
and equipment  
supports designed and  
built by international  
sound engineer Andrew  
Corrigan and weld  
artist Micky Bolton.  
Personal designs to  
suit your listening  
environment both  
aurally and visually.

For further details or to discuss your individual  
requirements please call.

TEL: 0181 961 0354

or  
FAX: 0181 963 1527

WE ARE PROUD TO BRING YOU  
ANOTHER FIRST 211/VT4C  
PHONO INTEGRATED AMPLIFIER  
16 WATTS- PURE SINGLE ENDED  
MUSICAL MAGIC

**ONLY £2499.00**

**TRUE HIGH END  
ONE DIFFERENCE**

**AFFORDABILITY??**

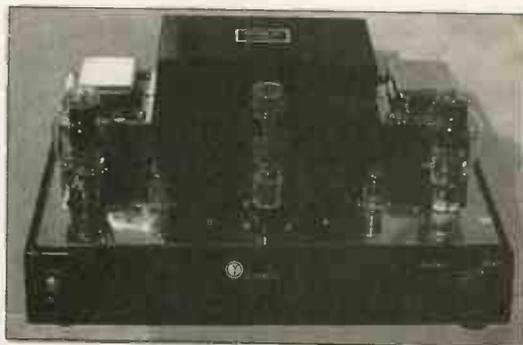
Unsurpassed value for money  
Triode single ended amplification  
from £699.00 to £98,000.00

**Tel. 01753 526939**

**Fax. 01753 532262**

DISTRIBUTOR/DEALER  
ENQUIRIES WELCOME  
GAMMA ACOUSTICS IVY  
LODGE 81 SUSSEX PLACE  
SLOUGH ROYAL BERKSHIRE  
SL1 INN ENGLAND.

# GAMMA RHYTHM



**WHY DO I ALWAYS NEED TO  
COMPROMISE?  
AFFORDABLE HIGH END - IS IT TOO  
MUCH TO ASK?  
CALL TO ARRANGE TO HEAR THE ONLY  
AFFORDABLE ALTERNATIVE**

"The Gamma is especially skilled at placing the  
listener in the position of a observer at alive  
event"

This amp has a raw vitality and realism that the  
others can't match. (Hi-Fi News & RR March)

"The Gamma RHYTHM REF (æon) is a  
welcome new comer to the single ended fold  
the design

offers the sort of acoustics treasures that are  
usually the domain of far more expensive  
amplifiers, "Gamma is to be applauded for this  
exciting new product!" (Hi-Fi Choice Jan. '94)

"the Gemini is a peach. Switch it on leave it for  
a couple of minutes

to settle down and (once run in) it will give a  
truly amazing sound. CD,  
radio broadcast tape can all sound stunning  
through this devise

the Gemini will charm the very best out of your  
music collection.

for £699 you'd be hard pressed to match this  
design for sheer sound quality  
and enjoyment (Hi-Fi Choice March '95)  
the immediate effect of this new amp was  
warmth and funkiness.

"Suddenly it had soul" "I had a clearer idea of  
what they were feeling"

"the Gemini offers a small footprint with a  
difficult to beat price" (Hi-Fi News & RR Feb.  
'95)

There's a hugely endearing quality about the  
Gemini sound, " It has the most attractive  
price tag: £699 is small money for a decent  
valve amp, and decent the Gemini is." (What Hi-  
Fi Feb. '95)

**BUT DON'T TAKE THEIR WORD COME  
AND BE HAPPILY SURPRISED!**

# CARTRIDGE

## WILSON BENESCH HYBRID

This cartridge is a high-ish output moving coil type, for use with moving magnet inputs possessing a 47k input impedance. Volume will have to be cranked up a bit, but most amplifiers will be driven to full output on peaks and hiss should not be a problem.

Tracking ability was mediocre, but satisfactory for most records. Vocal peaks may induce some strain, since midband performance was below class standards set by low output MCs. I suspect this is the price paid for high output, extra coil turns increasing tip effective mass.

Tracing distortion was low (0.5%) and correct vertical tracking angle of 22degrees ensured low distortion from vertical modulation components (L&R stereo information).

Poor mechanical generator alignment gave unbalanced channel separation at

20dB/30dB, with the body upright. Tilting it by a very obvious 10degrees or so gave a balanced 25dB/25dB. This will move stereo stage centre off-centre.

Frequency response was smooth and peak free, displaying a slow downward trend toward high frequencies, as our analysis shows. Inner groove tracing loss was reasonably low, showing good tip shape. All the same, overall, this cartridge will have a warm tonal balance, with less sparkle and air than most. It should also sound clean and relaxed though. NK

Tracking force	1.8-2gms
Vertical tracking angle	22degrees
Frequency response	20-20kHz
Channel separation	25dB
Tracking ability (300Hz)	
lateral	63µm
vertical	45µm

lateral (1kHz)	15cms/sec.
Distortion (45µm)	
lateral	0.5%
vertical	2%
Output (5cms/sec rms)	1.2mV
Channel imbalance	0.5dB

Frequency Response



# CD PLAYERS

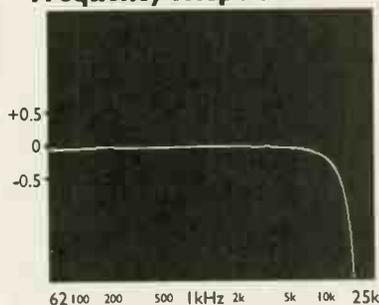
## TRICHORD GENESIS

The Genesis player is based on the Pioneer PDS-504, but modified by Trichord. Its frequency response shows strong treble roll-off, 1dB down at 15.2kHz with both channels displaying virtually identical characteristics. This I would expect to give a soft sound.

Distortion levels were low right across the board. At -30dB, a level picked to represent a typical music signal, there's only a small amount of 2nd harmonic visible. As even order distortion is generally innocuous, especially at such a low level, I'd expect a smooth sound from the Genesis. Separation remained above 90dB even at 20kHz. No noise figure could be obtained because the Genesis mutes under test.

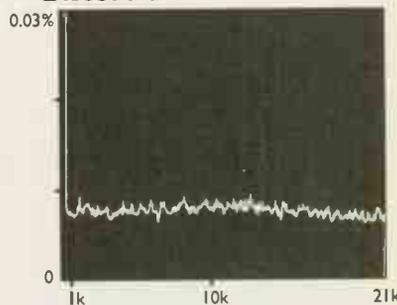
The dynamic range figure of 105.9dB is very good echoing the low distortion at -60dB. Output voltage was above standard, the Genesis providing 2.4volts rms. Apart from the discrepancy in the frequency response the Trichord Genesis fares well. HB

Frequency Response



Frequency response	4Hz-15.5kHz	
Distortion (%)		
-6dB	0.006	0.006
-30dB	0.020	0.019
-60dB	0.56	0.62
-90dB	30.1	31.5

Distortion



Separation (dB)	left	right
1kHz	122	124
20kHz	96	99
Noise		N/A
with emphasis		N/A
Dynamic range		105.9dB
Output		2.4V

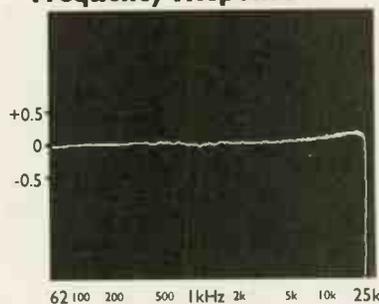
## ROTEL RDD/RDP-980

The Rotel DAC and transport duo displayed the standard 4Hz to 20kHz CD player frequency response, although the plot shows a gentle lift at the top end and a bit of a dip at about 500Hz. The former may accentuate the system's perceived clarity.

Distortion figures were quite good staying as low as 0.005% at -30dB signal level. No harmonics were visible here, distortion sinking below the noise floor, so I'd expect a smooth sound as a result. Separation figures across the audio band weren't the best I've seen, but ranging between 80-94dB were still good results.

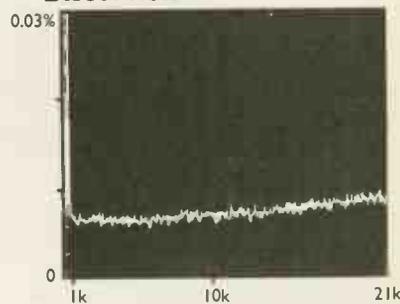
With low noise, wide dynamic range and a higher than standard 2.4volt output, the test bench has little bad to say about the pair. HB

Frequency Response



Frequency response	4Hz-21kHz	
Distortion (%)		
-6dB	0.004	0.004
-30dB	0.006	0.005
-60dB	0.75	0.70
-90dB	43.2	40.0

Distortion



Separation (dB)	left	right
1kHz	93.5	93.9
20kHz	82.0	80.6
Noise		-117dB
with emphasis		-117dB
Dynamic range		101dB
Output		2.4V

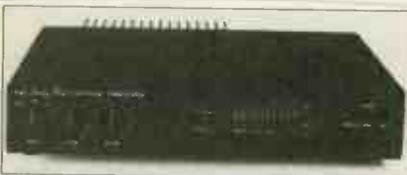
# HART

## Hart Audio Kits - Your Value for Money Route to Better Sound

2 Penylan Mill, Oswestry, Shropshire, UK. SY 10 9AF  
Phone 01691 652894 Fax. 01691 662864

Hart Audio Kits and factory assembled units use the very best audiophile components in circuit designs by the renowned John Linsley Hood to give you unbeatable performance and unbeatable value for money.

We have always had the field for easy home construction to professional standards, even in the sixties we were using neatly assembled printed circuits when Heathkit in America were still using tagboards! Many years of experience and innovation, going back to the early Onisdale and Bailey classics gives us incomparable design expertise in the needs of the home constructor. The current range of Hart kits is designed to give you all the components for a matching ensemble of audio excellence.



### K1100 AUDIO DESIGN 80 WATT POWER AMPLIFIER.

This fantastic John Linsley Hood designed amplifier is the flagship of our range, and the ideal powerhouse for your ultimate hi-fi system. This kit is your way to get UK performance at bargain basement prices. Unique design features such as fully FET stabilised power supplies give this amplifier World Class performance with startling clarity and transparency of sound, allied to the famous HART quality of components and ease of construction. Useful options are a stereo LED power meter and a versatile passive front end giving switched inputs, with ALPS precision Blue Velvet low-noise volume and balance controls. Construction is very simple and enjoyable with all the difficult work done for you, even the wiring is pre-terminated, ready for instant use! All versions are available with Standard components or specially selected Super Audiophile components at £29.60 extra per channel, plus £2.40 if you want to include Gold Plated speaker terminals.

K1100B Complete STANDARD Amplifier Kit	£395.21
A1100B Factory Assembled	£499.21
K1100SC Complete SLAVE Amplifier Kit, £	£333.62
A1100SC Factory Assembled	£422.62
K1100M Complete MONOBLOC Amplifier Kit	£261.20
A1100M Factory Assembled	£329.20
RLH10 Reprints of latest Amplifier articles	£4.50
K1100CM Construction Manual with full parts lists	£5.50

**K1400 AUDIOPHILE PREAMPLIFIER.** A versatile ultra high quality preamp with no less than seven inputs all switched by sealed high quality relays. Separate tape output selection. Class "A" headphone output for two phones. Lo-Z long line drive facility.

Standard Kit	£343.49
K1400T Kit with Tri-range tone controls	£390.41



### "CHIARA" SINGLE ENDED CLASS "A" HEADPHONE AMPLIFIER.

First Module to appear in our new "2000 Range" of kits. This unit provides a high quality phone output for those many amplifiers that do not have one. Easily installed with special link-through facility the unit draws its power from our new Andante Ultra High Quality linear toroidal supply. Housed in the neat, black finished, Hart minibox it features the wide frequency response, low-distortion and musicality that one associates with designs from the renowned John Linsley Hood. Pre-terminated interconnecting leads and PCB mounted sockets prevent supply polarity reversal and on-board diagnostics provide visual indication of supply line integrity. Volume and balance controls are Alps "Blue Velvet" components. Very easily built, even by beginners, since all components fit directly on the single printed circuit board and there is no conventional wiring whatsoever. The kit has very detailed instructions, and even comes with a roll of Hart audiograde silver solder. It can also be supplied factory assembled and tested. Selling for less than the total cost of all the components, if they were bought separately, this unit represents incredible value for money and makes an attractive and harmonious addition to any hi-fi system.

K2100 Complete Kit	£109.50
K2100SA Series Audiophile version with selected audiophile components	£112.46
A2100SA Factory Assembled and Tested "Chiara"	£149.46

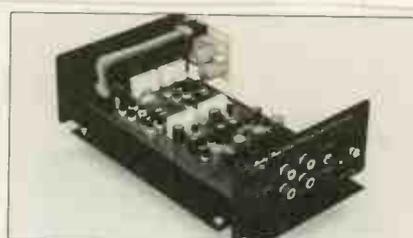
K3565 "Andante" Audiophile Power Supply Kit to suit	£95.42
A3565 Factory Assembled and Tested "Andante"	£128.42
Special Offer, Both Units in Kit Form together, with SA version "Chiara" with mains and DC Supply lead	ONLY £184.92
Factory Assembled and Tested	ONLY £267.88

**K1450 MAGNETIC PICKUP PREAMPLIFIER KIT** features a totally discrete component implementation with the superior sound of the Shunt Feedback concept. High quality components fitting to an advanced double sided printed circuit board make this a product at the leading edge of technology that you will be proud to own. Nevertheless with our step by step instructions it is very easy and satisfying to assemble. The higher current consumption of this unit means that it is best powered by our new Andante Audio Power Supply, itself an advanced piece of technology in a matching case. This supplies the superbly smoothed and stabilised supply lines needed by my sensitive preamplifier and features a fully potted Hi-grade toroidal transformer along with a special limited shift earthing system for hum free operation. The K1450 is suitable for all moving coil and moving magnet transducers this unit is especially recommended for, and will extract the very best from the modern generation of low output high quality moving coil transducers.

This magnificent kit, comes complete with all parts ready to assemble inside the fully finished 228 x 134 x 63mm case. Comes with full, easy to follow, instructions as well as the Hart Guide to PCB Construction, we even throw in enough Hart Audiograde Silver Solder to construct your kit!

K1450 Complete Kit	£111.50
K1450SA Audiophile Kit	£133.94

Why not buy the reprints and construction manual for the kit you are interested in to see how easy it is to build your own equipment the HART way. The FULL cost can be credited against your subsequent kit purchase.



### ALPS "Blue Velvet" PRECISION AUDIO CONTROLS.

Now you can throw out those noisy ill-matched carbon pots and replace with the real hi-fi components only used selectively in the very top flight World class amplifiers. The improvement in track accuracy and matching really is incredible giving better tonal balance between channels and rock solid image stability.

### MANUAL POTENTIOMETERS

2-Gang 100K Lin.	£15.67
2-Gang 10K, 50K or 100K Log	£16.40
2-Gang 10K Special Balance, zero crosstalk and zero centre loss	£17.40

### MOTORISED POTENTIOMETERS

2-Gang 20K Log Volume Control	£26.20
2-Gang 10K RO Special Balance, zero crosstalk and less than 10% loss in centre position.	£26.98

### SOLDERING

The size of modern components makes the right soldering equipment essential for good results. Everything we offer we actually use in our own workshops! See our Lists for the full range.

845-820 XS240 ANTEX 240w 25w Soldering Iron. This is the ideal Multi-purpose iron as the bit is designed to totally surround the element giving the best heat transfer. This excellent design also means that although it is small and handy enough for modern components its heating capacity is better than larger irons of conventional construction. Excellent Value	£9.93
845-080 S74 Lightweight Soldering Iron Stand. This has provision for the classic damp sponge for bit wiping.	£3.95

### HART SUPER AUDIOGRADE SILVER SOLDER

Hart Super Audiograde Silver Solder has been specially formulated for the serious audiophile. Not only does it give beautiful easy-to-make joints but it is designed to melt at normal soldering temperatures avoiding the possibility of thermal damage to components or the need for special high temperature irons. A very low residue flux makes perfect joints easy but eliminates the need for board cleaning after assembly.

845-007 3mtrs 22SWG in Hart Mini Tube	£3.90
845-008 100g Reel Special Valve Grade, 20swg	£12.90
845-009 100g Precision PCB Grade, 22swg	£14.75
845-110 100g Reel Superfine 24swg for ultra precise control and easy working	£21.45

### 32W VALVE AMP TRANSFORMERS

Special set toroidal transformers, 2 output & 1 mains for the "Hot Audio Power" valve amplifier design described in the Oct. 1965 issue of "Wireless World". Total Wt 4.8kg. Special price for the set

£99

Post £8

Photocopies of Article by Jeff Macaulay £2

### TECHNICAL BOOKSHELF

"AUDIO ELECTRONICS" J.L. Linsley Hood. Now entirely re-written by the master himself this new book covers the underlying audio techniques and equipment in tape recording, tuners, power output stages, digital audio, test instruments and loudspeaker crossover systems.

ISBN 0-7506-2181-8 £18.99

"THE ART OF LINEAR ELECTRONICS." J.L. Linsley Hood. The definitive linear electronics and audio book. Learn how to read circuit diagrams and understand amplifiers and how they are designed to give the best sound. The standard reference for all who work, or are interested in this field.

0-7506-0868-4 £16.95

HART Exclusive! FREE amendments sheet with each copy.

"THE ART OF SOLDERING" R Brewster. Absolutely essential reading for anyone who ever picks up a soldering iron.

ISBN 0-85325-324-3 0 £3.95

"ACTIVE FILTER COOKBOOK" Don Lancaster.

All the inside information on the calculation on construction of Low-pass, high pass and band-pass filters using Bessel, Chebyshev and Butterworth topologies.

BKS14 £19.95

"HOW TO USE OSCILLOSCOPES & OTHER TEST EQUIPMENT" R.A. Penfold. £3.50

"THE LOUSPEAKER DESIGN COOKBOOK" New 5th Ed. Vance Dickason.

All the information you need to build your new super loudspeaker system.

ISBN 1-882580-10-9 £25.95

ELECTROSTATIC LOUSPEAKER DESIGN AND CONSTRUCTION Ronald Wagner

This classic, describes the important parameters of an electrostatic speaker and indicates how each affects performance.

BK76 £18.95

"THE ELECTROSTATIC LOUSPEAKER DESIGN COOKBOOK" Roger P. Sanders

This new title takes you right through from the theory of electrostatic loudspeakers to hands-on guidance on practical construction, also covering polarising supplies and amplifier suitability. A full chapter also covers transmission line wave enclosure.

ISBN 1-882580-00-1 £24.95

"BULLOCK ON BOXES" R.M. Bullock III with Robert White

Easy to read guide for anyone interested in loudspeaker enclosures, theoretical calculations and practical building and is now considered as one of the classics on the subject.

BKA48 £11.40

"LOUSPEAKERS; THE WHY AND HOW OF GOOD REPRODUCTION" G.A. Briggs

The 1949 Classic on the whole subject of High Fidelity reproduction.

0-9624-1913-3 £8.95

### VALVE & EARLY CLASSIC BOOKS

THE VTL BOOK David Manley

Comprehensive modern book on the use of valves.

BKV11 £17.95

"VALVE AMPLIFIERS" Hilgann Jones

An easy to read modern book on the subject of valve amplifiers which goes through the art with very little theory and a great deal of practical information. If you Mecca is where valve amplifiers are then this is your Koran!

RRP £25 Our Price £24.50

MULLARD TUBE CIRCUITS FOR AUDIO AMPLIFIERS Mullard Ltd

A DIY classic, with sheet metal diagrams, parts lists and performance data.

BKA427 £13.95

"THE WILLIAMSON AMPLIFIER." D. T. N. Williamson

From April 1947, a cult classic power amplifier design reprinted from Wireless World.

0-9624-1918-4 £5.95

AN APPROACH TO AUDIO FREQUENCY AMPLIFIER DESIGN. GEC

No less than seventeen valve amplifier circuits from 5 to 1100 Watts. Full of genuine information from the valve era with valve specifications and base connection diagrams.

1-882580-05-2 £18.95

AUDIO ANTHOLOGIES, collected articles from Audio Engineering magazine. Six

volumes covering the days when audio was young and valves were king! All edited by C.G. McPreod. All are £13.95.

VOL 1

The first of the new audio amplifiers, preamps, tuners and speakers after the war. 38 of the best articles from 1947 - 1949 BKA43/1

VOL 2

1950 - 1952 BKA43/2

VOL 3

43 articles 1952-1955, 7 power amplifiers, 18 preamps and 12 loudspeakers. Another novel proposal for an output transformerless 25 Watt valve amplifier. BKA43/3

VOL 4

4 articles from 1955 - 1957. Designs for 12 amps and preamps and 6 loudspeakers. BKA43/4

VOL 5

48 articles from 1958 & 9 BKA43/5

VOL 6

38 articles from 1960 and 1961. BKA43/6

"AUDIO ANTHOLOGIES" Special Offer

All six for only £79.00

"PRINCIPLES OF ELECTRON TUBES" Herbert J. Riech PH.D.

Reprint of a 1941 textbook on the workings of valves. The use of valves in class A, AB, B, and C operation is covered with sample circuits, topologies and distortion.

BKA434 £27.95

SPECIAL OFFER. With all book orders over £15 we will supply FREE on request, a John Linsley Hood monograph entitled "Digital v. Analogue, Black Discs or Silver?"

Postage on books is £2.£3.50 for heavy books with "J" maximum in UK £4.50 for any number, any size! No waiting! All listed books are normally in stock!

Ordering your HART kit is easy, simply post, telephone or fax your order anytime. Let us know what you require, with your name, address, cheque or credit card number and expiry date. Your daytime phone number is useful in case we need to get back to you. If you need further information on our kits just ask our FREE lists. Overseas order are welcome and we can send anywhere in the World. Post on UK orders up to £20 is £1.50, over £20 - £3.50. Express Courier £10.

QUALITY  
AUDIO KITS

24hrs SALES LINE  
01691 652894

ALL PRICES  
INCLUDE  
UK/EU VAT

# HART

# SLATE AUDIO



## Esoteric Developments



### THE SPEAKERSTAND

*The best speaker supports in the world.*

State of the art in both performance and design. custom made to suit any loudspeaker. solid slate, supremely rigid and totally stable.

“Immaculately finished, sublimely rigid, on a par with the best stands I've used.” Ken Kessler, Hi-Fi News R/R. “An astonishing degree of instrumental separation, stable and holographic, with great precision and remarkable poise. The ultimate in high fidelity supports.” David Prakesl, Hi-Fi Answers. “Superbly finished, the sound quality was considered to be first rate.” Martin Colloms, Hi-Fi News R/R. “The sound quality when using the Slate Audio stands proved to be a revelation, something special.” Paul Messenger, Hi-Fi Choice. “The finish is excellent, the sound quality magnificent and breathtaking.” Tom Bryant, The Telegraph. “The Slate stand is unusual and expensive, but if you are after an exceedingly neutral stand it's the leading contender. This stand offers an exceptionally neutral platform for speakers; highly transparent sound leads to musical performances with real insight.”  
SOUND QUALITY: ■■■■■ Malcolm Steward Hi-Fi Choice.



### SLATE AUDIO GARRARD 301 and 401 *The most musical record players in the world.*

Our researched Solid Marble Plinth System® advances the state of the art and brings the Garrards into the 21<sup>st</sup> century. All wooden plinths produce unacceptable levels of coloration, microphony and feedback, with poor signal to noise ratios. When dealing with a thoroughbred you must respond with a firm hand, as anybody who has heard the transformation will testify. No other plinth system can claim to improve the performance of these superb players.

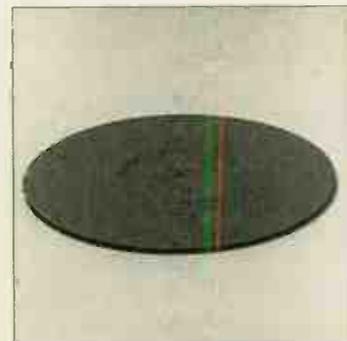
*Dear Mr. Soper,*

*Thanks for sending me the plinth for my Garrard 401. I must confess, that I was a bit sceptical about it, when I ordered one - after all, I bought it, without the possibility of listening to it first. But the results I get are really unbelievable. There is no rumbling, instead deep, deep bass and an authority, I never heard before from my records. And believe me, I tried some of the best turntables around (Linn LP 12, Roksan Xerxes). Now I'm waiting for the forthcoming power-supply. The day I place my order for it, I will do so without being a bit sceptical. Thanks again for a marvellous piece of art.*

MR TEILINGNER - AUSTRIA



*Better than a . . .*



### THE GLASSMAT

*The finest platter mat in the world.*

The Glassmat was developed to improve the performance of the Garrard 301 and 401 record players. However it also gives astonishing results when used on other turntables. So effective is its performance, we have now made it available as a universal replacement mat. In all cases other mats introduce colorations of their own, robbing the music of large amounts of detail and ambience. In order to achieve maximum information retrieval with optimum damping, a hard and unyielding material is required. Glass is ideal in every respect, damping is complete, the playing surface being quite simply sublime. In terms of detail resolution and sheer three dimensional ability, no other mat comes close. But then you still have to consider the absolute clarity, precision and solidity of the presentation. This is the ultimate platter mat.

£65.00 PLUS £3.50 FREIGHT.

**AT LAST THE POWERHOUSE OUR GARRARD 301/401 TD124 AND UNIVERSAL POWER SUPPLY  
PHONE NOW FOR A HOME TRIAL OF THE BEST TURNTABLE DRIVE SYSTEM EVER**

**THE GREEN MONSTER SOLID MARBLE PLINTH SYSTEM® FOR THE THORENS TD124.  
FOR DETAILS ON ALL OF OUR OTHER PLINTH UPGRADES, PLEASE PHONE.**

SLATE AUDIO GARRARD 301 AND 401 AVAILABLE COMPLETE OR MARBLE PLINTH SYSTEM® ONLY.

SME/GARRARD 301 AND 401 CELEBRATION ARMS WITH SPECIAL GRAPHICS "GARRARD 301 OR 401 CELEBRATION" 309 £597.00 + 312 £694.00 + IV £869.00 + V £1295.00.

THE TONEARM OUR SPECIAL VERSION OF THE FAMOUS REGA RB300, FITTED WITH GOLD PHONOS £155.00 + £3.50 FREIGHT.

THE SPIKEKIT SPECIALLY DEVELOPED TO FIT DIRECTLY TO FLOOR STANDING LOUDSPEAKERS OR ANY WOODEN SUPPORT ADJUSTABLE AND VERY SIMPLE TO FIT £25.00.

GOLD PHONOS (PAIR) £9.50 • GOLD BANANA PLUGS (FOUR) £8.00 • SORBOTHANE BIG FEET (FOUR) £48.00 • SORBOTHANE CD FEET (FOUR) £30.00 •  
SORBOTHANE SHEET (6"x6") £15.00 • SHURE STYLUS PRESSURE GAUGE £18.95 • GARRARD 301 SWITCH SUPPRESSOR £7.50 • TURNTABLE SERVICE £65.00 •  
GARRARD 301 LEVER SET £35.00 • GARRARD 301 FIXING BOLT SET £19.50 • GARRARD 401 CONTROL PANEL SET £35.00.

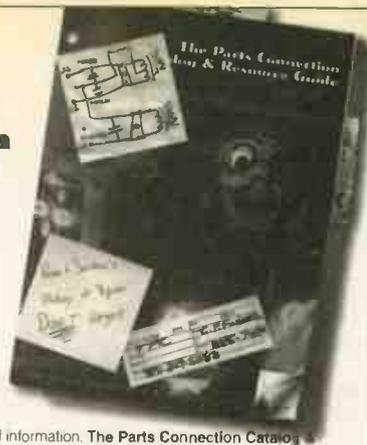
WE OFFER A FULL MONEY BACK GUARANTEE IF NOT COMPLETELY DELIGHTED

**FOR INFORMATION, SALES OR DEMONSTRATIONS, SPEAK TO PETER SOPER**

**47 GEMINI CLOSE, LEIGHTON BUZZARD, BEDS, LU7 8UD.**

**TEL: 01525 384174 or 0421 624429**

## Information overload.



Not just a catalog - a valuable source of information. **The Parts Connection Catalog & Resource Guide, Volume 2** includes specs and curves for the most commonly used audio tubes as well as some basic tube electronics theory from the RCA Receiving Tube Manual - and that's not all! There are schematics for many classic tube amplifiers and pre-amps from Dynaco, Marantz, Quad, McIntosh and more! Also included are white papers on the technical benefits of premium film caps and metal foil resistors.

If that's not enough for you, we've added a wide range of books on vacuum tube electronics theory, tube data, practical projects, loudspeaker design and building, and audio history. You want more, you say. Alright, The Parts Connection has an even wider selection of premium parts. We are now stocking a wide range of power and output transformers and chokes from Hammond, the exciting new van der Veen toroidal output and power transformers from Pliatron, and an expanded range of the superb MagneQuest output transformers for push-pull and single-ended applications. We have a broader range of film capacitors, including the new MIT PPF-X-S and PPFMX-2 series, and the new InfiniCap from Wonder.

As expansion seems to be the theme, how about expanded selections of Hovland Musi-Caps, Kimber Kaps, Rel-Cap Teflons, Solen Fast Caps, Wima and others! Our cable selection has also expanded to include new types of Kimber Cable, AudioQuest, Cardas Audio, van den Hul, Goertz and more. Along with a wide selection of connectors to hook it all up.

Expand your opportunities! Order **The Parts Connection Catalog & Resource Guide, Volume 2** today and see for yourself! We're sure that you'll find all that you need for your next audio project. The 7.00 £\* charge for the catalog includes a coupon good for \$10.00\* off your first order of \$100.00\* or more, or \$25.00\* off your first order of \$250.00\* or more. Call today.

\*or \$10.00 US. \*Catalogue discounts are in US dollars.

2790 Brighton Road, Oakville  
Ontario, Canada L6H 5T4

Toll Free Order Line 1-800-769-0747

(U.S. & Canada only)

Tel (905) 829-5858 Fax (905) 829-5388

e-mail: TPC@sonicfrontiers.com

WWW: http://www.sonicfrontiers.com/TPC



**THE PARTS CONNECTION**

A DIVISION OF SONIC FRONTIERS INC

## IAN HARRISON HI-FI

TEL: 01283 702875

### CARTRIDGES

#### ORTOFON

MC7500  
MC5000  
MC3000H  
Rohmann  
MC30 Supreme

#### DENON

DL-S1  
DL304

#### AUDIO TECHNICA

AT-OC9

#### GOLDRING

Elite  
1042

#### SHURE New Range

#### TRANS FIGURATION

Temper  
Spirit

#### ROKSAN

Shiraz  
Chorus Black  
Tabriz 2  
Tabriz

#### LONDON (DECCA)

Jubilee  
Super Gold  
Gold  
Maroon

#### AUDIOQUEST

AQ7000

#### GRADO

Signature TL2  
Signature MK2  
Signature 0M2

#### VAN-DEN HUL

#### TONEARMS

GRAHAM  
MOTH  
ROKSAN

### TEST CASSETTES & CDS

Phone Or Write For  
Details

### HEADPHONES

#### SENNHEISER

HD580J  
HD580P  
HD5650  
IS850  
IS550

#### BEYER

HE60/  
HEV70  
Orpheus  
DT911  
DT901  
IRS890  
IRS790

#### GRADO

DT531  
SR325  
SR225  
SR125  
SR80  
SR60

#### AUDIO TECHNICA

ATH-P11  
ATH-P10P  
ATH-M7A  
K1000

#### AKG

280P  
2705  
270  
240M  
240M

#### SONY

MDCR1000  
MDCR10K  
MDCR750

### AMPLIFIERS

Quad  
Sonic Link  
Luminy  
Reference  
Marantz  
Sony  
Teac

#### Technics

Convergent  
AudioTechnology

### TURNTABLES

Stratosphere

### SPEAKERS

•Quad, Spondor,  
•ATC, •Sony.

### MINI DISC

SONY MDSJA3ES  
MDS303  
MDS302  
MDS51  
MDS30

### CD

SONY XAZES  
CDP761E  
CDP561E  
VRDS30  
VRDS105E

### TEAC

VRDS7  
VRDS-T1  
DT1  
P700  
D700  
PS2  
CD5  
CD3

### MARANTZ

CD15  
CD16  
CD17  
CD35E  
CD63  
77

### OUAD

### CASSETTE DECKS

#### NAKAMICHI

DRAGON  
DR1  
DR2  
V8030S  
V6030S  
V2030S  
V1030

#### TEAC

V610  
W6000R  
TKA6ES  
TKC61S  
TKS61S  
TKA61S

### SONY

V610  
W6000R  
TKA6ES  
TKC61S  
TKS61S  
TKA61S

### DAT

SONY DTC60ES  
TEAC R9  
PIONEER D9601  
DC88

### Panasonic SV3800

TASCAM DA30  
DA20

### TRANSFORMERS

Ortofon  
Denon  
Sovter

### MARANTZ

STB3  
ST72  
ST65  
ST55

### SONY

STS3AES  
STS361  
STS261

### CABLES

AUDIOQUEST  
COGAN LINK  
SONIC HALL  
SILVERSOUNDS  
QED  
GOLDRING

### MICROPHONES

SENNHEISER  
AUDIOTECHNICA  
NEUMANN  
AKG

### HI-FI FURNITURE

Apollo  
Project  
Soudinstyle  
Sound Organisation  
Sound Factory-  
Tripod

### BLANK TAPES

TDK, Maxell, Sony,  
BASF, 353, Ampex,  
FUJII, Scotch, JVC,  
Conica.

### ACCESSORIES

Antiference, Labgear,  
QED, Discwasher,  
Goldring, Audioquest

MANY OTHER PRODUCTS CAN BE SUPPLIED. PLEASE PHONE TO CONFIRM PRICE & AVAILABILITY PRIOR TO ORDERING. ALL GOODS ARE BRAND NEW AND BOXED WITH FULL UK GUARANTEES.

NO EX-DEM EQUIPMENT. NO GREY IMPORTS. GOODS NOT SUPPLIED ON APPROVAL. POSTAGE & PACKING. CARTRIDGES.

TEST CASSETTES & CDS. FREE. ALL OTHER PRODUCTS £5.00

MAIL ORDER ONLY FROM IAN HARRISON HI-FI 7 MILL HILL REIPTON, DERBY DE61 4QQ

TEL: 01283 702875



## Vacuum Tubes for Audio Are Back!

*Glass Audio* brings together yesterday's tube with today's improved components, voltage control, and the exciting new Soviet tubes, to make smooth sound in your livingroom possible again!

# YES!

Please send my first issue of *Glass Audio*. I'll pay just \$45.00 for six issues (1 year); \$80.00 for 12 issues (2 years) of the best information on tubes to be found anywhere. I understand that my satisfaction is guaranteed!

Name \_\_\_\_\_

Street & Number \_\_\_\_\_

City \_\_\_\_\_ Postal Code \_\_\_\_\_

Country \_\_\_\_\_

REMIT IN US \$ DRAWN ON A US BANK ONLY. PRICE GOOD THROUGH DECEMBER 31, 1995.

We Accept MC/VISA.

## Glass Audio

PO Box 176, Dept. HFWS, Peterborough, NH 03458-0176 USA  
Phone: (603) 924-9464 or FAX 24 hours a day (603) 924-9467

# SERIOUS KIT NORTH

DEMONSTRATING ALL SUGDEN PRODUCTS

SDD-SDA / A21a / SDT-1  
AU41 PRE / POWER ETC ETC

RING NOW TO BOOK YOUR ENTRY TO  
HI-FIDELITY HEAVEN

APPOINTED AGENT  
FOR SUGDEN,  
PROAC HARBETH  
AUDIO NOTE  
TARGET ETC ETC

PHILIP DONALDSON  
PROPRIETOR

OPEN  
10AM - 9PM CLOSED  
SUNDAY  
PHONE  
0161 793 6742  
0402 367843

## USED EQUIPMENT

May 1996

	RRP	NOW
AUDIOLAB 8000CDM Transport	£1300	£1095
AUDIOLAB 8000DAC D/A converter	£900	£700
AVI S2000MC CD Player	£1149	£950
AVI S2000MA stereo power amp	£599	£450
MICROMEGA CD3.1 Transport	£1300	£1150
MICROMEGA DUO BS AES D/A Converter	£650	£495
MUSICAL FIDELITY A120 amplifier	£550	£350
ROKSAN OJAN 3 Rosewood spks	£995	£495
SPENDOR BC1 Walnut spks (as new)		£220
SPENDOR SP1 Mahogany spks (as new)		£230
LEAK TROUGHLINE II gold with Studio 12 decoder fitted		£140
LEAK TROUGHLINE III with Studio 12 decoder		£120

### MICROMEGA CLASSIC LINE AMAZING OFFER

	RRP	NOW
Micromega CD3.1/Duo Pro.2	£3000	£2400
Micromega CD2.1/Duo Pro.2	£4250	£2995
Micromega Trio .3	£6500	£3995

All units are new, boxed and fully guaranteed  
Very limited stocks available. Phone for more details

**powerplant**



66/67 Upper North Street, Brighton BN1 3FL  
Telephone: 01273 775978 Fax: 01273 748419

ATC, AVI, Audiolab, Arcam, B&O, Cyrus, Exposure, Micromega, Marantz,  
McIntosh, Proceed, Rega, Roksan, Stax and other quality equipment.

Mail order and Worldwide Export service available

## TECHNICAL & GENERAL

Some Necessities - From the Original Classic Turntable Specialists

		P&P
Connaisseur	BD1/2 Drive Belt	10.25 1.85
	BD1/2 Motor Suspension kit	13.95 2.45
	SAU.2 Headshell	16.75 2.55
	SAU.2 Connecting lead	15.95 3.55
Garrard	<b>Standard Models</b>	
	Wired arm tubes	from 12.75 2.55
	Cartridge carriers (sliders)	10.25 1.85
	Idler Wheels	9.85 2.25
	<b>301/401 Transcription Models</b>	
	Original Thrust pad assembly	10.25 2.25
	Original Idler tension spring	2.95 1.85
	Original Speed control disc - 401	13.75 2.20
	Xeroxcopy Owners Manual 301 incl. full size mounting template	7.85 1.85
	Xeroxcopy Owners Manual 401 incl. full size mounting template	5.70 1.85
	Replacement Intermediate drive wheel	19.95 2.85
	Replacement 301 control knobs	
	On-Off/Speed select	pair 20.25 2.55
	Replacement 301 suppressor unit	5.65 2.25
	Replacement 301 motor pulley (-2%), (-1%), (Std), (+1%)	each 12.65 2.25
Replacement 301 Chrome plated mounting bolts	set 4.70 2.25	
Recommended Lubrication set - early 301/standard 301/401 - please specify	5.60 1.85	
Goldring/Lenco	Idler wheel (lock-nut or clip fixing)	19.95 2.85
	Arm Pivot bearings with instructions	8.25 1.85
	Spindle/Main bearing assembly complete	24.85 3.85
	Headshells	from 21.95 2.55
	Instruction books	from 4.20 1.85
Thorens	<b>TD.124 series</b>	
	Idler wheel - original	27.50 2.85
	idler wheel - our redesigned replacement	15.35 2.55
	Drive belt	15.25 1.85
	Chassis spring suspension (replaces 'mushrooms')	19.85 2.55
	<b>159/160 series</b>	
	Drive belt	10.25 1.85
	Suspension springs (-1%), (Std), (+1%)	set 11.85 2.55
	Suspension bushes	set 12.50 2.25
	Armboards for most models	from 16.90 2.55
Cecil Watts Dustbugs/Parastats/ (spares incl. Preener wicks)		
Cartridges and styl for 7" & Mono LPs in addition to current Stereo LP		

TECHNICAL & GENERAL PO Box 53. Crowborough,  
E.Sussex. TN6 2BY Tel:- 01892 654534



**THE CHOICE IS TRULY YOURS**

We carry the finest range of HI-FI in London, you can also be sure that any of the products you see advertised here are on display and available for audition. Our helpful experienced staff are always on hand to help explore the possibilities open to you. This month we are featuring the new Pioneer PDR-05 the affordable recordable CD player, at last you can make your own CD compilations - Interest Free, call and find out how!

**CD PLAYERS**

Arcam CD Players-Full range?	YES!
Arcam Alpha One (F/L)	£299.00
Arcam Alpha 5 Plus (F/L)	£479.00
Arcam Alpha 6 (F/L)	£599.00
Arcam Delta 270 (F/L)	£799.00
Arcam Delta 250 Transport	£799.00
Arcam Black Box 50	£479.00
Arcam Black Box 500	£745.00
Denon DCD 825	£269.00

(F/L) = FREE CHORD COMPANY INTERCONNECT WORTH £25.00

Linn Mimik CD Player	£875.00
Linn CD Players - Full range?	YES!
Marantz CD63/2	£269.00
Marantz CD63se	£349.00
Marantz CD63 Sig (F/L)	£499.00
NAD 501 (New)	£199.00
NAD 512 (F/L)	£249.00
Naim CD3 (F/L)	£977.00
Naim CD2	£1997.00
Naim CD Players - Full range?	YES!
Quad 77 CD Player	£595.00
Rotel RCD 930AX	£199.00
Rotel RCD 970BX (F/L)	£349.00

**TURNTABLES**

Planar 3 available in choice of 6 colours

Planar 3 for RB250*	£199.00
Planar 3 for RB300*	£249.00
Planar 3 for RB400*	£399.00
Planar 3 for RB500*	£499.00
Planar 3 for RB600*	£599.00

Cartridges? Yes - A.T. Denon - Linn & Rega

**AMPLIFIERS**

Arcam Alpha 5 Plus	£239.00
Arcam Alpha 6 Plus	£349.00
Arcam Delta 290	£499.00
Arcam Delta 290P	£399.00
Linn Majik (line)	£650.00
Linn Wakonda (line)	£750.00
Linn LK100 P/Amp	£650.00

Are they all stocked? YES!  
Can they be financed? YES!

Marantz PM55se/2	£249.00
NAD 310 Amplifier	£99.00
NAD 312 Amplifier	£199.00
NAIM Nait 3 Integrated	£549.00

Are they all stocked? YES!  
Can they be financed? YES!

Naim NAC 92 Preamp	£447.00
Naim NAP 90/3 Power Amp	£427.00
Naim FlatCap Supply	£326.00
Naim 72 Preamp	£690.00
Naim 140 Power Amp	£722.00
Naim 180 Power Amp	£1016.00

Can they be financed? YES!  
Can they be financed? YES!

Quad 77 Intergated	£595.00
Rega Brio Amplifier	£229.00
Rega Elex Amplifier	£398.00
Rotel RA 930AX/2 (New)	£149.00
Rotel RA 930BX	£199.00
Rotel RA 970BX	£299.00

**FREEBIES!**  
IF YOU DON'T WANT 0% APR



**SOUND SYSTEMS**  
248 LEE HIGH RD, LONDON, SE13 5PL  
0181-318 5755/852 1321 FAX- 318 0909  
Email: sales@billyvee.demon.co.uk  
OPEN: 10AM - 6.30PM MON - SAT (CLOSED THURS)

**RECORDABLE CD PLAYER**



To book your demonstration - Call 0181 318 5755 NOW

**0% APR**

GOODS PRICE	£1000	GOODS PRICE	£2500	GOODS PRICE	£5000
DEPOSIT	£100	DEPOSIT	£500	DEPOSIT	£1400
BALANCE	£900	BALANCE	£2000	BALANCE	£3600
12 MTHS @	£75	20 MTHS @	£100	24 MTHS @	£150

(F/L) = FREE CHORD CHRYSALIS INTERCONNECT LEAD (0.75 MTR)  
(FREE/C.T.3) = FREE 5 MTR CABLETALK LEAD - (PK) = TERMINATED  
(F/T) = FREE TDK SA DR SAX90 (MIN 5 TAPES) CALL FOR DETAILS

**TUNERS**

Arcam Alpha 5 Tuner Plus	£219.00
Arcam Delta 280 Tuner (F/L)	£399.00
Denon Tu 260L Tuner	£119.00
Linn Kudos (New)	£775.00
NAD 412 Tuner	£179.00
Marantz ST55 Tuner (few only)	£79.00
Naim NAT 03 Tuner (F/L)	£566.00
Naim NATO2 Tuner	£1028.00
Quad FM4 Tuner (F/L)	£429.00
Quad 66FM Tuner(F/L)	£529.00
Rega Radio AM/FM Tuner (F/L)	£229.00
Rotel RT 940AX (Remote)	£199.00
Rotel RT 950BX (F/L)	£249.00

**CASSETTE**

Denon DRM 550 (F/T)	£159.00
Denon DRS 640 (F/T)	£209.00
Denon DRM 650s(NEW)	£229.00
Denon DRM 740 (F/T)	£269.00
Denon DRW 580 (Double)	£199.00
NAD 613 (New)	£229.00
Nakamichi DR3 (Was 399)	£449.00
Nakamichi DR2 (F/L x 2)	£749.00
Nakamichi Dragon	£2350.00
Yamaha KX390 (NEW)	£149.00
Yamaha KX580(F/L)	£249.00
Yamaha KX-W482	£249.00

**LOUDSPEAKERS**

(FREE C.T.3)	FREE CABLETALK 3.
B&W 302 (NEW)	£129.00
B&W 601	£199.00
B&W 602	£299.00
B&W CDM2	£400.00
B&W P4	£675.00
Heybrook HB1 (E/D)	£139.00
KEF Coda 7	£129.00
KEF Coda 9	£299.00
Linn Full range stocked & on Dem?	YES!
Mission 731i	£129.00
Mission 751 (Free C.T.3)	£299.00
Mission 752 (Free C.T.3)	£499.00
Mission 753 (Free C.T.3 Blwire)	£699.00
ProAc Response One	£999.00
ProAc Tablette 50	£599.00
Quad ELS63 on Demonstration?	YES!
Rega Kyte (Blk or Wal)	£198.00
Rega Ela (Black)	£498.00
Tannoy 631se Speakers	£169.00
Tannoy 632 (Free C.T.3)	£199.00
Tannoy 633	£299.00

**AUDIO VISUAL**

<b>A/V AMPLIFIERS</b>	
Arcam Xeta One	£999.00
Arcam Xeta Two	£649.00
Yamaha DSP580	£449.00
<b>LASER DISC PLAYERS</b>	
Pioneer CLD-515	£499.00
Pioneer CLD-2950	£699.00
<b>PROJECTION TV</b>	
Pioneer 5D-T5000 (E/Dem)	£1999.00
<b>SURROUND - SPEAKER SYSTEMS</b>	
B&W CC6 Centre (NEW)	£199.00
KEF 90 (Centre)	£259.00
KEF 100 (Centre)	£359.00
KEF 30B - 80C - 60S Systems	£999.00
Mission 73C (Centre)	£149.00
Mission 73S (Surround)	£99.00
Pioneer V201 Sat/Sub System	£249.00
Tannoy G22 (Centre)	£179.00
Tannoy 628 Surround	£149.00

PRICES CORRECT AT TIME OF PRESS E&OE

For Fast 'n Free 24 hour Mail Order Contact: 0181 852 1321

# AUDIO ILLUSION

23 Langley Broom  
Langley  
Berkshire SL3 8NB  
(2 mins Junc. 5 off the M4)  
Tel: (01753) 542761; Fax: (01753) 772532  
**OPENING HOURS**  
10 am-8pm Monday-Saturday (By appointment)

*Classe Audio*  
**KORA TRIODE AMPLIFICATION**  
**MIRAGE BIPOLAR LOUDSPEAKERS**  
*Enlightened Audio Designs*



Mail Order Service  
Export Facilities



\*\* All Major Credit Cards Accepted

EX. DEMONSTRATION and SECONDHAND BARGAINS:

Arcam Delta 70.3 CD Player (£700).....	S/Hand	Mint	£325
Audio Research LS3B Line Preamp (£2250).....	Ex.Demo		£1650
Audio Research LS7 Preamp (£1600).....	S/Hand	Mint	£1150
Audio Research SP14 preamp.....	S/Hand	Mint	£1495
Audio Research VT60 Power Amp (£2650).....	Ex.Demo		£1795
Audiolab 8000Q Remote Preamp (£1100).....	S/Hand	Mint	£795
Audion 300B Silver Knight Export,			
Gold mono bloc (£2,500).....	S/Hand	Mint	£1495
Classe 70 Power Amp (£1400).....	S/Hand	Mint	£850
Counterpoint 3.1 Preamp.....	S/Hand	Mint	£795
Counterpoint SA 20 Power Amp.....	S/Hand	Mint	£1150
Densen DN110 Integrated Amplifier 70W (£1300).Ex.Demo			£850
Magnaplanar MG 1.4 Panel Loudspeakers.....	S/Hand	Mint	£450
Mark Levinson 38S Line Stage Preamp (£6500).....	S/Hand	Mint	£3950
Mirage M-190i Audiophile Monitor (£299).....	Ex.Demo		£165
Mirage M-290i Audiophile Monitor (£399).....	Ex.Demo		£250
Mirage MBS Bipolar Satellite Spks+Stand(£450).....	Ex.Demo		£315
Musical Fidelity Pre3A Preamp.....	S/Hand	Mint	£175
Rega RB300 Arm (£140).....	New		£95
REL Stadium Subwoofer (£800).....	S/Hand	Mint	£450
Theta Progeny (£1200).....	S/Hand	Mint	£750

# The Vintage Audio Co.

SHOWROOM OPENING AT THE  
END OF JULY

WE ARE PLEASED TO ANNOUNCE THE  
OPENING OF OUR FIRST SHOWROOM  
IN HENLEY ON THAMES HERE YOU WILL  
BE ABLE TO SEE OUR FULL RANGE OF  
VALVE AMPLIFIERS FROM £467 TO £20,000.  
WE WILL ALSO BE SUPPLYING VALVES, OFF  
THE SHELF PARTRIDGE AND SOWTER  
TRANSFORMERS. IN ADDITION TO AN IN  
HOUSE REPAIR SERVICE AND ADVICE  
CENTRE.

PLEASE CALL IN AND SEE US AT THE

## Vintage Audio SHOWROOM

(FOR MORE INFO PLEASE CALL 01239-891448)

## M A X | Midland Audio Exchange

181 Franche Road  
Kidderminster  
Worcs DY11 5AD

Telephone: 01562 822236  
Mobile: 0421 605966

**ROKSAN** We are pleased to announce that Roksan have now moved back into full production at the Quad factory at Huntingdon. This now means:

i. Quicker delivery times ii. Higher build Quality. iii. Better sound quality

As part of Midland Audio Exchange portfolio, Roksan new products will feature greatly on demo.

Roksan Attesa DP3P CD Player	£1495
Roksan Attesa DP2T Transport	£1295
Roksan Attesa DA2 MK II DAC	£549
Roksan Attesa DS5 MK II powersupply	£549
Roksan Xerxes 10 Turntable	£1295
Roksan XPS 5 p.s.u.	£325
Rok-one loudspeakers.	£499

P.S. We also have some news about a new integrated amplifier from Roksan, (please ring for more details).

Special clearance items from Roksan:

	WAS	NOW
1 x L1 Preamp	£2250	£1195
1 x L2 Preamp	£995	£595
1 x Roksan DA2/DS5	£1098	£795
2 x Roksan DA1	£495	£225
1 x Roksan DP1 Transport	£995	£495
1pr. x Roksan Ojan 3 Speakers	£895	£499
1 x Roksan Xerxes/XPS 3.5/DSU	£1695	£995

This month sees a large amount of s/h and ex demo goods:

Naim /2 preamp inc. 'S' boards	£395 s/h
Naim 140 poweramp	£425 s/h
DPA littlebit	£150 s/h
DPA 'the power' filter	£50 s/h
EC Audio Pandora filter	£79 new
Roksan L2 black	£550 ex demo
Rega planar 3	£120 s/h
Aura VA80 Integrated amps	£175 new
Marantz PM 55 se amp	£175 new
Michaelson Audio Odyssee	£495 s/h
Micelli gyrodock Bronze RB 300	£650 s/h
Audio Research SP 14	£1395 s/h
Project 0.5 - Om10 T/Table	£99 new
Project 1.2 - 510 T/Table	£139 new
Project 2.1 MC1 T/Table	£175 new
Ariston 420 T/Table	£60 s/h
PS Audio 11B phono Stage	£150 ex demo
PS Audio 1V a phono stage	£175 ex demo
Linn LP1Z/ARO Clrkus/Pink Llnnk	£1495 s/h

MIDLAND AUDIO EXCHANGE STOCK AND SELL  
ROKSAN/REGA/KEF/B&W/NAKAMICHI/PATH/PREMIER/AURA/OLN/FLATLINE/SONICLINK

# ANGLIA AUDIO

HI-FI AND SPEAKER CENTRE.  
DEDICATED TO QUALITY  
HI-FI SINCE 1971

EVENING AND SUNDAY  
DEMONSTRATIONS BY  
APPOINTMENT.

OPEN 10-6. CLOSED WEDNESDAY  
AND SUNDAY

THE STREET  
HESSETT  
BURY ST EDMUNDS  
SUFFOLK  
IP30 9AZ  
(5 MILES EAST OF BURY ST  
EDMUNDS)

TEL / FAX: 01359 270212

# AUDIOPHILE

International Ltd.

To Order Call: 01276 855578

Or: 01276 855530

Fax 24 Hours: 01276 855580



## XLO REFERENCE RECORDINGS

### TEST & BURN-IN 24kt GOLD CD.

Just playing this CD will make your system sound better!

It's true! The all new XLO/Reference Recording Test & Burn-In CD really will make the difference.

**XLO technical tracks** will burn-in new stereo and home theater/AV components and demagnetize existing ones, to ensure peak performance and freedom from electronic glare. **Detailed liner notes** and the actual voices of XLO's Roger Skoff and Reference Recordings guru Keith Johnson will guide you in quickly and easily getting the most from your system and your acoustical environment - including verifiable proof that you have got it right! Once your system is dialed-in, **six sensational Reference Recordings music tracks** will put your system through its paces so you can experience the amazing realism of your system.

This State-of-the-art audiophile 24kt gold pressing is also HDCD and surround-sound compatible, and is an essential tool for as long as you have your system.

Recommended Retail £29.95, Audiophile International Price £25

The UK's Largest Selection

Audiophile International Present - a small selection

### Classic Records HQ LPs

Buy two or more of any £28 title for £25 each.

LSC 1817 OFFENBACH - Gaité Parisienne	£28
LSC 1831 BRAHMS - Piano Concerto No.1	£28
LSC 1901 TCHAIKOVSKY - Symphony No.6	£28
LSC 1934 BARTOK - Concerto For Orchestra	£28
LSC 2077 STRAUSS - Till Eulenspiegel	£28
LSC 2150 STRAVINSKY - Lt. Kije (Reiner, CSO)	£28
LSC 2183 THE REINER SOUND	£28
LSC 2185 RACHMANINOFF - Symphony No.3	£28
LSC 2222 DEBUSSY - Iberia (Reiner)	£28
LSC 2225 WITCHES BREW (Gibson)	£28
LSC 2234 SAINT-SAENS - Piano Concerto No.2	£28
LSC 2285 WALTON - Facade	£28
LSC 2288 PROKOFIEFF - Symphony No.7	£28
LSC 2323 TCHAIKOVSKY - Capriccio Italien	£28
LSC 2430 RACHMANINOFF - Theme' Paganini	£28

### Verve Jazz 180gm HQ LPs

BILLIE HOLIDAY - Songs For Distingue Lovers	£25
ELLA FITZGERALD - Let No Man Write My...	£25
SONNY STITT - Blowing The Blues	£25
JOHNNY HODGES - Blues A Plenty	£25

### RCA 180gm HQ LPs

HARRY BELAFONTE - At Carnegie Hall 2LP	£37
BOB & RAY - Throw A Stereo Spectacular	£25
DICK SCHORY - Bang Baa-room & Harp	£25
SONNY ROLLINS - The Bridge	£25
HARRY BELAFONTE - Sings The Blues	£25

### CBS Jazz 180gm HQ LPs

DAVE BRUBECK - Time Out	£25
DUKE ELLINGTON - Blues In Orbit	£25

### DCC Compact Classics

#### 180gm Virgin Vinyl LPs & 24kt Gold CDs

RAY CHARLES AND BETTY CARTER	£25
THE BEACH BOYS - Pet Sounds	£25
LIGHTNIN HOPKINS - Blues Hoot	£25
SONNY ROLLINS - Saxophone Colossus	£25
RAIDERS OF THE LOST ARK (Deluxe 2LP)	£35
ROD STEWART - Never A Dull Moment	£25
STAN GETZ & CHARLIE BYRD - Jazz Samba	£25
RAY CHARLES - Greatest Country & Western	£25
ELTON JOHN - Greatest Hits Vol. 1	£25
ELTON JOHN - Greatest Hits Vol. 2 (LP Only)	£25
WES MONTGOMERY - Goin' Out Of My Head	£25
CREAM - Fresh Cream	£25
CREAM - Wheels Of Fire (2LP/CD Set)	£35
CREEDENCE CLEARWATER - Willy & The Poor	£25
OSCAR PETERSON - West Side Story	£25

#### CD Only Titles

BOB DYLAN - Highway 61 Revisited	£25
THE EAGLES - Hotel California	£25
THE EAGLES - Greatest Hits	£25
MILES DAVIS - Cookin'	£25
MILES DAVIS - Relaxin'	£25
MILES DAVIS - Steamin'	£25
MILES DAVIS - Workin'	£25
GETZ MEETS MULLIGAN IN HI-FI	£25
CREEDENCE CLEARWATER - Willy & The Poor.	£25
CREEDENCE CLEARWATER - Cosmo's Factory	£25
CREEDENCE CLEARWATER - Bayou Country	£25
CREEDENCE CLEARWATER - Green River	£25
THE BAND - Stage Fright	£25
BILL EVANS - Portrait In Jazz	£25
THE BEACH BOYS - Endless Summer	£25
LEON RUSSELL - Leon Russell	£25
HEART - Dreamboat Annie	£25
STEVE MILLER BAND - Book Of Dreams	£25
STEVE MILLER BAND - Fly Like An Eagle	£25
LINDA RONSTADT - Greatest Hits	£25
ELECTRIC LIGHT ORCHESTRA - Eldorado	£25
JIM CROCE - Gold In A Bottle	£25
WES MONTGOMERY - So Much Guitar!	£25
ELLA FITZGERALD - Sings Cole Porter Songbook	£35
JOHN COLTRANE & PAUL QUINICHETTE	£25
SONNY ROLLINS - Tenor Madness	£25
BADFINGER - Straight Up	£25
CANNONBALL ADDERLEY - Know What I Mean?	£25
FRANK SINATRA - Duets Volume 1 & 2 (2CD)	£35
SONNY ROLLINS - SONNY ROLLINS	£25



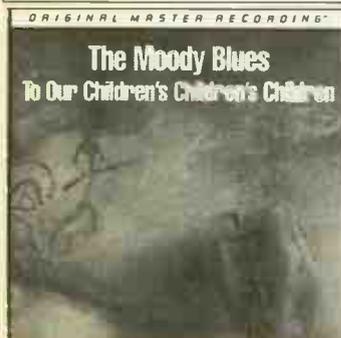
### NEW - Mobile Fidelity

This month we have the following stunning new 24kt Gold CD from Mobile Fidelity available exclusively through Audiophile International Ltd.

DEREK & THE DOMINOS - In Concert (2CD)	£35
JOHN MAYALL - The Blues Alone	£25
SONIC YOUTH - Goo	£25
NIRVANA - Nevermind	£25
B.B.KING - Lucille	£25
THE SEARCHERS - Its The Searchers (2on1)	£27
ALEXIS KORNER - R&B From The Marquee	£25
COUNTING CROWS - August & Everything After	£25
QUEEN - A Day At The Races	£25
TRAFFIC - Shoot Out At The Fantasy Factory	£25
BING CROSBY - Bing Sings Whilst Bregman ...	£25
ERIC CLAPTON - Backless	£25

AND ON SUPER HQ 200GM VIRGIN VINYL... (Buy 2 MFSL LPs @ £22 each!)

BOSTON - Boston	£25
THE MOODY BLUES - To Our Children's Children	£25
NIRVANA - Nevermind	£25
SONIC YOUTH - Goo	£25
QUEEN - A Day At The Races	£25
BERNARD HERRMANN - The 4 Faces Of Jazz	£25
JOAN BAEZ - Diamonds & Rust	£25
TOTO - IV	£25
ELLA FITZGERALD & LOUIS ARMSTRONG (2)	£35
MUDDY WATERS - Folk Singer	£25
BOB MARLEY - Exodus	£25



# Look Whats New At : AUDIOPHILE INTERNATIONAL!

## Classic Go Gold !

24kt Gold CDs

Classic Records famous for their excellent LF reissues have now launched whole heartedly into 24k: gold CD production. Again mastered from the original master tapes by Bernie Grundman and Tony Hawkins. Their first two titles boast excellent production and sound quality.



### CSCD 6006 ESPAÑA!

One of the most highly treasured and sought after albums £25  
**LSCD 2225 WITCHES BREW**  
 Probably the best of the British RCA's no collection should be without. £25

## ! SPECIAL OFFER !

For this month only Audiophile International are offering the following **DCC Compact Classics** CDs for only £80 for 4, if bought as a set, a saving of £20!

### SET ONE - 4 Gold CDs For £80

In 1956 Miles Davis Quintet recorded a series of five LPs for Prestige, these quickly established a major following. Although initially unfavoured by critics these five albums are now regarded as some of the most famous documents of how jazz stood in the mid-1950s. To date DCC Compact Classics have reissued four of these classics on HQ 24kt Gold CD.

#### MILES DAVIS - Cookin'

The best small combo in the history of modern jazz. Featured artists include; John Coltrane, Red Garland, Paul Chambers and Philly Joe Jones. Tracks include; My Funny Valentine, Blues By Five, Tune Up, and more. Mastered from the Original 1956 mono session tapes.

#### MILES DAVIS - Relaxin'

A joyous selection of straight-ahead swinging and melodic improvisation, this is a near-perfect album that was recorded at their peak in 1956. Contains; If I Were A Bell, It Could Happen To You, I Could Write A Book, and several others. Mastered from the original mono session tapes.

#### MILES DAVIS - Workin'

Volume three of the legendary Miles Davis Quintet sessions recorded for Prestige, again featured artists include John Coltrane, Red Garland, Paul Chambers and Philly Joe Jones who are considered to be the greatest quintet in the history of modern jazz. Tracks include; It Never Entered My Mind, In Your Own Sweet Way, Ahmad's Blues and several more.

#### MILES DAVIS - Steamin'

This is the final volume of the landmark 1950s recordings that jazz experts now call the greatest small jazz sessions of all time. Features the now familiar quintet. Includes; Salt Peanuts, Diane, When I Fall In Love, and other legendary tracks.

### SET TWO - 4 Gold CDs For £80

Four Gold CDs from a group that music is as fresh today as it was 25 years ago. These four albums cover such classics as 'Hello, I Love You', 'Light My Fire', 'People Are Strange', 'Break On Through', 'Riders On The Storm' and many other classics.

#### THE DOORS - The Doors

#### THE DOORS - Strange Days

#### THE DOORS - L.A. Woman

#### THE DOORS - Waiting For The Sun

## Good Buy Records 180gm LPs

Exclusively distributed by Audiophile. Mastered from the original master tape onto 180gm HQ Virgin Vinyl.

### CASSANDRA WILSON: Blue Light 'Til Dawn.

If you own the Blue Note CD of this '93 release, discard it immediately, one listen to this reissue you will realise what you have been missing. Classed as 'modern jazz', this album is soulful with undertones of blues; "Hellhound On My Trail" gospel; "Sankofa" and rich percussion; "Estrellas". The recording is solid and full of detail, there is just so much mood and air, it is shocking. Next month her latest release! £25

### MILES DAVIS: The Birth Of Cool.

This is a must own for any collection, Miles' first album. Miles led the Birth Of Cool Band for only two weeks of live shows, but these later recordings capture a flowing and contemplative sound quite different from bop's frenetic style. Lee Konitz's fragile alto sound and Gerry Mulligan's velvety baritone are crucial to it, as is Gil Evans' use of unusual instrumentation. £25

**ARMSTRONG & ELLINGTON - Complete Sessions.** Although these sessions have never been highly regarded for Ellington's input, they are considered some of Armstrong's finest. With all the material composed by Duke Ellington, Louis stamps his mark on it from the opening tracks, the results are both moving and quietly eloquent, Louis shines. £25

### RICKIE LEE JONES: Girl At Her Volcano (10")

Rickie Lee Jones has recorded many albums in her career, but in my opinion there are only two real stand out classics, one being her first album, 'Rickie Lee Jones' and the second the 10" EP 'Girl At Her Volcano', where Rickie Lee covers such classics as; "Lush Life", "Hey, Bub", "Under The Boardwalk", "My Funny Valentine" and my all time favourite "Walk Away Rene". This is a wonderful 10" that I never tire to hear, I was so pleased to hear of this Virgin Vinyl reissue, it well deserves true audiophile recognition. (Not 180gm) £20

**HERBIE HANCOCK: Cantaloupe Island.** By 1963 herbie Hancock was a regular Blue Note side man as well as record artist in his own right. "Cantaloupe Island" catalogues Hancock's greatest cuts from this period. From "Cantaloupe Island" (a classic track from which this album is named) and "Maiden Voyage" masterpieces from the 'Empyrean Isles' album to "Watermelon Man" a bona fide hit single! This is essential Hancock not to be missed. £25

**ELVIS PRESLEY: Elvis Presley.** This can be said to be the album that changed the course of popular music forever. Although it only features one top 20 hit "Blue Suede Shoes" this album also features renowned songs like "Blue Moon" and "Money Money". £25

**JOSE FELICIANO: Feliciano!** Soulful vocals accompanied by a laid back sparse acoustic with woodwind arrangements, best describe Feliciano's style. This album may be best remembered for Jose Feliciano reviving the Doors 1967 million-seller hit "Light My Fire", which pushed 'Feliciano!' to No.2 in the Billboard chart. £25

**JEFFERSON AIRPLANE: Surrealistic Pillow.** £25  
**LOU REED: TRANSFORMER.** 'Transformer', co-produced by David Bowie, portrays Reed as a hermaphrodite glam rocker. Considered Reed's best and most commercially successful album 'Transformer' brought him worldwide acclaim. It is a classic album that features the hit single "Walk On The Wild Side". £25

**ELVIS PRESLEY: Elvis Presley.** This can be said to be the album that changed the course of popular music forever. Although it only features one top 20 hit "Blue Suede Shoes" this album also features renowned songs like "Blue Moon" and "Money Money". £25

**JOSE FELICIANO: Feliciano!** Soulful vocals accompanied by a laid back sparse acoustic with woodwind arrangements, best describe Feliciano's style. This album may be best remembered for Jose Feliciano reviving the Doors 1967 million-seller hit "Light My Fire", which pushed 'Feliciano!' to No.2 in the Billboard chart. £25

**JEFFERSON AIRPLANE: Surrealistic Pillow.** £25  
**LOU REED: TRANSFORMER.** 'Transformer', co-produced by David Bowie, portrays Reed as a hermaphrodite glam rocker. Considered Reed's best and most commercially successful album 'Transformer' brought him worldwide acclaim. It is a classic album that features the hit single "Walk On The Wild Side". £25

## New - Books & Magazines

We now have in stock the following U.S. Imported Magazines.

### the absolute sound

Although many believe that TAS is no longer with us we have in stock the following exciting new issues.

TAS 100 For Information call	£8
TAS 101..For Information call	£8
TAS 102 Analogue Issue	£8
TAS 103 Special Recordings	£8
TAS 104 Quo Vadis High-End	£8

### the tracking angle

The tracking angle is an exciting new magazine written by Micheal Fremer. Following the success of his column in TAS Micheal has launched his own music review magazine.

TA 001 The First Issue	£5
TA 002 What Makes A Classic Record	£5
TA 003 Zen And The Art Of Record Cleaning	£5
TA 004 The Rolling Stones LPs & CDs Survey	£5
TA 005 Double Issue which includes; Hendrix LP & CD survey, Interviews with engineers Eddie Kramer & Shawn Murphy. Sill only	£5

### FI

Another new magazine distributed exclusively by Audiophile

International. FI is a stunning new U.S. publication written by such talents as Wayne Garcia, Ken Kessler, Jonathan Valin, Dick Olsner, Skip Rudolph and many others. Issues 2 & 3 now in stock @ £5.75 including P&P



Fi 02 Interviews Brian Wilson + Music + Audio Plinius, Audio Research, Altis, Sound Lab, VAC.  
 Fi 03 Sinatra Generation Man + Music + Audio: Well Tempered, Gallo Nucleus, Thiel CS 1.5...

## Recommended CDs & LPs

The following are recommended by Audiophile International Ltd. For Sonics or content.

TORI AMOS - Boys For Pele (US import)	Stunning new album. Two LP Clear Virgin Vinyl set	£15
CRANBERRIES - Everybody Else is Doing it so..		£12
CRANBERRIES - No Need To Argue		£10
CRANBERRIES - To The Faithful Departed	Limited edition yellow virgin vinyl with 9 panel full colour fold out poster. (limited quantity)	£10
EAGLES - Hell Freezes Over (2LP set)		£17.75
k.d.LANG - All You Can Eat (US import LP)		£12
BRIAN ENO - Passengers (US import LP)		£12
TERRY EVANS - Putting It Down (HQ 180gm LP)		£17
HQ CD		£15
BEATLES - Anthology Volume 1 (3LP set)		£22
BEATLES - Anthology Volume 2 (3LP set)		£22
RED HOT CHILI PEPPERS - Out In LA (US import)	An album that captures the best of this groups talents. 19 unreleased cuts, rare versions and club mixes.	£10
STING - Mercury Falling (LP)		£12
PULP - Different Class (LP)		£10
DIRE STRAIGHTS - Live At The BBC (LP)		£9
TINA TURNER - Wildest Dreams		£10
RADIOHEAD - The Bends		£10
BRYAN FERRY & ROXY MUSIC - More Than This		£10
TRAINSPOTTING - Movie Soundtrack		£10
THE THE - Dusk		£9

## Audiophile International Ltd. P.O. Box 303, Chobham, Surrey, GU24 8YP.

If you really like music and want a better selection of the latest releases on standard vinyl, gold CD and audiophile vinyl as well as the reassurance that your order will reach you safely you ought to join our world wide data base. Send £3 in postage stamps for our huge gloss catalogue (includes £3 refundable coupon) which contains the UK's largest selection of audiophile recordings. Then every month receive free of charge 'update' catalogues containing new releases and used mint condition LPs. To order call one of our numbers, your order will be handled that same day. First LP £3 additional 75p. First CD £2 additional 25p. Orders sent First Class Recorded. For large orders we offer Parcel Force Next Day fixed Price (any weight) £6.75.



# Oxford Audio Consultants

## HI-FI SPECIALISTS



Our superb service is the same, regardless of price.

**KRELL INTEGRATED AMP**  
- yes, we've finally got it !!  
- product of the year 1996

## NOW DEMONSTRATING

KRELL FB300 - Yes, A NEW AMPLIFIER FROM KRELL - SENSATIONAL!  
COPLAND CD288 CD PLAYER - incredible sound quality for £1800  
SONUS FABER CONCERTINO - £600 a knockout!  
KRELL KPS30i CD PLAYER - a 'budget' version of the KPS20  
WILSON WITT & SYSTEM 5 - the ultimate!  
MUSICAL FIDELITY F23 / F16 - new and much improved!  
UNISON RESEARCH SMART 845 POWER AMPS - whew!  
CASTLE HOWARD MK2, HARLECH & SEVERN - quality wood finish  
SPENDOR SP7 floor standing speakers  
SHUN MOOK ACCESSORIES - fascinating!  
MARANTZ CD17 AND 63 SIGNATURE CD PLAYERS  
ONKYO THX919 A/V RECEIVER - SIMPLY STUNNING!  
MARTIN LOGAN AERIUS & SL3 - electrostatics at their best  
ROGERS LS33 SPEAKERS - a replacement for the LS2  
TEAC VRDS 10SE CD PLAYER - the follow up to the very successful 10  
THORENS AMPS AND CD PLAYER  
B & W SILVER SIGNATURE LOUDSPEAKERS - a work of art  
QUAD 77 CD PLAYER AND NEW 77 PRE AND POWER  
QUAD ESL 63 LOUDSPEAKERS  
MICHELL ORBE TURNTABLE - superb value for money  
REL STORM/STRATA/STADIUM II/STENTOR - redefines our ideas about subwoofers  
RUARK PALADIN - A worthy big brother to the Talismans  
TDL NUCLEUS SUBWOOFER - astonishing value for money

## EX DEM & P/EX BARGAINS

KRELL KRC 3 PREAMPLIFIER	£2495 XD
KRELL MD1 CD TRANSPORT	£1995 SH
AUDIO RESEARCH LS3B	£1395 SH
B&W CDM 1	£495 XD
SPENDOR PRELUDE 2/2	£295 SH
DPA RENAISSANCE INTEGRATED AMP	£449 XD
DPA PRE/POWER	£950 XD
NAD 302	£149 XD
NAD 402 TUNER	£129 XD
KRELL KSA100S EX DEM	£4795 XD
MAGNEPLANAR MG1.4	£495 sh
MARANTZ PM44SE MK 2 NEW	£149 NEW
KRELL KSA50S EX DEM	£2795 XD
ARCAM XETA ONE	£695 SH
ARCAM DELTA 290P POWER AMPS	£295 EACH
ATC 20 LOUDSPEAKERS	£695 SH
SNELL J 2 SPEAKERS INC PIRATE STANDS	£495 SH
BURMESTER 785 PREAMP	£395 SH
AVI 2000 MONOBLOCK POWER AMPLIFIERS	£695 SH
LINN INDEX WITH STANDS	£250 SH
ORELLE CD480 CD PLAYER	£295 SH
LINN KABERS WALNUT	£695 SH
ROTEL RT950 TUNER	£150 X
CLASSE DR15 POWER AMP	£1695 sh
ORELLE CD10T	£495 sh
AUDIO RESEARCH LS5 PREAMPLIFIER	£1995 XD
KINSHAW PERCEPTION DAC	£295 XD
RUARK BROADSWORD B STOCK	£595 XD
APOGEE CENTAUR	£995 sh



# Oxford Audio Consultants

Oxford Audio Consultants, Cantay House, Park End Street OX1 1JE  
Telephone: Oxford (01865) 790879 Facsimile: Oxford (01865) 791665

# Pure Sound

We want your used quality kit!  
Hear the fabulous Audio Physic speaker range here!  
A selection of our used and ex-dem bargains:

Amps	
Convergent Audio Technology CAT SL 1 phono preamp (as new)	£2.550
Marantz Ma22 monoblocs and matching SC22 preamp, gold	£1.650
Exposure Super 8 power 11 and 12 preamp and PSU	£745
Lumley Reference passive preamp (chrome)	£250
Alchemist Kraken preamp and pair power amps, anniversary edition	£845
Krell KSA 250	£3.500
Audio Research VT60	£1.800
Audio Note Meishu	£2.250
Arion Elektra export	£999
Digital	
Marantz CDA94 (Balanced And unbalanced outputs - excellent sound	£650
Audiomeca Damnation CD transport	£775
LFD DAC 3	£2.250
Audi Note DAC3 signature	£1.650
Meridian 208 Transport + DAC, remote control preamp, (inc. volume control)	£650
Turners	
Technics ST-9600 (one of the superb analogues, AM/FM)	£625
Turntables	
Mitchell Gyrodec / Well tempered arm / Supex cartridge	£825
Speakers	
Audio Physic Virgo (ex demonstration)	£2.950
Audio Physic Step (slightly marked)	£799
Ruark Talismans (walnut)	£320
Triangle Altinis (beautiful speaker, sensitive for low power valve amps)	£1.499
Triangle Scalene speakers (smaller, but also good with valves) £	£350
Lumley Reference 4s - bookshelf speaker - amazing value	£215

01784 458176 0831 178740  
(London, West)

# diverse vinyl

A vinyl service aiming to cover the whole music spectrum est 1988  
12 Upper Dock Street Newport Gwent NP9 1DF. 9am - 5.30pm Mon - Sat  
phone/fax 01633 256261 / 259661

Mastercard Visa Catalogues available Amex Switch JCB

### New and forthcoming Releases

Ash	1977	3.99
Blackbyrds	First Album	8.90
Ben Folds Five	Ben Folds Five	9.50
Bob Mould	Bob Mould	7.90
Crowded House	Recurring Dreams - best of	TBC
Cure	Wild Mood Swings	10.90
Def Leppard	Slang	10.50
Electronic	Raise The Pleasure	TBC
Elvis Costello	All This Useless Beauty US	10.50
George Michael	Older	10.50
Grant Lee Buffalo	Copperopolis	3/6 TBC
Hawkwind	Love In Space	10.90
Hootie And Blowfish	Fair Weather	10.50
Ian McNabb	Mersey Beat	10.90
Incognito	Remixed	TBC
Joe Henderson	Canyon Lady	8.90
Joe Henderson	If You're Not Part	8.90
Manic Street Preachers	Everything Must Go	9.90
Melanie Garside	Fossil	6.90
Metallica	Load	3/6 TBC
Mother Earth	Desired Effect - live	8.90
Nigel Kennedy	Kafka	17/6 TBC
Northern Uproar	Northern Uproar	8.90
Orbital	In Sides	12.90
Porno For Pyros	God's Urge	9.90
Slayer	Undisputed Attitude	11.90
Sleeper	It Girl	8.90
Smashing Pumpkins	Melon Collie	14.90

### Current Stock Selection

Alan Parsons Project	I Robot / Eye	each	7.90
Betty Blue	Sound Track		10.90
Busta Rhymes	The Coming		10.90
Cranberries	To The Faithfull Departed		8.90
Divine Comedy	Casanova		7.90
High Llamas	Hawaii / Gideon Goye	each	10.90
Lisa Loeb	Tails - US		12.50
Longpigs	Sun Is Often Out		9.90
Mark Morrison	Return Of The Mack		10.90
Nearly God (Tricky)	Nearly God		8.90
Puressence	Puressence		7.50
Ronny Jordan	Light To Dark		9.50
Skunk Anansie	Paranoid And Sunburnt		7.90
Sly And Family Stone	High On You		7.90
Stone Temple Pilots	Tiny Music - US		11.50
Suzanne Vega	Days Of Open Hand		7.90
Various	Best Of Black Jazz Records		11.90
Weather Report	Sweetnighter		7.90

coming July, 1996:

## Liberty Audiosuite v.②

Versatile, sophisticated, and cost-effective FFT, MLS, Sinewave, RTA and distortion analyzer system for Engineering and Production Control.

### Now with

- \* Automatic adjustments: input sensitivity, display gain and scale, anechoic windowing
- \* Pass/Fail testing for production
- \* RTA with A,B,C weighting and math
- \* Frequency response math and editing
- \* File save, retrieve and ASCII export for compatibility with CAE/CAD/simulation packages
- \* Powerful programmable script interpreter
- \* Comprehensive feature rich system, now adds built-in Easy Scripts for *extremely* simple operation
- \* Plus all the powerful features of LAUD v1!!

System with Software, Calibrated Mic, Preamp, Probes, and DSP ISA card \_\_\_\_\_ £630.00  
Upgrades from version 1 \_\_\_\_\_ £85.00

call or fax for FREE DEMO DISK

Tony Seaford  
MARTON MUSIC  
phone / fax 01282-773198

# Bravura

## ...the horns for valves

*The things they say!...*

"...transparent and dynamic, but unlike the conventional box speaker bass, it's devoid of the extra colour introduced by large cabinets and drive units...the bass is lean and fast"...I was frequently surprised at the genuine weight the Brios found on my records"  
**Jason Kennedy, EAR, Hi-Fi Choice**

"It's quality bass, too... with all the scale and power you could wish for. It stays taut with bass guitar for example, having the agility to follow plucked strings..."Overall, I can only describe the way the Brios convey music with authority, thrusting every note forwards, as majestic."  
**Dominic Baker, Hi-Fi World**

"... these speakers communicate astonishingly well at times. A good piano recording could sound wonderfully lifelike..." the Bravura is a real horn speaker, and, unlike some contenders is really sensitive enough to work properly with low-powered single-ended valve amplifiers..."If this is your chosen path there is probably nothing better. And if realism means achieving the feeling that the performers are there in the room with you, the Bravura Accelerandos can do it."  
**Steve Harris, Hi-Fi News**

*...but don't take their words for it, ask for a demo: to hear is to believe*

**Audion Δ Bravura Δ Border Patrol  
Nottingham Analogue Δ Trichord  
VRR**

Thomas Transducers  
White House Hall, Hadlow Road, Tonbridge, Kent TN11 0AJ, UK  
T: +44 (0)1732 851408 F: +44 (0)1732 850315

# K

A stunning range of valve amplifiers

What Hi-Fi Elektra review  
"A superb valve amp"

# R

CD at its very best... Transports, Players, DACS.  
Exceptional looks... Exceptional sound

# O

Loudspeakers from £325 to £3750  
TE60 amp £649  
Extreme Neutrality Extreme Musicality TE60/Comete Tze "There aren't many systems which convey this much detail regardless of price"  
HFNR 1994

# N

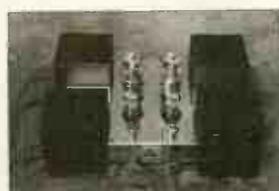
# O

# S

Practical Hi-Fi	Manchester & Branches 0161 839 8869
Signals	Ipswich 01473 622886
Sound Approach	Norwich, Norfolk 01603 622833
Kronos Hi-Fi	Dungannon, N.Ireland. 01868 748632
Progressive Audio	Rainham, Kent 01634 389004

AVAILABLE FROM

RJF Audio Visual	Camborn, Cornwall 01209 710777
Northwood Audio	Aylesbury, Bucks. 01296 28790
Select Audio	Clapton, London 0181 986 8788
Kamla	Tottenham Court Road, London 0171 323 2747



ARION



AUDIOMECA



TRIANGLE

**KRONOS have been appointed distributors for Silver Sound cables**

**Tel 01868 748632 Fax 01868 748281**



# AUDION

EST.1987



Gold MEDAL WINNERS do it AGAIN!!!

## ANOTHER GOLD MEDAL!!

THE AUDION SILVER NIGHT  
RECEIVES STATE-OF-THE-ART  
BEST OF 1995 AWARD  
AUDIO ART MAGAZINE  
TAIWAN



### THE NEW STERLING "E.T.S.E." STEREO

UNBELIEVABLE BUT TRUE!

ONLY £599.00 inc

A NEW EXTENDED TRIODE SINGLE ENDED "CLASS A" AMPLIFIER

COMPLETE WITH AUDION'S FAMOUS "A" RATED GOLD MEDAL WINNING SOUND

LONDON  
K J LEISURE  
0171 4868 262/3

HERFORD  
ENGLISH AUDIO  
01432 355081

NOTTS  
CHANTRY AUDIO  
01777 870372

SUSSEX  
JEFFRIES  
01273 609431

HEATHROW  
AUDIOCRAFT  
01895 253340

ABERDEEN  
ASTRAL  
01224 582825

SURREY  
FARNHAM AUDIO  
0370 435952

HUMBERSIDE  
ZEN AUDIO  
01482 587397

NORFOLK  
AUDIBLE DIFFERENCE  
01379 740227

HARROGATE  
SOUNDS ADDICTIVE  
01423 536256

KENT  
PROGRESSIVE AUDIO  
01634 389004

### OVERSEAS DISTRIBUTORS

SWEDEN  
ALEMA  
+46-8-7701957

JAPAN  
SB INTERNATIONAL  
+81-3-34057177

AUSTRIA  
LOVING SOUND  
+43-316-82281044

ITALY  
ART OF MUSIC  
+39 51-231172

CANADA  
CANORUS INC  
+1-416-972-0320

HOLLAND  
AUDIOVORM  
+31 23-322774

SINGAPORE  
LANDMARK AUDIO  
+65-3383867

PHILIPPINES  
UPSCALE  
+632-741567

GERMANY  
MARVEL HEISS  
+49-234-37430

GREECE  
EXCLUSIVE  
+30-1823622655

SLOVENIA  
K.A.T  
064-43391

AUSTRALIA  
KEBKORP PTY  
+61-2-708-4388

HONG KONG  
ELITE AUDIO  
+852-530-1567

PORTUGAL  
LUZESOM  
+351-2-9532235

TAIWAN  
FOCUS AUDIO  
+886 2 8481193

SPAIN  
MULTIMEDIA  
+34 77 240794

FRANCE  
MAGAVOX  
+33-59321134

SWITZERLAND  
MAR ELECTRONIC  
+41-1463-81-05

AMERICAN CUSTOMERS CONTACT CANORUS +416 972 0320

**AUDION AMPLIFIERS UNITED KINGDOM**

**FACT NOT FICTION**

**ALEMA UK FAX 01273 722250**

# Sound Stage Audio

Covering Scotland and the North of England

## INTRODUCING THE MILLENIUM

The **Millenium** loudspeaker is manufactured without compromise from only the finest of materials. Solid Canadian Maple panels (38 mm) house state-of-the-art **focal drive** units in cabinets whose softness of styling bellies their substantial construction & 70 kg weight. Silver wiring features throughout, not least between the select components of the external x-overs.

A sensitivity of 93,5dB and 10 ohms nominal impedance ensures superb dynamic results with the finest single ended valve amplification. This coupled with the exquisite styling and a sound quality that outshines many far more expensive loudspeakers, make the **millenium** a perfect match to any high-end system.

Other agencies include; **Art Audio** valve amplification including the exclusive launch of the new Art Audio single ended 15 watt 300B stereo amplifier incorporating the ground breaking new VAIC 300B tube.

We also stock the outstanding **Gamma Rhythm 211/VT 4C** integrated phono amplifier offering staggering levels of sonic performance for both CD and phono. This coupled with turntables from **Nottingham Analogue** and CD players from **Trichord** and the very individual **Meracus** transport and DAC, will give you the opportunity to experience the very best in audio.

## PART EXCHANGE AND SECOND HAND ITEMS FOR SALE

Audio Note Mieshli 300b Integrated amp (ex. dem.)	£1850
The Voyd turntable	£900
Hellis Orion 4 tonearm (ex. dem.)	£510
VDH Zeta tonearm	£295
VDH MC one cartridge 50oh use (£1000 new)	£280
Krell KSA 250	£3450
Agathon Horning Signature	£1800
Theta Data MKII transport	£call
Theta Gen III DAC	£call



## Sound Stage Audio

Coronation Buildings, 6 South Hill Street  
Burntisland Fife, KY3 9DU, Tel/Fax 01592 - 874145

## Gramophone Audio Awards



I must say that it is very gratifying to find so many of the products that we recommend receiving either 'Audio Classic' or 'Audio Choise 1996' Awards in the January issue of Gramophone. These include Classic Awards for the ATC SCM 50A Speakers, the Chord SPM 800 amp, and the AVI S2000MP/MA, with 'Choise 96' awards for the ATC S2000 MI and Heybrook's Sextets. With recommendations for the ATC SCM 10, Ruark Tallysman, Crusader and Equinox, the Heybrook Quartets, the AVI S2000MC CD Player, the Chord 1200B, and the Shearne Phase 2 integrated amplifier, then the only major omissions are the Electrocompaniet range of amps and speakers plus the Alon speakers referred to at length in a previous advert. Both of these ranges are however new to the UK market and have not been reviewed yet by Gramophone.

So as you can see, we have selected our product

range carefully and feel we have something here to suit most people. One item we haven't referred to much is the Chord 800, mainly because it is at a price disadvantage in comparison with AVI, but it is an excellent amp and particularly suited to driving the Alon range and passive ATC50s, so do come and have a listen to its particular qualities.

## HEYBROOK QUARTET/SEXTETS

Mention of the Heybrook Awards above reminded me of a recent demonstration given to a customer who was finding great trouble with certain CD recordings and found the Quartets produced a particularly sweet treble and really the only criticism one could make is lack of real bass. Matched with the Jamo SW600 subwoofer, however produced a huge sound for just over £1000.

## P/E BARGAINS

A Trilogy 902 Line-Level Pre + 958 100W Monoblocks (all valve) retailing at £4600, bargain at £1900

B Previous AVI Pre at £500 Phono Stage £100

C Micromega T-Drive + T-Dac £1100.

D AS (C) but Trichord clocked at £1200.

E Musical Fidelity F15 hybrid power amp at £1000.



**V'audio** Hi-Fi Consultants  
36 Druid Hill, Stoke Bishop, Bristol BS9 1EJ  
Tel/Fax: 0117 9686005





# west midlands audio

consultants

**We can offer comprehensive demonstrations from:**

Arcam, Audiolab, Bang and Olufsen, Epos, Kef, Linn, Marantz,  
Martin Logan, Micromega, Naim Audio, Nad, Nakamichi, Rega, Rel,  
Rotel, Royd, Sonus Faber, Teac, Theta, Yamaha...

**We always have a good selection of second hand part exchange equipment**

**Service and repairs undertaken**

**Musical Evenings**

**0% Finance on selected items**

**Home cinema and Multi-room systems**

**Delivery and installation**

158 ombersley road worcester wr3 7ha england  
telephone: 01905 458046 and 756767  
facsimile: 01905 457585  
e mail: 100747,2057

## MANTICORE MAKE MORE MUSIC

Turntable Servicing - all makes - please ring for details.

### ARISTON - LOGIC - THORENS SPARES

Arm rewiring - Manticore standard cable	£94.50
Arm rewiring - Van den Hul. Isoda	£168.00
Arm rewiring - Cardas	£168.00
Silver plated mains cable with IEC socket	£52.50
Aerolam equipment support	£58.50
Fibrelam equipment support - superior performance	£136.50
Mantra replacement belt - supplied in twos	£23.10
Logic DM101 belt - supplied in twos	£23.10
Logic DM101 spring sets	£24.15
Rega armspacers - polished aluminium 1mm increments	£12.00
Impex motor, pulley and PCB	£100.00
Manticore Jazz turntable - choice of tonearms	POA
Manticore Magister with 12" Magician	£3,990.00
Manticore Mantra turntable - the classic - no arm	£525.00
Manticore Musician tonearm	£425.00
Manticore Magician tonearm	£750.00
Manticore 12" Magician tonearm	£850.00
<i>Part-ex available against all other tonearms</i>	
MB5i off-board power supply "suits most decks"	£320.00
MB6 off-board power supply	£520.00
Motor rebuild	£170.00
RIAA and preamplifier "system Integrity wiring"	£690.00
Active crossovers and AV amplifier	POA

Please telephone or write for more information and a copy of Mumbo Jumbo



### MANTICORE AUDIO VISUAL

MAV Shareholders Ltd.  
35 Saffron Road 8DJ  
Biggleswade, Beds. SG18  
Tel: 01767 318437 (office) and 0585 583653 (mobile)

## TECHNICAL INFORMATION BULLETIN No. 1

### MANTICORE TURNTABLE POWER SUPPLIES

Manticore Audio Visual's range of power supplies suit all turntables fitted with the Phillips Impex range of AC synchronous motors. This includes Manticore (of course!). Linn, Rega, Logis, Ariston (not all models), Systemdek and many more. Our power supplies can also be adapted to other AC synchronous motors and we have built up a lot of experience over the years in this area.

The entry level model, the MB5i, is a quartz crystal based amplifier that runs at 33 and 45 RPM. The highly sophisticated MB6 in addition, has a computer referenced phase lag and separate amplification for each set of poles of the motor.

Manticore has the policy of helping our customers to progress along the upgrade path, and we will always take an MB5, or mb5i in part exchange at full cost price against an MB6. Consequently we often have pre-owned MB5 or MB5i in stock at very good prices.

A detailed specification sheet is available for both current models.

We believe the MB6 to be the finest turntable power supply on the market. Our customers agree, and we have many testimonials to that effect. A sample of these is contained in the product information pack.

Our products are very reliable. At the time of placing this advert, no production MB6s have ever gone wrong in the field.

All Manticore Audio Visual products come with a lifelong guarantee. This is qualified in the following way - electronic components, such as transistors, are guaranteed until the end of their reasonable working lifetime. Mechanical assemblies for the most part manufactured by us are guaranteed until the reasonable end of their specified design life. The first Mantra was produced 12 years ago and is still in fine shape.





**THE  
APEX 100 SERIES  
SOUND EXPERIENCE**



- FEATURING**
- PASSIVE CROSSOVERS
  - ACTIVE CROSSOVERS
  - ALUMINIUM CONES
  - WOOD VENEERS
  - OFC CABLING
  - STANDS

**Q.T.A. SYSTEMS**  
2 WHEATSHEAF WAY · LINTON  
CAMBRIDGESHIRE · CB1 6XB  
TEL: 01223 891091

## Radlett Audio

### WHICH IS BEST?

I'd like a fiver for every time we're asked "Amplifier A or B, Speaker X or Y?" But how would you answer questions like - Is Mushroom better than Tomato soup? or is Porridge preferable to cornflakes? Of course it's all down to personal taste and likewise with Hi-Fi equipment, where the final choice must be the customer's. But to make the choosing easier, we only stock the best. Varying prices and different sounds yes, but definitely no junk or flavours-of-the-month to unload onto the unwary.

### GET IT RIGHT THE FIRST TIME!

Audio Alchemy \* AVI \* Apogee \* Audiolab \* Aura \* B&W \*  
Cable Talk \* Castle \* Creek \* Denon \* Ear \* Groove Tubes \*  
Harbeth \* Heybrook \* IXOS \* JBL \* Kontak \* LFD \* LYRA \*  
Marantz \* Mark Levinson \* Michell \* MIT \* Micromega \*  
Musical Technology \* Myryad \* Notts Analogue \* Klipsh \*  
Ortofon \* PROAC \* Proceed \* Quad \* REL \* Rotel \* Revolver  
\* Ruark \* SD \* SME \* Spondor \* Stax \* Sumiko \* TEAC \*  
Trichord \* Tube Technology \* WBT \* XLO

We ship practically everything, anywhere

**9 Holywell Hill, St. Albans,  
Hertfordshire, AL1 1EU**  
☎ 01727 855577

# Classified Ads

For details on how to place a Classified Advertisement, please see page 137

**NAIM/LINN BUY/SELL. 52, CDS, 250, 135, 140, HICAP, ARO, 72, 82, ETC**  
**TEL BOB 01382 819732**

**STAX LAMBDA** Signature headphones with SRM-1/Mk-2 Pro energiser. Boxed, complete with instructions and leads. Excellent condition. Cost £1300, sell for £590. Stax SR-3 headphones £40.  
 Tel: 01604 832862 (Northampton)

**MORDANT-SHORT 5.40 + 8"** Stands, mint, cost £370, £220 or exchange for EPOS ES II. Denon PMA 450 SE amplifier, mint, £190 o.n.o.. Arcam Delta 90.2, £190  
 Tel: Richard 01908 563737

**NAIM 32.5** Pre-Amp, fitted K board phono. Good condition. £175  
 Tel: 01623 759264 (after 6pm)

**LOWTHER CORNER** Horns with refurbished speaker units. Highly sensitive. £550. Concordant Exhilarant line level pre-amp, wooden and/or metal case. Superb sound quality £400.  
 Tel: John 0181 202 3307

**WANTED: LINN K18.** Either alone or with late model Ittok. Also wanted, Hi Fi World 12" record storage cubes. Milton Keynes area.  
 Tel: 01908 647798

**BEARD BB100** Mk II, 50 watts/channel valve amp. Mint condition, boxed with instructions. Stunning sound and looks. £650. Wanted: Teac P500/D500, SD Acoustics Ribbons, original Roksan DPL.  
 Tel: Noel 01628 521885 or 0956 688506

**WANTED: MARANTZ SX-72** Digital noise suppression unit or something similar.  
 Tel: 01843 587732

**MARK LEVINSON** Madrigal HP interconnect cable, 7 metre stereo pair £450 (£995). Peter Sanhen SP 1.5 pre-amp, unusual but highly regarded design, very rare high resolution pre-amp with phono stage £850 ono (£2350 new)  
 Tel: 0181 291 1744

**QUAD ESL** Lovely pair £395. Spendor SPI mint £375. Grace G707 arm boxed £65. Kmal M9BA arm new £45. Leak Stereo 30 as new £75. Wanted: Naim; ARO, NAC72, Prefix, Armageddon. Linn: Ekos, Lingo, SME IV.  
 Tel: Peter 01203 713501 (Coventry)

**TRILOGY AUDIO 918** Pre-amplifier, one year old in as new condition (boxed) £1950 ovno (£2950 new)  
 Tel: 0181 291 1744

**MUSICAL FIDELITY F22** pre-amp (phono) £650; and F15 power amp £1390, both as new. Meridian 206 CD player £450. Roksan Xerxes XPS2 £390.  
 Tel: 0181 337 2544 (eves)

**MERIDIAN 200** Transport, 203 DAC, excellent condition, very little used, two years from new, bargain £595 for quick sale. Metre pair Chord First Interconnects £75  
 Tel: 0123 732828 (Eastbourne)

**QUAD 67** Mint condition, hardly used, brilliant sound. Dual 435 turntable + 510, mint both boxed and manual £650 the lot.  
 Tel: 0385 783900

**TANNOY BERKELEY** loudspeakers, excellent condition £550.  
 Tel: 0191 281 0260

**BREUER DYNAMIC** Tone arm in perfect working order £750  
 Tel: 0191 281 0260

**SONIC FRONTIERS SFD1 DAC** (balanced) HD CD compatible, amazing sound, boxed as new, 1 year old - 4 years warranty remains. Bargain at £1800 OR will sell together with Theta Data Basic, 1 year old £3450. A fabulous combination.  
 Tel: 01623 871950

**REVOX B77** Stereo reel to reel tape recorder. Speeds 3 3/4 and 7 1/2. Hardly used and recently serviced c/w remote, instruction book and cover. £595.  
 Tel: 01383 821873

**QUAD 34 PRE-AMP** and 303 power amp £250. B&W Acoustitune subwoofer £100. Wanted: Linn Karik CD player and Linn K400 speaker cable.  
 Tel: 01622 858085

**AUDIO INNOVATIONS** Classic 25W amplifier (factory built) plus 834 P phono stage. Approx 20 months old, 1st class condition, 16 months guarantee outstanding. £600  
 Tel: 01277 220 761

**ALLBARY 408** mono blocks (£475 ono). van den Hul silver, 3 off 0.5m pieces; gold 2 off 0.5m pairs. Offers for cables considered. Call Mike.  
 01482 666910

**MARK LEVINSON ML 12A** pre-amplifier with PLS-124 power supply and MLII power amplifier. Original boxes and manuals. Happy to demonstrate £1500.  
 Tel: 0191 281 0260

**LOWTHER LONDON TPI** corner horns incredible dynamics from these full scale classic speakers. PM2C drive units. Cabinets Teak and Black. A bargain at £750 ovno. Buyer collects.  
 Tel: 01736 798393 (Cornwall)

**TANDBERG TUNER 3011** or 3011 wanted for parts, perhaps lying forgotten in your attic.  
 Tel: Martin 01837 840438

**LINSLEY HOOD HART** monoblocks, approx 100wpc, handbuilt with silver wire throughout £425 ono.  
 Tel: Geoff Mackenzie 01293 771542

**NEAR 10M SPEAKERS** Won in Jan comp. Unused. (£499) £399 ono. Swap my Roksan DAC DA1 for your Meridian 203 DAC. Wanted: Bassmid for orig Heybrook HB2.  
 Tel: 01203 469363

**MICHELL GYRODEC** with Rega RB 300 £600. Perspex PSU £50. As new condition, 2 years old. Spendor SP2 speakers £125.  
 Tel: 0181 427 6936

**WANTED: SUGDEN A21a** with phono stage.  
 Tel: 01287 625166

**WANTED: TWO LEAK** Sandwich loudspeakers. Must be 8 Ohm impedance and in good condition/working order, within easy reach of Oxford please.  
 Tel: Bob 01865 62554

**NAIM 135s** WANTED or 4 pack, also matched pair NAP 250s (follow on serial nos) Black SBLs. may consider system any age or condition. Cash waiting, can collect, meet half way, whatever.  
 Tel: Paul 01924 271043 (eves)

**NAIM HICAPS**, 2 factory reconditioned old style, mint, boxed. Naim guarantee £385 each - 1 new style £440. New Ekos, boxed, highest offer secures, latest Sumiko SMO cartridge, 3 point mount for Ekos/ARO on demo.  
 Tel: 01924 271 043 (eves)

**LEAK TL12+** (pair) mint £495; Quad II (pair) £295; Quad II (pair) rebuilt £395; Leak TL/25+ £295; Quad FMII Tuner £40; Leak Troughline £95; Leak Point One Pre £45.  
 Tel: 01444 459196

**REVOX A77 MINT** £395. Revox A77 fair £150. Revox B77 mint £595. Garrard 401 SME arm/plinth £225. Roger Junior fair £95. Leak Stereo 30 plus and Stereofetic Tuner in Teak sleeve £125.  
 Tel: 01444 459196

**LINN KAIRN** phono £650. Linn Klout £1000, both excellent and as new.  
 Tel: 01248 712276

**NAIM NAIT 2** amp, new design, mint condition, boxed £250. Arcam Alpha 5 CD player, remote, mint condition, boxed £295. Garrard AP76 turntable £35.  
 Tel: Brian 01904 490796

**TOWNSHEND ROCK** MkII Merlin power supply Rega RB 300 Decca Gold cartridge £450 ono. Garrard 401 £140. Both decks in mint condition, unmarked.  
 Tel: 01707 372652 (Welwyn Garden City, Herts)

**GARRARD 301** TURNTABLE, White with original manual. Both mint. £195. SME 3009 arm with standard & Decca head shells £35. Audiomaster mono valve power amplifier, v.g. condition, revalued. £100  
 Tel: 0161 283 1689

**BOOKS. VALVE. DATA:** Iliffe (1966) £15; Bernards 157 (1963), 178 (1965) and 193 (1966) £5 each. Circuits: Mullard (1960) £10; Pre-Amp Cookbook (new) £10; Wireless Servicing, Cocking (1963) £15. Loudspeakers: Briggs (1958) £15; Design Cookbook (new) £12, or offers.  
 Tel: 01354 56217 (eves)

**SONUS FABER** Minima Amator £850. Lecson HLI horns £185. IMF professional monitors £450. All good condition. Phone for full details, maybe swap for large Maggies.  
 Tel: 01993 883882 (Oxon)

**AUDIOLAB 8000 C/P** £450. Target HJ15 stands £65. Mission DAD Sharkwire - 5m x 2, 10 awg x 0.08 speaker. 6m phono Neutrik, 91 x 0.08 OFC. Ditton 121s £30, NAD items.  
 Tel: 0121 553 4777

**LINN LP12 WALNUT**, Ekos, Troika £1050; Sara 9s, stands £385. Perfect condition, very little use. Exchange or purchase LK100, Klout.  
 Tel: 01492 650053 (eves/w/ends)

**MISSION DACS** + free QED Digiflex £110 ono.  
 Tel: 0115 929 8789

**WANTED: LINN LK100** amplifiers. Active Cards for Kabers. Must be in good condition. For Sale: Linn LK 280 power amps, in mint condition.  
 Tel: 01206 212023

**LINN SONDEK LP12.** Full specification, Cirkus, Lingo, Ekos, Arkiv, Trampoline £1750. Linn Kairn pre/A phono £800. Linn LK280 P/amp £350. All immaculate condition.  
 Tel: 01793 850847 (Swindon)

**LINN AXIS** turntable, K9 cartridge £225. Nakamichi amplifier 2, 50W £225. Both owned from new. Excellent condition. Makers boxes, manuals. Will sell separately.  
 Tel: 01243 606053

**LINN ISOBARIKS**, Walnut, 1987 spec, beautiful condition c/w stands and panels £875. Rotel pre/power 870, MA R352 speakers black c/w stands, offers, all mint.  
 Tel: 01530 831574

**THE VOYD TURNTABLE** mint condition with Rega RB300, new Denon DL304 cartridge, cost £1850 sell £850. Denon DRM 44 cassette new heads and capstans, spent £100, accept £120.  
 Tel: 01598 760247

**QUAD 606 POWER AMP.** Avondale Audio modified, boxed, instructions, mod details. Denon DR-M12 cassette deck, light use, boxed, instructions. AudioQuest Ruby interconnects, Exposure speaker cable 4 x 5m. Offers  
 Tel: Colin 01734 610485 (Reading)

**LINN SARA**, Black, spiked stands, boxed, can demo vgc £200 ovno.  
 Tel: 01342 324306

**SPENDOR SP2/2** Loudspeakers, black, mint condition, original packaging £375. Quad 44/405 pre/power amp £250. Carriage paid.  
 Tel: 01232 843663

**LINN ISOBARICS DMS**, recent dealer service £550. Naim 250 old style, good vintage £550. Sony Walkman Pro with dedicated Naim power supply £225. Snaps £50. Would consider PX late Mk2 Kans Naim 160.  
 Tel: 01422 372063 answerphone (Halifax)

**FOR SALE:** Sony Walkman Pro, excellent condition £150. Wanted: Naim 160 and CR5E  
 Tel: 01422 372063 answerphone (Halifax)

# hi Best prices for new, xdem & s/h equipment. fi

AUDIO RESEARCH Y140 monoblocks	mint S/H	£4995	SDNUS FABER AMATOR	as new	£2250
JADIS JA 80 monoblocks	mint S/H	£4995	MERIDIAN AS00	mint S/H	£495
KRELL KMA 100 monoblocks	mint S/H	£1895	B&W SILVER SIG + STANDS	mint S/H	£2995
AUDIO RESEARCH D125 (balanced)	mint S/H	£1995	WILSON WATT 3 PUPPY 2 + PAWS	mint S/H	£6500
UNISON RESEARCH SMART 845	as new	£2195	KEF 103.4	mint S/H	£695
MERIDIAN 605 monoblocks	mint S/H	£1395	SONUS FABER EXTREMA + Sds	mint S/H	£4395
EXPOSURE VIII	mint S/H	£250	HEAT CRITIQUE	mint S/H	£250
JEFF ROWLAND MODEL 3 monoblocks	mint S/H	£2495	PINK TRIANGLE VENTRICAL	as new	£595
ELECTROCOMPANET AW100	mint S/H	£1295	INFINITY IRS BETA	mint	£4995
AUDIO RESEARCH DHS mk II	mint S/H	£995	APOGEE SCINTILA	mint S/H	£895
MUSICAL FIDELITY P170 mkII	mint S/H	£295	THEEL CS 1.2	mint S/H	£1195
GRYPHON 500	mint S/H	£3495	ALDN 0.5	mint S/H	£750
COPELAND CTA 501	mint S/H	£995	ALON I	mint S/H	£995
BOULDER 500 AE	NEW	POA	SONUS FABER MINIMA AMATOR	mint S/H	£995
JADIS JA 500 monoblocks	mint S/H	£8995	SONUS FABER GUARNERI	mint S/H	£4495
EXPOSURE XVIII/XIX pre/pwr	mint S/H	£995	QUAD ESL 63	mint S/H	£1795
AUDIO RESEARCH Y70	mint S/H	£2250	LINN HELIX LS 150	mint S/H	£195
NESTOROVIC ALPHA 1 ISOW Monoblocks	mint S/H	£1495	MERIDIAN MI	mint S/H	£695
LFD PA1/LS1 pre/pwr	mint S/H	£895	BOSE ACOUSTIMAS V	mint S/H	£395
GAMMA ACOUSTICS REFERENCE 300B	NEW	POA	ALON II	mint S/H	£1495
AUDIOLAB 8000A mkII	mint S/H	£350	REL STENTOR ACTIVE SUBWOOFER	mint S/H	£1095
AUDIO INNOVATIONS S500	mint S/H	£525	THETA DATA / GEN III	mint S/H	£4995
PRIMARE 928 pre/monoblocks	mint S/H	£4495	DENON DASI / DPSI	as new	£9950
COPELAND CSA 14 mkII	mint S/H	£795	MICROMEGA STAGE 3	mint S/H	£650
GOLDMUND HINESIS 3	mint	£2250	EAD T7000/DSP7000 transp/dac	mint S/H	£2250
AUDIO RESEARCH D200	mint S/H	£1995	ACCUHASE DP80	mint S/H	£2495
JADIS JP80 mc	mint S/H	£5995	WADIA 22/26 Transp/dac	as new	£3650
CAT SLI	mint S/H	£2495	WADIA 12 dac	as new	£1195
NAIN NAC 82	mint S/H	£1495	AVI 2000 dac	mint S/H	£295
AUDIO RESEARCH SP15 mkII (black)	mint S/H	£2795	OURELLE DA180 dac	mint S/H	£295
TUBE TECHNOLOGY PROPHET	mint S/H	£795	P.S. AUDIO ULTRALINK	mint S/H	£895
GRYPHON BEL CANTO	mint S/H	£2495	DENON DDCSI	mint S/H	£2995
MC CORMACK ALD-1 Line/phono	as new	£1495	MC CORMACK DAC-1	as new	£795
MC CORMACK MICRO	as new	£395	KENWOOD DP-X9010 transport	mint S/H	£395
AUDIO RESEARCH SP8	mint S/H	£795	MICROMEGA MICRO DRIVE / DAC	mint S/H	£995
EXPOSURE XIV + IX	mint	£1495	NAIN CDI	mint S/H	£1195
HEYBROOK SIGNATURE	mint	£395	WADIA 32 AT+T	mint S/H	£795
CONRAD JOHNSON PREM 78	mint S/H	£6500	MARK LEVINSON 30.S/31	mint S/H	£13995
AUDIO SYNTHESIS PASSION	mint S/H	£350	GOLDMUND REFERENCE / T3F arm		
BURMESTER 808 Line/phono	mint S/H	£1795	mandrake cable	mint S/H	£10950
EXPOSURE XI + XII	mint S/H	£795	YOYO VALDI/HELIUS DRION (latest) mint S/H	£595	
TESSERAC TALA LINE	mint S/H	£795	ROCK PORT SERIES 6000 AIR BRACING ARM	POA	
CHRONOS pre-amp	mint S/R	£1495	YPI TMT Mk III	POA	
GAMMA ACOUSTICS GEMINI	new	POA	SME 20/2 A (with arm)	POA	
TESSERAC TAP-A Line/phono Ref pre. X-dem	as new	£3995	TRANSFIGURATION SUPREME	as new	£995
MUSICAL FIDELITY HVX	mint S/H	£995	DENON DL304	as new	£145
MC CORMACK TLC-1	as new	£895	QUICKSILVER HEAD AMP	mint S/H	£150
AUDIO RESEARCH BL-1	mint S/H	£550	YPI TMT MKII TRIPLANAR III	mint S/H	£2750
MARTIN LOGAN CLS12/ARCC1 Sds	mint S/H	£2995	PIERE LURNE J1/SL5	mint S/H	£2495
KINERGETIC SW800 SUB-WOOFER	mint S/H	£2995	TESSERAC TAMA phono stage mm/mc X-dem	£895	
GALD ACOUSTICS REFERENCE SYSTEM	mint	£2750	LYRA CLAVIS d.c.	mint S/H	£695
APOGEE DIVA+DAX (latest)	mint S/H	£3995	DAT SEQUERA FM Studio tuner	mint S/H	£2995
CASTLE DURHAMS	mint S/H	£1995	LYNX TUNER	mint S/H	£295
ALON Y mkII	as new	POA	Y.D.H. CRASHDOPER MK III	new	£1995
ALON Y	X-dem	£3250	STAX SR GAMMA + SRD Headphones	mint S/H	£295
SOUNDLAB A3	mint S/H	£3750			

MINT S/H - Second hand as good an example as we've seen anywhere

AS NEW - Typically less than 4 months old in new condition

X-DEM - Typically 'as new' but may be older

G.C/V.G.C - In perfect working condition but may be marked

## hi CHOICE fi

(0181) 392 1959

(0181) 392 1994 phone/fax

Equipment bought or part exchanged  
Full demonstration facility - by appointment  
Major credit cards accepted  
9.30am - 8.00pm 7 days

**DESPERATELY SEEKING TOP QUALITY HI-FI**  
due to the success of  
**The Hi-Fi Exchange**  
we have clients looking to purchase your equipment  
**Call now for best prices**  
0181 392 1963

# audio arts

H I - F I CONSULTANTS  
0 1 7 8 4 4 6 1 4 0 6 or 0 9 7 3 3 1 7 3 2 5

Audiomeca Mephisto	ED	£1,599	Audio Note ANE SPX	M	£1,450
YBA CD2	ED	£1,699	Pink Triangle Anniversary	M	£1,100
Audiomeca Kreatura	ED	£950	SME V	M	£699
Counterpoint IIE	ED	£1,499	Lume J1S15	M	£2,200
Audio Note DAC 3S1G	ED	£1,599	Audio Physic Tempo	ED	£1,599
CAT SL1 Phono	M	£2,850	Meracous Transport	ED	£3,400
Counterpoint SA11	M	£3,450	CT Premier 3	M	£1,450
Audio Research SP14	M	£1,550	Magnaplanar MG3A	M	£999
Trilogy 901	M	£499	Audio Research D250	SH	£1,850
LFD PA1/LS1	M	£899	PT Export SME IV Red Koetsu	M	£1,150
Jadis JP 80	M	£6,250	Magnaplanar MGA3	ED	£1,650
Aydton Pre Amp	ED	£1,900	Accuphase Integrated Amp		£750
Anon Pre Amp	ED	£799	Agathon Hieming Signature		£2,200
Counterpoint SA4	M	£3,900	Copland CSA 1.4		£325
Jadis Defay 7	M	£3,099	Counterpoint SA2		£399
Audio Research LS3	M	£1,250	Koetsu Chang		£1,400
Marantz MA22 Monoblocks		£900	Garrard 401 + Plinth & Arm		£225
Marantz SC2		£550	Elite Rock		£550
Jadis JA80	M	£4,450	SD3+ Target stands		£275
Mesa Barron	ED	£2,850	Krell KSA150		£2,100
Aydon Cordis 1.6	ED	£2,950	Krell KSA250		£3,300
Aydon Opera	ED	£1,950	Krell KSA100		£1,499
Audio Note Melshu	ED	£2,250	Audio Research VT60		£1,750
Audio Note OTO	ED	£950	Audio Research SP11		£1,750
Antopn Tycho	ED	£950	Audio Research SP9		£899
Lumley Ref 120 Chrome	M	£2,450	Mark Levinson 38s		£3,750
Audio Innovations Ser 1000	M	£1,200	Counterpoint SA20		£1,150
EAR 834	M	£950	Wadia 6		£2,000
Kelvin LABS M30 Monos+Absolute + Pre	M	£500	Wadia 15		£2,200
Sonus Faber Amator	M	£1,599	Y.B.A. CD2		£1,699
Audio Physic Virgos	ED	£2,995	Audiomeca Kreatura		£899
Sonus Faber Minima Amators	M	£1,100	Mendian 200 transport		£799
Audio Physic steps	Mkd	£799	Theta Data II/ Gen III (bal. + AT&T)		£3,999
Cadence speakers	M	£2,750	Magnaplanar MG3A		£999
Mirage M1	M	£3,400	SME V tonearm		£799
Triangle Altius	ED	£1,499	Audio Physic Virgos		£2,850
Wilson Watts 3/2	M	£6,500	Audio Physic Avanti		£4,999
Mirage M3	M	£2,300	Martin Logan Aenus		£1,499
Sonic Frontiers Transport Dac	M	£500	Mark Levinson 31.35		£7,999
VPI TNT III	AN	£3,450	LFD Monoblocks		£999
Rockport Arm	AN	£3,995	Goldmund Studio T3F arm		£3,750
Eminent Tech ET11	M	£450	Proac Tablet Sig. + R4 stands		£799
Orfoton MC500	M	£800	Audionote Meislu		£2,450
Soundlab A3	M	£3,550	Audionote DAC3 Sig.		£1,699
Sota Sapphire RB300	M	£350	Sonus Faber Amators		£1,899
Proceed Amp 2+Pre	M	£2,900	Sonus Faber Minima Amators		£1,050
LFD MCI Phono Stage	M	£750	Mark Levinson 38		£2,200
Audio research PH2	M	£1,850	Quad ESL 63 - black		£1,499
Audio note ANJ	M	£500	Quad 606 amp.		£375

If the product you want is not here we usually can locate it. Please Ring

**WANTED: YOUR HI-FI. BEST PRICES PAID**  
Full demonstrations by appointment  
Many Hi End cables . Credit card facilities

## A MANTRA AUDIO • HI-FI VIDEO ACCESSORIES

MAIL ORDER DIRECT 1-10 DAYS  
COMPETITIVE PRICES (inc P&P)

MAKE	MODEL	CARTRIDGE	STYLUS	SWISS QUALITY DIAMOND STYLUS	PRICE
Arcam	C77, C77 Mg	N/A	£18.00	AOC GJM 30, RD 3/4	£8.00
	E77, E77 Mg	N/A	£36.00	R20 XLM, CLM, 34/36, XLM III	£12.50
	P77, P77 Mg	N/A	£47.00	AN 5/11/30/60/8745	£8.00
Audio Technica	AT 95E	£21.00	£13.50	AN 2/50/70/77/D/4932/8743	£8.00
	AT 110 E	£26.50	£16.00	RS 33/35/38/84/85/90	£8.00
	AT OC9	£220.00	£160.00	SP 8/9/12A	£25.00
Denon	DL 110	£70.00	£55.00	BSR ST 14/15/16/17/19/21	£3.00
	DL 160	£90.00	£72.00	Quat DN 145/155/165E, DN 149 S	£2.50
	DL 304	£190.00	£160.00	Goldring G800/820/850 (D110/D120/D130)	£10.00
Dynastar	DV 50X MK2	£135.00	£108.00	G800 Sup E	£12.50
	DV 10X4 MK2	£160.00	£128.00	Hitachi DS-ST 7/12/14/15/26/30/35/102	£8.00
	DV 23RS MK2	£319.00	£255.00	DS-ST 5/16/23/24/25/55/103/104	£10.00
	DV 170Z MK2	£359.00	£288.00	DT 33/35/36/45/55/60/65, DT Z1 S	£8.00
Goldring	ELECTRA	£26.00	£14.00	N 47/48/51/53/60/61/63/66/72	£8.00
	1006	£53.00	£34.00	(Trio) N 36/37/43/45/56/59/62/67/69	£10.00
	1012 GX	£70.00	£46.00	National EPS 23/24/25/30/33/51 CS270 D	£8.00
	1022 GX	£90.00	£57.00	(Technical) EPS 43/52/75/76/ STSD, P30/33 D	£8.00
	1042	£109.00	£61.00	P30 E (upgrade), EPS 205/207 E	£12.50
	ERDICA (LX/H)	£100.00	£65.00	Orfoton FF 15A/M5 10/20 EII, O/M/P 20	£12.50
Orfoton	DMSE DMP SE	£18.00	£16.00	GP 371/400/780/400 II/III	£8.00
	OM 78 (Stylus)	N/A	£26.00	PN 330/370/401/401 II/III	£10.00
	OM10, OMP10	£27.00	£20.00	GP 210/220/240/K65/250T/295T	£8.00
	OM20	£66.00	£36.00	SM 27/28/29/33/34/37/41/50/80/101	£8.00
	OM30	£81.00	£37.00	ST/100/101/15J/G6/G13	£8.00
	OM N'CLUB S	£34.00	£21.00	Sony ST 6/8/10 ST 28/29/35/37/40 D	£8.00
	510	£34.00	£22.00	Sharp STY 104/111/116/117/118/123/124	£8.00
	520	£59.00	£45.00	Shure N 75-6/C/N 91 G.S.S 35 C	£8.00
	530	£90.00	£67.00	N 44 E N 70 E/J N 75 E/D/E J T2	£10.00
	540	£117.00	£89.00	N 55 E N 95 E/D/E J N 97/105 ED	£12.50
	MC1 Turbo	£83.00	£49.00	ST 15E, VN 35E (V 15 III E)	£16.00
	MC3 Turbo	£117.00	£69.00	N 95/97 HE, VN 35 HE	£20.00
	MC 10 Super	£90.00	£67.00	Sony MD 133/134/142/150/155/200 G	£8.00
	MC 15 Super	£112.00	£85.00	MD 115/143/148/153/220/250 G	£8.00
	MC 25 E	£160.00	£121.00	Toshiba N 53/55/60 DY, N 52/292, N 71/290	£10.00
	MC 25 FL	£220.00	£165.00		
	MC 10 Supreme	£280.00	£202.00		
	MC 20 Supreme	£375.00	£280.00		
	MC 30 Supreme	£465.00	£350.00		
Shure	VN 45 MR	(V15 IV)	£90.00		
	V15 V MR	N/A	£130.00		
Stanton	500 AL Disco	£30.00	£18.00		
	680 ALX Disco	£46.00	£36.00		
	680 ELX Disco	£57.00	£41.00		
	Trackmillter	£99.00	£41.00		

A WORN STYLUS CAN DAMAGE PRECIOUS VINYL  
RECOMMENDED REPLACEMENT AFTER 500 HRS USAGE!

PROFESSIONAL/DJ ITEMS	DJ PACK	STYLUS
Orfoton OM Pro S	£40.00	£15.00
Concorde Pro S	£54.00	£15.00
OM Nightclub S	£54.00	£18.00
OM Nightclub E	£56.50	£21.00
Conc Nightclub S	£75.00	£18.00
Conc Nightclub E	£79.00	£21.00

NO CREDIT CARDS PLEASE. SAVINGS ON SERVICE CHARGES AND SUPPLIER SETTLEMENT DISCOUNTS ARE PASSED ON DIRECT TO CUSTOMERS IN OUR PRICES.

OVERSEAS CUSTOMERS PLEASE ADD £5.00

MARK LEVINSON ML2 Mono power amps balanced £2895.  
Tel: 01323 410816 (after 6pm)

AUDIO RESEARCH CLASSIC 120 mono block - balance- condition mint. 2 1/2 years old. £2580 (£3200 new) Speaker KEF REF 3, black, 3 weeks old, very new £1300 (£2000 new)  
Tel: Cherry 0973 842016 or 0171 235 5371

DPA 50S pre/power psu highly recommended with Black Slink cables, exceptional sounding £950. Enlightenment DAC £495 (£850)  
Tel: Adam 01268 711536 (Mon-Fri 11am-6pm)

WANTED: HARBETH LS3/5A or HLP3 and Leak Troughline.  
Tel: 01450 870786

ADCOM MONOBLOCKS GFAS65 (mint, boxed with manuals) 300 WPC, bi-wire capability. Wonderful sound, ideal for difficult speaker loads. Will demonstrate. £1020 ono.  
Tel: 01492 580201 (North Wales after 6pm)

QUAD 66 PRE-AMP £550, Quad 306 £220, Quad 66 CD £300. Spare remote for 66 pre-amp £60.  
Tel: Day 01203 216650 or eves 01203 460729

QUAD II POWER AMPS (3) boxed, with various spare valves. Some mods carried out, superb sound, will demonstrate £400. Garrard 301 decks (2) £130 each.  
Tel: 01274 667347 (West Yorkshire)

NAIM NACS2 £2950. Naim NAP 250 £795. Naim NAT 01 £950. New style. Linn Isobarik DMS £675. Linn Arkiv £250. Nightingale NMI £175. Heybrook HB3 £195. Sory TC377 £95.  
Tel: 01453 885032

ION NEXUS SP1 pre-amp/XPAK-2 power supply/four MA40 monoblock power amps £1100. ION FMT2 tuner £150. Denon DCD 1560 CD player £300.  
Tel: 01244 345461 (Chester)

LEAK TL12 near mint, early Troughline, Armstrong ST3/2 tuners. Large quality enclosure with Goodmans speaker. Technics SL110, all vgc. Also 3 boxed new GEC TT21 valves plus others. Offers.  
Tel: 01842 812895

LINN AKTIV SYSTEM. Kabers, Activ cards, Kairn, Three Klouts, Karik, Numeric, LPI2, Lingo, Ekos, Troika, Cirkus, all cables inc. Mint condition. Boxed, hardly used. £7700 ono.  
Tel: 01992 640021 (eves)

KRELL KSA 50/II £850 ono. (May P/ Ex your Naims) Musical Fidelity (The PreAmp) £120. Zeta Tonearm, boxed (mint) £225. Philips CD 850 (boxed mint) £180  
Tel: 0191 422 3415

KENWOOD DP9010 CD Transport with Trichord clock 2 mod £290. Audio Alchemy Power Station One, suitable for DITB or Dacman £25. AR EB101 turntable plus Arcam E77mg £145.  
Tel: 01279 659948

SNELL KII Speakers, Walnut cabinets with Standesing stands, excellent, manual, boxed £325. Quad 33-303 pre/power vgc, manuals, boxed £125. Buyer collects.  
Tel: 0114 237 8731 (Sheffield)

EPOS ES 14 SPEAKERS with Epos stands to match in excellent condition. Boxed, instructions, genuine sale due to upgrading. £395  
Tel: 01886 821577

CONRAD JOHNSON PV10A pre-amp, exc cond £750. LFD PA2M mono blocs, exc cond £900  
Tel: 01604 766124

LINN KAN II Speakers with Linn Kan stands, black, boxed and bi-wireable. Mint condition £260.  
Tel: 01277 622130 (Essex)

ITS THE DAC Ken Kessler raved about (Hi-Fi News March). Marantz DA12LE. Compatible with high grade transport. Very good, now modified. The best? Boxed, leads, instructions vgc. Rare. Offers.  
Tel: 0141 954 8030

AUDIO INNOVATIONS Series 200 pre-amp, MM/MC, excellent condition and sound £325 ono Sugden A48 MkII, recent factory service £120. AKG 340 headphones £80.  
Tel: 01423 507266

RADIO DESIGNERS handbook, fourth edition 1953. Also Hi-Fi World magazines, Feb 93-Dec 94. Offers.  
Tel: 01222 889083 (Cardiff)

MISSION 770 FREEDOM speakers, black, Integral stands, excellent sound and condition £175. Sansui 222 Mk2 turntable £25.  
Tel: 01977 684343 eves (Yorks)

QUAD 33/303 FM3 tuner £150 ono. Complete with instruction books.  
Tel: 01254 886185 before 2pm or after 6pm

BANG & OLUFSEN Stereo receiver £70. Bang & Olufsen stereo cassette deck £50. Haffier stereo pre-mpifier £75. Pair KEF Choral speakers £75. Teac DBX noise reduction unit £60 vgc.  
Tel: 0181 686 7996 (Croydon)

AUDIOLAB 8000A amplifier £250. Marantz CD MkII. QED digit plus Positron power supply £70. Sony ST444 ES tuner £100, serious upgrade causes sale.  
Tel: 01844 354287

DENON POA 6600 Monobloc power amps 250 watts into 8 Ohms. Real powerhouses. Mint condition, boxed £675. also matching Digital pre-amp POA 5500 £450 or £1075 together.  
Tel: 01279 724804

TANNOY LANCASTER Conner 12" Reds £650. Radford STA25 mint £450. Leak ST20 £250. Micromega Duo v.3.0 plus Marantz CDA 94 DAC both mint £950. Decca Radiogram £30.  
Tel: 0181 296 8538 (daytime or after 10pm)

AUDIOLAB 8000A Only 4 months old, boxed and hardly used. Unwanted gift £395. IPL Acoustics A2 Aerogel speakers using Audax 6.5 inch Aerogel bass/mid similar to Mission 752 £325. Mission DAD 7000 CD player £75.  
Tel: 01902 374786 (nr Wolverhampton)

LINN KARIK III CD player £1050. Mana 4 tier table, Soundstage, Ref. Top and speaker stands £750 ono.  
Tel: Tim - Pager No. 0941 119432 (Please leave a contact telephone number)

JOHN SHEARNE 2 amp, vgc £350 ono. Croft SV power amp, 35 wpc, vgc £325. STD 305, 774, Shure, superb £160 ono. Arcam 2 speakers, modified £140 ono. Panel speakers £80.  
Tel: Paul 01895 446713

CAMBRIDGE AUDIO CD3, Pioneer A400 amp, TDL RTL2s £350 the lot, or split. Buyer collects.  
Tel: 01279 504926

MVT Mk3, Musical Fidelity pre-amp, MC and MM inputs, separate power supply as new £585.  
Tel: 01945 581111 (Wisbech)

FM/AM STEREO TUNER, Sumo Aurora, high end product imported by ATC. Cost £700, now £310 or exchange for 35mm SLR camera. Cash adjustment. Boxed, demonstrated with Galaxy 17 aerial!  
Tel: 0181 651 5711

AUDIOLAB 8000A 5 months old (receipt) perfect £380. Audio Alchemy DAC-in-the-box, 11 months old £135.  
Tel: 0116 234 5019 day or 01530 831357 eves (Leicestershire)

SONY TA-N55ES Power amp, 10W per channel stereo (300w mono-bridged). Exc condition with instructions £215. Entre-1 m/coil cartridge £35.  
Tel: 01908 260112 eves

PIONEER A400 Stereo amplifier as new £150. Marantz CD 63 compact disc, new condition £150. JVC top-loading quality cassette deck, vgc £40. Pioneer PL12 turntable vgc £25. Pair early Decca speakers £30. Sugden stereo tuner vgc £60.  
Tel: 0181 681 1054 (Croydon)

LINN ISOBARIKS PMS black ash with stands, new style, boxed, as new £1050 ono. Project 05 turntable as new £70.  
Tel: 01494 866487

NAIM NAP 90, 10 months old, Naim NAC 92, 3 months old £600.  
Tel: Tim-Pager No. 0941 119432 (Please leave a contact tel. no.)

UNITY AUDIO SIGNATURE 3 EDC speakers. A unique blend of beautiful looks and sound. Rave stereophile reviews. Mint condition and boxed. List (£2000) will accept £1150 ono.  
Tel: 01206 844855

REL 'STORM' active subwoofer, bargain at £450. AVI S2000MC CD player £750. Both units as new, with makers warranty.  
Tel: 0181 870 3630 day of evening

TOWNSHEND ROCK RB250 arm £275. Snell JII loudspeakers (walnut), Foundation stands £295. Thorens TD150, Grace arm £65. Denon TU260 tuner £55. Thorens TD150 £30. LNB loudspeakers (dual concentric) £25. Notts Analogue Tracer cartridge MkII £50. Can Opener Headphone adaptor £45. Beyer 911 Headphones, as new £100. NAD tuner 4225 £50. Marantz ST320L tuner £25. Leak Troughline Mk3 stereo tuner £55.  
Tel: 0114 273 8153 or 272 3621

MANA ACOUSTICS Reference Phase Three special table, including brass finished mini table. This set is one of only two made, Mana Acoustics owns the other. £300 ono.  
Tel: 01772 719267 eves

WANTED: TECHNICS SL-1200/1210 direct drive turntable. Any condition considered. Wanted: mixer with 2 phono, 2 line, 1 mic input, preferably valve.  
Tel: 0181 830 7214 Sparks

DPA (DELTEC) T1 Transport, DPA Bigger Bit DAC, also 2 x The Power Mains Filters £850 ono. Black Slink Interconnect £100 ono. Mint, boxed, instructions.  
Tel: 01900 826400 daytime or 01900 826294 eves

WANTED: QUAD 66 FM tuner. For Sale: Quad FM4 tuner £250 ono.  
Tel: 01883 653165 (Surrey)

ELITE ROCK TURNTABLE with Mission 774 arm, Linn K9 cartridge £350. Jecklin Float 2 headphones £75. Marantz CD40 CD player £70. Quad valve FM mono tuner £60  
Tel: 01423 507266 (Harrowgate)

THORENS TD124 turntable with SME 3009 series II arm, £195. Teak plinth £25. One Leak Sandwich speaker, Teak, £25. Original owner all items.  
Tel: 0181 908 0087, anytime, Wembley.

LINN EKOS TONEARM. Excellent condition. It is still in my system so a demo is no problem. £600.  
Tel: 01227 830286 (Canterbury)

ACOUSTIC ENERGY AE1 sspeakers, black, bi-wireable with matching AE stands unmarked condition £550. Naim Hi-Cap P/S latest type excellent condition £350.  
Tel: 01761 410 625 (nr Bath)

TEAC TI Transport £350. DPA Little Bit 3 £225. Both 5 months old. Rogers LS3/5A walnut, one month old, boxed £350. LX5 Pro Genexa speakers £70. Subwoofer Teak finish 2 x 10" Audax professional cones, active or passive. Awesome home project. Offers.  
Tel: 01883 330063 (Surrey)

MERIDIAN 203 DAC £195. Teac P10 CD drive £675. Gale 302 loudspeakers £195. Target speaker stands £30. Perfect condition, boxed with manuals.  
Tel: 01483 578 609 (Surrey, eves/ weekends)



HEAR AN AUDIO TRANSFORMATION AT

96 Leicester road, Wigston Magna.

☎ 0116 257 1414

ON DEMONSTRATION

ART AUDIO  
HEADLINE  
CONDUCTOR SERIES  
INTRO TURNTABLE

DIGITAL UP GRADES  
MANARCHY  
MONARCHY DIP

AMPLIFIERS  
TEMPO  
MAESTRO  
FORTE

SPEAKERS  
KLIPSCH RANGE  
PENTA CHORD LOUDSPEAKER SYSTEM  
B.S.L.(USA)  
RMS REVELATION

PRE-AMPS  
VFI/VPL  
VPI SPECIAL

STANDS  
BASE PLATFORMS

TRANSWIRE  
CABLE

SINGLE ENDED  
MONO 211

## Riverside Audio

18, Riverside, Cambridge CB5 8HL. Telephone/FAX: (01223) 512253

Our aim at Riverside Audio is to enable the home constructor to build valve amplifiers which combine superb sound quality with the professional finish of the best high-end products - at a low price. Our rigorous and conservative designs ensure that you get long and trouble free service from your amplifier. We offer our amplifiers in various forms, from circuit designs, through printed circuit boards, to full kits and even fully assembled amplifiers for those who cannot wait to listen to them.

**The Riverside 4040** is our integrated amplifier. It features dual mono construction and has five line level inputs and both 4Ω and 8Ω outputs. The output stage is configured in the classic McIntosh connection, which gives stable, wide-band operation even with difficult loudspeaker loads. The stainless steel chassis and transformer cover are hand polished to a mirror finish, and come with a semi-matt black valve cover. 4xEL34, 4xECC83, 2xECC82. A full description, including circuit diagram, is given in the 4040 reference manual, £6.50. Kit £780, fully assembled £995.

Technical specification: dual mono construction, 40W/channel, 12Hz to 25kHz power bandwidth, distortion <0.1%, five line level inputs, tape output, 230/240V mains input.

Stereo amplifier circuit board: board only £49.50; component pack (including valve bases), add £63; populated board £125; full valve set, add £45. Power supply board: board only £20.50; component pack, add £44; populated board £66. Input board: board only £15.50; component pack, add £16; populated board £33.

The output transformers are configured for the McIntosh connection and have excellent low frequency response and a primary reflected impedance of 3800Ω. Full connection instructions provided. Price £70. The mains transformer is wound for dual mono construction, as this gives superior isolation between channels which sharpens imaging and eliminates inter-channel ground loops in the amplifier. Primary 0-230-240V. Secondaries 2x295V@0.25A (0.4A Int.), 2x70V@30mA, 2x6.3V@5A. Price £60. Other primary voltages can be supplied to special order. Data sheets giving connection diagrams, specifications, as well as circuits for using each transformer, £2.50 each.

The chassis, comprising main chassis and transformer cover, is hand polished, welded 1/16" stainless steel - NC machine tooled for a perfect fit and clean finish. Each kit also includes a mesh valve cover and baseplate, finished in

semi matt black. Price £310. Also available in mild steel finished in black, £195. For those who wish to use one of these high quality chassis for their own projects, details of the chassis are given in the 4040 reference manual, £6.50.

Connector kit: twelve gold plated phono connectors, two sets of loudspeaker terminals, an IEC mains socket with integral fuse and switch, and an IEC mains lead with fitted 13A plug, £51.50. Cable kit: all cables required for the 4040, £6.

**The Riverside P2 phono preamplifier** is designed to partner the Riverside 4040 for those who enjoy the vinyl sound. Equalization is provided for moving magnet output to line level. The P2 features a high accuracy feedback RIAA equalization circuit, ensuring a natural tonality, a regulated high voltage supply per channel and cathode follower outputs. 3xECC83, 1xECC81, 2xECP80. Full details and circuit diagram in the P2 reference manual, £6.50. Kit £225, fully assembled £275.

Technical specification: 47kΩ input impedance, 1kΩ impedance output for driving long interconnects.

Stereo circuit board: board only £25; component pack, add £37.50; populated board £70; full valve set £20.

The mains transformer is wound for dual mono construction and is toroidal for low leakage flux. Primary 0-230-240V. Secondaries 2x295V@20mA, 2x6.3V@0.45A, 16V@1A. Price £30. Other primary voltages can be supplied to special order. These transformers are also suitable for power supplies in preamplifiers and other line level valve circuits - see data sheet for details, £2.50.

The chassis (main chassis and transformer cover) is made from mild steel. Each kit comes complete with a mesh valve cover and baseplate, finished in black. Price £110. For those who wish to use a high quality chassis for their own projects, details of the chassis are given in the P2 manual, £6.50.

Connector kit: four gold plated phono connectors, IEC mains socket with integral fuse and switch, and IEC mains lead with fitted 13 A plug, £15.

We normally ship within three working days. If we do not have the item in stock we will advise you of expected delivery and confirm before despatch. P&P (in UK): £2 for each part of £40, maximum of £10; manuals free of charge. Assembled units despatched by courier free; courier service on other items £10.

Write, phone or FAX for a catalogue sheet of the full range of Riverside products.

# SL SonicLink

Makes the World's Finest HiFi Cables From the Highest Quality Materials

### SonicLink VIOLET Interconnect

SonicLink's exclusive innovative Conductor Technology, coupled with low loss PTFE insulation brings you superb clarity, dynamics, ambience, rhythmic flow and imagery - and maintains its outstanding performance over widely different hifi systems.

### SonicLink AERO SPACE TECHNOLOGY Loudspeaker Cables

The Leading Edge in Technology

The Leading Edge and Decay of Musical Notes

SonicLink AERO SPACE TECHNOLOGY Loudspeaker Cables use ultra low loss insulation material (dielectric loss 0.0003) developed to work reliably in aerospace applications where other leading technologies show deteriorating performance.

Compared to cables insulated with PVC (dielectric loss 0.08) they show superior clarity and dynamics achieving sound quality unequalled at their price.

SonicLink AERO SPACE TECHNOLOGY Loudspeaker Cable AST50	£1.95/m
SonicLink AERO SPACE TECHNOLOGY Loudspeaker Cable AST150	£3.95/m
SonicLink AERO SPACE TECHNOLOGY BiWire Loudspeaker Cable AST75x2	£4.95/m
SonicLink AERO SPACE TECHNOLOGY BiWire Loudspeaker Cable AST150x2	£7.95/m

### SonicLink

The Derwent Business Centre, Clarke Street, Derby, DE1 2BU  
Tel; +44-332-361390 Fax; +44-1332-298836

WANTED: QUAD 67 CD player. Must be in mint condition, boxed with instructions. Tel: Kevin 01703 601 222 (Southampton)

MUSICAL FIDELITY F15 amp, F22 pre with MM phono input. 15 months old in perfect condition. £1900 (list £3000) Tel: 01422 832 836 (after 6pm)

GARRARD 401/SME 3009II in SME 2000 Teak plinth, excellent condition, complete with original instruction manuals £250 ono. Pair Goodmans Magnum K-2 speakers (Teak finish) £50. Tel: 01279 871 461 (Essex)

NAIM SBLs (black) Latest specification, complete with NACA leads. Also, Linn Karik. All in mint condition. Tel: 01983 523 450

MIRAGE M890i speakers (1075) £750. Orelle CD10T/DA180 Mk2 (1400) £750. Stax SR84/Energiser (260) £120. Huygens stands (300) £100. Madrigal/Descad cables. Boxed, manuals vgc. Tel: Roy 0121 427 6661

BEARD P100 Mono Class A power amps £1500. Beard P505 pre £250. Musical Fidelity 800 Class A integrated £350 ono £800 new. Musical Fidelity Ref 4 £250 ono £500 new. Audion Premiere 1 pre S inputs MM £400 ono £1000 new. Pioneer PDS 901 CD player £200 ono £500 new. Tel: 0956 301 065

WANTED: SME 3012 tonearm, first series, or Ortofon RMG 309, only complete and good condition. Sell Altec 511B + 802-8A and 811B + 806-8A. Tel/Fax: +49 7202 7937 (FRG)

MISSION 751s, black, Rogers LS4A, black, both immaculate, £150 per pair. Stands and cable also available. Sony TC-K611S cassette recorder boxed as new £175 Tel: 01702 470 084 eves

WANTED: Audiolab 8000A Mk2, Naim NAT 03 tuner. Must be mint, boxed. Tel: 01242 673 147

MISSION SPEAKERS 753s Rosewood £400. 751s Rosewood (unused) £200. 780s £125. 760SE (unused) £125. 760SE £95. Sony Walkman £125. Audio Alchemy Dac-in-a-Box £125. Mission DAD7/DAC7 Trichord adapted £150. Tel: 0181 655 2733

NAIM NAIT MkI amplifier. Mint. Boxed with manual £180. Tel: 0181 299 2428

ARCAM ALPHA 5 CD player £275. Target turntable wall bracket, 2 shelf £40. Audioquest video Z cable 0.5m £30. Tel: 01964 551 137 (Beverley)

AUDIOLAB 8000A MkII mint, boxed £350. Tel: Andy 01242 515 373

TRICHORD CLOCKED Arcam Alpha 5+ £375. Theta TLC £175. Dac-in-the-Box £165. Audioquest Video Z cables £60. Chord Company Chameleon £30. £800 for all. Tel: 01509 620 814

REVOX A77 reel-reel; privately used, original instructions £175; Thorens TD 160 Super (heavier platter) fitted with Mayware Formula 4 arm, Elite cartridge, unmarked, boxed £170; Ferrograph Model 88 valve reel-reel, needs work, almost free to good home. Tel: Paul 0181 965 8105

BOWERS & WILKINS P2/H monitor ionising speakers, B&W service documents, excellent condition beautiful veteran monitors, rosewood cabinets £350; Tandberg 6X reel-reel 1/4 track, instructions unmarked condition £125. Tel: Tony 0171 431 8569 (home) 0956 343 638 (mobile)

KENWOOD DPX9010 CD Transport for quick sale £200. Deltec PDM2 convector £195. Tripod equipment supports 3 x 2S units £40 each. 1 x 2XL unit £40. Half price and boxed. Tel: 01202 888 832 (Dorset)

AUDIOLAB 8000S amplifier £525. Marantz CD-63 Mk2 £200. Mission 752 £400. All new 28/12/95. Marantz CD52IISE £175. Royd Abbots £350. Quad 33 pre £65. Tandberg TR2075 receiver 75wpc £100. Tel: 01926 831 388

HI-FI WORLD 5881 valve amp, expertly built, bargain at £250. Tel: 01228 74537 (Cumbria)

AUDIOLAB 8000A integrated amplifier £100. Pair Wharfedale speakers HI-Fi TSR 110 27" high with Target spiked stands, total height approx 37" £150. Tel: Harry 0181 959 7662

TECHNICS SLP5670A CD player, Pioneer A203 amp, Mission 731 speakers and Atacama BD21 stands. All boxed as new. All for £350. Tel: 0802 823 275 (evenings)

PINK TRIANGLE Da Capo + Cardinal £1450. Stax SR Lambda Pro headphones + SRM-X drive unit + Ni-Cad pack £100. Sugden A21a integrated amp £600. ProAc Response 1 speaker + stands £500. Will sell whole system for bargain. All excellent. Tel: Brian 01962 771 298 (evenings)

WANTED: QUAD 606 MkII amplifier and 66 preamp complete with remote control. Tel: 01902 676 319

MERIDIAN 508 20 bit CD £1000. Meridian 526V multimedia controller £700. Meridian DSP 5000 digital speakers black £2000. All less than 6 months old. Tel: 0121 783 8227

NAIM DBL Passive X-overs. Prefix kit. Hi-Caps. 32 S/72TA preamp. 250, boxed, Naim serviced, guaranteed. Wanted 4 pack-pairs NAP 135s, matched pairs 250s, cash payment will collect/meet half way. Tel: Paul 01924 271043 - 274887

EAR 859 SINGLE ENDED valve power amplifier, mint condition £950. EAR 834P valve pre-amp (inc phono), mint condition £290. Tel: 01730 263 473

QUAD 67 CD Player, near new £495 Tel: Rev. D.R. Hill 01775 768710 or 722346

MUSICAL FIDELITY F25 pre-amp, new model sell £1100 (£1500) Musical Fidelity FCD compact disc player, mint, £800 ono. (£1500). Garrard 401/ SME3009/ plinth/ cover, excellent condition £225. Tel: 0121 602 2591 (Birmingham)

A.V.I. PRE £460, A.V.I. Mono amps £580, A.T.C. 10s £650, Quad 66 pre £550, 606 power £375, Meridian 508 CD £975, Meridian 5S1 amp £600, AE Aegis speakers with stands £325, Arcam Alpha 6 CD £350, Alpha 6 amp £225, Teac VRDS10 CD player £400, Spondor B.C.1. speakers, white with stands £150. Tel: 01977 643 629

REVOX TUNER B260S - FM RDS (black/gloss finish) - Willie Studer special edition - battleship build! (DX) sensitive reference sound as new, boxed with manual £775 (1500). Marantz CD-63SE - 6 months old, boxed £250. Tel: 01733 892 228

BEARD VALVE amp P100 Mk2 90w per channel - Class A to 40w. The original "Gentle Giant" recent £150 service/new valves £650. Audio Innovations L2 line pre-amp - as new boxed £400 (750) Tel: 01733 892 228

8812 LINEAR Phase Studio Monitor speakers, USA made, new, boxed with manufacturers warranty. Ideal for home studio/hi fi. Professional specification. Can be demonstrated £800 (£1500 rrp) Tel: 01628 784 887 (Maidenhead eves/weekends)

LP12/CIRKUS/LINGO/ITTOK/KLYDE (200 hours) £1050. Kabers active £1125 - passive £795. Four LK100 amps (new style) £425 each. Kairn (new style) £925. Can demonstrate or install. Tel: 01352 750 801

QUAD 34/405 £300, Musical Fidelity TI £110, Quad FM2 £60, Celestion SL6si £200, SL 24" stands £50, Sugden A48 £110, T48 tuner £90. All mint. -Also- Grunge Hi-Fi Cheap! Tel: 0151 546 7949 (Merseyside)

MARANTZ CD-63SE special edition CD player. Boxed with remote and manual. Mint condition with about 30 hours use. Still under guarantee. Offers over £200. Can be seen in London or Bristol. Tel: 0117 932 3814 (Bristol)

ACOUSTAT SPECTRA II Electrostatics £600. Quad ESL 57 black £325. Celestion 66 £300. Revox G36 4 track £425. Leak TL12+ £300. Stereoc 20 pre, power, stereo FM tuner £350. 301 Slate plinth Rega arm £325. Swaps for W.H.Y. Tel: 01460 281 529

SWAP YOUR TURNTABLE for my CD collection (70 rock, 10 classical) must be 33/45 e.g. P.T., Oracle, Linn. Phone for CD list (s.a.e.) All offers considered, any takers? Tel: Dave 0181 677 0187

KRELL KRELL KRELL! The new 300 AVI integrated amp. Three months old £1850. Sonus Faber Minuetto plus stands £800. Naim NAP 140 (old style) £250. Tel/Fax: 0181 367 973E (Enfield)

LECSON HL1 pair horn loaded floor standers. Anyone remember/ interested? Acoustically & electronically as always. Need recovering (again). Offers. Tel: 01934 624 014 (North Somerset)

LINN EKOS tonearm immaculate condition. One cartridge change only undertaken by dealer. 6 years old. New cost is now £1500. Will sell for £650 Tel: Steve 01625 877 628

LINN LK1/280 pre & power amps with remote £450. Linn Ekos tonearm £695. Naim 72 with MM & K boards £360. All boxed & mint condition. Tel: 0171 701 4580 (day) 0181 871 0424 (eves/weekends. SW London)

NAIM NAC 52K preamp £2750. Naim NAT-01 tuner £750. Naim SBLs, black Ash, pristine £795. Nakamichi CR7E cassette deck with remote control, hardly used £795 Tel: 01524 381 389 (Lancs)

CABLE SPRING CLEAN Interconnect, loudspeaker, phono, from £5 to £100, VDH, LFD, DNM, QED, Monster, Siltech, Audio Quest, Trichord etc. Private Sale. Tel: 01276 858 481 (Surrey) or 01753 857 530 (Berks)

LINN LP12/Lingo/Ekos/Troika/Trampoline. Walnut, regularly serviced, all boxes, receipts. £1000 or best offer. Tel: 01344 892 499 (days) 01734 629 009 (Eves)

ARCAM ALPHA Plus CD player, as new condition, £210; Alpha 6 amplifier, recently serviced, £225; Sequence 30 speakers, ideal for wall-hanging if floor space limited, £150. Tel: 0161 282 6703 (Manchester)

RUARK CRUSADER II Loudspeakers, dark walnut, 1 year old £900 ono. Tel: 01252 843 391 (Evenings, North Hants)

CYRUS III amplifier £300 (only 2 months old) Mission 760SE with Target stands £50. Kenwood KA3020 SE £50. All mint condition. Tel: 01474 357 088 (evenings)

LINN LP12/Cirkus/Trampoline/Lingo/Ekos/Klyde £1700 (£3700 new). Karik 2 (inc Brilliant & Memory upgrade) £1100. Kairn (inc Phono & Brilliant) £1000. Klout (1 month old) £1750 (£2000 new). Epos ES22 loudspeakers (1 month old) £985 (£1185 new) 2 Soundstyle grey 4 shelf tables £115 each (£200 each new). All in absolute perfect unmarked condition. Genuine reason for sale. Tel: 01323 845 143 (East Sussex)



# Sussex Surplus

13 STATION ROAD, HORSHAM, WEST SUSSEX RH13 5EZ

Telephone: (01403) 251302 Fax: (01403) 270339

Test Equipment • Components • Accessories  
Electromechanical • Mechanical • Engineering

GZ37 Mullard	£7 each	EZ81 Mullard	£6 each	25H 70MA	£20 each
GZ33 Mullard	£13 each	EZ80 Mullard	£6 each	5H 500MA	£30 each
GZ33 Bulbous	£25 each	ECC82 Telefunken	£15 each	1H 500MA	£20 each
GZ32 Mullard	£15 each	ECC31 Mullard	£10 each		
GZ34 Mullard	£15 each	ECC32 Mullard	£15 each	<b>OIL/PAPER CAPACITORS</b>	
6SN7GT Brimar	£8 each	ECC33 Mullard	£15 each		
5R4GY Brimar	£6 each	Ecc35 Mullard	£10 each	.1UF 1500V	£8 each
5U4GB USA	£6 each	3A/141A STC	£20 each	.5UF 1000V	£8 each
5U4G USA	£6 each	3A/108A STC	£20 each	.5UF 5000V	£15 each
6L6G USA	£25 each	3A/110A STC	£20 each	1UF 600V	£6 each
6L6WGB USA	£12 each	3A/110B STC	£25 each	2UF 600V	£6 each
6B4G USA	£35 each	LS7 STC	£30 each	4UF 600V	£6 each
L63 GEC	£12 each	3A/109B STC	£25 each	8UF 600V	£8 each
H63 GEC	£12 each	5B/255M STC	£12 each	8UF 800V	£10 each
KT61 GEC	£25 each	4212E STC	£P.O.A.	8UF 1000V	£12 each
A2900 GEC	£20 each	4212H STC	£P.O.A.	8UF 1500V	£30 each
12AX7 Brimar	£10 each	4242A STC	£P.O.A.	4UF 800V	£12 each
CV4004 Brimar	£12 each			4UF 1000V	£12 each
M8137 Mullard	£15 each			2UF 1000V	£10 each
ECC82 Mullard	£8 each			1UF 2500V	£15 each
CV4003 Brimar	£10 each	18H 60MA	£15 each	.02 1000V	£4 each
EL84 Mullard	£9 each	10H 180MA	£20 each	.1UF 2500V	£10 each
E88CC.01 Mullard	£17 each	10H 250MA	£30 each	2.2UF 630V	£6 each
E88CC Mullard	£10 each	10H 350MA	£35 each		
ECC88 Mullard	£10 each	10H 100MA	£20 each	<b>MOSFET POWER TRANSFORMER</b>	
EF86 Mullard	£10 each	1H 300MA	£15 each		
EL86 Mullard	£6 each	16H 120MA	£20 each	PRIMARY 10-0-200-220-240-SCR	
EF37A Mullard	£8 each	5H 200MA	£15 each	SECONDARY 0-18.5-26-29V .35A	
6SL7 Brimar	£8 each	5H 400MA	£25 each	26V .5A £40 each	
5Z4G Brimar	£6 each	2.5H 220MA	£15 each		
JAN 5751 USA	£6 each	3.5H 300MA	£15 each		
ECC83 USA	£6 each	15H 150MA	£25 each		

#### OIL FILLED CHOKES

#### MOSFET POWER TRANSFORMER

P&P £5 PER ORDER

17.5% VAT TO BE ADDED TO TOTAL ORDER



## PROGRESSIVE AUDIO



**DIGITAL:-** AUDIOMECA:- MEPHISTO, KREATURE AND DAMNATION TEAC:- VRDS 7, 10SE,25, T1, D700+P700. SUGDEN:- OPTIMA, SDT-1, SDD-1, SDD-1 AND SDA-1, AU51 PRO AND AU51 DAC. AUDIO ALCHEMY DRIVES AND DACS. AUDIONOTE DAC 1, 2 AND 3. TRICHORD RESEARCH, PULSAR 1 DAC + TRANSPORT. HARMON KARDON.

**AMPS:-** SUGDEN:- WHOLERANGE, CHORD 3200PRE, 800, 1000 + 1200B POWER. MICHELL ISOS, ARGOS AND ALECTOS. AUDIONOTE OTO, MEISHU, QUESTS + CONQUESTS AND M2 PRE. TUBE TECHNOLOGY. UNISON RESEARCH 845s, SIMPLY TWO AND FOUR, DENSEN BEAT AND DM10. PARASOUND PRE+POWERS. CONRAD JOHNSON PV10+MV5S. AUDION STEREO + MONOLOCKS. LFD PRE+POWER. HARMON KARDON. AUDIO INNOVATIONS. MOTH.

**LOUDSPEAKERS:-** PROAC R1S, R2S, R2.5 AND R3.5 TABLETTE50, STUDIO 100, 150 + 200. IMPULSE LALI + TA'US. SD ACOUSTICS SD3, 5 AND 1. UKD OPERA + CALLAS. AUDIONOTE K, J + E. SPENDOR. ORIGIN LIVE. JPW. TDL. QUANTUM AUDIO. HARLEQUIN. ALON PETIT, 0.5 AND 1. AUDIOSTATIC ELECTROSTATICS. ANALYSIS RIBBONS. REL SUB WOOFERS. MOREL. ORTOFON.

**ANALOGUE:-** MICHELL MYCRO GYRO + ORBE. VOYD. VPI. SYSTEMDEK. PROJECT. SME. ORTOFON. LYRA. DENON. GOLDRING. GRADO. REGA ARMS.

**STANDS + RACKS:-** TARGET. SOUNDSTYLE. SOUND ORGANISATION. ALPHASON. RATA + TRIPOD.

**CABLES:-** AUDIONOTE. VDH. KIMBER. SILVERSOUNDS. AUDIOQUEST. CARDAS. LFD. QED. CABLE TALK.

**SECOND HAND:-** ATC 10 LOUDSPEAKER (YEW) + STANDS (MINT) £795  
MICHELL ARGO AND HERA (MINT) £425  
MUSIC FIDELITY MX PREAMP (MINT) £525  
AUDIO INNOVATIONS S.500 AMP (EX COND) £395  
QUESTAR QA2 ACTIVE LOUDSPEAKERS WITH STANDS AND 3M KIMBER I/C CABLE (EX COND) £395

CALL ANYTIME FOR A DEM OF ANY OF THE ABOVE EITHER HERE OR IN THE COMFORT OF YOUR OWN HOME. ASK FOR DAVE ON RAINHAM, KENT (01634) 389 004

For Audio Visual equipment please call Brian Ridell on Medway (01634) 681 233

## definitive audio

ARCADIA AUDIO INNOVATIONS AUDIO NOTE  
BORDER PATROL BRAVURA HQRNING  
LIVING VOICE SME VOYD

POWER SUPPLY UPGRADE FOR AUDIO INNOVATIONS  
2A3 AND EL34 BASED AMPLIFIERS

Improve the Dynamic, Bass Control and Low level Resolution of your Audio Innovations EL34 Of 2A3 power-amp/integrated with the addition of a Valve Rectified Choke Input Filter Power Supply. Uncover previously hidden detail in recordings together with much improved solidity and control. This conversion makes the amplifiers sound like more powerful and expensive models. The conversion is reversible, does not devalue your amplifier and is transferable to other models. The PSU is switched on and off from your existing Audio Innovations amplifier and incorporated fail-safe circuitry to prevent damage to the valves. The slow start characteristics of this supply will usefully increase valve life. Priced at £550.00 (£1000.00 for mono-blocks) including fitting the conversion represents excellent value for money. For those competent in electrics/electronics the unit are also available by mail order and comprehensive conversion instructions are provided. (If you have any doubt about your ability to do this modification safely, please consult us first.

VISA and ACCESS welcome

~ SECONDHAND EQUIPMENT FOR SALE. (New price available in brackets)

Audio Innovations Series 200 pre-amp	£250 (£350)
Audio Innovations Series 200 pre-amp	£225 (£500)
Kenwood KA7050R integrated amp (remote control)	£200 (£495)
Audio Innovations Series 500 integrated amp	£495 (£1199)
Impulse H5 Oak	£799 (£1750)
Impulse H6 Grey/Black	£650 (£1250)
Impulse H7 Walnut	£400 (£750)

Tel/Fax Brighton 01273 276716

PRIVATE

**SOWTER P.P.** Output transformers. Two pairs 6K6:6 and 6K6:4,8,16. All on 95x114x38 cores. £50 per pair or swap for S.E. types. Tel: 01895 633 486

**CD PLAYER** Rotel RCD945AX for sale £75. Tel: 0121 476 8507 (after 6pm, Birmingham)

**ARCAM ALPHA ONE** CD Player £195. Arcam Alpha Six Amp £210. Ruark Swordsman Plus Two £200. All six months old. Marantz DCC CD32 £190. QED turntable £75. Audio Quest interconnects and speaker cables £80. Tel: Matthew 01787 479 106 (Essex)

**SUGDEN AU51** Pro transport CDM 9 Pro Mech, less than one year, as new, boxed, cost £1600, selling at £999 ovno. Tel: Mr Mohammad Ibrahim 0161 795 0185 or 0161 877 2741

**BRYSTON 12B** Pre-amp £375; Nakamichi CR4E cassette deck £325; Rotel RT850AL tuner £65. Available together for £700. All low hours and very good condition. Tel: 01276 451 704 (Camberley, Surrey)

**QUAD 34, 606 FM4** Tuner. All mint and boxes. £600 ono. Musical Fidelity T1 FM tuner, mint with box £120 ono. Tel: 0131 664 5745

**REVOX A77 1/2** track stereo. 7 1/2-3 3/4 i.p.s. Line output version. Complete with full Revox service manual. Excellent condition, superb sound. £275. Tel: 01935 816 513

**CONRAD JOHNSON 4 tower** Synthesis speakers Ash. £2200. Metaxus Icarus integrated amp £400. Metaxus Charisma pre-amp £600. Carver speakers, black £650. All boxed & mint. Tel: 01438 716 149 (evenings)

**OPPORTUNITY IN** Musical quality connoisseur marques. Linn Sondek LP12, walnut finish, Aro arm, Troika needle, Naim Armageddon State-of-the-Art monitor speakers, black ash finish, mint condition. Sensible offers. Tel: 0181 293 4185 or 0956 981 159

**LOUDSPEAKERS:** Canon wide imaging stereo S-50 speakers. Dome shaped, includes cable. Unwanted gift. Never used. Cost £350 new. Accept £250. Tel: 01296 688 558 (Aylesbury)

**FOR SALE - OFFERS PLEASE.** Speakers: KEF Cadenza type SP1024 8 Ohms 25W. Deck: Rotel RP850. Amplifier: Dual CT1260 synthesizer tuner. CD Player: Denon RC-207. Tel: Jenni Woolf 01246 235 404

**REVOX G36** Tape recorder. Pristine condition, very occasional use. Offers around £400. Gale GS401 chrome with stands vgc £250. Garrard 401, oak plinth, nice £185. Tel: 01604 791 252

**NAIM 140** amplifier new style, excellent condition. Upgraded. Tel: 01923 448 265 (Watford)

**AUDIO INNOVATIONS Series 500** amp with replacement valves. Linn Sondek, Scorpio arm with A&R P77. Target wall support all as new absolutely immaculate and boxed. £1100. Tel: 01908 696 964 (anytime)

**LOWTHER ACOUSTA PM6A** Horn speakers, walnut, superb sound, lovely condition £395. Mint, boxed Thorens TD124II £295. Leak valve Troughline tuner vgc £55. Leak, Quad, Rogers, expert valve amplifiers, preamps. Tel: 01364 72153

**KRELL CD DSP II** Custom CD player with clear acrylic lid, balanced outputs, mint condition, boxed with manuals, outstanding sound quality, bought from new Sept 92. List £5500, bargain £2900 ono. Tel: Ian 0171 589 4840 or 0171 584 5784

**ROTEL RCD 965BX LE** Discrete CD player. Excellent condition. Sold without interconnects, £165. Tel: 01204 660 255 (Bolton)

**AUDIO INNOVATIONS 800C** pre-amplifier £195. 800 Mark One (triode coupled) power amplifier £295. Target turntable isolating wall shelf £30. Tel: John 01295 710 613

**TL12+**, Mint, original condition, Mullards with GZ37 transparent sounding classic £350 ono. Arun valve pre-amp handbuilt by Mike Pointer, perfect for Leaks/Quad only £150. Both v. low use. £400 the lot. Tel: 01834 845 928

**MUSICAL FIDELITY A100** integrated Class A amplifier. 50 watts per channel. Mint condition, cost £500. Accept £220. Can demonstrate. Tel: Rob 01789 262 929 (Stratford on Avon, Warwickshire)

**AUDION SILVER KNIGHT 300B** stereo SE amplifier, recent service and re-valve £695. HFW 4W SE amplifier £425. Leak Troughline 3 (GT Audio), wood sleeve, immaculate £250. Tel: 01834 860 681

**WANTED: EXPOSURE X** amplifier, good condition. Tel: 01273 880 858

**LUMLEY REFERENCE ST70** valve power amp. Pentode/triode switching. This high quality unit is only 18 months old and in mint condition. A bargain at £975. Tel: 01342 315 243 (Sussex)

**AUDIOLAB 8000M** monoblocks, latest spec £525 each. NAD 902 monoblocks/stereo poweramps, as new £135 each. KEF 105/3 speakers, black, 14 months old £1100. All mint, boxed. Tel: 01883 330 063 or 0181 660 8147

**AUDIO INNOVATIONS S500** integrated valve amplifier £495 ono., or swap for a Rega Elicit. And Silver Sounds 14/4 speaker cable 2x3 mtrs £90. Tel: 01843 220 499 (Kent)

**NAIM SBL SPEAKERS**, black + 8 mtrs NAC 05, approx 4 years old, mint condition £650 ono. Tel: 01705 662 772 after 6pm

**McINTOSH PRE-AMP (C26)** v. good condition, v. good sound; 7 inputs, 2 outputs (and central channel) all manuals £750 ono. Tel: 01932 830 267 eves or 0171 699 5445 day

**KEF DRIVERS** circa 1971, good condition, bass units SP1044 (pair), tweeters SP1032 (pair). Sensible offers please. Tel: 01454 329 495

**LINN LK1/Dirak+LK280/Spark** £850 Linn Lingo £450. Meridian 200/263 CD+DAC £450. Super Hi-Fi sound. Can demo, deliver and install. All prices ono. Tel: -1908 368 664

**AUDIO INNOVATIONS Series 500**, triode-coupled, new valves, perfect £500. Sondek Valhalla. Zeta/Van den Hul silver wire AT160ML, superb £325. Audionote ANB 6m pair £120, 4m pair £80. Audioquest Lapis i/c £250. Deltec Black Slink i/c £100. Tel: 0181 747 1968

**2 LEAK 600** Sandwich speakers, 40w, 3 speaker system. Dark wood finish, immaculate condition, offers. 1 Thorens TD1150 Mark II turntable with dust cover, Shure cartridge, in original box. Offers. Tel: 01324 625 458

**AUDIOQUEST DIAMOND** Interconnect 1m cost new £550 asking £250. Krell KSA50 power amp 12-15 years old, fan needs attention, asking £400. Yamaha DSPE580 processor cost new £450, asking £270. Tel: 01296 437 314 evenings (Aylesbury)

**AUDIO RESEARCH and KRELL SP-** pre-amp (£2650 instead of £6200), and KSA-100 Mk 2 power amp (£2250 instead of £5150) Both unmarked. Also pair of Isobariks (£450) Tel: 0161 904 8081 after 7pm

**WANTED. SNELL K.** For Sale: Musical Technology Harriers piano black inc plinths, lovely look and sound, 1 month old, immaculate, cost £545 accept £400. No offers. Tel: 01642 542 395 day or 01429 274 638 eves

**MUSICAL FIDELITY** pre-amp 3B, boxed, unwanted gift £170 ono. KEF Kube for extending dynamic range, sensible offers. Tel: 01280 813 100

**SUGDEN AU51** pre and power amps £2500 new, accept £1100. AMC CD6 CD player £380 new accept £200. Flutterbuster turntable power supply £40. Tel: 01803 297 691 (Torquay)

**PS AUDIO 4.6** pre-amp. Active/passive. MM/MC, excellent condition, boxed £425. 2x63v 4700 UF Elna Cerafine caps 6 months use £11 the pair. Tel: 01342 712 653 answerphone (Sussex)

**EAR 802 MkII** pre-amp £650. BBE Sonic Maximiser £110, both boxed, manuals. Tel: 01772 626 660 (Preston)

**QUAD 606 POWER** £395, 44 pre £195, FM4 £250, KEF 102 in walnut + Kube £250, all boxed and instructions in mint condition. Pair Tannoy Devons £250 very nice. Tel: 01702 219 723

**AUDIONOTE OTTO SE** Line Class A amp. Phonostage can be factory fitted £750. Audionote DAC One + AN-V cable £450. Meridian CD 200 II transport £450. Tel: 0468 363 543 (Basingstoke)

**LINN EKOS ARM** condition mint £575 ono. Tel: 0181 854 6738

**NAIM 180** £695. Rogers Studio 1A including Target stands £295, Quad 33, 303, FM3 £245. Original Systemdek £45. Mission 774 on Linn board £40. Tel: Jon 01202 667 789 (Dorset)

**BEARD P100** Mono blk £1500 will split good condition. Beard P505 inputs MM + 4 line £250 good condition. Audion Premiere 1 pre amp inputs MM + 4 line £350 good condition. Musical Fidelity A200 integrated 6 amp inputs MM + MC £400 ono good condition. Musical Fidelity Ref 4 speakers £250. Pioneer CD player PD/S901 £200 ono. Tel: 0956 301 065 after 4pm

**HEYBROOK SEXTET** speakers. Latest Mk2 version in black ash/yew with Heywire cable £735. (retail £1129). Linn Nexus speakers with stands £195, both good condition, boxed, can deliver. Tel: 01784 421 123/437 150 office/home

**MICHELL ARGO/HERA** Not a bad pre-amp, priced to sell at £450 ovno. TDL RTL2 speakers £195. Arcam Alpha CD £175. Three tier table £30. Tel: Tim 01223 32 2215 (Cambridge)

**2 MANA ACOUSTICS** wall shelves, as new, unmarked £100 each. Tel: 01895 440 602

**AUDIO INNOVATIONS Series 500** valve integrated amplifier, good condition with new valve set £450 ono. QED MC pre-amplifier and Audio Technica AT630 MC Transformer also for sale. Tel: 01425 470 070

**MONITOR AUDIO Studio 50 SE** speakers Ebony piano lacquer finish 6 months old £3250 (£4950) Target B5 equipment rack £100 (£175) Tel: 01797 253 073 (East Sussex)

**VINTAGE BRITISH** Equipment available: Leak Delta 70 amp (perfect), Armstrong 625 receiver (tuner ok, amp works - just!) GL75 turntable (overhauled, decent cartridge, spare arm) £95 the lot. Will split. Tel: 01582 664 339 (Beds)

**GARRARD 401, SME & Goldring 1042.** Custom sprayed heavyweight MDF plinth. Immaculate condition £300 ono. Heybrook Quartet loudspeakers, walnut burr, mint condition Cost £600 sell £375 ono. Leak Troughline mono £75. Tel: 01446 740 079

# Grandix

Sound & Vision

71 HIGH STREET, NEW MALDEN,  
SURREY, KT3 4BT. ENGLAND.

TEL: 1081 336 0012

FAX: 0181 336 2703

● ATC ● AVI ● AURA ● ALCHEMIST ● ATTACAMA ●  
APOLLO ● B&W ● CABLE TALK ● CASTLE ● DPA ●  
DUAL ● EXPOSURE ● HARMAN KARDON ● JBL ●  
KENWOOD ● MARANTZ ● MICHELL ● MCINTOSH ●  
MUSICAL FIDELITY ● NAKAMICHI ● PIONEER ●  
PROJECT ● REL ● ROGERS ● RUARK ● SONY ●  
SYSTEMDEK ● TEAC ● TDL ● TECHNICS ● TUBE ●  
TECHNOLOGY ● AND MANY MORE

## CLEARANCE BARGAINS

	WAS	NOW
ALCHEMIST APD15 INT AMP	£900	£720
ATC SCM20T ROSEWOOD	£2650	£1999
AVIS2000 MT	£600	£480
AVI S2000 MI	£800	£680
B+W HTM	£500	£375
B+W P5	£875	£699
CASTLE CHESTER	£700	£550
EXPOSURE XX	£625	£450
JBL TI 5000	£3700	£2700
JBL CONTROL 5(PAIR)	£500	£350
JBL CONTROL 1(PAIR)	£240	£169
MARANTZ CD17	£800	£640
MARANTZ CD72SE	£600	£420
MUSICAL FIDELITY E100	£600	£450
MUSICAL FIDELITY E600	£600	£450
MCINTOSH C712 Pre-amp	£1480	POA
MCINTOSH MC7100 PWR	£1260	POA
MCINTOSH MCD7009	£2635	POA
MCINTOSH MC150PWR	£2855	POA
MCINTOSH MC500 PWR	£6265	POA
MCINTOSH C40 Pre-amp	£3129	poa
NAKAMICHI ST-3S TUNER	£350	£250
NAKAMICHI MB2	£850	£550
NAKAMICHI 1A-4S	£200	£139
REL STORM	£690	£550
REL Q.BASS	£350	£280
RUARK TALISMAN II	£750	£525
RUARK PALADIN	£1100	£775
TUBE TECHNOLOGY UNISIS/PHONO	£1750	£1099
TDL RTL 4	£650	£499

## STOP PRESS ... STOP PRESS

MUSICAL FIDELITY ... SPECIAL OFFERS

	Were	Now
F22 PRE-AMP, phono mm	£1100	£799
FX POWER amp	£1100	£799
FCD CD PLAYER	£1500	£999

24 HR MAILORDER SERVICE

# Dynamics

HIGH EDND  
AUDIO  
BOUGHT/SOLD  
EXCHANGED

CAMBRIDGE CD1 CD PLAYER HEAVILY MODIFIED WITH MASSIVE POWER SUPPLY, SUPERB	£1295	S/HAND	PHONE
METAXUS ICARUS INTEGRATED AMPLIFIER CHROME - MINT	£595	EX/DEMO	£895
PINK TRIANGLE PIP2 MK2 VISHAY MODIFIED PREAMP - MINT	£1795	S/HAND	£4500
MARK LEVINSON ML3 POWERAMP - MINT	£3995	S/HAND	£8250
MERIDIAN ARGENT 3 SPEAKERS, ROSEWOOD - MINT	£995	NEW	£1495
SNELL A3 SPEAKERS WALNUT, V.G.C.	£4495	S/HAND	£6995
METAXUS CHARISMA PREAMP, CHROME, MINT	£895	EX/DEMO	£1500
CABASSE IROISE MC SPEAKERS CHERRYWOOD, MINT	£1995	EX/DEMO	£2700
RESTEK CHALLENGER INTEGRATED AMP - MINT NEW	£799		
CITATION 18 TUNER ORIGINAL ATERICAN V.G.C.	£295	S/HAND	£650
SUGDEN AU51C PREAMP 2 BOC			
MODIFIED BY AVONDALE V.G.C.	£895	S/HAND	£1800
SOTA COSMOS VACUUM PLATTER - MINT	£1995	S/HAND	£4400
CRYSTAL REFERENCE TURNTABLE (WALLMOUNT)	£1495	S/HAND	£2500
GRYPHON EDITION PREAMP BALANCED - MINT	£3995	S/HAND	£8000
MERIDIAN 606 DAC - MINT	£795	E/D	£1450
AUDIO RESEARCH V70 HYBRID VALVE AMP - MINT	£2495	S/H	£4480
KRELL KR5P REFERENCE PREAMP, BALANCED, MINT	£2495	S/HAND	£11500
GOLDMUND MIMESIS 3 POWER AMP BALANCED, MINT	£1995	S/HAND	£5000
TANDBERG TPA 3009A MU2 MONO POWER AMP MINT	£10955	S/HAND	£2195
MARK LEVINSON ML12A PREAMP PLS12A POWER SUP.	£995	S/H	£2400
CAT SL1 SIGNATURE PREAMP 7, PHONO MINT	£2995	S/H	£8000
EXPOSURE 7 PRE 9 PRO SUPPLY 4 REG AMP MINT	£1250	S/H	£2750
MARK LEVINSON ML2 POWER AMP, MINT	£995	S/H	£2700
LUMLEY REFERENCE M120 VALVE MONOS, MINT	£1795	E/D	£3200
SONY 337 ESD CD PLAYER, MINT	£295	S/H	£600
JADIS DEFY 7 MK3 VALVE POWER AMP MINT	£3495	S/H	£5290
KEF 102 SPEAKERS, ROSEWOOD + KUBE + STANDS	£595	S/H	£1150
APOGEE STAGE SPEAKERS + STANDS, MINT	£1695	S/H	£3454
ACOUSTIC ENERGY AE3 SPEAKERS & STANDS, MINT	£995	E/D	£2075
COUNTERPOINT SA3000 VALVE PREAMP, MINT	£995	S/H	£2189
ADCOM GFA565 MONO AMPS, BALANCED, VGC	£1250	S/H	£2090
MERIDIAN D600B ACTIVE SPEAKERS, BLACK, MINT	£1795	E/D	£2995
WHARFEDALE OPTION 1, 4-WAY ACTIVE SPEAKERS, GREY & WHITE, 1 OF ONLY 5 PAIRS, SUPERB, VGC	£1995	S/H	PHONE
CARVER AMAZING SPEAKERS, PIANO BLACK, VGC	£895	S/H	£2300
HALES SIGNATURE 2 SPEAKERS, ROSEWOOD, MINT	£3495	S/H	£6600
MUSE 18 ACTIVE SUBWOOFER, ROSEWOOD, BALANCED, MINT	£2495	S/H	£4000
PIONEER PD75 CD PLAYER, MINT	£395	S/H	£800
MERIDIAN 508 SUPER CD PLAYER, BALANCED, MINT	£995	E/D	£1475
MARANTZ CD65 MK2 SE CD PLAYER, MINT	£175	S/H	£350
ROWLAND MODEL 3 MONO AMPS, BLACK, BALANCED, MINT	£2250	S/H	£4000
MARK LEVINSON NQ20 REF MONO AMPS BALANCED, MINT	£4995	S/H	£11100
CHORD 1200 POWER AMP MINT	£1595	S/H	£3000
APOGEE CENTAUR MINOR SPEAKERS, MINT	£895	S/H	£1345
GALE 302 SPEAKERS, BLACK ASH, MINT	£275	S/H	£440
THIEL CS51 SPEAKER, PIANO, BLACK, MINT	£7995	S/H	£12300
GRYPHON XT PREAMP + MC, MINT	£2250	S/H	£5485
ELECTROCOM PANIET AW1000MB BAL AMP MINT	£1295	S/H	£2018
MERIDIAN DS9500 DIGITAL SPEAKERS ROSEWOOD, MINT	£2250	S/H	£3450
ALPHASON SYMPHONY TURNTABLE & ARM PLUS ATLAS SUPPLY, PIANO FINISH, MINT	£1295	S/H	£2700
MERIDIAN 506 MK2 CD PLAYER, MINT	£750	E/D	£950
MERIDIAN 508 MK3 CD PLAYER, BALANCED, MINT	£1395	E/D	£1685
MERIDIAN 500 TRANSPORT & 563 DAC, BALANCED, MINT	£1595	E/D	£1990
AUDIO RESEARCH SP9 PREAMP, SILVER, MINT	£895	S/H	£1700
MERIDIAN 501 PREAMP & MSR, MINT	£575	E/D	£675
MERIDIAN 551 INTEGRATED AMP, MINT	£595	E/D	£695
MERIDIAN 555 POWER MINT	£550	E/D	£850
MARK LEVINSON NQ20.5 MONO POWER AMPS, BLACK, BALANCED, MINT	£5995	S/H	£12500
AUDIO PLAN KONGCEPT SPEAKERS, BLACK, MINT	£795	S/H	£1750
MARTIN LOGAN SEQUEL 2 SPEAKERS, OAK	£1495	S/H	£3277
APOGEE CALIPER SIGNATURE SPEAKERS, ANTHRACITE, MINT	£1595	S/H	£3998
CAL TEMPEST 2 CE VALVE PLAYER, MINT	£1500	S/H	£3900
MARK LEVINSON ML10A PREAMP, MINT	£1250	S/H	£3800
ROWLAND MODEL 5 POWER AMP BALANCED, MINT	£2500	S/H	£5250
CONRAD JOHNSON PREAMP 4, VALVE, MINT	£1795	S/H	£500
SOTA STAR SAPHINE 3 TURNTABLE, MINT	£1995	E/D	£2500
MARK LEVINSON ML7 PREAMP, MINT	£1995	S/H	£5800
MRO A201S STEREO AMP 200W CLASS A, MINT	£2995	S/H	£6600
SUMO ARIA PANEL SPKRS, OAK, VGC	£795	S/H	£3000
GENESIS 8300 SPEAKERS & STANDS, PIANO BLACK, MINT	£995	E/D	£1895
CONRAD JOHNSON SYNTHESIS REFERENCE 4 TOWER SPEAKERS SYSTEM, OAK	£2995	S/H	£8000
APOGEE MINI GRAND GS SPEAKERS PIANO BLACK, MINT	£4500	S/H	£8595
NEW IN THIS MONTH			
KOETSU 80TH ANNIVERSARY CARTRIDGE MINT	£1250	D/H	£3200
FORSEL AIR REFERENCE LTD EDITION TURNTABLE & ARM			
AIR BEARINGS SUPERB INC CARTRIDGE ETC MINT	£5995	S/H	£13262
ORACLE DELPHI MK3 TURNT. SUMIKO MDC 800 ARM MINT	£1795	S/H	£3400
PIERRE LURNE JMK 2 TURNTABLE & SLS ARM MINT	£1995	S/H	£3900
TOWNSHEND ROCK 3 REGA ARM WITH V.T.A. ADJUSTER MINT	£1034	S/H	
AUDIO RESEARCH CDT1 CD TRANSPORT MINT	£1995	S/H	£3290
ACCUPHASE DP70 CD PLAYER BALANCED AT&T MINT	£2250	S/H	£6000
ACCUPHASE DP85 MMB CD PLAYER DIGI VOLUME BAL MINT	£3995	S/H	£8800
MERIDIAN 602 CD TRANSPORT MK2 & 606 DAC MK2 MINT	£1500	S/H	£2300
MERIDIAN 603 MK2 PREAMP DAC & REMOTE MINT	£995	S/H	£1800
MISSON DAD 5CD PLAYER & DAC S MINT	£325	S/H	£800
WAIDA WT 3200 CD TRANSPORT MINT	£1195	S/H	£2038
MARK LEVINSON NO 38S PREAMP BALANCED MINT	£4495	S/H	£6500
MARK LEVINSON NO 26S PREAMP BALANCED MINT	£3995	E/D	£8500
ROWLAND CONSUMMATE MK33 BOX PREAMP FULLY BALANCED LINE & PHONO REMOTE ETC.	£4495	S/H	£9300
DENSEN BEAT 100 INTEGRATED AMP MINT	£395	S/H	£600
MISSION CYRUS I INTEGRATED AMP MINT	£130	S/H	£250
NAIM 32.5S HICAP 110 AMP MINT	£695	S/H	£1350
AUDIO RESEARCH SP15 MK2 PREAMP BALANCED MINT	£2995	S/H	£6608
APPOGEE DAX ELECTRONIC CROSSOVER MINT	£1495	S/H	£4400
MUSICAL FIDELITY MVX MK2 PREAMP MINT	£1095	S/H	£2500
PRO PASSION BALANCED PASSIVE PREAMP MINT	£395	S/H	£695
PASSION PASSIVE PREAMP MINT	£395	S/H	£620
MEITNER PA61 PHONO & LINE PRE RC & STR50 AMP	£1295	S/H	£3495
THRESHOLD FET 10E LINE & FET10 PHONO BAL MINT	£2495	S/H	£4920
THRESHOLD FET 10 LINE & PHONO E SUPPLIES MINT	£1695	S/H	£4250
AUDIO RESEARCH SP8 MK2 VALVE PREAMP MINT	£995	S/H	£2000
AUDIO RESEARCH SP 14 VALVE PREAMP MINT	£1595	S/H	£3298
PRIMARE 201P PHONO & LINE PREAMP & PAIR OF 202 MONO POWER AMPS ALL IN STAINLESS			
SUPERB BALANCED FULL WARRANTY	£7495	E/D	£13800
AUDIO RESEARCH DI15 MK2 VALVE AMP MINT	£1250	S/H	£3200
MUSICAL FIDELITY A370 MK2 POWER AMP MINT	£1395	S/H	£2500
JADIS J80MONOS LATEST MINT	£4495	S/H	£9912
MARK LEVINSON ML9 POWER AMP MINT	£1895	S/H	£3800
WOODSIDE RADFORD MA50 VALVE MONOS MINT	£895	S/H	£2448
ATC SCM 50A ACTIVE SPEAKERS & STANDS MINT	£2795	S/H	£4497
MAGNEPLANAR 2.5R SPEAKERS FOUNDATION STANDS MINT	£995	S/H	£2200
KEF 103/4 MS SPEAKERS BLACK ASH MINT	£895	S/H	£1198
ATC SCM 20 SPEAKERS & STANDS ROSEWOOD MINT	£1295	S/H	£2000
ACCOUSTAT II ELECTROSTATIC SPEAKERS BLACK MINT	£495	S/H	£1095

"OODLES OF HIGH END CARTRIDGES AVAILABLE - RING FOR DETAILS".  
MANY MORE ITEMS IN STOCK, EFFICIENT SERVICING DEPARTMENT. WE ARE LOCATED IN  
WELWYN, HERTS. ALL ITEMS GUARANTEED. ALL MAJOR CREDIT CARDS ACCEPTED.  
RING FOR DETAILS AND DEMONSTRATION - 01438-714038  
10.00a.m. - 7.00p.m., MON - SAT, 10.00a.m. - 1.00p.m. SUN. Mobile tel. 0831 250985.

**NAIM NAIT 2** (new style) 3 years old, immaculate condition, with box and manual. Recently upgraded to pre/power amps, hence sale £275 ono.  
Tel: 0171 258 7300 (day) or 0181 464 3969 (eves/weekends)

**CR DEVELOPMENTS** Kalypso valve amplifier with upgraded Soutek power valves and valvecor 1 year old £295. Upgrade forces sale. Possible deliver within reasonable distance of Stamford, Lincs.  
Tel: 01780 641 49

**QUAD ELS** loudspeakers, bronze £325. Naim Nait 3, MC phono stage £425. £700 for both. Can deliver.  
Tel: 01202 554 110

**WANTED: TRIO/KENWOOD L07D** turntable working or not. Also accessories, manuals, packaging etc. Cash waiting.  
Tel: 01782 680 376

**AUDIOLAB 8000C** pre amplifier £250; Sugden AUS1P amplifier £400; Modsquad Phonodrive MM or MC equalisation stage or stand alone phono only pre-amplifier £275. All equipment boxed in excellent condition.  
Tel: 01793 771 286 evenings

**MERIDIAN 200** transport and 203 DAC £500 (£1325), as new, unmarked with original boxes and manuals.  
Tel: 01364 72292

**LINN LP12 BLACK.** Valhalla, Basik Plus, K9, very good condition below average use. Can be heard £325 ono  
Tel: 0181 840 4699

**MILLENIUM STEREO** valve amplifier Class AB 25+25 watts. Twin off-board power supply, phono input, 6 months old £240. Connoisseur deck with Haddock Unipivot arm £30  
Tel: 01889 564 021 (Staffordshire)

**MERIDIAN 203 DAC7** 3 years old. Upgraded by Russ Andrews. Crisp vibrant sound. £195, includes carriage. Hart phono amp 2 box suit MC or Mag £35.  
Tel: Harold 01952 249 627 (Telford)

**WANTED: SAGE AUDIO** Supermoss 2 module, also RS2 mains conditioner. Top prices paid.  
Tel: 01656 725 420 or 724 342

**WANTED: NAIM NAC92** preamp also Naim NAP power amp 90. Must be in good condition-used bargain.  
Tel: D. Owens 0161 747 5679

**PIONEER REFERENCE** Series C90/M90 pre power amp. Ultimate in Hi Fi stereo component. 200 x 200 w mono-block design in original boxes £695 ono  
Tel: 0115 929 8301 (Nottingham)

**RADFORD WS2** CD Player. True hi end machine fitted with switchable passive control (as standard). Radford SC26 valve pre-amplifier both MM phono stage and line stage, superb sound and reviews. Both in original condition £475 and £900 respectively. Genuine reason for sale.  
Tel: Mike 01934 518 072

**ROKSAN DPI** Transport & DAI DAC £900. Linn K20, bi-wired speaker cable 2x5mtrs £50. Denon cassette deck DRM 800 £175. Can demonstrate, all boxed with manuals.  
Tel: 01293 883 730 evenings

**KEF 105/3** Reference speakers walnut finish, boxed, documented, mint condition, transport can be arranged £1150 ono.  
Tel: 003531 459 1432 (Dublin)

**CROFT ENIGMA 'Elite'.** Modified by Glen Croft - latest caps, 6 months old, 20 hours use, absolutely mint condition and superb sound. Cost £1600 give away at £850.  
Tel: 01902 786 818 Mon-Fri after 3pm only please.

**LEAK 1950s** Troughline mono valve tuner £75. Tripletone valve tuner £50. Nelson Jones Wireless World transistor preset tuner £25. Rogers Ravensbrook tuner £30. All in excellent condition.  
Tel: 01372 467 264 (Esher)

**LEAK STEREO 20** Tuner and pre amp £200 ono. A few un-named valve amps, valves, a few very old speakers etc.  
Tel: 0113 240 3496

**MUSICAL FIDELITY A100** Class A Integrated amplifier, boxed, mint £500 new accept £220. Mission PCM II CD player £600 new accept £200. Naim NAP 160 £200. Can demonstrate.  
Tel: 01789 262 929

**ORIGINAL DUNLOP** Systemdek (grey) AT1100 arm, Ortofon VMS 20E £165. Mana mini table £100, Audio Innovations PI phono amp, as new £250  
Tel: 01305 777 962 (Dorset)

**MERIDIAN 200** CD Transport, superb condition and sound £400. Mission DAC5 (with DAC7 chip) £75. Thorens TD160 turntable + Linn K9 cartridge £75.  
Tel: 01332 366 450 (Derby)

**MICHELL MYCRO** (green acrylic) RB300, Goldring 1022GX cart., mint condition, 7 months old £485 ono. Wanted: Naim CDI or CD3. Must be in excellent condition. Swap Cyrus DAD7 + PSX-R Isoplat.  
Tel: 0973 114 846 day 01252 735 907 eves

**ARMSTRONG 521** Stereo amplifier £35 Genexxa multiplay CD player £70. Aiwa I250 quality top loading cassette deck £40. Teac DBX unit £50. Pair NAD speakers, Goldring turntable £30.  
Tel: 0181 406 4460 (Croydon)

**WANTED: RADFORD STAIRS** Series 3 or MA15 Series 3 power amps. with or without pre-amp. Will pay an excellent price and collect. Private buyer.  
Tel: 01302 724 384

**MISSION 753** Speakers. Excellent condition, only 12 months old, boxed, Rosewood finish, genuine reason for sale. Big saving on new £500.  
Tel: 01484 608 548 eves 453 735

**LINN KAIRN PRO LK20/Spar** Kann lls stands and cables. Upgrading £1500  
Tel: 01324 716 8080 (Falkirk)

**FERROGRAPH LOGIC 7**, open reel tape recorder 3 3/4, 7 1/2 & 15 i.p.s., 1/2 track, very nice and little used example. Why pay silly money for a Revox? £250  
Tel: 01782 661 776

**REVOX STUDER A272** Studio CD player with manual £500. Silver interconnects - pure silver - PTFE insulation - gold plated plugs 1m £40. Upgraded Ruark Swordsman Plus £165 boxed.  
Tel: Phil 0117 951 1781 or 0973 814 654 (Bristol)

**COLLECTION OF RARE** early valves, 1920's on, list available, Garrard 401 £75 Decca Corner Horns £150. Quad valve AM tuner vgc £85. FM £55. Thorens TD125 II, SME etc, mint £135  
Tel: 01364 72153

**QUAD POWER** amp, QCII control amp, ELS 57 bronze, original manuals £450.  
Tel: 01954 210 451 (Cams)

**LINN LP12**, Cirkus, Aro, Arkin, Pink Linnk. Perfect condition, low hours. All recent £1595. Naim 82 preamp Hi-Cap one year old £1750. Swap for Naim 52 preamp  
Tel: 01675 442 567

**NAIM CDI**, immaculate condition, boxed, complete with remote control and interconnects £1225 ovno. Naim NAC32.5, Naim NAP160 and Naim IBL speakers with boxes £600.  
Tel: 0181 558 5942

**OPTIMISE YOUR SPEAKER** - subwoofer system with a Bryston 10B active line level crossover (balanced) £850; optimise your Quad ELS-63's or 57's with a Mark Levinson No. 27 amplifier £1850.  
Tel: 01865 63160 (Oxford)

**QUADRAPOD STANDS** for Quad ELS 57's £20, two Slate Audio tables 17h x 16 1/2d x 23w £150 each. Carver moving coil transformer 3.9, 39, 110 ohm £30  
Tel: 01865 63160 (Oxford)

**VPI 16.5** Record cleaning machine. Boxed with instructions, brush and fluid. Excellent condition £275.  
Tel: 0181 664 6079 after 5pm & weekends (Streatham)

**MATCHED PA R** Denon POA 4400A optical Class A mono-block power amplifiers, balanced/unbalanced inputs, 160W/8 ohms, 250W/4 ohms: £400. Mod Squad De-Luxe passive line level pre-amplifier £350. Excellent condition, manuals, little use.  
Tel: 01590 624 333

**MUSICAL FIDELITY F22** valve pre-amp, remote. Great sound and value £600 (£1100) Audiolab 8000T tuner £400 (£750). 2 pairs 0.5m Kimber KCAG interconnect. Forget the upgrade you'd planned, these cables will transform your system for much less! £170 pair (£272)  
Tel: Jerry 01372 468 266

**QUAD 33/303** pre/power amp £100. Quad FMII tuner £50. Pair Sonab OA-4 teak speakers £50. Akai X1800SD tape deck with 8 track cartridge facility £50. Buyer collects (nr Sheffield)  
Tel: 01433 630 982

**REL STRATA II** Sub bass system, two months old, excellent condition, as new cost £550 accept £300  
Tel: 01268 759 157 - mobile 0956 429 635

**LINN LINGO** £350, Epos ES22 speakers, month old £950. Sugden A21 Class A amplifier £75. Sugden A48/2 Class A amplifier £95. Quad 405-2 amplifier £175. Sony CDP-X303ES CD as new £250  
Tel: 01952 502 097 (Telford)

**AT-0C9s**, Brand new, 2 left £200 each. DPA 200/s pre, power, immaculate £680. Roksan Xerxes Artimiz, Shiraz, black Ash, XBS/Mk2 psu £1200 ono.  
Tel: Jules 01792 280 061

**LEAK TROUGHLINE 3** Mono valve tuner in full working order and near perfect condition. Fab sound! £100 ono  
Tel: Wally 0151 933 3829 after 5.30pm and weekends

**ROGERS LS3/5A** BBC Monitor speakers. Vintage 15 ohms. Accurate and easy to drive £300  
Tel: 01162 2715 252 eves 2340 648 day (Leicester)

**RUARK TEMPLAR** Loudspeakers burr walnut baffles (£499) vgc sell for £275 or swap for Monitor Audio MA1400/14mk2 will also consider Mission 752, TDL Studio 0.5  
Tel: Steve 01429 867 432 (Hartlepool)

## SITUATIONS

**GRADUATE (25)** seeks work within Hi-Fi market. As sales rep or in sales. Excellent product knowledge. Leicester/Midlands area.  
Tel: Dale 0116 281 2074

**CAMBRIDGE UNIVERSITY** Engineering undergraduate seeks summer vacation employment in audio engineering before entering 3rd year. Please contact Michael Burcher, Sidney Sussex College.

**MAKE ME HAPPY.** Give me a job. Hard working design graduate with sense of humour and power Macintosh would like a position in the Audio Visual industry.  
Tel: Adam 01873 811619

**MSc in Audio Engineering?** Yes, two analogue buffs, into amp/speaker design, soon to finish unique course at Essex University. Don't delay, or else we advertise abroad!  
Tel: Jon 01206 242099 or Malcolm 01206 867317

# NVA

## BLACK BOX RANGE KITS

A range of easy to assemble solid state kit amps, with fully tested and fitted printed circuit boards. If you are competent with a soldering iron these kits should be no problem. A full rebuild and sort out service available.

AP30	Integrated Amplifier	£230.00
AP50	Integrated Amplifier	£320.00
	Phono Stage Fitted	£70.00
A60	Stereo Power Amplifier	£300.00
A70	Mono Power Amplifier	£570.00 Pair
A80	Mono Power Amplifier	£880.00 Pair
P50	4 Input Pre Amp	£180.00
P90	6 Input Pre Amp	£240.00
	Phono 1 MM or MC Phono Unit	£170.00
	Phono 2 MM or MC Phono Unit	£240.00
	P.S.U. Power Supply for Phono 2	£180.00

EX REVIEW/DEMONSTRATION STOCK BARGAINS, The Emotive Statement (TES) CD Player £1000.00 RRP £2000.00

NVA, 6 Watermill Ind. Est., Aspenden Road, Buntingford, Hertfordshire SG9 9JS

Tel: 01763 272707 Fax: 01763 271594

# NVA

## TRADE UP WITH NVA

We are so confident in our superiority over competitive product we will trade in any current or recent popular amplifier at its current or last retail price against selected NVA product (not kits). Money back guaranteed if not satisfied.

Examples:

Audiolab 8000	Upgrade to	NVA P50/A60	£351.00
Pioneer A400x	Upgrade to	NVA AP50	£220.00
Naim NAIT3	Upgrade to	NVA P90/A60	£340.00

Direct from NVA or participating retailers:

- Chantry Audio-Newark.
- Doug Brady Hi-F-Warrington .
- Sound Approach-Norwich.

NVA, 6 Watermill Ind. Est., Aspenden Road, Buntingford, Hertfordshire SG9 9JS

Tel: 01763 272707 Fax: 01763 271594



Hi-Fi & Audio Consultants  
Sales and Service

MAKE AND MODEL	TYPE		WAS	NOW
ARCAM XETA ONE	AV AMPLIFIER	EX-DEM	£1000.00	£ 799.00
BOSE MODEL 100	LOUDSPEAKERS	EX-DEM	£ 159.95	£ 100.00
BOSE LIFESTYLE 5	SYSTEM	EX-DEM	£1600.00	£1100.00
DENON AVC-1530	AV AMPLIFIER	EX-DEM	£ 479.99	£ 350.00
DENON D250	SYSTEM	EX-DEM	£ 950.00	£ 750.00
HEYBROOK POINT FIVE	LOUDSPEAKERS	S HAND	£ 200.00	£ 100.00
HEYBROOK TRIO	LOUDSPEAKERS	EX-DEM	£ 373.00	£ 250.00
INFINITY REFERENCE 21	LOUDSPEAKERS	EX-DEM	£ 259.00	£ 150.00
MARANTZ PM-44 SE MK II	AMPLIFIER	NEW	£ 199.99	£ 129.99
MARANTZ PM-53	AMPLIFIER	EX-DEM	£ 239.99	£ 179.99
MARANTZ CD 46	CD PLAYER	NEW	£ 179.99	£ 139.99
MARANTZ AC/SM 500	CD PRE TUNE PWR	NEW	£1100.00	£ 549.99
MERIDIAN 504	TUNER	EX-DEM	£ 660.00	£ 499.99
MERIDIAN 508	CD PLAYER	EX-DEM	£1685.00	£ 999.00
MERIDIAN 555	POWER AMPLIFIER	EX-DEM	£ 695.00	£ 549.00
MERIDIAN 501	PRE-AMP	EX-DEM	£ 675.00	£ 499.00
MERIDIAN 563	DIAC	EX-DEM	£ 795.00	£ 549.00
MORDAUNT SHORT MS 20	LOUDSPEAKERS	NEW	£ 189.00	£ 119.00
MORDAUNT SHORT MS 30	LOUDSPEAKERS	NEW	£ 269.99	£ 150.00
NAD 302	AMPLIFIER	EX-DEM	£ 189.00	£ 130.00
NAD 3130	AMPLIFIER	S HAND	£ 130.00	
QUAD 77	AMPLIFIER	EX-DEM	£ 595.00	£ 495.00
ROTEL RC-960BX	PRE-AMP	EX-DEM	£ 175.00	£ 110.00
ROTEL RCD 940 BX	CD PLAYER	EX-DEM	£ 249.99	£ 150.00
RJARK SABRE	LOUDSPEAKERS	EX-DEM	£ 499.00	£ 299.00
RJARK SWORDSMAN	LOUDSPEAKERS	EX-DEM	£ 329.00	£ 200.00
RJARK TEMPLAR	LOUDSPEAKERS	EX-DEM	£ 499.99	£ 349.99
SHEARNE PHASE II	AMPLIFIER	EX-DEM	£ 549.99	£ 349.99
SONY MDP 850	LASER DISC PLYR	EX-DEM	£ 699.99	£ 449.99
TANNOY D-700	LOUDSPEAKERS	EX-DEM	£2330.00	£1350.00
TDI NFM 2	LOUDSPEAKERS	NEW	£ 179.95	£ 129.95
YAMAHA RX-385 RDS	RECEIVER	NEW	£ 269.95	£ 199.99
YAMAHA DSPA 970	AV AMPLIFIER	EX-DEM	£ 799.95	£ 649.99
YAMAHA DSPA 780	AV AMPLIFIER	EX-DEM	£ 599.95	£ 499.95
YAMAHA CC 70	SYSTEM	EX-DEM	£ 799.99	£ 499.00
YAMAHA YST-SW60	SUBWOOFER	B STOCK	£ 199.99	£ 149.95

Mail Order Services •  
Major Credit Card Accepted  
Call 01788 540772

or write to 12 Regent Street, Rugby, Warwickshire

# Edicron

## SOUND MANUFACTURERS NEED SOLIDLY RELIABLE VALVES

For continuity of supply, quality components that breathe life into your equipment and tailor made pricing, **talk to us.**

No fancy names, no pretty pictures, just true dedication to service and our customers.

Benefit from our 38 years of trading directly with Valve producing factories and Audio manufacturers

**Edicron**

Park Road, Faringdon, Oxfordshire, SN7 7BP

Tel: 01367 243030 Fax: 01367 243131



# advertisers' index

A.P. Electronics	130	Grandix	134	Slate Audio	111
Alchemist	22	GT Audio	18	Sonneteer	108
Alema UK	120	Harbeth	40	Sonic Frontiers	112
Anglia Audio	115	Harman	46	Sound Connection	106
Apollo Furniture	46	Hart Electronics	110	Sounds Expensive	136
Art Audio	130	Heatherdale	106	Soundstage	121
Audio Arts	128	Hot Rocks	102	Sound Advice	54
Audiophile Furniture	68	Ian Edwards	64	Spaldings	64
Audio Illusion	22	Ian Harrison	112	Spectra Dynamics	35
Audio Illusion	115	Impulse	34	Studio One	60
Audio Jumble	104	KEF	IFC	Sugden	86
Audio Masters	94	Klipsch	35	Sugden	IBC
AudioNote	122	Kronos	119	Sussex Surplus	132
AudioNote	123	Linn	58	System	86
Audiophile		Linn	86	Technical and	
International	116	M.A.X	115	General	113
Audiophile		Mana Acoustics	104	The Audio	
International	117	Mantra Music	128	Consultants	40
Billy Vee	114	Marathon Music	119	The Emporium	104
Burridge	60	MAV	124	Harrogate Hi-Fi	104
Cable Talk	102	Musical Images	24	Hi-Fi Corner	101
CAD	68	N.V.A.	136	The Sound	
Chelmer Valve		Oranges and Lemons	106	Organisation	40
Components	125	Orelle	98	Thomas Transducers	119
Choice Hi-Fi	128	Ortofon	34	Trichord	50
Classique Sounds	102	Ortofon	35	Triskon Valves Ltd.	19
CR Developments	50	Ortofon	60	Try Me And See	100
Creek	64	Ortofon	68	UKD	8
Custom Cable	106	Oxford Audio		V'Audio	121
De-Regle	48	Consoltants	118	Vickers Hi-Fi	64
Definitive Audio	54	PM Components	96	Vintage Audio	22
Definitive Audio	132	Power Plant	113	Vintage Audio	115
Diverse Vinyl	118	Progressive Audio	132	West Midland Audio	124
Doug Brady And		Pure Sounds	118	Wharfedale	10
Wilson Benesch	60	Q.T.A.	126	Wilson Benesch And	
Dynamics	134	Radlett Hi-Fi	126	Doug Brady	60
Edicron	136	Ringmat	68	Wilson Stereo Library	56
Electric Engineering		Riverside Audio	130		
Components	106	Rogers	76		
Encore	102	Roksan	32		
Friends To The		SDAV	56		
Stars	108	Serious Kit	113		
Gamma	108	Sevenoaks	6		
Glass Audio	112	Simply The Best	12		
Glotta	56	Simply The Best	13		

# SUGDEN

HAND CRAFTED ■ FAIT A LA MAIN

OPTIMA COMPACT DISC PLAYER



SIGNATURE 41R PRE/POWER AMPLIFIER



OPTIMA 200R LINE AMPLIFIER



**DESIGNERS & MANUFACTURERS OF HI-FI & AUDIO EQUIPMENT  
J. E. SUGDEN & CO. LTD.**

**Valley Works,  
Station Lane, Heckmondwike,  
West Yorkshire WF16 0NF**

Tel. Heckmondwike 01924 404088/9  
Fax No. 01924 410069

WHO SAYS THE

BRITISH DON'T

PLAY BRILLIANTLY

IN EUROPE?

EUROPEAN LOUDSPEAKER OF THE YEAR



At B&W we've just scored another major success. Our CDM1 has now won European Speaker of the Year, which was judged by the Editors-in-Chief of leading photo, video and audio magazines from thirteen countries. High praise indeed. But with a winning team of engineers coming up with a hot trick of technological innovations: outside tweeter mounting, kevlar drive unit and contoured edges for reduced sound diffraction, it's not an entirely unexpected result. For more information call B&W UK on 01903 750750. And see that the best European players don't have to start at £8.5m



**B&W**

LISTEN AND YOU'LL SEE



