

Only  
**£2.00**

# Hi-Fi WORLD

DECEMBER 1993 £2.00

**CHOOSING A '£200'  
LOUDSPEAKER -  
GOODMANS MEZZO  
CELESTION 7  
TDL RTL 2  
REGA KYTE  
PIONEER S4-UK**

*See Supplement  
within.*

**LINN STARTER SYSTEM  
DACULA CD CONVERTOR  
JOHN SHEARNE  
PHASE 2 AMPLIFIER**

**DIY  
SUPPLEMENT  
No. 6  
banded to this  
issue**



**'GARRARD 401 CELEBRATION'  
ARM FROM SME**



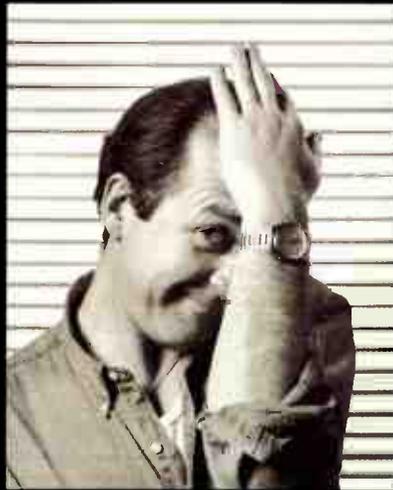
**COMPETITION - WIN  
A ROSE AND HARMAN  
KARDON SYSTEM**

World Radio History

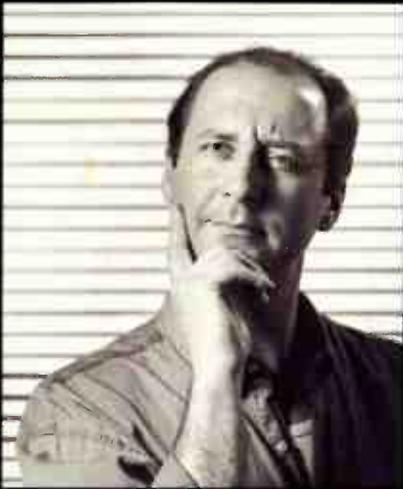




"I've got a pretty good hi-fi system"



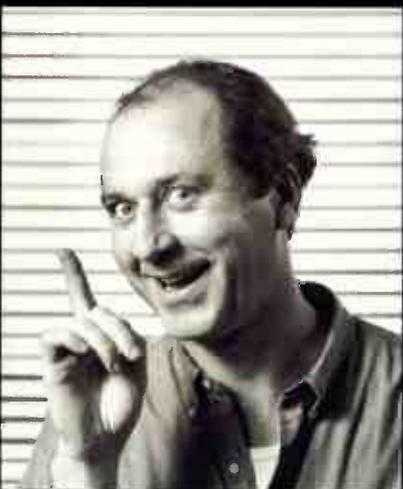
"Friends tell me all the time"



"Sure I'd like a Naim CD player"



"But it would cost me thousands to buy one"



"The CDI costs how much?"



"It'll look great over there!"

Put the expression back into your music with the Naim CDI. You can listen to our integrated CD player, incorporating all the technological innovation and expertise you'd expect from one of the world's leading hi-fi manufacturers, at any of the specialist retailers listed here.

What's more, it's so reasonably priced, you won't even need the brave face.

Now you know what's in a Naim



Naim Audio, Southampton Road, Salisbury SP1 2LN, England. Tel: (0722) 332266



**LONDON**

**Audio Venue**  
24 Church Rd, Crystal Palace SE1 Tel: 081 771 7787  
**Blitz Vex Sound Systems**  
246 Lec High Rd, Lewisham SE13 Tel: 081 318 5755  
**Doug Brady Hi-Fi**  
18, Moynouth St, Covent Gdn WC2 Tel: 071 379 4010  
**The Cornflake Shop**  
37 Windmill St, W1 Tel: 071 631 0472  
**Graham's Hi-Fi**  
Canary Wharf, 190a New North Rd, N1 Tel: 071 226 5500  
**Son at Lumiere**  
67 Tottenham Court Rd, W1 Tel: 071 580 8059  
**The Sound Organisation London**  
4 Pockford Wharf, Cokk St, SE1 Tel: 071 403 2255  
**Studio 99**  
79 81 Fariza Road, NW6 Tel: 071 624 8855  
**Uxbridge Audio**  
109 Chawick Light Rd, W4 Tel: 081 742 3444

**NEAR LONDON**

**Infidelity Hi-Fi**  
9 High St, Hampton Wick, Kingston upon Thames  
Tel: 081 943 3530  
**Radford Hi-Fi**  
43 King Edward Court Windsor Berks Tel: 0753 856931  
**The Sound Gallery**  
65 Cassie St, High Wycombe Bucks Tel: 0494 531682  
**Spaldings**  
352 354 Lower Addiscombe Rd, Croydon, Surrey  
Tel: 081 854 1231  
**Studio 99**  
62 High St, Harpenden Hertfordshire Tel: 0582 764246  
**Unitel Products**  
35 High St, New Malden, Surrey Tel: 081 942 9567  
**Uxbridge Audio**  
278 High St Uxbridge Middlesex Tel: 0895 230464

**SOUTH**

**Audio Designs**  
26 High St, East Grinstead, W Sussex Tel: 0342 314569  
**Chichester Hi-Fidelity**  
7 St Pancras, Chichester, Sussex Tel: 0243 776402  
**Jeffries Hi-Fi**  
69 London Road, Brighton, E Sussex Tel: 0273 608431  
**Jeffries Hi-Fi**  
4 Albert Parade, Green St, Eastbourne, E Sussex  
Tel: 0323 31335  
**Jeffries Hi-Fi**  
29 London Road, Portsmouth, Hampshire Tel: 0705 663604  
**Soundcraft**  
40 High Street, Ashford Kent Tel: 0233 624441  
**Sound Waves**  
11 Hobury Drove Precinct, Hove, Hampshire  
Tel: 0703 899131  
**Worthing Audio**  
20 Teville Gate Precinct, Worthing, W Sussex Tel: 0903 212133

**EAST**

**The Audio File**  
27 Aldgate St, Barbican, London EC2A Tel: 0278 506576  
**The Audio File**  
110 & Princes Way, Blisworth, Leicestershire Tel: 0450 3618  
**Basically Sound**  
The Old School, School Rd, Bracon Ash, Nr. Norwich, Norfolk  
Tel: 0508 70329  
**Cam Audio**  
110 Mill Road, Cambridge Tel: 0223 60442  
**Pro-Musica**  
8 Vineyard St, Colchester, Essex Tel: 0206 577519  
**Rayleigh Hi-Fi**  
216 Moulsham St, Chelmsford, Essex Tel: 0245 265245  
**Rayleigh Hi-Fi**  
132 + London Rd, Southend on Sea, Essex Tel: 0702 435255  
**Rayleigh Hi-Fi**  
44A High St, Rayleigh, Essex Tel: 0268 778762

**WEST**

**Audio Excellence**  
58 Bristol Rd, Gloucester Tel: 0452 300046  
**Audio Excellence**  
65 Park St, Bristol Avon Tel: 0272 264975  
**Radford Hi-Fi**  
6 Fore St, St Marychurch, Torquay, Devon Tel: 0803 326723  
**Radford Hi-Fi**  
28 Cowick St, St Thomas, Exeter, Devon Tel: 0392 218895  
**Radford Hi-Fi**  
12 James Street West, Bath, Avon Tel: 0252 446245  
**Radford Hi-Fi**  
107 Cornwal St, Plymouth, Devon Tel: 0752 226011  
**Radford Hi-Fi**  
52/54 Gloucester Road, Bristol Avon Tel: 0272 428248  
**Mike Manning Audio**  
110 Middle Street, Yeovil, Somerset Tel: 0955 79361

**WALES**

**Audio Excellence**  
134 Cross Rd, Cardiff, South Glamorgan Tel: 0222 228545  
**Audio Excellence**  
9 High St, Swansea, West Glamorgan Tel: 0702 474608

**MIDLANDS**

**Creative Audio**  
9 Dapple, Shrewsbury, Shropshire Tel: 0743 241924  
**Griffin Audio**  
84 Bristol St, Birmingham 5, West Midlands Tel: 021 692 1359  
**Listen Inn**  
32 Gough St, Northampton, Tel: 0604 37871  
**Sound Advice**  
The Sound Factory, Duke St, Loughborough, Leicestershire  
Tel: 0530 218314  
**West Midlands Audio**  
158 Ombarnaby Road, Worcester Tel: 0905 58046  
**Overture**  
3 Church Lane, Banbury, Oxfordshire Tel: 0295 272158  
**Westwood & Mason (Oxford) Limited**  
46 George Street, Oxford Tel: 0865 247783

**NORTH**

**Audio Projects**  
45 Hestley Lane, Leeds West Yorkshire Tel: 0532 304565  
**Better Hi-Fi**  
16 Cook Street, Liverpool 2, Merseyside Tel: 051 227 5007  
**Doug Brady Hi-Fi**  
The Forge Cottage, 19 Crossgate, Otley, Leeds, West Yorkshire  
Tel: 0547 477810  
**Doug Brady Hi-Fi**  
401 Smithdown Rd, Liverpool 15, Merseyside Tel: 051 733 6859  
**Kingsway Studios**  
Kingsway North, Warrington, Cheshire  
Tel: 0925 828805  
**Lintone Audio**  
8 The Arcade, Metro Centre, Gateshead Tyne & Wear  
Tel: 091 460 0999  
**Lintone Audio**  
7 11 Park Lane, Gateshead R Tyne & Wear Tel: 091 477 4167  
**Lintone Audio**  
23 22 Monument Mall, Newcastle upon Tyne, Tyne & Wear  
Tel: 091 232 3994  
**Lintone Audio**  
242 Park View, Whitley Bay, Tyne & Wear Tel: 091 252 4665  
**Moorgate Acoustics**  
184 Fitzwilliam St, Sheffield, S Yorkshire Tel: 0742 756048  
**Moorgate Acoustics**  
8 Westgate Chambers, Westgate, Rotherham, S Yorkshire  
Tel: 0709 370666  
**Murray Hi-Fi**  
58a Winstone Rd, Handforth, Cheshire Tel: 0625 549277  
**Murray Hi-Fi**  
East Anglin Buildings, Princes Dock St, Hull, Humberside  
Tel: 0482 227867  
**Sound with Style**  
61 Nelson Hill Rd, Doncaster, G Yorkshire  
Tel: 0309 321421  
**Sound with Style**  
284 Claxton Rd, Sheffed S Yorkshire Tel: 0742 737893  
**The Sound Organisation**  
25 Gillygate, York Tel: 0904 627108

**SCOTLAND**

**Stereo Stereo**  
278 St. Andrew Street, Glasgow, Strathclyde Tel: 041 246 4079  
**Robert Ritchie**  
102 Murray St, Montrose, Tayside Tel: 0674 73765

**NORTHERN IRELAND**

**Lyric Hi-Fi**  
163 Swanmillis Road, Belfast Tel: 0232 381296  
**Lyric Hi-Fi**  
84 Bridge St, Portadown, Co. Armagh, Tel: 0762 358059

# Contents

THIS MONTH'S FEATURES ON PAGE 5



## THIS MONTH'S REVIEWS

### AMPLIFIERS

#### JOHN SHEARNE PHASE 2 INTEGRATED

With a finish like winter's louring clouds, the new John Shearne amplifier storms in to put a silver lining on your system, or at least silver knobs!

26



#### THREE AMPLIFIERS

Our reviewers listen to three integrated amplifiers to find out if any one of them will warm your system on those long, cold, winter evenings.

Harman Kardon HK1200  
Technics SU-A600  
Duson PA50

41

### COMPACT DISC

#### DACULA

As the nights draw in, a lone dark figure comes stalking through the rain and snow. It's Simon Cooke bringing you a report on the new Crystal-based DAC from Select Systems

32



### CASSETTE TAPE

#### SONY TC-K311

Here's something to warm the cockles of your heart this winter! The latest budget cassette deck from Sony.

56



AMERICAN  
and  
CANADIAN SUBSCRIPTIONS  
- see page 57

### LOUDSPEAKERS

#### GROUP TEST

Despite the cold, our reviewers have been out and about checking the market for loudspeakers from around £150 to £250.

CELESTION 7  
GOODMANS MEZZO  
PIONEER S4-UK  
REGA KYTE  
TDL RTL2

16



#### CABASSE BISQUINE

Yes, we know they sound like something you'd dunk in your cocoa, but Dominic Todd reveals that a Bisquine is a nifty French loudspeaker, not a biscuit!

34

### TURNTABLES

#### PRO-JECT 6

Ever heard of the 'Velvet Revolution'? The Czechs and Slovaks had one, but this Czech deck promises at least 33, every minute!

52



Cover Photograph by  
Paul Hartley Studio 071-482 3768

Editor  
Noel Keywood

Managing Editor  
Dominic Baker

Editorial Assistant  
Simon Cooke

Production Editor  
Férewini T. Michael

General Manager  
Mark Winfield

Marketing Manager  
Richard Johnson

Advertising Director  
Caroline Knott  
Advertising Tel: 071-266 0969

Advertising Executive  
Maudy Webster

Technical Assistant  
Nick Lucas

Contributors  
Richard Brice  
Peter Herring  
Simon Hopkins  
Dominic Todd

Cartoonists  
Freddy Ahmat

Distributed by  
COMAG, Talbot Road, West  
Droyes, Middlesex UB7 7QE  
Tel: 0893 44055

Originated by  
Ashford Bowling  
2 Narfolk Drive,  
Fairwood Industrial Park,  
Ashford, Kent TN43 2PB  
Tel: 0233 422042

Printed by  
Southernprint, Poole, Dorset  
Tel: 0202 422226

AUDIO PUBLISHING LTD.,  
44 Castellan Road, Harps Vale,  
London W9 3EQ  
Tel: 071 389 3533  
Fax: 071 389 3620  
Orders cannot be accepted  
by telephone.

MAIL ORDER  
Tel: 071 266 0461 (24 hours)

Subscription Rates:  
UK: £22,  
Overseas Surface: £25, Airmail: £42  
(Europe & Middle East)  
£42 (Australia, Japan & China)

No material may be reproduced  
in any form without the publisher's permission.  
© Audio Publishing Ltd.

MORE SEE PAGE 5



Together, they've certainly made  
the critics take note.

**"NAD 502 CD Player, 302 amplifier and 802 loudspeakers ... For all round performance we'd have to go for the NAD System ... Best facilities ... Best for Rock ... Best value for money ... Best sound quality overall ... you'd have to try hard to beat the NAD System ... 100% rating for value ... NAD has done it again with a superbly cost-effective set-up ... Detailed, involving sound, stunning value for money."** *What Hi-Fi - March 1993*



**THE 302 AMPLIFIER AND 502 CD PLAYER FROM NAD**



BRITISH BY DESIGN

*need we say more?*

NAD MARKETING LTD. ADASTRA HOUSE, 401-405 NETHER STREET, LONDON N3 1QG. TELEPHONE 081-343 3240

World Radio History

## DIY SUPPLEMENT

Once again the supplement issue is here, which is why the price of coffee has been rocketing as our experts labour night after night to drink the entire bean production of South America and also to bring you a fact-packed FREE supplement including all the following items:

A test of a large floorstanding Mainhattan kit loudspeaker from Germany.

The Single-Ended Valve Amplifier. Part 1 of our latest amplifier, which has been stirring up interest since we first mentioned it in the last supplement, and it's finally here!

Phono Head Amp. The first part of a design for an RIAA phono head amplifier designed to work as a stand alone unit or be added to the line level pre-amplifier.

Tweeter Review. Especially for DIY enthusiasts, and as the second part of our drive unit test - the first part was the midrange test in our last supplement - we review a selection of the most popular tweeters on the market.

Not to mention the rest: news, letters, the latest information from the industry, source guide, World Audio Design kits, and much more!

## MUSIC

Our guide to some of the best new releases

### ROCK RECORD OF THE MONTH:

The Lemonheads  
Come On Feel The Lemonheads

### CLASSICAL RECORD OF THE MONTH:

Chamber Music of Howells and Bridge  
The Holywell Ensemble

**ROCK AND POP** 68

**CLASSICAL** 71

**JAZZ** 78

**RECORD OFFERS:** Whatever your taste, our mail order section will provide some of the best cuts around 94

## REGULARS

### NEWS

A few (just a few!) snippets from the industry for you to peruse on those cold winter evenings. 9

### LETTERS

Why not while away those long, dark winter nights by letting us have your news and views? 36

### COLUMNS

We prod our hibernating experts awake to pen a few words of wit, and if you're lucky you'll get some wisdom as well! 47,54,55

### SUBSCRIPTIONS

Ring in the New Year with the magazine that appeals! 65

### NEXT ISSUE

If you've forgotten how it feels to look forward to Christmas, rediscover the feeling as we anticipate our Christmas issue 57

### DIAL A DEALER

Go on, give him a call! 73

### WORLD AUDIO DESIGN

Stuck on your presents list for this Christmas? Here's a few ideas for the hi-fi buff in your life. 81

### ACCESSORIES

But times are hard, so here's a few cheaper suggestions for those who aren't so dear to you. 86

### WORLD FAVOURITES

Warm yourself with thoughts of the very best hi-fi around 110

### AERIALS

Tweak your tuner ready for the twilight of winter and the hours of listening you'll be doing before spring. 117

### QUERIES

Ask away! Whilst we've got our experts penned up for the winter, they may as well answer a few of your queries! 119

### CLASSIFIEDS

Pick yourself a bargain to hole up with for the winter. Vintage, secondhand, or new, it's all here! 128

### ADVERTISERS INDEX

130



## FEATURES

### GARRARD 401 WITH SME IV 'CELEBRATION' ARM

Pop the corks, charge your glasses, and get ready for a celebration! SME's 'Celebration' version of their revered IV arm is here, specially for your revitalised '401s. 28

### LINN SYSTEM

Dominic Baker has been snowed in by an avalanche of Linn hi-fi recently, auditioning a full system comprised of a Karik CD player, Kaim pre-amp and LK100 power amps, and Keilidh loudspeakers. 49

## COMPETITION

Okay, so it's winter, but why not remind yourself of summertime by entering our competition. Win yourself a bunch of Roses, or at least their latest pre and power amp combination, and a pair of sunshine-yellow Harman Kardon loudspeakers. 66



Musical Images Ltd.  
 173 Station Road  
 Edgware  
 Middlesex HA8 7JX  
 Tel: (081) 952 5535  
 Fax: (081) 951 5864

Musical Images Ltd.  
 45 High Street  
 Hounslow  
 Middlesex TW3 1RH  
 Tel: (081) 569 5802  
 Fax: (081) 569 6353

Qty	Item	Type	Condition	Was (£)	Now (£)
2	Kef 104/2	Speaker	Ex-demo	1595	1250
1	B + W 803 Walnut	Speaker	Ex-demo	2000	1200
1	Acoustic Energy AE3	Speaker	Ex-demo	1650	1000
2	Cervin Vega AT100	Speaker	NEW	650	500
1	Jamo Pro 400	Speaker	Ex-demo	900	450
5	Denon D70 (no spkrs)	Mini System	Bargain	590	Free Mission 760i Spkrs
2	A + R Delta 70:3	CD Player	Ex-demo	700	550
2	Aura CD 50	CD Player	Ex-demo	400	320
4	Marantz PM62	Amp	Bargain	350	250
2	Aura VA50	Amp	Ex-demo	210	150
10	Rotel RA940	Amp	Bargain	250	150
10	Yamaha DSPA1000	AV amp	Bargain	900	775
2	Musical Fidelity MA50	Mono Blocks	Ex-demo	900	500
<b><i>End of Line and Ex-Demo Bargains</i></b>					
2	Rotel RB980	Power Amp	Ex-demo	450	350
2	Musical Fidelity MXL	Power-amp	Ex-demo	500	250
1	Musical Fidelity P173	Pre-amp	Bargain	800	400
2	Rotel RTC950	Pre-Amp/Tuner	Bargain	420	300
1	Nakamichi CR7E	C/deck	Bargain	1995	1200
2	Nakamichi DR3	C/Deck	Ex-demo	400	320
1	Marantz DD82	DCC	Bargain	650	500
5	Philips DCC900	DCC	Bargain	550	300
3	Systemdeck IIX900 (no arm)	T/table	Ex-demo	230	160
25	NAD 5120	T/table	Bargain	130	70
2	Aura TU50	Tuner	Ex-demo	260	200
4	NAD 4225	Tuner	Bargain	170	125

*All items carry manufacturer's warranty. E. & O. E.*

 081-952 5535

 081-569 5802

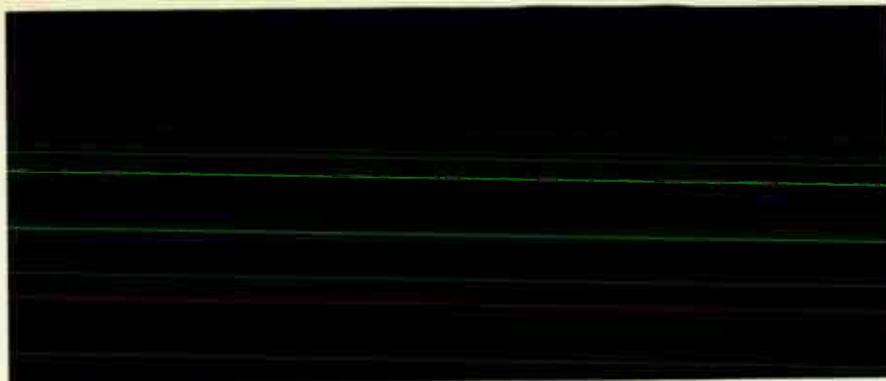
Edgware World Radio History

Hounslow

**DEMO  
ROOMS**

**MAIL ORDER  
WORLDWIDE**

**PART  
EXCHANGE**



**MULTI-ROOM HI-FI SYSTEMS INSTALLED**

**HOME CINEMA ~ A/V SPECIALISTS**

**0%**

**AVAILABLE  
ASK FOR  
DETAILS  
APR**

**TAX-FREE EXPORTS  
(OUTSIDE EEC)  
SUNDAY OPENING**

**HI-FI, TV  
& VIDEO**

**TCK 611S**

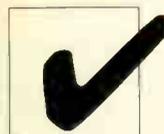


☆☆☆☆☆

*Best Recording Deck and  
Overall Best Buy*

**What Hi-Fi Awards 1993**

**ST-S311**



☆☆☆☆☆

*Best Tuner  
with RDS/EON*

**What Hi-Fi Awards 1993**

**Nth-NW London**

Musical Images Ltd.  
173 Station Road, Edgware  
Middlesex HA8 7JX  
Tel: (081) 952 5535  
Fax: (081) 951 5864

**10 mins from Heathrow**

Musical Images Ltd.  
45 High Street, Hounslow  
Middlesex TW3 1RH  
Tel: (081) 569 5802  
Fax: (081) 569 6353

**081-952 5535  
081-569 5802**

World Radio History

**Main Dealers For:**

ACOUSTIC ENERGY  
ADCOM  
AIWA  
AKAI  
AKG/AR  
ALBARRY  
ALPHASON  
ARCAM  
AUDIO ALCHEMY  
AUDIO INNOVATIONS  
AUDIOQUEST  
AUDIO TECHNICA  
AURA  
B & W  
BANG & OLUFSEN  
BEYER DYNAMIC  
BOSE  
BOSTON  
CABLETALK  
CANON  
CASTLE  
CELESTION  
CERWIN VEGA  
CREEK  
CYRUS  
DENON  
DUAL  
GOLDRING  
HARMAN KARDON  
HECO  
HEYBROOK  
INFINITY  
JAMO  
JBL  
JPW  
JVC  
KEF  
KENWOOD  
KODAK (PHOTO-CD)  
LEXICON  
LUXMAN  
MARANTZ  
MAXELL  
MICHELL  
MICROMEGA  
MISSION  
MITSUBISHI  
MONITOR AUDIO  
MONSTER CABLE  
MORDAUNT-SHORT  
NAD  
NAKAMICHI  
ORTOFON  
PANASONIC  
PHILIPS  
PINK TRIANGLE  
PIONEER  
PROJECT TURNTABLES  
PROTON  
QED  
QUAD  
REVOLVER  
REVOX  
ROGERS  
ROKSAN  
ROTEL  
RUARK  
SANSUI  
SCOTCH/3M  
SENNHEISER  
SHERWOOD  
SHURE  
SME  
SONY  
SOUNDSTYLE  
SPENDOR  
STAX  
SYSTEMDEK  
TANNOY PRESTIGE  
TARGET  
TDK  
TECHNICS  
THORENS  
TOSHIBA  
TRIPOD  
VAN DEN HUL  
WADIA  
WHARFEDALE  
YAMAHA  
~ AND MANY MORE

The truth,  
the whole truth,  
and nothing but the truth . . .



. . . so help me DPA!

It is a truth universally acknowledged, that clarity of sound allows true involvement with music.

Recognised Hi-Fi critics throughout the world have consistently praised DPA's products for their unrivalled clarity and transparency of sound reproduction. This inevitably leads to more profound musical experiences.

After years of development, the 200S pre and power amplifiers have been perfected. The amplifiers share the technology that has so inspired reviewer's praise in the past. The 200S combination at £1,250 gives state of the art performance at a reasonable price.

If you crave musical truth, contact DPA so we can help.

dpa

DPA Digital Ltd., Unit 7, Willowbrook Tech. Units, Crickhowell Rd., St. Mellons, Cardiff CF3 0EI Tel (0222) 795621 Fax (0222) 794267

## BEARD TRIM

Bill Beard's new 50watt per channel amplifier is now available. The BB101 is a line-level valve integrated amplifier with a separate power supply unit, costing £1600 plus VAT. The pre-amp stage uses six ECC82 valves and two ECC81s. The output stage uses twelve EL84s.

Bill Beard Ltd. 98a Oaklands Grove, London W12 0JB. Tel: 081 749 4258

## KEF COMEDIANS!

Once again KEF Loudspeakers are in our News pages, as they release three new speakers employing KEF's Uni-Q system. The £199 Q10 and the £349 Q30 are both two-way speakers, bookshelf and floorstanding models respectively, and the £499 Q50 is a three-way floor stander. I wonder if there's a Spike Milligan 'Q Series' fan in their marketing department?

KEF have also negotiated a license from the BBC to market a version of the popular BBC LS3/5A mini monitor loudspeaker, price to be announced.

KEF Audio (UK) Ltd. Eccleston Road, Tovil, Maidstone, Kent ME15 6QP. Tel: 0622 750653.



## SUGDEN SOCKS 'EM

Those busy Yorkshiremen at J. E. Sugden & Co. have announced their latest CD player, the Optima, which will shortly be joined by a matching line integrated amplifier, and other products, to form Sugden's budget line of products.

The new CD player employs the same transport and laser mechanisms as their more expensive transports, and uses 16 bit 4x oversampling conversion circuitry. It is expected to retail at around £600, and will be available in November.

J. E. Sugden & Co. Ltd. Valley Works, Station Lane, Heckmondwyke, West Yorkshire, WF16 0NF. Tel: 0924 404088.



*analogue replay*

Project  
 Michell  
 Townsend  
 Wilson Benesch  
 Basis  
 Kuzma  
 SME  
 Sumiko  
 Lyra  
 Transfiguration

*digital replay*

TEAC  
 Aura  
 Micromega  
 Counterpoint  
 Mark Levinson  
 Accuphase

*valve amplification*

Audio Innovations  
 Trilogy  
 Audionote  
 Tube Technology  
 Conrad Johnson  
 Lumley Reference  
 Counterpoint  
 Sonic Frontiers

*solid state  
 amplification*

Rotel  
 Aura  
 Adcom  
 John Shearne  
 Audiogram

**D I V A**  
*a u d i o f i d e l i t y*



**E**xperience just how good your LPs and CDs really can sound by listening to them through one of our hifi systems. From £50,000 to £500 we put together the finest hifi to suit every budget.

Our demonstration room is available for booking anytime day or evening from Monday through to Saturday; alternatively, we will demonstrate systems in your own home if you wish. We install both single and multi-room remote control systems, and can put together the finest in audio-visual home cinema. Call us or pop in to arrange a musical experience you'll never forget.

**Workshop 30, Royal Victoria  
 Patriotic Building, Fitzhugh Grove,  
 Wandsworth Common, London SW18  
 0 8 1 8 7 5 9 5 9 3**

Alchemist

LFD  
 Michell  
 Chord  
 Primare  
 Mark Levinson

*loudspeakers*

JPW  
 Monitor Audio  
 Sequence  
 B&W  
 Triangle  
 Audionote  
 SD Acoustics  
 Impulse  
 REL  
 Audiostatic  
 Thiel  
 Klipschorn  
 Townsend

*cables & accessories*

XLO  
 Audioquest  
 Audionote  
 Cogan Hall  
 Silver Sounds  
 Seismic Sink  
 Tripod  
 Frameworks  
 Leider

*audio-visual*

Harman  
 Lexicon  
 JBL

## SURPRISINGLY SOLID

Well known for their valve amplifiers, Audio Innovations have brought out a new 35watt per channel amplifier called the Alto. If that news doesn't surprise you, the fact that it's a solid-state integrated should, and the looks of it might turn a few heads, too. The Alto retails for £299, so the price shouldn't shock your bank manager too much.

Audio Innovations, Audio Components Ltd. Albany Court, Albany Road, Granby Industrial Estate, Weymouth, Dorset DT4 9TH. Tel: 0305 761017



## BASF'S GREEN BIAS

German company BASF have been running a line of 100% recyclable video tapes since the beginning of the year, and have now launched a similar range of chrome cassettes called Maxima, Super and Extra. In order to recycle these cassettes, they have opened a new pilot plant at Willstaedt, Germany, and anticipate that 30,000 tapes will be recycled in the coming year.

BASF have also launched a 60 minute recordable MiniDisc to complement their DCC range. It retails at around DM25, known as 'a little over £10' to its British friends.

BASF plc. BASF House, 151 Wembley Park Drive, Wembley, Middx HA9 8JG. Tel: 081 908 3188

## SENSE OF DIRECTION

Richard Allan Audio Ltd are now marketing all their loudspeakers direct to the public rather than through retailers. The advantage of this is that they can now offer reduced prices on their products, and have a tighter rein on customer relations. As a result they are now offering free delivery, free home audition, three year warranty, and a helpline to answer your queries, as well as a 'full refund if not highly delighted'. What more could you want?

Richard Allan Audio Ltd. Bradford Road, Gomersal, Cleckheaton, West Yorkshire BD19 4AZ. Tel: 0274 872442



## TDK SELL CELLS

Tape giant TDK have launched a range of batteries under the name TDK Super Alkaline, which apparently is a play on the name of their renowned SA (Super Avilyn) tapes.

According to TDK, these batteries are 100% mercury and cadmium free and come in recyclable packaging. TDK give slightly less prominence to the fact that their batteries last 20 times longer than 'a conventional alkaline battery', which certainly sounds like a good thing.

TDK UK Ltd, TDK House, 5-7 Queensway, Redhill, Surrey RH1 1YB. Tel: 0737 773773

## ASPECT 1.1

Jordan Watts Acoustics were recently bought by cabinet-maker Roy Houlder, and their first new loudspeaker since then has just been launched. Retailing from £1695 for a basic black satin finish, the Jordan Watts Aspect 1.1 is a 100watt, two-way 8ohm loudspeaker, employing a 2inch ferrofluid-cooled foil cone tweeter and a 5inch foil bass/midrange unit

Jordan Watts Acoustics Ltd, Cyntra Place, 201 Mare Street, London E8 3QE. Tel: 081 985 1646

## DANISH WITHOUT THE SIZZLE

Despite the pair of E88CC valves tucked away inside Danish-based Copland's new CSA14 hybrid integrated amplifier, you probably won't get enough heat out of it to fry your Danish bacon in the mornings like you can with all-valve models. The hybrid design employs transistors not only to keep the temperature down but to deliver a 'very conservatively rated' 60watts per channel.

The price of the CSA14 is a mere £999.

Absolute Sounds, 58 Durham Road, London SW20 0DE. Tel: 081 947 5047

## NOTTINGHAM ANALOGUE STUDIO

Are hoping to arrange a vinyl-only hi-fi show in the Midlands, which should take place in the coming spring. They hope to run the whole gamut of vinyl products available, from 'classic' equipment to the latest innovations. Watch this space for details.

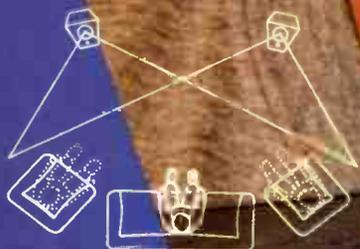
Nottingham Analogue Studio, 128 Cordy Lane, Underwood, Nottingham NG16 5FD. Tel: 0773 762947.

# It's that **KEF** feeling

## The **NEW Q**series

ON A HIGH AND LOST IN MUSIC - THAT'S THE FEELING THAT LISTENING TO THE NEW KEF Q-SERIES CREATES EVERY TIME. KEF HAVE POURED ALL THEIR EXPERIENCE, DESIGN AND UNIQUE TECHNOLOGY - INCLUDING THE KEF UNI-Q<sup>®</sup> DRIVER - INTO A RANGE OF HI-FI SPEAKERS WHICH WILL ABSORB YOUR SENSES WHEREVER YOU SIT. ALL THREE MODELS ARE MAGNETICALLY SHIELDED FOR HOME THEATRE COMPATIBILITY. AND THEY'VE BEEN BEAUTIFULLY DESIGNED TO SUIT YOUR INTERIOR STYLE AS WELL AS YOUR LISTENING MOOD.

### The Uni-Q listening benefit



KEF has pioneered the coincident source drive unit, which unlike conventional speakers, places the tweeter in the middle of the woofer cone in such a way that the acoustic centres coincide. The directivity or 'Q' of the woofer and tweeter is matched at the critical crossover point - hence the name 'Uni-Q' - and sound is reproduced with astonishingly accurate tonal balance throughout the room. This design gives the listener two sonic benefits; near-perfect sound wherever you sit, and the best possible sound in your listening environment.



The experience of sound

Tel: 0622 672261

KEF and Uni-Q are registered trade marks. Uni-Q is protected under GB Patent 2 236929 - worldwide patents pending.



## FASTER LITTLE BITS

DPA, denizens of the digital domain, have had such a good first year that they have had to install a new Dynapert SMD (surface mount devices) 'pick and place' machine. It automatically places the miniature pin-head sized components on the circuit board and is capable of constructing the main circuits for their Little Bit in under six minutes. That's faster chips than my local takeaway!

DPA Digital Ltd, Units 7&8, Willowbrook Lab. Units, Crickhowell Road, St. Mellons, Cardiff CF3 0EF. Tel: 0222 795621

## TREATS FOR TINY TWEAKERS

Are you worried that the next generation of hi-fi buffs will believe that all music comes on little silver discs? Then why not show them this fully working, miniature, old-fashioned horned phonograph (bet you don't remember those!), which requires only scissors and glue for construction. It's suitable for ten year olds and upwards to build, to teach them "how vibration is turned into sound". So, for just £9.99+p&p you can get the youngsters in your house into the groove this Christmas.

Einsteins (Mail Order), Harrington Dock, Liverpool X L70 1AX. Tel: 051 708 8202



## MARBLE-OUS!

What's round, made of marble, and has a frequency response of 100Hz-22kHz? It's not a joke, it's the Audiophonics CA50 loudspeaker, which uses a single 50mm aluminium driver (so there's no cross-over induced phase errors) in a 200mm (maximum) diameter marble casing, and costs £1595. The FBX150 dedicated subwoofer is also available to extend the bass to below 40Hz.

Audiophonics, 21 The Crest, Berrylands, Surbiton, Surrey KT5 8JZ Tel: 081 390 1354

## REGA CORRECTION

The price given in our October issue group test of amplifiers for the Rega Elex was unfortunately incorrect; it should have read £359, instead of £475. The Lord High Executioner has been called in to investigate.

## LIVE WIRE

So many people went to 'Live '93' - the organisers quote 140,000 visitors - that next year it'll be at the larger Earl's Court venue, on the 20th through to the 25th September 1994. The organisers are predicting 200,000 visitors, so next year, bring your granny and it may come true!



## WHARFEDALE LIVES!

As you read this, Wharfedale should be delivering their new 'Modus Vivendi' ('Way of life', or do they mean 'Lifestyle?') range of speakers to a showroom near you. These speakers are designed for both hi-fi and home theatre usage, starting with the £60 'Cube', which is a single speaker unit, and moving up to the £100 'Micro', £130 'Mini' and £150 'Monitor' two-way speakers, and including the 'Centre' three-way for £100 and the 'Active Bass' sub-woofer at £400.

One of the more novel aspects of the range is that the tweeters, where used, are designed to be rotated to fire into the main listening area, regardless of the way the body of the speaker is facing. On the 'Mini' and 'Monitor' speakers, the midrange units are designed to do likewise.

Wharfedale Loudspeakers Ltd. Crossgates, Leeds LS15 8AL. Tel: 0532 601222.

## ONKYO ON THE SHELF

After a four-year hiatus, the Onkyo name has returned to Britain, as of 1st November. Their products will be distributed by NAD Marketing Ltd, a subsidiary of NAD Electronics.

NAD Electronics, Adastral House, 401-405 Netter Street, London N3 1QG Tel: 081 343 3240



# Great tracking

Ortofon is famed the world over for the tracking capability of its cartridges. Cartridges which will breathe new life into a cherished LP collection, divulging detail as never before.

The cartridge is always the key factor in the reproduction of music from records and Ortofon has dedicated nearly 50 years to the manufacture of the finest pick-ups possible. Enjoying constant critical acclaim along the way.

So if you want to bring more out of your records than ever imagined, an Ortofon Cartridge will have you hot on the scent.



**500 Series**  
Moving magnet  
cartridges from £30-£100



**MC Series**  
Moving coil cartridges  
from £60-£110



**Q Series**  
Moving coil cartridges  
from £140-£500



**1000 Series**  
Moving coil cartridges  
from £300-£1500

## ortofon

Ortofon (UK) Limited, Chiltern Hill, Chalfont St Peter, Bucks SL9 9UG.

Tel: 0753 889949.



*Au. 51*

**The**

reference standard against which all others should be judged.



## SUGDEN

J.E. SUGDEN & CO. LTD., VALLEY WORKS, STATION LANE,  
HECKMONDWIKE, WEST YORKSHIRE WF16 0NF TEL. 0924 404088

# Don't trip up on your speaker cable!

When you invest in good quality hi-fi equipment, why skimp on the cable?

Especially now that Ortofon can offer 3 types of top-quality cable for under £10.

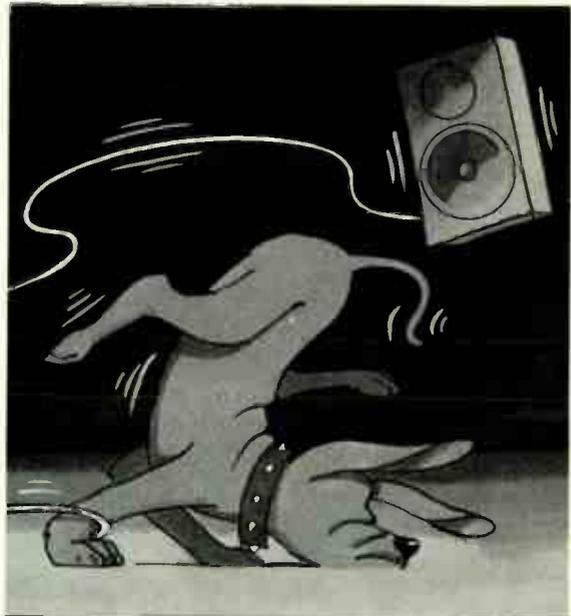
Each cable is made up of very fine core copper strands rated at 6-Nines (that's a copper purity of 99.9999% - it doesn't come much better), is flat and flexible for easy installation and features a 'tack-rack' for panel-pin fixing.

Cable Type	Description
SPK 100	Twin-core white cable, each core with 130 copper strands (total 260 strands).
SPK 200	Triple-core grey cable for bi-wiring with twin-core treble (260 strands) and 3-core bass (390 strands).
SPK 300	7-core blue cable having 13 strands per core (each strand laminated). Requires soldering.

You'd better hound us for the name of your nearest stockist.

## ortofon

Ortofon (UK) Limited, Chiltern Hill, Chalfont St Peter, Bucks SL9 9UG. Tel: 0753 889949.



WOLLATON  
A • U • D • I • O

## PRESENTING SOME OF THE FINEST EQUIPMENT MONEY CAN BUY



Monarchy Audio M 22 A digital to analogue convertor  
From £995

"The Monarchy Model 22 thoroughly trounces the PS Audio Ultralink and the Audio Research DAC1 which cost double and triple the amount of the Monarchy".

**Paul Cervantes**  
The Audio Observatory  
November 1992



Clements Spatial Image Loudspeakers Model Si 300  
From £645

"All of our panelists thought we were listening to Loudspeakers in the \$1,200 to \$1,500 range.... so far the 300's are the best we have come across in their price range. A 'must listen for all those who take their music seriously'".

**The Inner Ear Report**  
Summer 1992

**AVAILABLE SOON DT 40 A TRANSPORT £1,495**

WOLLATON AUDIO, NOTTINGHAM TELEPHONE / FAX: (0602) 284147

# SPEAKER'S CORNER

Standing tall on his soap-box, Simon Cooke airs his opinions about five 'speakers costing "around £200" .

**W**hat should you expect from £200 loudspeakers? An improvement over your old 'speakers would no doubt be a good idea, and you will, as a very general rule, find that £200 gives you good build quality and a bigger box than starter models that typically cost up to £120.

Bigger boxes should mean deeper bass, but not always. They can give designers enough leeway to hang themselves, deeper bass becoming a headache-inducing boom if the sums aren't done properly.

of improvements in drive unit design and technology. The boxes themselves, which affect mainly low frequency behaviour, haven't changed much.

The vital midband, so important in speech and vocal reproduction, is a function of driver performance, rather than the box. This raises an intriguing



On this same subject, deeper bass may also introduce room matching problems. Budget minis won't go down to 60Hz; a big box should. This can set off unavoidable room resonances, especially in square rooms, because 40Hz-70Hz is the region where typical living rooms commonly act as resonant chambers along their length and width.

You are also paying for better design and component quality, and this should lead you to expect a cleaner sound. Some manufacturers have noted wryly, but not inaccurately, that advances in loudspeaker sound quality over the years have really come about mainly because

trade-off: spend money on the box and the drive unit must be cheap, rising the likelihood of poor vocal reproduction. Spend money on the drive unit and the box must be made small, restricting bass performance. As a rough guide, the bigger the bass/midrange unit is, the better will be its bass, but the poorer its

midrange. As always, you can't guarantee that any price increase will buy you a better 'speaker, so be prepared to shop around a little. We are constantly surprised at how poor some expensive speakers are, and how good some cheap ones prove to be. So don't view the models in this group as poor cousins to their more expensive brethren. We found a surprise amongst them.

# PIONEER S4-UK £249.90



folk, rock or dance music, where beat takes precedence over rhythm - rather than classical where bass presence is more appropriate. The bass could be cut by the simple expedient of plugging the ports with material, but it looks unsightly and diminishes the 'speaker's character somewhat.

The midrange was pretty good lower down, sounding full and warm, but it was a little too soft for my liking. Further

the lower. This is a facet which should be noted by anybody who listens to threnodic music, such as Gregorian chant, where the higher vocals may well suffer.

The treble was clean but lacking real differentiation of character, and it had a nasty tendency to splash on transients, so rhythmic cymbals could become tiresome as they flew away from the stage without restraint. This was more a problem with the loss of tones in the upper midband than with the treble itself, and strings playing in the upper register stayed clear and nicely toned. On Alan Stivell's "Renaissance of the Celtic Harp" (Rounder CD 3067), the tones of the harp swung easily all the way to the top of the range without distorting, although without the lucidity of some 'speakers in this price bracket.

Lucidity did seem to be a problem of detail, as these aren't 'speakers which resolve information very well. Stivell's fingers never touched the harp strings, according to these 'speakers, and almost all the music I played suffered the same loss of detail.

Staging and imagery were adequate, but not exemplary, due to the lack of detailed information. This led to a certain fluidity in the positioning of instruments.

## CONCLUSION

The S4-UKs are adequate all-rounders with quite a big, soft, and easy going sound. They are worth considering by those who don't really want to be challenged by their music - or excited.

**T**he Pioneers are chunky, macho-looking black 'speakers. The chamfered front edges and push-on grille make them look suspiciously like an older model of B&W 'speaker, but take the grille off, and you realize that it's a case of convergent evolution rather than plagiarism.

They use two quality - looking drive units, the tweeter being a large fabric dome and the bass unit a plastic 4inch device, reflex loaded by a gently flared port. The rear panel houses two chunky, gold-plated binding posts, which interestingly have gold-plated finger nuts rather than the more usual plastic ones, a lavish touch for a budget 'speaker. It is this kind of attention to detail that makes the Pioneers look good and suggests a high perceived value.

The finish of the cabinets themselves is good, although they do not feel quite as solid as some of the other 'speakers in this test.

## SOUND QUALITY

The Pioneer loudspeakers open with an easy, reasonable sound, but listening to them for any protracted length of time shows up some peculiar foibles.

The bass was full but not forceful. This helped to fill out the soundstage, and provide a depth to the sound which some others lacked, but it did have a tendency to spill out and swamp finer detail. This makes the Pioneers rather less suitable for jazz,

up, it gets even softer and pulls back into the box, suppressing vocals and strings, leaving only a little sparkle left by the tweeter. This is not so noticeable on single instruments, but where, for instance, flute is played over a low drum line, the higher pitches have a tendency to be lost under

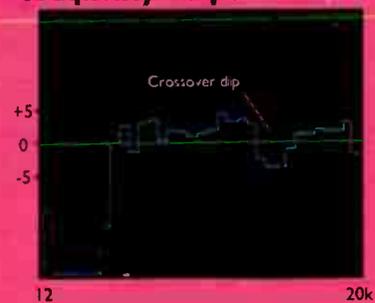
## MEASURED PERFORMANCE

Compared to the standards set by current British loudspeakers, the Pioneer S4-UKs are rather lumpy in their response. A strong (-5dB) dip between 2kHz and 5kHz is almost definitely caused by inadequate crossover engineering and could easily have been avoided with simple measurement equipment. Companies such as KEF and Celestion have been engineering flatter responses for the last 20 years.

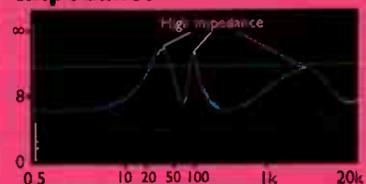
I would expect them to have a forward upper midrange and an obvious upper treble with little in-between. This will draw attention to the two separate drive units and be heard as poor integration between the two, exaggerating the difference in character between a plastic cone and a fabric dome.

Sensitivity for a nominal 1w input measured at 1m was 87dB, a respectable figure a couple of dBs above average. Overall impedance was 9.3 and the impedance curve indicates a reactive load. This all adds up to an easy load for budget transistor amplifiers, such as those found in midi systems. **DB**

## Frequency Response



## Impedance



## TDL RTL 2 £249.99



The TDL RTL2 loudspeaker is a small two-way floorstanding model which employs a mini-transmission line behind the bass/midrange unit to load it at low frequencies, enhancing bass reproduction. The line vents into the room at the bottom of the cabinet, to get the benefit of radiation from a 'corner' as it were, and to act partially as a reflex port. Mini-lines like the TDL, normally described as hybrids, are little understood and often don't work too well. However, TDL have doggedly stuck with this scheme for twenty years and know best how to exploit it.

The TDLs were well built and finished, with a solid and reassuring feel to them. They are a two-way design, and the four gold-plated binding posts on the rear panel show that they have been designed to be bi-wireable, if desired.

### SOUND QUALITY

These 'speakers really take a can-opener to the soundstage, opening it right up. After some of the other 'speakers I heard whilst auditioning for this group test, it came as a real breath of fresh air as the TDLs unfolded the ambience of the recording right across the room.

Bass frequencies, as you'd expect from a floorstanding 'speaker, go unusually low, without the 'woof and waffle' of other box loudspeakers, so the bass sounds truly tectonic, rather than just bloated. This lends a spaciousness and immense proportion to

just about any form of music, allowing grand opera and orchestral works to fill the room and 'breathe'. However, smaller works such as jazz ensembles are not swamped by bass, and Scott Hamilton's 'Race Point' album came out of the 'speakers with the spaciousness that I heard at his live set a few weeks ago.

The midrange was anchored firmly by the bass, without being swamped by

the bottom end, and the general tone was soft, mellow, and reasonably uncoloured. In the upper midrange, however, there was some forwardness that added a little spitch to vocals, Tracey Chapman displaying a rare sharpness in this respect, upon her normally smooth, deep tones.

The treble frequencies seem well

represented too; there was little sense of loss anywhere across the audio band in fact, except perhaps a slight loss in the lower midrange, which took a little body out of voices. The ethereally enraptured tone of Jan Garbarek on 'Chorus', or the sad, mellow intro to Hamilton's 'Chelsea Bridge' came over at the emotional level, as well as the merely auditory.

The TDLs had a respectable capacity for resolution, and although not quite as overt in their portrayal of, for instance, Alan Stivell's fingers on the harp strings as other 'speakers, they translated other nuances, such as the sound of the strings settling after being struck with a subtlety and finesse which puts many other 'speakers to shame.

Staging and imagery were probably the best of the batch, with the instruments pinned out within the spacious framework of the bass and midrange frequencies, although instruments which rely more on the upper frequencies, such as flute and harp, had a tendency to be a little more fluid in their positioning.

### CONCLUSION

Overall, these 'speakers gave a natural-sounding rendition of music, and it is only when you hear something like this that you realize what is missing from most other loudspeakers: bass. Not the flap and woof of boxes attempting to produce frequencies lower than their construction rightly allows, but a big, vibrant solidity which reproduces the spaciousness of a large, open, hall filled with the sound of ongoing performance and audience appreciation.

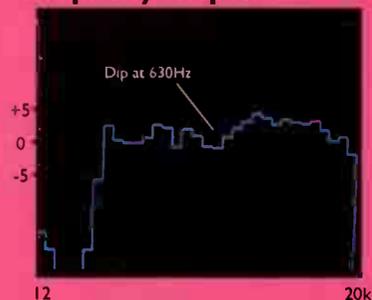
### MEASURED PERFORMANCE

Our measurement of the RTL2s shows shelf reduction of bass, but in use the floor reinforces low frequency output, introducing compensation. However, a dip around 630Hz is deep enough to be beyond complete compensation and in use it does remove some body from vocalists. Bass extends down to 50Hz - low for a small loudspeaker. Measurement suggests that these speakers will reproduce deep bass, with some possible emphasis around 60Hz.

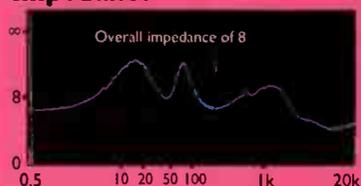
Further up the frequency scale there is a hump, starting at 1kHz and only falling back down above 8kHz. This will give a forward and open upper mid and treble, perhaps a little too forward for some tastes. The hump peaks slightly at 2kHz and listening tests did confirm this treble emphasis.

The RTL2s are quite sensitive at 87dB which, in conjunction with extended bass, makes them quite different from the norm at this price level. The impedance curve, although a little lumpy, is reasonably flat and averages out to an overall figure of 8. Because of this, they will be fairly easy to drive, but because of their extended bass a good 30W will make sure that grip is retained. **DB**

### Frequency Response



### Impedance



# GOODMANS MEZZO £169.90



**G**oodmans have become a name synonymous with British loudspeaker manufacture, and they have generally concentrated on the budget end of the market, historically offering very good value speakers, well engineered but inexpensive.

Their Mezzo loudspeaker is a two-way design, with a large rear port. It is meant for stand mounting, reasonably close to a rear wall. The rear panel sports two nickel-plated binding posts which face downwards, making it easy for the plugs to slide out.

The box itself feels lightweight and a bit flimsy compared with most 'speakers, but the finish is up to the expected standard at this price. Knocking the side of the box discloses its hollow-sounding 'ringing' nature, and better internal bracing might solve a few of the sonic problems with this 'speaker.

## SOUND QUALITY

The first impression of the Mezzos was that they had a noticeably warm, fullsome sound, with upper register notes, especially higher wood percussion, having a tendency to sound soft and never quite make it out of the box. The conga drum on Tom Wait's 'Jockey full of bourbon' (Rain Dogs IMCD 49) exhibited this trait strongly, and where the guitar is usually the most forward instrument on this track, the upper drum line was most prominent

through the Mezzos, pushing the strings back.

Although perhaps not 'right', this balance is easy on the ear and it's a pleasant enough alternative to forward and challenging 'hi-fi' loudspeakers; the Mezzos offer easy listening. That's not to say they don't have some appreciable strengths. These speakers convey plenty of bass energy; they handle bass and drums very well for their size and price, sounding

like a big speaker, unrestrained.

Further up the audio band, some congestion creeps in on vocals, as well as a boxy warmth and a little wooden colouration too, but these effects weren't so bad as to be intolerable.

Unlike so many metal domé be-tweetered speakers, the Mezzos had an

unintrusive treble quality. Where tambourine has an aggressive sting to it on the opening of Steve Earl's 'Esmeralda's Hollywood', it became just a tame tinkle through the Mezzo's. They pour oil onto high frequency waves, having a calming influence, whilst just avoiding any accusation of being overtly dull. But their laid back treble could play up at times. On Scott Hamilton's 'Groove Yard' (Race Point CCD-4492) the cymbals splashed in the right hand 'speaker, well away from the soft-sounding drum kit. However, later in the set they drifted back towards the drums. High end transients such as cymbals were in an unusual relation to the bass, at least against the performance offered by competitors, but the Mezzos don't sound sharp or offensive.

Resolution of detail was mediocre, as expected from the measured response. For example, Scott Hamilton's accustomed breathy tone on tenor sax disappeared, and the feel of much of his work changed. The Goodmans were 'enclosed' 'speakers, with the soundstage trapped inside the boxes.

## CONCLUSION

The Goodmans didn't made a big impression on me for their insight or tactile imagery, but that's not what they're about. These speakers deliver a big, easy sound, with strong bass lines and a soft, warm and boxy sound. They have the useful benefit of being sensitive, easy to drive with a low-ish powered amplifier and yet powerful sounding in their presentation.

## MEASURED PERFORMANCE

The Goodmans Mezzos look like a scaled down version of the Magnums reviewed in our September '93 issue. Unfortunately, Goodmans also appear to have scaled down the cabinet rigidity along with the external dimensions and a quick rap of the knuckles confirmed my fears; these speakers are going to sound boxy.

Their frequency response is quite even, although there is a definite downward trend above 1.6kHz which will give them a soft, even dull, balance. Bass is acceptable for their size, but the speakers will benefit from near wall placement. There is a small dip around 2.5-3kHz, probably due to the crossover, above which the treble never makes it back up to the level of the mid and bass. A slightly more sensitive tweeter appears to be needed, but the Mezzos should not display sharp or forward treble.

Sensitivity is high at 88.5dB so the Mezzos will need little power to go loud. Their overall impedance of 7.5 will give amplifiers an easy time and the impedance curve isn't too severe, so around 20watts or so from an amplifier should be plenty. **DB**

### Frequency Response



### Impedance



# REGA KYTE £198.00



The Rega Kytes are tiny two-way 'speakers with a forward-firing corner mounted reflex port. They feel solid and well-made, although the finish looks a little tacky, which is not a bad thing if the money has been wisely spent elsewhere.

For the treble a small fabric dome tweeter has been used, which should give a smooth sound free from sharpness. The bass/mid driver is a rather unsophisticated looking small paper affair with a fixed pole piece. Judging by the size of this unit they are going to be limited in the bass, but they have been designed to be placed hard up against a rear wall, which should balance things out a little.

Around the back are a single pair of nickel plated binding posts which conveniently take large diameter bare wire as well as 4mm banana plugs. A simple foam grille is supplied which sticks to the front by means of coarse velcro-type pads, instead of the usual wood-framed fabric grille. In practice I found that this was best left in place to soften the treble slightly.

## SOUND QUALITY

The Kytes are appropriately named, as the sound from them is light and soars out of the 'speakers. They open with an interesting and lively portrayal of the music, although they don't have the feel of a rockin' box that can be driven hard.

There was little bass present in the performance, unless the 'speakers are placed hard against a rear wall. This bought up the

bass just enough. Place the boxes against a wall and bagpipes, for instance, lost their whistling quality and became open and woody, with a wealth of detail drawn from the mix. The bass available from these tiny boxes was enough to give a good smack on the higher drums, but big performances with lots of bass, such as heavy orchestral or driving rock tracks, aren't in the Kyte's repertoire.

In the midband, the Kytes are

tonally clean and crisp. Towards the top end they could be a little shrill, but not so much as to impinge upon the music to any great degree. What was quite noticeable, however, was that, in the midrange, simple arrangements of music sounded as though they were being heard through a tube or

horn of some kind. This is possibly due to cone resonance as the boxes themselves are very stiff.

The treble was good, with just a little coarseness on Jan Garbarek's saxophone break on Chorus (ECM 1288). Garbarek's lines failed to slice through the air, but the occasionally grainy sound gave notes an emotive quality lacking on other 'speakers. The Kytes gave an excellent performance, especially with saxophone and brass arrangements.

The speed of these 'speakers is quite incredible, breathless rather than breathtaking. Hyperactive, almost, but not disconcertingly so.

The Kytes resolved impressive amounts of detail from the source, but had a tendency to muddle it in the hurry with which they seemed to want to play.

Staging, especially the positioning of higher-toned instruments, was good, the Kytes nailing the strings of Alan Stivell's harp firmly across the soundstage. Lower tones, however, sank into an inseparable wash of bass, as the Kytes struggled to reach down to them.

## CONCLUSION

The Kytes did sterling service, portraying music with such feeling that it leaves many other 'speakers standing. However, the dog-like hurry with which they cover some music can a little trying and the bass is light, even against a wall. These are 'speakers for anybody wanting to balance a slow, heavy system, or who requires lightness and detail rather than big sound and ambience.

## MEASURED PERFORMANCE

The Rega Kytes use a small (4inch) paper cone bass/mid unit and, as would be expected, both power handling and bass response are compromised. When measuring sensitivity using a nominal watt of pink noise they sounded decidedly unhappy, the cones flapping precariously close to the end stops.

There are benefits of using this small driver however. It is very light, giving a highish 86.5dB sensitivity figure and a fast, detailed sound. The Kytes are easy to drive, having a high overall impedance of 10.5 which will not draw excessive current from the amplifier, so even given its wild impedance curve 20watts should be fine.

Ignoring the lack of deep bass, which will be partly rescued by mounting them against a rear wall as the designer intended, the Kytes' frequency response was extremely good, in fact the best in the group. The majority of the response sits comfortably between +/-1dB limits, better than nearly all commercial designs, whatever the price. **DB**

### Frequency Response



### Impedance



# CELESTION 7 £219.00



The Sevens are the fourth up Celestion's range, retailing at £219.

They are two-way 'speakers, like all the others in this group test, ported in the rear panel and employing a light fibre bass/midrange driver and a titanium dome tweeter.

The rear panel carries the port and two gold-plated 4mm binding posts with gold-plated finger nuts, similar to the Pioneers. One interesting point about the port is that it is moulded as part of the inset panel for the binding posts and performs an unusual right angle twist so that the port tube rises vertically inside the cabinet. This apparently allows better coupling of the port with the standing waves inside the box, an area where Celestion have been indulging in some research.

## SOUND QUALITY

The Celestion's are quite easy loudspeakers to listen to, having a light and easy going sound to them. Extended listening however, leaves just a little to be desired.

The bass frequencies were well represented, although they had a tendency to sound attenuated lower down, making for a heavy and bloated sound. There was obvious boxiness too. Fast drum lines caused a few problems for the Celestions, as they struggled to make sense of the rhythm occasionally.

This was mainly a problem with the warmth and softness of the bass, which was just too blowsy to allow total coherence.

The midrange was good, although the Celestions occasionally seemed to be struggling with the details of the music. Tonal colours were resolved, but details such as air in pipes and the wood of violins seemed to be missing and a hardness could be heard on the sharp transients of strummed

guitar.

Treble frequencies were generally sweet and soft, although not overly so. There were two points of note here; firstly that the treble seemed, like the bass, to have difficulty in keeping up with the very fastest pieces, and, secondly, that

they occasionally splashed on transients such as triangles, although this did not happen often.

Imagery was quite poor, since the Celestions had some difficulty in resolving detail, and that caused quite a few problems in both this department and with the soundstaging, which remained resolutely within the boxes, rarely stringing itself between them, and never opening out into a believable picture, even on small arrangements.

Ranked violins on orchestral works suffered compression, making them sound thin and sharp, but apart from that the tonality of the performance was quite good. The Celestions did, however, have a problem with sudden bursts of brass, where the cone had a nasty tendency to shudder and flap when the brass section cut in. This occurred even at low volume levels, and could worry those who like their orchestral arrangements loud, in which case these 'speakers should be approached with caution.

## CONCLUSION

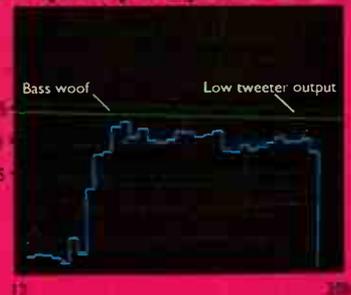
The Celestions were 'easy listening' 'speakers which were, all in all, competent. Their sound was quite unchallenging, and only the lack of real detail in the image and the presence of

## MEASURED PERFORMANCE

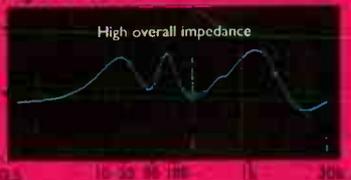
With this speaker Celestion have aimed for high sensitivity. It measured 89.3dB sound pressure level for one watt of input power - a high value. Most 'speakers still don't get much past 87dB, even when they have a low impedance. The Celestion 7 goes much louder than its rivals, given the same power input, and yet it is a relatively light load on an amplifier, having an overall impedance of 9.5 . So it will go loud from low power amplifiers, without stressing them.

Sound quality was on the warm side and it is obvious, from the frequency response curve, that the tweeter doesn't match the bass/midrange unit's sensitivity, so treble levels are down a bit. The tweeter's smooth sound is reflected in its flat, resonance-free response, but the woofer's problems are also obvious in the peaking around 1.6kHz where, I suspect, it is breaking up. Box honk is visible in the peak at 125Hz, and divorced bass is visible in the fact that deep bass output is from the rear port only. A little bit of box or port damping wouldn't go amiss. I suspect here's a candidate for long haired wool treatment. **NK**

### Frequency Response



### Impedance





# Experience live music

*in your home.*

Experience a personal service second to none.

At Sound Gallery we will help you tailor a hi-fi system that sounds exactly the way you want it, not the way you've been told it should sound.

Experience the options in the neutral conditions of our demonstration room, and the professional home installation of your desired system.

**FOR A SOUND EXPERIENCE  
AND SOUND ADVICE, CALL**

**THE SOUND  
GALLERY**

**0494 531682**

# CONCLUSION

I'm feeling bold at the moment, so I hope you don't mind if I jump straight in and get the rankings over and done with.

First prize has to go to the TDLs on all counts. They have the build quality, the

come third in the overall test, being quite big and boxy, but competent enough with most forms of music. The Celestions suffered from being warm and loose compared with the TDLs or Regas, but had a sweet treble and were easy to listen

to. They're probably good to party with, as well as being easy-going for everyday use, but also uninspiring.

The Pioneers come next, being quite restricted in the kind of music they can portray well. They cannot summon the detail from the mix which is required by good jazz, folk, or especially classical, but this is attributable to measurable problems. A company Pioneer's size, with their reputation, should manage better.

For me, last but not least was the Goodmans. A serious rockin' box with little class or panache, but plenty of guts, and it's a party animal, but for this money, there's 'speakers out there which do a similar

job, as well and cheaper, and Goodmans just happen to make them too! The Maxims are very similar to the Mezzos in performance, and although the Mezzo has more class, the difference in price seems quite hard to justify.

## Noel says -

What appeals in the sound of a loudspeaker is very personal. Whilst there should be broad agreement on how a loudspeaker sounds, whether that sound rings any bells with a listener can be quite a different matter. Musical tastes, prior experience and partnering equipment exert a big influence on any final choice. So can personal sensitivities - and it is here that my choices in this group diverge from Simon's.

I get fatigued quickly by bright speakers - especially with poor CDs that serve to compound the problem. This is at odds with a natural tendency in hi-fi circles to judge speakers on the amount of detail they convey, a property

reinforced by upper midband emphasis, which gives a bright sound.

So should loudspeakers have a flat response and be accurate? Reasonably so, but flat response is a prerequisite, not an end in itself. They certainly should not be as inaccurate as some of those measured here, whose errors were subjectively obvious and pervasive.

The TDLs were impressive. They have the sort of real deep bass so many people demand, yet which rarely exists. They were also clear and detailed. However, I was put off by their brightness, plus a lack of body to vocals. With just a little re-balancing though, there's no doubt that the TDLs really could wrap up this part of the speaker market all on their own. I vote them number one - with reservations.

Second place I award to the Goodmans Mezzos. They're no more unbalanced than many hi-fi loudspeakers, but the nature of their unbalance will not recommend them to the hi-fi community at large. If you want a big, easy sound with strong bass, but a not-too-inaccurate general presentation, the Mezzos may well suit.

Third come the Celestions. With better driver sensitivity matching and a little more damping they'd be first; Celestion need to perform some subjectively-led fine tuning.

The Rega Kytes were, for me, too bright and thin, and the Pioneer loudspeakers too dull to appeal. Their



finish, a more than acceptable level of sound quality, and a big, hearty, open sound that really does set them apart. These are 'speakers for people who want the concert in their living room, but beware, they give 'real' bass, and not the cotton-wool stuff often associated with box loudspeakers, so check the soundness of your foundations before you buy. That said, they can be delicate 'speakers when required, and capable of portraying all the emotion in the recording. One thing's for certain, that between the bass and the emotion, these 'speakers are sure to move you!

The Rega Kytes have to come next, playing with great delicacy and musicality, but without the awe-inspiring presence of the TDLs. The Kytes are delicate critters in two senses, both in portraying the music with a deft and sure touch, and also in that they do not like to be driven hard. They overload very easily, and are not 'speakers for those who want a powerful sound. They'll happily fill a modest room though, and seem to suit jazz music best, but whatever your taste, if space is tight, or you just like inconspicuous hi-fi, these are definitely 'speakers to audition.

Following the Kytes, there's a bit of a change of emphasis, as we step from 'hi-fi' to the serious party box school of design, where none of the 'speakers really stands apart from the other. The Celestions



manufacturers should put a little more into product measurement and assessment - but then, that applies to others in this report. All five speakers could easily, with little extra effort, have been a lot better ●



This advertisement is valid until at least 30th November 1993

PLEASE CALL US BEFORE TRAVELLING TO VERIFY PRICE AND AVAILABILITY

# THE WHAT HI FI AWARD WINNERS

## Heads You Win . . .

You can see and hear the What Hi Fi? Award Winners at your local Sevenoaks Superfi branch, where we pride ourselves in the quality of our displays, demonstration facilities, staff knowledge and after sales care. And all this comes at highly competitive prices, giving you unbeatable value for money.



At Sevenoaks Superfi we are confident that you won't find a better package anywhere else. However, in the unlikely event of an authorised dealer offering an identical product at a lower price - we will beat that price!

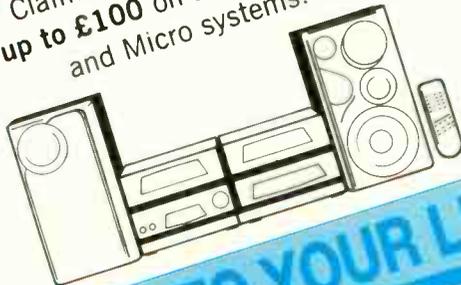


## . . . Tails You Can't Lose!

# MINI & MICRO SYSTEMS

At Sevenoaks Superfi we're famous for our range of quality Hi Fi separates but you'll also find a comprehensive selection of top name Mini and Micro systems - the ideal choice for a second system in your home!

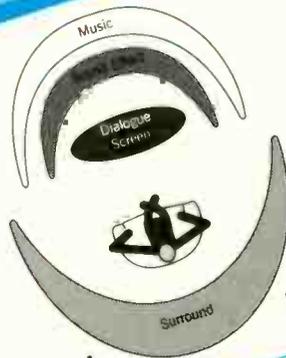
Claim CD vouchers worth up to £100 on selected Mini and Micro systems!



Aiwa, Denon, JVC, Kenwood, Sony, Technics, Yamaha

# BRING THE CINEMA TO YOUR LIVING ROOM

Turn your living room into your own cinema or concert hall and surround yourself with the ultimate sound and vision sensation.



You can experience home cinema at selected Sevenoaks Superfi branches. So call us now and book your mind blowing demonstration.

Marantz, Mordaunt Short

Buy with confidence from one of the leading independents in the industry!

# ADDED VALUE AT SEVENOAKS SUPERFI

You can claim from our range of added value options developed to make our already competitive prices even more attractive.



- ▶ 0% Finance on selected Hi Fi separates
- ▶ Claim CD vouchers worth up to £100 on selected Mini and Micro systems
- ▶ Claim FREE CDs\* or CD vouchers with selected CD Players
- ▶ Claim FREE Cassettes with selected Cassette Decks
- ▶ Claim FREE Stands and Cable with selected Speakers
- ▶ Claim FREE Audio Technica ATH-610 Headphones worth £40 on any Hi Fi separates purchase over £500

Added value offers are not available on 'Price Beat' sales. \*CDs must be chosen from our 'Free' CD collection.





# A RHAPSODY IN BLUE

**Ol' man Eric Braithwaite's got them hi fi reviewin' blues bad, but he cheers up when John Shearne's Phase 2 amplifier starts to show its colours.**

**A** blue marble-effect fascia and a blue LED glowing on switch-on must have had a subconscious effect. The first recording that went through John Shearne's Phase 2 line-level integrated amplifier once it was unpacked and wired up was John Lee Hooker...

Perhaps there was something subliminal in the designer's mind, too, because this £495 amplifier suited the Blues like a blue lamp belongs to a police station. Hooker's voice on 'Bad Like Jesse James' was, well, arresting. That groan he gives at the end sounded so heartfelt - and the thwack on the guitar so sharp - it was a shock to the solar plexus.

There's a good deal about the Phase 2 which has you sitting up and taking notice, in the best possible way, of course. Apart from the unusual colour, there are the chrome-domed control knobs, which look as though they might have been machined as the caps for a hip-flask. Sub-conscious

working overtime again, the association might have some pertinence - the Phase 2 has that degree of warm brandy-fed rosiness usually associated with valve designs, but more of that later.

Only four of these decorate the front panel. One acts as the power switch, one controls volume, the remaining two are source and record selectors. Input options are a little sparse, allowing for five sources, including 'CDV' (is this one-upmanship?). A phono-stage can be factory fitted in place of the Auxiliary input for an extra £95.00.

Round the back are two prominent pairs of heatsinks, two pairs of chunky loudspeaker terminals (which by a quirk obscure the legends which show which are right and which are left) and the gold-plated phono sockets. A tip for users, here: these are sited just below the speaker terminals to keep the Phase 2's profile elegantly low, but which makes

very thick bare-wire connection a bit tricky.

Blue is normally a cold colour, but not tonally, in this case. Like its more expensive two-box predecessor, the Phase Two belongs with hot buttered crumpets and warm firesides. It invests vocals with a rounded largeness that suited Hooker perfectly and made acoustic music downright beguiling. Yet it doesn't slow things down; there's a zing and zip to the attack on guitars and snare drums that keeps the music tight and on the ball. There is an air of spaciousness, too, that made The Sixteen churchy without being namby-pamby and put depth and breadth into almost every recording, whether it was Tchaikovsky's Violin Concerto, REM or Robert Plant's 'Fate of Nations'.

Speaking of the latter, whatever you might think of Plant in mellow, not to say slushy, mood, it was tracks like 'If I were a

Carpenter' or 'Great Spirit' rather than the more Zeppelin-ish tracks which came off best. As with Ian McNabb's 'Truth and Beauty', faced with some fairly pushy rock, the Phase 2 loses a little coherence. Put together some heavy guitar work, synths and drumming, and there's a small inkling of compression as the volume is wound up. Everybody is there, playing like the devil, but it's not too easy to entirely separate who is doing what to which.

That said, there is a sense of power, force and deep strong bass that is exceptional for a five-hundred pound integrated. If it suits Peter Paul and Mary more than P.J. Harvey, that's as much to do with the way recordings are made as the way the Sheame behaves. In other words, it supplies such stable imaging that the current penchant for swimmy pan-potting is all too obvious, while being clear enough to keep synthetic instruments imitatingly synthetic.

That enveloping warmth, but sharp vision, adds to orchestral recordings, making the Ricci/Sargent Decca recording of Tchaikovsky's Violin Concerto a sheer pleasure. The orchestra can be clumsy, but the generous tonal colour avoids the fluffs being distracting. I found the violin had a sharper, thinner tone in the upper registers than a Guameri should have; a

little at odds with the rounder, lower string and brass textures.

All the same, for sheer liveliness and that sense of 'being there', the Sheame Phase 2 is hard to beat. Blue was the last thing I ever felt while I was listening to it. Picking up on the subconscious trail again, I put on a live recording of a country rock band called Blue Train (they've just renamed themselves 'The Nelson Brothers'), made at the Half Moon in Putney, on the Pioneer D-07 double speed 96kHz sampling DAT machine a

*"Live isn't the word. It had a sense of atmosphere and occasion through the Phase 2 that took me by surprise, even though I made the recording"*

few months ago; this tape was enlightening.

'Live' isn't the word. It had a sense of atmosphere and occasion through the Phase 2 that took me by surprise, even though I made the recording. Acoustic guitar sounded even more acoustic; the drummer's snare drums and cymbals were clearly placed behind the lead and rhythm guitarists, and the five-string bass chuntered and grumbled down at the bottom with a depth to it that is extremely difficult to reproduce. I would

argue that it was somewhat enhanced, the original being rather drier, but for sheer spirit and enjoyability - if not absolute regard for the truth - I'd keep the Sheame to demonstrate it with any day.

It is hardly easy these days to design an amplifier for a niche in the market, but the Phase 2 appears to have been successful in finding an under-exploited place. If amplifiers had personalities, this John Sheame would be an optimist, and a continually cheerful one. It doesn't possess the somewhat over-cool quality of the

Audiolab, but hardly lags behind in imaging and soundstaging. Nor does it go toward the other extreme - all bite, bark and up-front smash-yeer-teeth-in punch. But it punches hard enough when

required, even if the heaviest of heavy rock tends to have the components swamping the timing a little.

It's an excellent all-round compromise for those who enjoy the warmer tinge and spaciousness of older valve designs but want transistor speed, and tightly controlled bass as well. Just the thing to stave off the blues and shut yourself in with for the Winter now the nights have drawn in. Pass me the poker, the Oscar Peterson and even the Pink Floyd, somebody. See you when it's Spring ●

## MEASURED PERFORMANCE

The Phase 2 produces 50watts into an eight ohm or four ohm load. Since ideally a 'constant-voltage source' amplifier should double its power as load is halved, this performance suggests the Phase 2 is a long way from such an ideal. However, it has been designed to give the smooth and unfatiguing sound of a valve amplifier and it may well be that its designer felt this was one way of contributing to reaching that goal. Generally however, power supplies that wilt when more current is drawn give soft sounding bass, but it could well be that other factors come into play and that a one-to-one relationship in this area is too simple a model. Whatever, as always, listening tests must decide. However, the Phase 2 does not, unlike most amplifiers, give more power into low impedance speakers.

In line with the valve-sound design philosophy, the Phase 2 has treble that rolls off above 20kHz. By 32kHz it is -1dB down, this representing the upper limit. In my experience, this usually results in a warm, smooth sound. The lower limit has been set very low, down at 5Hz - enough to fully reproduce subsonics from CD.

Channel separation was satisfactory at

65dB and noise a reasonably low -87dB, this figure looking a bit worse than usual because of the amplifier's unusually high input sensitivity of 130mV. It means the volume control will have to be kept down with CD, but also that the amplifier will handle all sources, even low output tuners and cassette decks (300mV) - and Leak Troughlines!

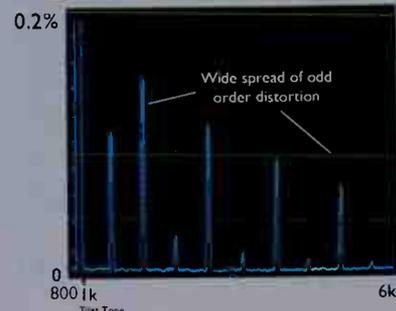
The distortion pattern was fairly marked. In the mid-band, the Phase 2 produces an acceptable 0.03%. At high frequencies and low levels, classic crossover distortion exists. It measured around 0.2% at 1watt output, less at higher outputs - a typical Class B characteristic. The distortion spectrum was extended, as the analysis shows, but it became more benign (second harmonic only) as output increased. The impact of this has to be judged from listening tests; I would expect it to be just-discernible, one way or another.

The Phase 2 has some distinctive characteristics that will certainly decide its sound. How they'll combine and what their impact will be subjectively has to be determined from listening tests. This is, however, an unusual solid-state amplifier, one designed to provide a specific sort of sound. **NK**

## TEST RESULTS

Power	50watts
CD/tuner/aux.	
Frequency response	5Hz-32kHz
Separation	65dB
Noise	-87B
Distortion	0.03%
Sensitivity	130mV
dc offset	4/-13mV

### Distortion





# CELEBRATION!

Noel Keywood describes the new pickup arm for the Garrard 401

**N**ever fully appreciated in its day, yet the quintessence of dedicated, quality engineering, the Garrard 401 is not only a beautiful machine, but it can also deliver stunning results. When I saw SME's silver Series IV arm, with its superb camera chrome finish, it struck me that the two were made to go together. Both are dedicated to the finest possible reproduction from LP and possess strong visual appeal. To me they are an obvious match, but whilst the Series IV arm is current, the 401 disappeared more than a decade ago. In acknowledgement of the 401, and the way these two items work together, looking almost as one, I thought a Garrard 401 Celebration version of the SME IV arm would be a wonderful way to bless the marriage, by harmonising the two components.

The machined silver surfaces of Garrard and SME sit together easily; precision castings have a quality about them - it's something to do with the edges and bevels I suspect - that speaks. The eye glides easily over both these units, being greeted by smooth lines and delightful detailing.

What luck that slate and marble - both heavy and inert - make the best plinth materials for the Garrard. It gave Peter Soper of Slate Audio the leeway to choose a dark, richly hued stone to contrast with the chrome; he chose a deep green marble composite with black flecks in it as a base upon which the Garrard turntable, with all its torque and energy, could be firmly bolted. This wasn't an hasty choice; Peter has been mounting 401s long before I found my own could deliver an outstanding performance when mounted properly. He's an old 401 devotee who claims to have tried every material possible, insisting that marble is as close to perfect as you're likely to get.

I have never used a turntable system like this one. It seems to get everything right. It relies on massive, yet clever and precise engineering to get the best from LP. So there's no need for continual re-alignment or adjustment of a suspension system, belt or whatever. It has three speeds, easily chosen by a large rotary control, and speed adjustment. The rotary levers operate with a solid "crash" that tells you they're moving metal - lots of it - beneath the die-cast chassis. And that massive motor gets the huge, machined platter up to speed quickly.

There's no sensitive suspension system,



so no bounce when cueing. You don't have to approach the 401 with caution and treat it with kid gloves; the plinth is so heavy and solid it asks to be used as a hand rest when cueing, if that's what you want. True, you do have to find a pretty big, strong table or shelf for the marble plinth, since it measures 48cms wide, 50cms deep and 13cms high and weighs a massive 18 kgs. I put mine on a levelled steel platform that is spiked onto a deep bay-window sill, so vibration or floor bounce wasn't a problem.

Having a steady hand, I long ago took to hand cueing pickup arms, simply because stiff cue levers mounted on a bouncy suspended sub-chassis are difficult to use and a recipe for disaster. In contrast, the SME Series IV on this solid marble plinth was, literally, rock stable and a delight to use.

It's a cruel irony that such a wonderful turntable system should become available as the LP is being phased out, especially since, with an Ortofon MC2000 cartridge fitted to the arm and feeding a Deltec (now DPA) disc preamplifier, sound quality was unquestionably superior to CD. It was so much better in fact, as to be depressing! The Garrard seems free of

what, in comparison, seems like sloppy timing on belt drives. It keeps a rigid control on tempo, making for a fast, controlled delivery. It almost makes music sound breathless, yet it is the type of control CD displays.

Where LP at this level surpasses CD is its sense of fullness, smoothness and dynamism. Without any hint of strain or fatigue, music blossoms out of the speakers and fills the room. It isn't hard, gritty, steely and compressed, flat in dynamics and drained of all contrasts as CD so often is. As LPs were on the wane I bought a number of albums in both formats; the Garrard/SME/Ortofon/Slate combination teased so much out of the vinyl groove, presenting it clearly, that CD was forced to take a back seat.

Images on the stereo stage were strongly embodied; they had real substance and life. Tracey Chapman's second album, *Bridges*, is one recording, well engineered, that excelled on LP with this combination, even though the CD sounds respectable until you have heard better. From LP she had a lifelike centre stage presence, with none of the thinness of tone and edginess that characterises CD.

# GARRARD 401/SME 401

HI-FI WORLD

Garrard

## The SME 401 celebration

Much of this is attributable to the SME IV, whose arm tube is a one-piece tapered magnesium alloy casting. Its rigidity is responsible for the superbly clean but smooth midrange I heard, giving a full and vivid impression of vocalists in particular. I suspect this was the reason why the 401 and SME had me trawling through female vocalists like Grace Jones, Patti Smith and Joan Armatrading. This arm also provides a standard of bass reproduction that is unsurpassed, underlined by the striding, relentless rhythm of a track like Barry White's 'Use Me Up', where Shakespeare and Dunbar give Grace Jones such a strong background against which to work.

An arm like the SME must be located well if it is to retrieve detail from the LP

groove. The idea is to provide an absolutely rigid platform for the cartridge, one that neither shakes nor resonates, since any movement in the cartridge body represents loss of signal or colouration. Bearing this in mind, you can see why mounting the arm on the same marble slab as the turntable makes so much sense. It ties them together, whilst at the same time sinking energy from both. Peter Soper insists Garrard's are best mounted on marble or stone and from my experience with this plinth I wouldn't disagree. It is fabricated from slabs of marble composite, bonded together to form a conventional box, one that is free of resonance and microphony.

I hardly wanted to be reminded about

just how good LP can sound, now that most modern recordings are not released on vinyl any more. Yet we saw plenty of Garrard 401s lying around at an Audio Jumble some weekends ago, all awaiting loving owners, price - around £60 (the deck, that is, not the owners!). The Slate Audio plinth costs £349 and a new SME IV Garrard 401 Celebration arm costs £847.10. Fitted with an Ortofon MC2000 cartridge at £649.95, the combination costs £1906.00 in all. In my system, it put vinyl reproduction clearly ahead of CD. It's an ideal combination for anyone looking to get years more enjoyment from a cherished record collection, as well as a celebration of the engineering needed to do so.

## SME / GARRARD 401 CELEBRATION ARM



**T**he SME Series IV Garrard 401 Celebration arm has been produced specially for Hi-Fi World by SME. We felt it was the most perfect complement for this deck, in style, in finish and in performance. The owners of the Garrard name, Gradiante of Brazil, sanctioned our proposal enthusiastically.

In much the same way that the Garrard was based on precision castings, SME's Series IV arm relies on a highly specialised one-piece magnesium alloy casting to provide a combined arm tube and headshell of outstanding strength and rigidity. The aim is to provide as steady a platform for the cartridge as possible, since any movement in the cartridge body represents a loss of signal from its output.

Since a pickup stylus accelerates at up to 1000g in the groove, resisting vibration and spurious movement in practice turns out to be extremely difficult. That is why SME cast the headshell into a tapered tube that is internally damped. Most arms ring like a bell at around 200Hz, but not this one. Its rigidity and inertness ensure powerful and well defined bass reproduction, stable imaging and a wonderfully clear mid-band, free from the sort of artificial colouration that comes from the ringing that can characterise very stiff, undamped, symmetrical structures.

The arm tube moves on super high precision ball race bearings that locate it firmly within the adjustable base assembly. A large black plinth holds the base at the

right height for the 401, since its idler-driven platter is higher than those of belt drive turntables.

Cartridges weighing from 5gms - 16gms can be accommodated by the Celebration. It has a medium effective mass of around 10gms, which keeps fundamental resonance (against cartridge compliance) above the warp frequency region of LPs, meaning the arm and cartridge will ride warps, rather than read them.

The headshell comes with an optional finger lift if required. A damped cueing platform is fitted to lift and lower the arm smoothly onto records.

The Garrard 401 Celebration arm is available directly from Hi-Fi World, priced £720.94 + VAT (including the 401 spacer) ●

Tube Technology announce  
their latest creation;  
**SYNERGY**

Synergy was designed for the audio enthusiast who wishes to have all the sonic benefits a tube amplifier can offer to a hi-fi system, as well as other "lifestyle" features which allows the more demanding audiophile easier control over the system. Synergy offers a level of sophistication and sonic excellence never available before in a tube amplifier, and because of our purist approach to amplifier design, all "user friendly" features do not interfere or subtract from the signal.

Synergy is available in two formats; *Synergy I - Dual Mono Integrated* (with an active line-level preamplifier), *Synergy II - Dual Mono Power Amplifier*. Offering in excess of 150W per channel, capable of driving the most difficult of loads, this no compromise design features individually regulated supplies for

each stage, remote control On/Off, mute & volume and OBBC (on-board bias control), which monitors the current drawn on each output tube thus allowing easy installation of new tubes. All control circuitry is non-interactive using dedicated power supplies, insuring rugged reliability and sonic purity.

Combining very high quality components such as Premium grade GOLD AERO tubes, Vichay resistors, Film & Foil capacitors, Synergy is aptly named as a combination of technologies, which have greater total effect than the sum of their individual accomplishments.



MANUFACTURERS OF HIGH QUALITY VALVE AMPLIFICATION

Hatch Farm, Chertsey Road, Addlestone, Surrey, KT15 2EH,  
England. Tel: 0932 850361. Fax: 0932 850354

## LORICRAFT AUDIO

Turntable Repair and Record Cleaning  
Service.



A new improved version of our original design concept of a stable platform effectively isolated from any musical or vibrational feedback, and incorporating a unique and effective suspension system to provide optimum turntable damping and isolation for ultimate performance.

The exterior plinth materials is 28mm ash or oak, with heavily reinforced corner bracing and massive internal pier to accommodate the unique suspension system within the main plinth body

Full service facilities for Garrard including 301/401, using genuine or re-manufactured parts in our new dedicated workshops. This service also for many other including Thorens. Other hi-fi repaired/services supplied.

New 301/401 Damper rings Dramatically reduce ringing of platter.  
£5.00 per pair including p/p.

4 Big Lane  
Goose Green  
Lambourn  
Berks., RG16 7XQ

Tel. 0488 72267

New Catalogue  
now  
available

"ISN'T IT BRILL THAT YOU CAN GO  
INTO ONE SHOP AND CHOOSE FROM  
ALL THE LEADING BRANDS OF  
HI-FIDELITY EQUIPMENT AND GUESS  
WHAT? WE KNOW WHAT WE'RE  
TALKING ABOUT, AND WE CARE!"



And Oodles More

**THE LEICESTER  
HI-FI  
COMPANY**

OF ST. MARTINS SQ.  
EST 1971

6 Silver Walk, Leicester  
Telephone: (0533) 539753  
Fax: (0533) 626097



BRITISH AUDIO  
DEALERS ASSOCIATION  
**BADA**  
THE ULTIMATE IN  
SOUND ADVICE

# Doug Brady Hi-Fi

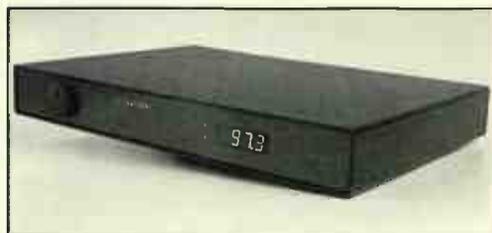
## A DAC with a DIC (Digital Input Card)



Hear this outstanding DAC along with new product from Teac, Meridian and Arcam

Kingsway Studio, 40 Smithdown Road,  
Kingsway North, Liverpool L15 3JJ  
Warrington, Merseyside  
Cheshire (051) 733 6859  
(0925) 828 009 Closed on  
Open six days Wednesday  
Fax: (0925) 825773

## GET A LIFE ! GET A NAIM !



The new affordable range of Naim products now now on demonstration

14/18 Monmouth Street, The Forge Cottage,  
CoventGarden, 19 Crossgate,  
London WC2H 9HB Otley, Leeds,  
(071) 379 4010 West Yorks  
(071) 497 1346 LS21 1AA  
Open seven days (0943) 467 689  
Fax: (071) 497 9205 Closed Sun. & Mon.

# Cam Audio

## Agencies :

**Naim Audio,  
Rega, Arcam,  
Epos . . . . . and  
many more**

**Opening Hours:  
9.30 - 6.00, Mon. - Sat.  
110 Mill Road,  
Cambs CB1 2BD  
Tel. 0223 60442**

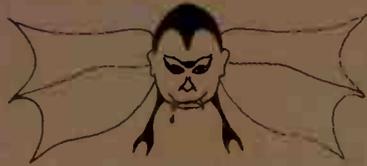
*L i s t e n i n n*

## HI-FI SPECIALISTS

Linn, Naim, Epos, Heybrook, Arcam,  
Mission, Royd, Audiolab, Creek,  
Cyrus, Quad, Denon, Rotel, NAD,  
Marantz, Kef, Chord Company  
(Naim and Epos Northampton only).

**LISTEN INN Northampton**  
Appointed REGA Agent

**32 GOLD STREET, NORTHAMPTON  
TEL: 0604 37871  
6 HOTEL STREET, LEICESTER  
TEL: 0533 623754**



DACULA  
LIVES!

**As the nights draw in, Simon Cooke squares up to Select System's new CD Converter, down among the gothic piles of Maida Vale.**

When Select Systems said that they'd be sending Dacula over, I did have my doubts. Opening the door, I half expected to see a Russian three-masted schooner waiting for me, with the captain lashed to the wheel.

But, gentle reader, it was not to be. This is, after all, London W9, not Whitby, so Dacula arrived in a plain cardboard carton which, on inspection, contained two dark boxes, with the requisite cables, and not a black dog in sight.

The first of these boxes, and the larger of the two, constitutes the power transformer and supply for the DAC

and right, and a chrome toggle switch, marked 'standby' and 'operate'.

It is this last switch which governs the operating mode of the DAC and hence the light on the front. In standby mode, the light is red. When the machine is switched to 'operate', the light changes to orange for a few moments, before going green, meaning 'cue the music!', and quite rightly too.

Music is what you get from this little terror, right from the word go. It gives an exceptionally smooth portrayal which is eerily agreeable. Fed with a few of my favourite jazz standards, it let the players

drums were strong and firm, just sneaking into forwardness occasionally, but not to any great extent. This was more than made up for by the rhythm, which was maintained with metronomic regularity at this level. This is definitely a DAC with its finger on the pulse, and you just can't throw it off.

Moving up into the midrange, Dacula remained cool, calm and collected at all times. The smoothness, however, never went too far, and Leonard Cohen, for example, had his claim to 'a golden voice' vindicated on 'The Tower of Song' (I'm Your Man CBS 460642 2). I had high



finished in stippled brown plastic. The second is the DAC itself, encased in a grooved aluminium metal box, and finished in black. The front panel of this box sports a small light which works on a 'traffic light' principle, as described below.

The rear panel contains a DIN-type power input, a BNC 'twist-lock' co-axial input, two gold plated phono outputs, left

sing from start to finish. Instrument tones were beautifully portrayed, with strings and brass coming off best, but only just. Tenor and baritone saxophones had a breathy quality where required, and comet had just the right edge to the notes, not too squeaky, not too soft.

Down in the bass, Dacula really did get its teeth into the music. Bass strings and

hopes for Tom Waits, but that bane of the 'smooth and musical' school of hi-fi defeated this one too. His 'Raindogs' album (IMCD 49) was just a little too full-blooded for Dacula, and it mistakenly brought forward the lower-range sibilances on the recording to smother the twanging guitar accompaniment. Only when Waits stood back from the mic and

front of a wash of backing, separated too far from them spatially to present a coherent picture.

That said, the accordion intro to 'Rhapsody' itself had a demented Transylvanian air about it that Dacula seemed to understand perfectly. Near flawless.

Dacula didn't have such an iron grip in the upper reaches. Treble notes, and ranked violins especially, were sometimes compressed just a little, although this is no great problem.

I have heard worse compression evident on DACs of much higher price and supposed quality. Other than that, the upper ranges remained clear

and concise, the DAC exercising almost hypnotic control over the sound and rarely loosening its grip, except on occasions already mentioned.

Where detail is concerned, Dacula had a chilling accuracy. The stage was literally teeming with the smallest details, without seeming overly busy or muddled in any way. Dacula did, however, achieve this with the expediency of sacrificing a certain amount of accuracy in the soundstaging. Some details, such as the right-channel percussion in the intro to John Martyn's

'Father Time' (Cooking, FERM CD4), in order to be clearly portrayed, seemed detached from their surroundings, and perhaps a little too far forward, mildly disrupting the staging. This was particularly noticeable on this track, since it opens with a short series of delicate percussive and string noises which were otherwise positioned to perfection, and beautifully toned. The rest of this track, however, came across with the full force of Martyn's dithered emotion undiminished, although

than my accustomed JPA little bit, but it often demonstrated the ability to portray atmosphere with greater clarity. Those with other tastes found Dacula a little more involving, finding the Little Bit fast but not in comparison, so personal preferences can affect final choice here.

Dacula scores in the same way it reproduces music with a sound that has a marked similarity to that groovy old black stuff, and if you've decided that it's time to kick the vinyl habit and jump on the

*"Music is what you get from this little terror, right from the word go. It gives an exceptionally smooth portrayal which is eerily agreeable."*

CD bandwagon, then Dacula will probably be a better bet for you than anything else at the price. It'll insinuate it's way into your listening

room like Bela Lugosi, and pretty soon you might just be batty about it.

**Select Systems Dacula £376**  
**Select Systems Ltd**  
**Hanworth Trading Est**  
**Hampton Road West**  
**Hanworth**  
**Middx**  
**TW13 3DH**  
**Tel. 081 893 8662**

**MEASURED PERFORMANCE**

Dacula uses the increasingly popular Crystal CS4328 convertor chip, which is now used by Quad and Meridian, to name but two. This is the least expensive stand-alone DAC that uses the CS4328 at present and interestingly it is a two box convertor, the power supply housed in an external case.

The distortion figures show that Dacula has been well engineered. At -30dB distortion remains a low 0.006%, with no harmonics visible above the noise floor. With a -60dB signal distortion rises to an average 0.75% which corresponds to a reasonable dynamic range of 104dB. At very low levels, -90dB, Dacula was a little worse than average, but with a -90dB dithered signal and noise stripped away using synchronous time averaging, only a small amount of distortion was left behind, 4% average, which will be innocuous in practice.

The frequency response plot shows a slight lift in the bass, and again in the midrange around 1kHz. These small lifts will give Dacula a punchy bass and a forward sound, neither being unpleasant characteristics.

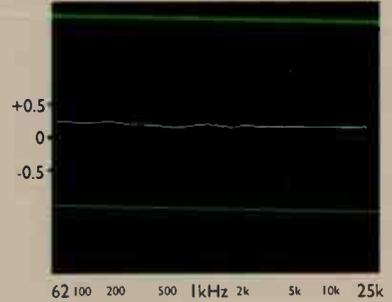
Elsewhere Dacula falls into the 'normal' category as far as measurement goes. One thing to watch for is its low, 1.9V, output. When other outboard DACs are pushing

out as much as 3V, Dacula will be unfairly overpowered in a demonstration, unless volume levels are re-set. Select Systems are planning to increase output to around 2.5V on all current DACs though, so this shouldn't be a problem. This higher output will also give passive pre-amps a little more headroom when driving insensitive power-amps. **DB**

**TEST RESULTS**

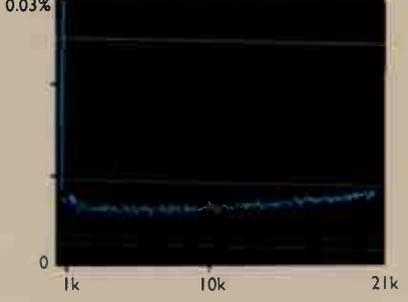
Frequency response	4Hz-21.2kHz	
Distortion (%)		
-6dB	0.006	0.006
-30dB	0.006	0.006
-60dB	0.75	0.73
-90	33.4	32.3
-90dB dithered	5.26	3.5
Separation (dB)	left	right
1kHz	104	109
20kHz	89	86
Noise		-89dB
with emphasis		-89dB
Dynamic range	104dB	
Output	1.9V	

**Frequency Response**



Slight lift pushes vocals forward

**Distortion**



Low distortion - no harmonics visible

# BEGIN THE

Dominic Todd samples the 'savoir faire' of a pair of French



# BISQUINE!

**loudspeakers offering a lifetime of good behaviour, guaranteed.**

Nineteen ninety-two may have been a landmark for us as Europeans, but as far as hi-fi goes nothing much has changed. It is well known that us Brits have differing musical expectations of our hi-fis to those on the continent, so just about all the hi-fi you'll find in the shops is either British or Far Eastern (often aimed at the British ear anyway), with a fair number of American goods at the higher end of the market.

The French have had limited success with exports of hi-fi to Britain, with the exception of Micromega CD players. French 'speakers are virtually non-existent in British stores. Cabasse intend to change this. They are already big in continental Europe with their 'speakers appearing in many commercial applications, rather like Bose here; but don't let that put you off! As a company they have a lot to offer; superb build quality from the Prao at £480 to the MC 001 at £40,000, high power handling with high efficiency, and most impressive of all, a lifetime warranty.

This final point is backed up with strong publicity, citing a Parisian getting his twenty year old woofers replaced free of charge! With a warranty like this Cabasse must be pretty confident, but the question is, does the sound quality match that of the construction, or is it going to be unacceptable to British ears?

To answer that question, I've been trying out a pair of Bisquines. These were the "babies" until recently, when the Praos were introduced. Priced at £598, the cost of these French delights is anything but baby talk. Ruark, Linn, Mission, Epos, and Celestion, to name but five, offer strong competition and most offer floor standers or hi-technology in their quest to win the largest share of the luxury 'speaker market.

The review samples were finished in walnut veneer. This combined with a brown cloth grill and wide cabinet may have been trendy in the seventies, but it looks terribly unchic now. Fortunately a more appealing black ash is also available.

The construction is pretty much as you'd expect from a 'speaker of this price. The cabinet is 16mm MDF all round, with corner bracing. The veneer may look a little tacky, but it is real wood and immaculately finished with near-invisible joints. A front mounted port and twin (not bi-wireable) gold-plated terminals complete the cabinet fixtures. An eight inch paper woofer, with foam surround, is held in by bolts, not the more vulnerable wood screws. The woofer chassis may be pressed steel, but there's a hefty near-six-inch magnet to make up for it. The unprotected tweeter is more

unusual in that it is constructed from an extremely thin and lightweight plastic. A nice touch are the four cork feet and roll of thick multi-strand cable provided with each loudspeaker.

With the Bisquines offering a high sensitivity (91dB), I collared the use of an Albany PPI integrated, and low-powered Audio Innovations S500 amplifiers. Whilst avoiding being a shock to the system, the Bisquines do sound different to the average British 'speaker (if there is such a thing). The first surprise came from the way they imaged. For one so broad I would expect there to be a lack of a convincing soundstage. Yet this is far from the truth. The Cabasses had a knack of placing vocalists firmly dead centre, whilst allowing the remaining instruments individual space either side of the vocals. I never got the impression that instruments were encroaching on one another's territory. This, in turn, made it possible to pick out individual instruments, and follow their

*"One of the joys of the Bisquine was that it came across as being even handed with all types of music"*

every move without getting lost.

"The Commitments", on vinyl, showed off the Bisquine's fast and tight bass. It came as a pleasant change to find that a one-note bass didn't result from this ported design. All too often the designer tries to squeeze more bass out of a speaker than it is capable of happily producing. Vocals were also well projected, and tangible. The downside of this was that on certain transistor amps, this could show up as forwardness and sibilance. However with both the Albany and S500, the mid-range was kept firmly under control, and the resultant expanse and depth of music was most appreciated.

Eric Clapton's "Unplugged" live atmosphere was portrayed superbly, while some speakers can make it sound sterile and compressed. But I was left with the impression that Mr Clapton's guitar was lacking a little solidity. For a cabinet of this size a little more bass should be expected (especially considering the size of the woofer magnet), although if this is the flip side of a speedy, articulate bass then so be it.

Further acoustic and band music, such

as The Kane Gang's "Miracle", showed drums to have great attack and a lack of constriction that also suited searing brass. The treble could occasionally lack the refinement of the best soft domes, and didn't get close to a good ribbon tweeter, but there was never the metallic sheen that can afflict metal dome tweeters.

The overall dynamic and exciting balance suited jazz down to the ground. Yet refinement wasn't seriously compromised so that delicate classical concertos and quartets weren't hampered. Indeed, the Cabasse test disc, which mainly consists of quartets, produced some fine results with the expansive soundstage and fine articulation providing a realistic performance. Symphonies were also produced with plausible scale, although not quite matching that of floorstanding competition such as the Mission 753s and the Ruark Talismans.

One of the joys of the Bisquine was that it came across as being even handed with all types of music. Obviously there are 'speakers at this price which are more suited towards organ and dance music, but for any other type of music in which a powerful bass line doesn't dominate they prove rewarding.

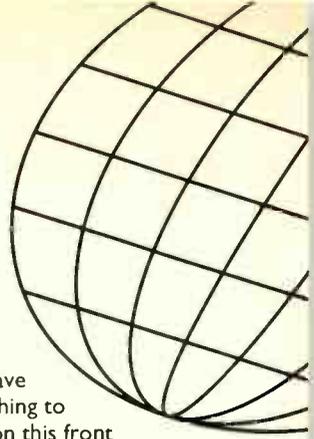
The Cabasses may not immediately bowl you over, but what they offer is an unrestricted view of all types of music, and a balance that often lulls one into forgetting about the 'speakers altogether. As a tool to simply communicate the music, few do better at this price. However there are many speakers that offer balances that may appeal more. The Bisquines main problem though is a lack of what's known as "showroom appeal". The size of the cabinet falls uncomfortably between that of a neat and desirable miniature, and a high and mightily impressive floorstander. The finishing materials are also somewhat dated, but there is no denying the first rate build quality which could teach some British manufacturers a thing or two. The lifetime warranty is also a useful plus not usually offered on 'speakers of this price.

At the end of the day it's a loudspeaker which is very dependant on personal taste and auxiliary equipment. If you're looking for a sensitive speaker to partner a valve or smooth sounding transistor amplifier, and listen to a wide range of music then I would definitely recommend an audition alongside the more usual Snells and Tannoy's ●

**Cabasse Bisquine £598**  
**Cabasse UK, P. O. Box 304,**  
**Maidstone, Kent NE16 8TS.**  
**Tel. 0622 729 204**



# World



## BACKWARD VISION

Will somebody please remove Dominic's rose-tinted glasses! I accept that the performance of some early equipment has been underestimated, but with few notable exceptions (301,401) this is surely confined to valve amplifiers and tuners. Even then it appears to be more a matter of personal taste and/or synergy than a monumental moving of high-fidelity goalposts. Hardly justification for a wholesale return to retro gear!

I certainly enjoy many modern valve amplifiers, but they bear no resemblance to the warm, bland and inoffensive sounds I remember from those early systems. I accept valves have the greatest potential for amplification, probably due to their simplicity, but they, like any other component, will only produce their best when designed and fitted with suitable power supplies, modern cables, stands etc.- tweaked for maximum performance.

I hope your recent remarks on modern equipment do not mark a change in editorial policy for your magazine, which previously has been a breath of fresh air for enthusiasts. It is wrong to state that there has been no progress in hi-fi, or have we all been wasting our time?

For instance, Ongaku would have been inconceivable fifty years ago, obviously not because of a lack of technology, but because of a change of philosophy.

This change, and future ones, are driven by the likes of your magazine and readers, with their fiddling and (sometimes) accidental improvements. This has always been the way hi-fi has evolved and to deny that is an insult to your readers. David J Carter Trowbridge, Wilts.

Funnily, Dominic was a died-in-the-wool modernist when he joined the magazine just over a year ago - and he still is. He wasn't at all sure about the 300B amplifier initially, but now he won't let go of the prototype!

He refused to acknowledge the wonders of vinyl right up until the Penta show when, getting stranded with the Garrard 401, Slate Audio marble plinth, SME IV arm and Ortofon moving coil cartridge he was amazed to find it did sound better than CD!

As I write this, the 401 is walking out of my lounge, aided, over to his place - yet again. It's turning into a Garrard 401 tennis match around here.

My critical remarks about modern equipment aren't symptomatic of blind nostalgia.

We're getting frustrated by the plain lack of imagination being displayed at present, and the relative lack of progress too. We really are interested in the modern and do want it to improve. But there is precious little sign of this happening at present, until some imaginative new ideas appear.

We have plenty of them - simple ones that are reasonable. For example, a current obsession of ours is for lighter, stiffer loudspeaker cone materials, and better cone contours. That's modern enough. Better, loudspeaker manufacturers are unanimous in agreeing it is an obvious way forward. But what are they doing about it? Not a lot. We are in contact with drive unit manufacturers

that have something to offer on this front (not British, I have to say) and hope to bring you a speaker soon, for DIY of course, that uses a higher technology drive unit than those currently on offer. Dominic is very keen on this, and he's also experimenting with motional feedback, as well as designing a disc stage for the valve preamplifier, based on one of the most advanced chips available. So his rose tinted specs aren't a permanent fixture. NK

## HEALTH WARNING

All hi-fi shops and magazines, especially yours, should be made to display a sign saying 'Hi-fi will be detrimental to your health'.

## Letter of

Many thanks for the Rogers Studio 3s (Rogers/E.A.R. competition). They sound great in my system and have set me off onto a serious investigation of valve amplification. The amps I've heard so far, mostly Audio Innovations stuff, were quite a surprise. Not the warm cuddly sound I'd remembered from the old valve radio days. More what I'd describe as open, fluid and natural, with almost tangible ambience and imaging.

Thanks for publishing my letters (and, by implication, those of others) uncensored. I wrote recently to another Hi-Fi mag with a combination of praise and criticism and saw my letter turned into an almost fawning mush of sycophancy. I won't read or write to them again, honest!, as a matter of 'Choice'.

Like most people, I am dismayed at the price of CDs, which are an undoubted rip-off, especially since the killing off of vinyl has removed the

choice for most people. I only bought a CD player because I couldn't get Jennifer Warnes' 'The Hunter' on vinyl. However I feel that the complaints and pressure from the record buying public may be having some, at least limited, effect. I'm writing this letter in a tent on the coast of Brittany and my forays into local record shops have revealed that French CDs are around 145-160FF (£17-18) for full price discs with repackaged back catalogue 'budget' stuff at around 95-100FF (£12). Vinyl is totally absent, even blank tapes are ludicrously expensive, e.g., £4 plus for a 2-pack of TDK AD.

Of course I'm not in a position to relate this to French incomes and cost of living etc, but I like to think that the vinyl-CD debate which still rages in the U.K. is helping to moderate the worst excesses of the big music publishers. And without good Hi-Fi mags there would be no real forum for the debate.

**Send your letters to: Hi-Fi World Letters Page,**

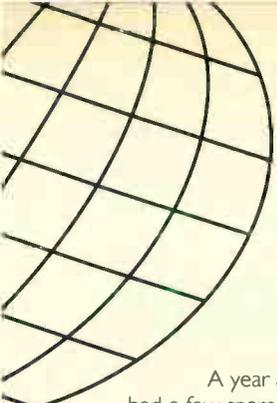
### WIN HI-FI WORLD SILVER PLATED COPPER INTERCONNECT CABLES

(1 metre pair)

The writer of the most interesting or funniest letter will receive a free set of Hi-Fi World's own silver plated copper interconnect cables, worth £69.95.



# writes



A year ago we had a few spare sovereigns and, dragging the other half along, went and listened to, then bought, our first step onto the hi-fi ladder. Back then I was fairly active, got out and about on the BMW motorcycle and generally enjoyed the out-of-doors.

Since then I've tweaked (the wife calls it 'fiddling with') the system every now and again, not always for the better, but never irreversibly. Each step forward has led me to re-discover our collection of CDs. Having tried some domestic lighting cable (twin core and earth) I had laying around (I'm a builder), I wasn't overly impressed. Yes the bass was way better defined, but I'd lost a lot of the midband. By the way, 30amp cooker cable

brought about the opposite in my system.

Then the other day whilst in the newsagents reading one of the other hi-fi magazines (yours is the only one I buy) I read "the new Mission 760i SEs really sing with cones under them". Well, I thought I'd give this a try. Not being able to buy some without first having a rummage through my toolbags etc. I came across a small cavity fixing which has a pointed end and a shaft, threaded like a small bolt. With the addition of a thick washer and four holes in the top plate of my stands, I had what looked like upside-down spikes about one inch long.

The 79 strand cable was disconnected and replaced with domestic twin core, Blu-Tak removed from under the speakers which were replaced onto the 'spikes'. A CD went into the

Denon DCD890, the PMA250 II was turned up and wow! "More airy" said the wife (or was it hairy-it's hard to tell with that deep gravelly voice of hers). It certainly is, the bass is more defined, the cymbals are back with the drums instead of up with the lead singer, and it sounds much more balanced than before.

Once again I'm rediscovering the CD collection, staying indoors sitting in front of the hi-fi listening to the music and adding some more weight to the stone I've put on since last year. Unhealthy? Maybe, but cheap 'n' interesting entertainment.

Well I'm happy, what shall we tweak next? Bi-wire the 760s? And yes, these interconnects are still the originals.

**Chris Canham  
Sudbury,  
Suffolk.**

P.S. Now I'm getting a buzz from my CDs I'll have to do something for this whirligig with Garrard written on it. Oh yes, I know, my dear old Mum needs a rotating table for her cake decorating, just about the right size I think.

## IS SINGLE-ENDED BEST?

The debate concerning single-ended versus push-pull output stages, and feedback versus no feedback is quite fascinating to me. Over the decades numerous landmark amplifiers were developed, each reaching new levels of excellence.

There was the 1948 Williamson, employing triode connected KT66s, then in the early '50s the Mullard 5-10, the first to exploit the ultra-linear configuration where the output valve screen grids are tapped into the transformer primary winding. These were followed by superb designs from such companies as Leak and Quad.

These were all push-pull designs, where the 'crossing point disorders' mentioned by Peter Quortrup in your September issue simply do not exist. In push-pull class A operation, both halves of the output stage are in continuous conduction and operate over the most linear

part of their transfer characteristics. Also, the danger of transformer core saturation is largely eliminated.

Now we see a 1930s valve (the 2A3) brought back from the grave and its single-ended use advocated as the last word in perfection.

Apparently, the amplifier I am currently using, a lush sounding and punchy Velleman parallel pair, ultra-linear, push-pull, heavy feedback, EL34 valved amplifier is suddenly a highly questionable component, and I am beginning to worry in case I soon read that the KEF 104/2s I run bi-wired from it, should be replaced by 1920s mains energised speakers using moving-iron armatures.

An old 1950s valve data book I have shows the 2A3 as giving 5% THD in single-ended configuration. Perhaps someone can tell me how this figure can be reduced without feedback, or is harmonic distortion of this order now acceptable, providing that currently fashionable time domain distortion (whatever that is in practical terms) is minimal?

Regarding the 2A3, it would seem to be a poor choice of valve to resurrect. It has a directly heated 2.5 volt heater and low power output. How about the PX4 or PX25 - also directly heated. They were much more powerful valves, also having the very low anode impedances necessary to ease output transformer design and provide a reasonable measure of loudspeaker damping where no negative feedback is employed.

Another contender which comes to mind is the once famous American 807. Beam tetrodes of this kind, and pentodes, triode connected or in ultra-linear configuration, single-ended or push pull, offer wide scope for research as does, I believe, the cascode connected, double-triode in low signal applications.

Finally, thank you for the most interesting of all the Hi-Fi magazines. Could we have an ongoing debate over this wide open and exciting field of development before us, now that the potential sonic superiority of valves has been unques-

## The Month

Finally, an interesting little anecdote. I went recently into my local branch of a well known chain of decidedly lo-fi consumer electronics stores to pick up a stylus for a friend's midi system. The assistant told me

"We're doing away with all the needles soon".

"Why's that then?" I said,

"Well it's all CD now isn't it?" he replied.

I went on to explain that many hi-fi types would vehemently disagree and that anyway people would still want to play the countless billions of records still in their collections.

"Oh! Hi-fi!" he said, "my sister's involved in a hi-fi company down in Brighton. I can't remember what it's called, 'Audio' something or other. She's married to a bloke called Peter Quortrup!" Funny old world, isn't it!

**Colin Berresford  
In a tent on the coast of  
Brittany.**

**First of all I'm glad that you enjoyed the Rogers 'speakers and even more pleased that you are now interested in valve amplification. For too long valve amplifiers have been seen as out-of-bounds products for the general music lover rather than the serious alternative that they are to solid state amplification.**

**We do not censor the contents of our reader's letters in any way that would cover-up a criticism against us. In fact we take any suggestions about the magazine and its contents very seriously and in most cases use your comments in a positive way to improve the magazine.**

**So - keep writing, we are always interested to hear what you have to say. Dominic Baker  
In front of a computer in  
Maida Vale.**

64 Castellain Road, Maida Vale, London W9 1EX.

Continued on page 39...

# **Try me & see**

**Budget, Mid- or High-end  
Hi-Fi, A/V or Home Cinema**

**FOR 1993 AWARD WINNERS, OUR  
CHRISTMAS PRICES ARE A GIFT!**

- ▶ Pick up the phone for a Seasonal Greeting you'll not get anywhere else.
- ▶ First-class Service, Savings and Support.
- ▶ Insured overnight delivery, anywhere in the U.K.
- ▶ Major Credit Cards, Switch/Connect accepted. (Payments by credit card are protected by the Credit Card Protection Act.)
- ▶ Full manufacturers' warranties. Plus TMS Warranty covering FREE collection and delivery within 24 hours of any reported fault.

**TRY ME & SEE LTD OFFERS A QUICK, CONVENIENT  
AND COST-EFFECTIVE WAY OF PURCHASING HI-FI.**

**TELEPHONE OR FAX  
YOUR ORDER NOW!**

*Try Me & See Ltd is bound by the rules of the Mail Order Protection Scheme and abides by the Data Protection Act. We will always put our customers first and will constantly upgrade and update our systems in order to improve our service.*

**081-563 0003**  
**Fax 081-563 0300**

**Try Me & See Ltd,  
5 Rocks Lane, Barnes,  
London SW13 0DB**

**Happy Christmas to all our customers everywhere!**

...continued from page 37

tionably re-established? This would, I hope, serve to increase general awareness of, and demand for, the exciting new products now becoming available.

**David Wyllie  
West Byfleet,  
Surrey.**

Distortion levels of 5% exist at full output only, so they'll only affect short term musical peaks. At low levels, single-ended working becomes very linear and distortion free - one of its great advantages.

Hearing the enormous difference between copper and silver cables, the reasons for which I cannot easily explain, I'm not surprised that thermionic amplification should differ from solid state amplification. And MOSFETs - which behave like valves - sure don't sound like them; they sound like transistors.

The PX4 and 25 are being resurrected! But the real excitement is in an all-new valve for the Nineties - secret at the moment, but in development I believe.

Bear in mind also that modern valve amplifiers can benefit from superior transformers, and expensive, high grade components like polypropylene power supply capacitors, metal film/bulk foil resistors, silver wire, etc. Also, they have fewer amplifying devices, less feedback and fewer components that solid state amplifiers, so there's a lot to be said in their favour. Then there's the sound... NK

**ERIC IN FLIGHT**

Right, that's it! Will someone please chuck that flat-earther Braithwaite person off the nearest large building, before he offends my delicate sensibilities any further! I am referring to his comments about the venerable and truly wonderful Garrard Zero 100 turntable in November's queries.

For his information, they are easy to service and well worth it, as they can be made to sound very good, admittedly not as good as his mentioned Rega Planar 2, but then one must remember that the Garrard is a damn sight less boring than the Rega, and you don't have to mess about with belts and greasy fingers to change the speed on it (no offence to Rega or any satisfied owners).

I can say this with conviction as the Zero 100 is one of the

many Garrard models that I have restored from car boot sale fodder to excellent working order, and I have now amassed a considerable collection. They may be old, clanky and idiosyncratic, but they all sound respectable and I love 'em - so there!

I expect to read soon that E.B. has seen the light, otherwise I shall be round to do something particularly nasty to him with a LAB 60 motor that I happen to have lying around!

Also, to Mr Canham (owner of the deck in last month's magazine), may I offer my humble (but cheap) restoration services, or failing that, would he like to pass on his Zero 100?

**Adam Smith  
Southampton,  
Hants.**



**Eric gides with Rega Planare 2 better than the Zero 100. But iis it more boring**

I knew there'd be an ardent Zero-100 lover out there somewhere - and I knew Eric would hear from them - but I didn't know he'd be getting a free Lab 60 motor. That might do nicely for a future DIY project. Taa! NK.

**VASELINE CURE**

I read the letter from Andrew Foster, of Thame, with great interest. Whilst I would agree that your suggestions to Mr. Foster would have some effect, the benefits would be limited only to those appliances suppressed, and inserting extra reactive components into a circuit not designed for them could ultimately degrade performance, in spite of theoretical considerations that suggest otherwise.

Apart from interference from uninvited radio transmissions and pops and crackles from household appliances, radio frequency (RF) pollution in a system can manifest itself in many other ways; for example, it can raise the noise floor. How the

pollution affects the sound can depend on the nature of the pollution, the system, and where in the system the garbage is getting in.

Apart from my background in electronics, some supposition and personal experience, I have little else to go on. I haven't done any scientific testing, so anybody please feel free to challenge the following hypotheses.

All interconnects, power and speaker cables appear as far more complex impedances at RF than in the audio spectrum, but this is perhaps not a problem so long as they are correctly terminated. Any dry joints or oxidation can degrade this termination at R.F., appearing as both reactive influences and many small p-n junctions, causing

smearing with Vaseline after cleaning (this does not interfere with the signal as one might expect, as Vaseline deforms and migrates away from those places where there is metal-to-metal contact, but prevents the electrolytic action that leads to corrosion in those places where there is even a microscopic gap.) There is of course no need to do this with gold connections, as gold doesn't oxidise.

Other connections worthy of attention, but only if one is really confident and safe with electrical installations, is ensuring all wiring inside other sockets on the same ring is tightly screwed in. A dedicated spur is the best solution.

Finally there is the question of where the signal earth and mains earth become one. To avoid earth loops it should be in one place only. In record playing systems this is usually somewhere inside the record player, but in a Lingo'd LP12 the mains no longer makes it to the record player. It may be that the Lingo's earth and the LP12's earth are connected, but there is no guarantee that at RF that is sufficient to terminate the system's signal earth. (Maybe someone from Linn reading this may like to challenge this supposition).

Since most modern devices only use live and neutral (some may have an earth but this probably only goes to the case anyway) in Mr. Foster's system the signal earth probably isn't earth at all, at least as far as any marauding RF is concerned. Running a separate earth wire from the amplifier's grounding stud to a reliable earth like a cold water pipe (smearing Vaseline where the wire clamps to the pipe, of course) will ensure the system's signals have a good reference earth. Again, a dedicated spur is the best overall solution.

This is not to suggest that Lingoing an LP12 makes the system susceptible to interference. On the contrary, I have one myself, continue to be delighted by it, and would recommend the upgrade to any Linn user. However, some systems in some environments need that extra bit of effort to get them working at their best, and ideally a Linn dealer would iron out any wrinkles on installation; but symptoms like these may not show immediately the upgrade is installed, especially if it is part of a full system installation and all the cables and connectors are shiny and new.

I would suggest anyone

Continued on page 45...



# Bill Hutchinson Ltd.



HI-FI, AUDIO & CD CENTRES

**W**hen you purchase from Bill Hutchinson you're buying the best names in Hi-Fi from the best name for Hi-Fi. Our product guarantee and pricing policy ensure you obtain an excellent deal, my staff and I look forward to being of service to you.



**KRV-6050**  
AV Amplifier

**HEAR KENWOODS AWARD WINNING AV AMPLIFIER**

- MARANTZ CD52 MK11SE CD Player – Award Winner '93
- MARANTZ PM44 SE – Amplifier – Award Winner '93
- MISSION 751 – Speakers – Award Winner '93
- SONY TCK-611S – Cassette Deck – Award Winner '93
- SONY STS 311 – Tuner – Award Winner '93
- AIWA NSX-360 – Mini System – Award Winner '93

*Bill Hutchinson*

**ALL WITH 2 YEAR GUARANTEE**

**BEST PRICES GUARANTEED**



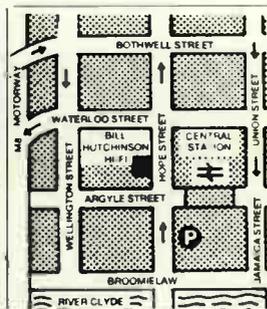
26-28 WOODHOUSE LANE  
LEEDS  
**0532-427777**



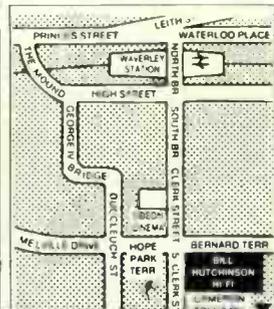
50/52 DEANSGATE  
MANCHESTER  
**061-832 1600**



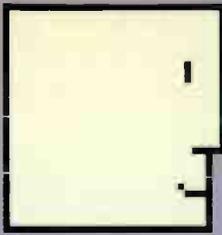
87a CLAYTON STREET  
NEWCASTLE NE1 5PY  
**091-230 3600**



43 HOPE STREET  
GLASGOW G2 6AE  
**041-248 2857**



43 SOUTH CLERK STREET  
EDINBURGH EH8 9NZ  
**031-667 2877**



|=α=ργφγγλ  
φγτψηνβχζ  
? !!! \*\* ##

# TECH - TALK

**Technics launch an amplifier to challenge Pioneer's A-300X.**

**Dominic Baker wonders if it can succeed.**

**T**he new SU-A600 from Technics is the bottom of the range of four new 'A Series' amplifiers. They are marketed as "a step forward that brings us closer than ever before to the true audio ideal". A few years back I would have dismissed this as Japanese sales hype, but since both Pioneer and Denon have been producing some very respectable sounding amplifiers over the last few years I was prepared to give the Technics the benefit of my doubt.

The SU-A600 has several features that suggest it might provide a quality sound, even though it is slightly more tackily finished than other Japanese products aimed at the audiophile market. The features include a "Class AA MOSFET" output stage which, on closer inspection, turns out to be a bipolar output stage with a MOSFET driver stage. In much the same way the "special Class AA bridge connection circuit" turns out to be four resistors.

Technics' marketing department have certainly been working overtime, since no less than four information booklets came with the review amplifier. They were from Japan, attempting with cartoon pictures (very Japanese) to convince that the SU-A600 was better than any competitor's offering. There was even a chart in the back of one of the booklets that shows Technics' amplifiers rated above Kenwood, Pioneer, Onkyo and Sony for sound quality, based on three criteria: the type of operation, the devices used in the output stage and the type of input selector. No mention of actual listening tests or sound quality. If these are the ingredients for a world beating amplifier, have we been going wrong all these years?

About MOS Class AA as used in the SU-A600, the Technics brochure boasts about new "Virtual Battery Operation"

power supply and "R-Core" transformer, which are said to have been developed to

connections were O.K.

The 'A600 does a good job of relaying



reduce noise and hum to an absolute minimum. However, we measured more than twice the equivalent input noise compared to our kit valve amp. There is little point in having a quiet power supply if the components used in the amplifier are noisy themselves.

What I was expecting from the SU-A600 was a similarly smooth and detailed sound to that of Pioneer's and Denon's latest offerings. What I got was quite different. Whereas both these manufacturers use U.K. engineers to tweak and modify, with great effect, Japanese equipment to better suit the taste and demands of the U.K. market, Technics have chosen to ignore this approach. The result is an amplifier that sounds little different to those they have produced in the past.

When I first plugged in the SU-A600 it sounded flat, thin and sterile, devoid of depth or emotion. This came as a bit of a shock after reading the comprehensive literature which explained in no uncertain terms that this was going to be one of the best amplifiers I had heard, especially at a touch under £200. Looking through the instruction manual I came across a page devoted to trouble-shooting. One of the faults was described as a "thin bass, tinny sound". "Ah-ha!" I thought "Perhaps something is wrong". The diagnosis suggested that I had the loudspeakers connected out-of-phase. As I had plugged the Technics in in a bit of a hurry, I decided to check. Unfortunately the

the basic components of a piece of music. Bass guitar was quite tight, although not especially powerful, vocals were reasonably clear and cymbals were there, if not all that sharply focused. But where was the atmosphere? The sound of the 'A600 was so damped that any atmosphere or fine detail appeared excluded from its presentation. You really do get the impression that what is left has only survived being squeezed through masses of cheap components because it was of higher level. Anything faint or delicate had been lost. It was like listening to three tracks of a twenty-four track recording. I asked myself the question; "Did anyone listen to this amp before it was put on the market?"

With a recording such as John Lee Hooker's album 'Boom Boom' his close mike'd voice sounded as if it was coming from behind a layer of felt underlay, the atmosphere and character of his voice being so absorbed. Given something simple, say electronic pop music, the Technics could sound quite reasonable. It has a light bass end, but because of this it sounds fast and fairly punchy with some sorts of music.

For around £200 or so, both the new Denon PMA-350II and the Pioneer A300X offer excellent sound quality, a chunky feeling construction and a chance to enjoy music. In my view the SU-A600 offers none of these.

## MEASURED PERFORMANCE

Although heavily vented, heat sunk and be-fanned, the SU-A600 turns out 66watts of power, much the same as its rivals. This is enough to go loud with modern loudspeakers, especially those with 86dB+ sensitivities, of which there are an increasing number. The Technics will drive low impedance four ohm speakers without hesitation too - unlike some British MOSFET amplifiers - delivering 100watts maximum into them. So, like most Japanese amplifiers, this one delivers a lot of power for the pound.

Frequency response through the CD input (and tuner/aux/tape) measured flat between 8Hz-32kHz, sensible figures for CD in particular, where bass extension can be justified, but not treble extension, since CD produces only unwanted rubbish above 21 kHz. This input was very sensitive too, meaning low output cassette decks and tuners (300mV or so) can be accommodated. Low noise and good stereo channel separation were achieved.

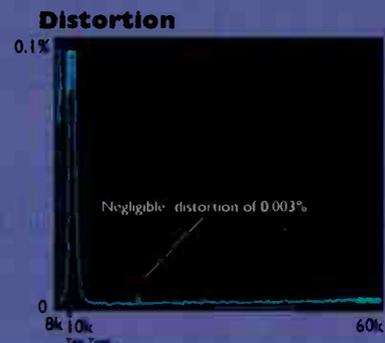
The disc stage caters only for moving magnet cartridges, but with a measured -80dB hiss level it was very quiet. Technics have not included a low frequency warp filter, response reaching down to 11Hz. Consequently, cone flap is likely from LP if this amplifier is paired with reflex loudspeakers. Otherwise, the disc stage measured well.

Distortion was very low through CD and LP inputs (around .005%), but this is to be expected with a well designed MOSFET amplifier, since lots of feedback can be used.

The SU-A600 measures well in all areas and delivers plenty of power, but it differs little from rivals. It is well engineered in a standard idiom. **NK**

Power	66watts
CD/tuner/aux.	
Frequency response	8Hz-32kHz
Separation	70dB
Noise	-95dB

Distortion	0.003%
Sensitivity	200mV
dc offset	1/1.7mV
Disc	
Frequency response	11Hz-26kHz
Separation	66dB
Noise	-80dB
Distortion	0.004%
Sensitivity	3.5mV
Overload	180mV



# A STRAIGHTER LINE

**Is the new Harman Kardon HK 1200 line amplifier, with its straight-through signal paths, better than its popular predecessors? Dominic Baker has reservations.**

**H**arman Kardon's amplifiers have always been

favoured by us at

Hi-Fi World.

Their dry tonal

balance and

clean

presentation

make them

leaders in the

sub £500 class.

The latest

additions to

their range are

two high quality

line-level only

integrated amplifiers.

These have been

designed to have as clear a signal path as

possible, tone controls, balance, headphone

socket etc have been removed and the

money spent on quality components.

The HK1200 reviewed here and the



HK1400 are both all-new amplifiers, rather than slimmed down versions of existing models. Removing a lot of the convenience features has enabled Harman to design a much simpler circuit, with all inputs and

outputs located as closely as possible to the circuit board. Signal paths are kept to a minimum throughout these amplifiers.

Unlike nearly every other amplifier on the market the HK1200 and '1400 both have a pre-amplifier stage before the

volume control. This means that the signal from the input selector is fed directly into a low noise, high gain pre-amplification circuit before the volume control. This input circuit has a -10dB switch which improves the overload margin for high level sources such as CD. For lower output tuners and tape decks the switch can be turned off to provide similar gain to that of any other integrated amplifier.

The components used are of a high grade. They include a sealed, multi-wiper volume control, all gold-plated phono input sockets and self-cleaning input selectors that prevent signal degrading oxidation. This amplifier feels the business too, the '1200 having plenty of weight behind it, even though it is only rated at 25watts output and the plain front panel hints at the philosophy of simplicity hidden inside.

When I last reviewed a Harman Kardon amplifier I praised the way its controls fitted neatly and precisely into front panel recesses. It's strange then that on a subsequent model with far fewer controls, this area seems to have been neglected. Both the Source and Tape Monitor controls rested off-centre, angled in towards each other in a rather haphazard manner; it made a bad impression. One other gripe about the new '1200 is the continuing use of loudspeaker terminals that are designed to fool you into believing that they will easily accept 4mm banana plugs. They do, but you have to force them in from the side, and if you use metal bananas they short against the casework and trigger the protection circuit. If Harman are really serious about using quality components, they might like to make some effort here.

The sound of the new HK1200 wasn't quite what I had been expecting. It was

unusually bright, too bright in fact to sound balanced. I quickly changed over from the Heybrook Sextets I was using to Quad ESL-63s which I hoped would reveal more of what was going on. After a few tracks from various albums things still weren't sounding too good. Not only was it bright, but the treble was splashy and vague, rather than well focused and clean, as I have come to expect from Harman amplifiers - and especially this one, to which so much attention has been paid to keep signal paths to a minimum and preserve the original signal.

I tried several other 'speakers with the HK1200, but each time the same characteristics remained. Looking once again through the information provided I noticed something which has changed. Harman amplifiers had a bandwidth that reached up to 150kHz, but the new circuit design and layout has extended the HK1200's bandwidth even further - up to 300kHz. Perhaps this new amplifier is now amplifying unwanted out-of-band signals from CD, which is producing the splashy treble. It strikes me that the amplifier is now covering double the bandwidth of earlier HK amps and it is having to work harder because of it.

An analogy could be drawn between this and bi-wiring a loudspeaker. By using two sets of cables to a 'speaker, the bandwidth carried by each cable is reduced, they work more efficiently and sound quality is improved. Harman Kardon appear to have gone in the opposite direction with their new amplifier, increasing its workload.

Moving down the spectrum towards the midrange, performance improved considerably. The midband was clear and open, displaying a light and airy character

which particularly suited female vocals and acoustic pieces. With Suzanne Vega, a combination of both, the HK1200 really breathed life into the music. With material like this it really showed what it was capable of achieving - a delicately detailed and smooth performance.

Tracks possessing more bass were also coped with admirably. Although only rated at 25watts, the '1200 had plenty of speed and slam in the bass. It wasn't quite as rich as that of the 6150 or as dry as the 6550, striking a nice balance somewhere in-between. With a live recording of Simple Minds, the bass was clean and articulate, but not as sterile as it can be on some amps. On tracks with a fuller, richer bass quality, such as Annie Lennox's 'Diva' album the '1200 was full and rhythmic, but steered clear of becoming bloated or losing control.

Basically the '1200 has some nice qualities that are worth hearing, but its treble really needs to be sorted out. I used electrostatics and box loudspeakers with fabric dome tweeters and found the amplifier too bright - and I like a slightly bright presentation. I hate to think what it would sound like with a cheap metal dome tweeter. It's such a shame that after so much apparent effort has been put into this new design, which could be a real winner with the British audiophile, it is compromised by one small, but significant, weakness.

Perhaps I am being too harsh on the HK1200, after all it's a £280 amplifier. Partnered with care, it could offer much needed insight in, for example, a system with speakers having a dull balance, like the Goodmans Mezzos in our group test this month. That's where the new HK1200 will score

## MEASURED PERFORMANCE

Output from this new model measured 36watts into eight ohms and 56w into four. That's enough to go loud, if not headbangingly loud. Ideally, an amp like this will be paired with reasonably sensitive loudspeakers (86dB SPL for 1 watt, or more) in a small-to-medium sized room.

As usual, Harman have engineered a wide bandwidth of 4Hz to greater than 150kHz (our measurement limit), in line with their stated philosophy on this topic. A surprise with the 1200 is use of a buffered input, where signals run straight into an input stage, rather than the volume control. Quad once used this theoretically attractive approach, even if it does raise the spectre of input overload. The HK1200 overloaded at 2.5V, around the maximum output of a CD player. Aware of this, Harman have provided an input attenuator (-10dB) which, ideally, should be engaged with CD.

What are the benefits of a buffered

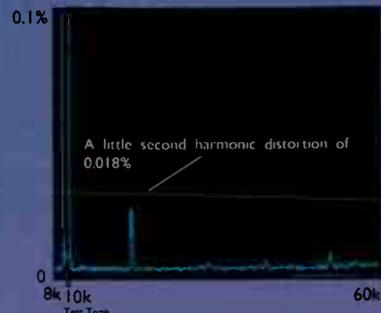
input? They offer a defined and unchanging input load to external sources, meaning that in theory at least, better source matching is achieved. These days, there's rarely a problem with matching though, so the benefits may be more illusory than real.

In all other respects the 1200 measured well, possessing low distortion right across the audio band, with second harmonic predominant, which is a good sign, since this type of distortion doesn't sound nasty.

The HK1200 has to carry forward the good reputation of Harman's earlier budget models. Its measured performance is good enough not to thwart this, but the buffered input could well have some impact upon sound quality. I'm afraid to say that, to date, every amplifier that has used a buffered input has, in the end, reverted back to the standard arrangement. I can think of no example where this arrangement has been judged successful and been retained. **NK**

Power	36watts
CD/tuner/aux.	
Frequency response	4Hz- >150kHz
Separation	74dB
Noise	-100dB
Distortion	0.018%
Sensitivity	160mV
dc offset	34/11mV

### Distortion



# DUTCH MASTERS

**New from the Netherlands comes the Duson PA50 integrated amplifier. Simon Cooke finds out what kind of picture it paints.**

**D**uson are a Netherlands-based company whose products are distributed in the UK by May Audio of Yorkshire. The PA50 is their bottom-of-the-range integrated amplifier, priced at £650. The styling approaches high-end minimalism, the PA50 having just four delicate-looking rotary knobs, for volume, balance and listen/record source selectors. The only other control on the front is a small black power button. All of these controls are marked with pale blue print on a mid-grey fascia, which struck me as not being the most user-friendly choice of colour scheme.

Tape, aux, CD, tuner, pre-out (this amp can be used as a pre-amp if required) and phono gold-plated input sockets can be found on the rear panel, as well as a binding post for earth, nickel-plated 'speaker posts, and a fuse cover above the hard-wired mains cable.

In use the Duson's sound starts out firmly, leading the music with a strong, steady beat. All notes are played in this appealing, decisive manner.

The bass is where the groundwork for this approach is laid. The Duson goes down deep without becoming vague; it was only slightly muffled. Drum lines are



played metronomically, except on a few occasions where the Duson seemed to lose its sense of rhythm on the very fastest bass lines.

The midband seemed just a little full and forward, and slightly gritty, but not overly so. This was a presentation which served jazz and rock very well, and although there are smoother sounding amplifiers at the price, I found myself warming to its approach.

The treble is where the faults lie, sounding somewhat shrill and coarse. Decay of notes, which had been good in the lower register, fell off sharply here, leaving harp strings and alto vocals occasionally bereft of their emotive quality. On continuous chords, however, where notes are not given time to decay, the treble was adequate, and had a good deal of vivacity. Eiji Kitamura's clarinet break on the Scott Hamilton Quintet 'In Concert' CD (CCD-4233), for example, was full of detail and breath, with a speed and attack

which was quite exhilarating, keeping me on the edge of my seat as he and Hamilton tossed phrases back and forth.

Detail, as I have just mentioned, was good, the whole range of instruments being filled with the smallest nuances of atmosphere and texture. It was a pity that the Duson was not capable of more solid soundstaging, since this level of detail lends a three-dimensional quality to the image, if the instruments are properly separated in the first place. It was this failure to pin the players out in space which allowed the stage to fall into a simple wash of sound occasionally, as some of the instruments wandered inside the image.

To conclude, the Duson is a good amplifier within its own limits, but not one which stands out as unassailable. The sound is punchy and vibrant, but the sharpness of the very top notes and the mobility of the instruments within the overall stage prevent it from being a commendable product for all types of music. If you like rock or jazz, however, it has qualities which make it worth seeking out for an audition ●

## MEASURED PERFORMANCE

The Duson produces a healthy power output of 55watts into a normal eight ohm load and 90watts into a low four ohm load. This is enough to get good volume in most rooms with most loudspeakers.

I measured nearly 0.5% distortion when close to full output at high frequencies. It is likely that some treble roughness may be heard.

Frequency response via CD/tuner/tape measured 4Hz-30kHz, which is just about right for CD, which needs extended bass to reproduce the subsonics but curtailed treble to prevent aliasing products coming through. Noise was low and channel separation high.

Although quiescent d.c. offset was minimal at around 1mV, I noticed that twiddling the

volume control fast produced d.c. bounce on the output, suggesting extended subsonic response and slow d.c. servo circuits. This can be problematical.

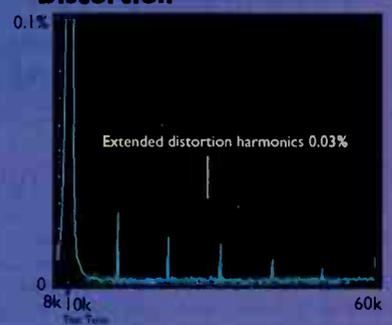
The Duson obviously differs from the norm, but this can be good or bad. In most areas it looks like a well worked out design, yet in some I have doubts. **NK**

## TEST RESULTS

Power	55watts
CD/tuner/aux.	
Frequency response	4Hz-30kHz
Separation	86dB
Noise	-101dB
Distortion	0.03%

Sensitivity	550mV
dc offset	2/1mV

## Distortion



...continued from page 39

suffering from interference tries these things first, as I have found they have benefits beyond interference suppression - no periodic sound deterioration meaning a need for regular plug cleaning rituals is one. If they don't solve the problem, only then should Mr. Foster consider putting unwanted components into his system or suppressing all his household appliances.

All this begs the question as to why this susceptibility is more noticeable than it used to be. Perhaps there is just more RF around, or systems' performance envelopes have now been pushed to the point where new paradigms are required to describe our experiences with them, maybe both or is nothing to do with either. Maybe another reader knows?

**David P. Sallitt**  
Scarborough,  
North Yorks.

Rob Watts of DPA replies: RF noise has been a major problem within audio electronics (be it digital or analogue) and has been well understood for nearly ten years. The problem with RF is that at RF frequencies the amplifier is an open loop and non-linear. RF noise intermodulates with the audio signal producing intermodulation products that appear within the audio band. If the RF noise is a white noise source, then intermodulation products appear as a noise within the audio band. This noise pumps up and down with the level of musical signal. It is this noise pumping that one hears when one experiences hardness or treble glare. The ear is remarkably sensitive to this form of distortion; very small levels of RF noise can be very significantly audible.

When designing The Power, DPA's RF mains filter, I found that frequencies right up to 1GigaHertz were significant, and there seems to be no limit to the effects of RF noise. As Mr Sallitt recognises, the quality of solder joints and the earthing structure within the system makes a big difference in generating RF noise and the subsequent sound quality.

Having your own dedicated earth point solely for the hi-fi system (beware, only qualified electricians can do this for you), can improve sound quality. However, other problems are stranding of cables, metal purity, PCB layouts, decoupling, passive components, power

supply interconnection, etc.

The amplifier design itself and the power supply all make very large differences to the overall performance. All in all, a great deal of attention by the audio designer needs to be paid to the effects of RF noise but very large benefits are possible, particularly in terms of smoothness, natural warmth and musicality.

**Rob Watts**  
DPA Digital,  
Cardiff.

#### VARIETY WANTED

Just a note to let you know how much I look forward to reading Hi-Fi World. Your article (Reflection Vol 3 No. 5) hit the nail on the head as regards boring, lack-lustre products from the powers that be.

I had problems a few months ago when looking to up-grade from the solemn looking black boxes that adomed my equipment support. After living with these items for a year, I decided enough was enough. No more 2001 Space Odyssey black monoliths for this man.

Time for a fresh look at life, and so started my journey through the hi-fi jungle. Dealer after Dealer, demo after demo, still nothing could quite grab my attention in sound or looks. I was beginning to despair, I even had nightmares of owning some bizarre looking Bang & Olufsen products.

HELP! I'm not a rich man, I can't afford Yoshino Amps or seductive looking Accuphase CD players. Those are just for pools winners. No. It had to be more down to earth products, something that looked and sounded great, but wasn't black. Then I had an idea, (pretty rare for me) why not dig out all my back issues of magazines, scour every page, there must be something. Lo and behold it came down to two systems.

#### System 1

Aura CD50 used as a transport  
E.M.F. Audio Crystal DAC  
Aura VA100 evolution amplifier  
Aura TU50 tuner  
All finished in mouth watering chrome, or

#### System 2

TEAC P.500 transport  
TEAC D.500 DAC  
Pioneer CTS610G cassette deck

The champagne finish of the TEAC is similar to that of the Pioneer and for good measure, to make up your valve mono blocks and line level pre-amp using white marble as the chassis. I opted for system 2.

The TEACs and Pioneer are now encased in white Italian

marble, which not only looks great, but stops unwanted vibrations also. I will have to save up for the amps, but it won't cost me for the marble at least. It helps when your brother is a stonemason.

All I need now is a speaker manufacturer with enough balls to design a speaker that sounds good, but tums its back on conventional looks.

And there endeth the letter. Keep up the good work. I'm off to play with my marbles now.

**Mick Golden**  
Chadderton,  
Lancs.

Thank you Lord Elgin! There are quite a lot of esoteric-looking loudspeakers around, but they can compromise acoustics for visual aesthetics, but esoterica needn't be expensive.

A friend of mine, some time ago, wanted midi-system 'speakers in tartan. She, knowing of my occasional forays with the brush, commandered my services, and after much careful and considered artistry (Ahem!), a dozen layers of Dulux, and replacement of the black grille cloth with tartan, we powered them up.

Sonic disaster! Bad 'speakers were made even worse, but I did earn the eternal gratitude of my friend, at least until tartan went out of fashion.

The reason for this nostalgia? Well, if you've a light touch with the brush or, preferably, an airbrush, you might consider unpainted kit loudspeakers and finish them yourself. There are many books on trompe l'oeil painting techniques around, and if you have the confidence and a little dexterity to try, why not take DIY to its conclusion?

Me? I stick with the Arthur C Clarke school of 'speakers, despite having seen and heard successful examples of 'speaker decoration since my attempt.

**SC**

#### EXPENSIVE FURNITURE

From some magazine reviewers and letters pages it would seem that hi-fi is nothing more than expensive furniture to collect at whatever price, add every conceivable accessory, tweak etc. and let the world know. Despite all the equipment and the vast LP collection (always LPs), the music is never listened to as this bit and that is adjusted to an imaginary perfection.

I work in the photographic retail trade and there is an analogy that compares those that purchase the expensive hard-

ware to hang around their necks as expensive jewellery without thought for the photographs they will/will not produce.

The other snob value that erks is that the old is always better than the new i.e. LP to CD. Although at the most expensive levels this may be true, at more modest levels they are no more than different.

There must be a point where the vast majority of us can't hear an improvement between systems, only a difference.

Sadly, here in Guemsey it is even harder to find out as the few dealers understandably stock mainly Japanese mass market equipment. Although one dealer does stock Arcam, it is behind the front door, so is possibly deemed to be of little worth. We used to be able to buy Mission, but supplier and dealer have fallen out. There is of course Quad and a recent listen to a system confirms what Noel writes about the ESL63. Sadly this is priced way beyond my means. Perhaps you could run a Quad competition every six months or so, and please, please may I win!

Thank you once again for the July issue and I look forward to all the other issues, keep up the good work.

**Dave Nash**  
St. Peter Port,  
Guernsey.

It's only natural that when people think they can hear a difference, they rate one option as better than another, or at least more desirable, and it's also true that the more desirable option is often the one you don't possess (the grass is always greener...).

Given that, the gentle ministrations of salesmen, and pressure from the giants of the industry to sell more, people buy both goods and accessories, and continue to do so until they can no longer justify the improvement.

Here at Hi-Fi World we try and ensure that, at whatever price, our readers are aware that newer options are not always better in terms of sound or economy than the equipment they supersede, hence the valve/vinyl/vintage articles.

We also try to cover the current marketplace to show that there are alternatives. Hence the DIY articles and suchlike. We try to convey to people that good hi-fi doesn't always cost the earth (or vice versa) but if people want to pay the money for the goods, that's up to them! **SC**

**NUMBERS  
ALWAYS  
'IN STOCK'**

The best hi-fi Dealers know when they're on to a good thing. Get on to a good thing too by quoting these award winning numbers on your next hi-fi shopping spree.

**AT-110E**

← MOVING MAGNET →



**AT-0C5<sub>MC</sub>**

← MOVING COIL →



**AT-95E**

← MOVING MAGNET →



**ATH-L1a**

HEADPHONES



Available at Good Hi-Fi Stores **ONLY**



**audio-technica**

INNOVATION PRECISION INTEGRITY

ATC-003

 **CAMBRIDGE  
HI-FI LTD**

**NATIONAL HI-FI  
DEALER OF THE  
YEAR - 1987/88**

1 -3 HAWTHORN WAY,  
CAMBRIDGE  
CB4 1AT.  
TEL. 0223 67773.  
FAX. 0223 353741

BOSE, KEF,  
PIONEER,  
MARANTZ,  
KEYWOOD, B&W,  
TECHNICS,  
JAMO, MOR-  
DAUNT SHORT,  
YAMAHA

*AV Prologic  
Separates &  
Systems  
40" Pioneer  
projection screen  
on AV Demo*

**WIDE RANGE OF  
LASER DISC  
SOFTWARE  
LATEST  
AMERICAN &  
BRITISH TITLES**

**1/2 PRICE LASER  
DISC PROMOTION  
NOW ON**

**Alchemist Products**

**UK DEALER LIST**

**LONDON AREA**

KAMLA ELECTRONICS W1  
HIFI CONFIDENTIAL SW1W  
BRADYS WC2H  
CORNFLAKE SHOP W1  
KJ WEST ONE W1M  
DIVA SW18  
WILFRED AUDIO SE6  
MUSICAL IMAGES HOUNSLOW  
MUSICAL IMAGES EDGWARE  
NORTHWOOD AUDIO MIDDX  
HARRODS (HIFI DEPT.) SW1

TEL: (071) 323 2747  
TEL: (071) 233 0774  
TEL: (071) 379 4010  
TEL: (071) 631 0472  
TEL: (071) 486 0552  
TEL: (071)924 5286  
TEL: (081) 698 7386  
TEL: (081) 569 5882  
TEL: (081) 952 5535  
TEL: (0923)820877  
TEL: (071) 730 1234

**KENT**

SEVENOAKS

TEL: (0732) 459 555  
(Check also local branches)  
TEL: (0732) 353 540  
TEL: (081) 304 4622

STANDENS  
VOLUME ONE

**HAMPSHIRE**

AUDIO GALLERY  
BRYANT HIFI

TEL: (0730) 895 194  
TEL: (0252) 20728

**WEST MIDLANDS**

MUSIC MATTERS

TEL: (021) 429 2811

**MANCHESTER**

MUSIC ROOM

TEL: (061) 835 1366

**WILTSHIRE**

SALISBURY HIFI

TEL: (0722) 322 169

**MILTON KEYNES**

AUDIO INSIGHT

TEL: (0908) 561 551

**NOTTINGHAM**

CHANNY AUDIO

TEL: (0777) 870 372

**YORKSHIRE**

ERIC WILEY (W.YORK)  
SCARBOROUGH HIFI (N.YORK)  
HARROGATE HIFI (N.YORK)  
BRADYS HIFI (W.YORK)

TEL: (0977) 553 066  
TEL: (0723) 374547  
TEL: (0423) 584274  
TEL: (0943) 467689

**NORTHERN IRELAND**

ZEUS AUDIO

TEL: (0230) 332 522

**GLASGOW**

MUSIC ROOM

TEL: (041) 332 5012



I Thinking "wouldn't it be nice if SME were to produce a Celebration arm for the 401" is just one of those little things that comes to you. I was surprised, and of course pleased, that SME should think it a good idea too and agree to produce a special version for us. Doesn't it look completely gorgeous on the Slate Audio marble plinth? - and a perfect match too, for the plinth and the turntable. They were made for each other, and they sound superb as well. As I've said elsewhere in this issue, Dominic resisted the lure of vinyl until he heard this combination - and I haven't managed to get it back since!

We have had to get involved in manufacture to be able to bring you new valve amplifier designs within the Supplement. The output transformers of a valve amplifier are crucial components. Unfortunately, some off-the-shelf items we have tested were not very impressive, so we got ours designed by Tim de Paravicini.

You might be interested in how they are produced. Tim first winds his own prototypes, to verify the design. He then sends winding instructions to our transformer manufacturer. They promptly phone us and say something to the effect "He's mad - we can't wind this!". We're unsympathetic; if Tim can do it, so can you, I tell them.

After some shouting and arm waving - by Tim of course - the supplier rapidly comes to believe it's in his own interest to do precisely as Tim says and not to ask silly questions! So we get the prototypes, which we verify. Usually, they don't work 'cos the supplier hasn't understood Tim's hieroglyphics and the windings are all A-about-T - and this sets Tim off yet again!

The next prototypes are right though (costly business this), or, it just may be that I get a bee in my bonnet. For K5881 I wanted the mains transformer core temperature down and we went through two more prototypes before a satisfactory unit was delivered. What you have to remember is that all our

amplifiers are Class A, meaning that they draw much more standing current than others, which loads the mains transformer especially, so it gets hot unless over-rated.

Purist designs impose a set of restraints that may well contribute as much or more to sound quality than the basic circuit itself. Our mains trannies are massive beasts with over rated current delivery, because they have to deliver full current continuously and because I won't let them get seriously hot or hum. As a result, their 'regulation', a measure of transformer goodness, is of a level that would cause transistor amplifier manufacturers to blanch. Goodness is a virtuous circle.

So pardon me if I don't recommend off-the-shelf trannies; they're unlikely to give the same results as our own. And we can't send winding instructions to your local manufacturer in Woolgoolga! The surf's fabulous down there, I know, but the winding techniques are secret and in any case we're not at all certain your local winder would have much luck with these things after refrigeration units. On the same note, thanks to all you guys in the East who'd like to place volume orders for our trannies, but as you may now have gathered, they're not meant for sale as OEM items for use in other amplifiers.

**AUDIO JUMBLE**  
Sunday 26th October 1993 was the day of the first audio jumble to be held for many years. Organiser John Howse, who runs a retail electrical outlet in Southborough, Kent, hired his local hall to house this event, having done so many times before for British Vintage Wireless Society 'swapmeets'.

There were items at the audio jumble I had never seen before. One of them was a huge valve, about 12in high it seemed to me, called a DA100. This was immediately nominated



anode, but they needed a 1500V H.T. supply". Sure enough, 'An approach to audio frequency amplifier design', published by GEC, depicts this monster triode in a 270W amplifier, driven by KT66s, running from an H.T. line of 1.25kV. Never mind, it was a nice idea.

There were other delights at the jumble. We saw plenty of Garrard 301s and 401s, many in superb condition, commonly priced at around £60. There were innumerable Leak amplifiers and Troughline tuners, all at bargain prices, and some fascinating 'Goodsell of Brighton' Williamson 0.1

## Reflections from Noel Keywood kaleidoscope

as the next candidate for a single-ended valve amplifier design, until we found out more about it. "Oh yes", said P.M. Components, "we know the DA100. How many have you got for sale?". "No" I said, "we want to buy them". "You can't do that", I was told, "because there aren't any anywhere".

"DA100?" said Martin Billington, of Billington Export, who also supply valves. "We can't get hold of them. But you don't want to put those in your magazine, because you won't have any readers left. They were a transmitting and P.A./cinema-sound valve that could dissipate 250W on the

amplifiers, complete with vast potted transformers.

An extremely early Acoustical Manufacturing (Quad) P.A. amplifier was on proud display too. There were, of course, banks of valve Quad 22/11s, a goodly number of transistor 33/303s, Quad tuners, and so on.

Apparently, the original published date of the jumble had to be changed at the last minute and many people arrived the Saturday before, which must have disappointed them. There was a good crowd when we were there, however, and John assures me that the event was a success and will be repeated next year ●



*Anyone can let you hear music . . . it takes a specialist to help you listen to it.*

We're in the business because we realise how important music is.

At our shops the more a system costs, the better it sounds - but only YOU can decide how good a sound you want.

Let us show you how we judge hi-fi equipment and how we can help you decide which equipment will give you the most pleasure.

You will hear for yourself the full range of performance possibilities because we select only the best sounding products.

We won't pressurise or confuse you with sales talk or technical specifications and you can rely on the fact that you won't get a better sound or better value elsewhere.

As independent businesses we both offer:

- A high standard of friendly demonstration.
- A wide range of performance levels.
- Single speaker listening rooms so you can judge easily.
- A professional set-up and home installation service.
- Guidance on how to get the most out of your system.
- Connection of video through your hi-fi system and multi room system installations.
- Expert factory trained service personnel and backup you can rely on.
- Support in the future so you can improve, expand and update your system whenever you want.
- Above all, a commitment to providing all our customers with the best sound possible.

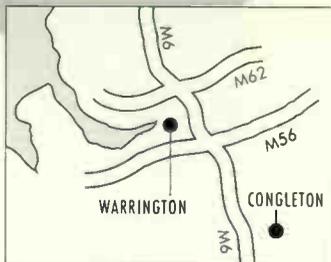
For one hour  
of *your* time, *we'll* give  
you a lifetime of  
musical pleasure.

You won't believe how far hi-fi has come until you hear it for yourself. If you're interested in the best sound available you've got to check us out - we will not disappoint you.

Please call in, or ring, fax or write to us for a personal invitation to a private demonstration or one of our public musical evenings - whichever you prefer.



CHRIS BROOKS AUDIO  
29 Gaskell Street  
Stockton Heath  
Warrington Cheshire  
WA4 2UN  
Tel: 0925-261212  
Fax: 0925-264001



CONGLETON HI-FI  
1-1A Duke Street  
Congleton  
Cheshire  
CW12 1AP  
Tel: 0260-297544  
Fax: 0260-297544

*Congleton*  
**HI-FI**



LINN

CHESHIRE'S ONLY AUTHORISED DEALERS OF LINN HI-FI PRODUCTS

# SPECIAL K

review

**Linn's Karik, Kairn, and Keilidh are well known products.**

**Dominik - sorry, Dominic - Baker finds out how well they  
perform together**



Linn have an aura of speciality about them that is fascinating. Their success is based upon the design, manufacture and marketing of one turntable - the LP12. The marketing always loomed large; 'persuasive' is how it might have been called. In retrospect, the way this turntable developed a cult following seems incredible. It was followed up by a range of advanced pickup arms and some stunning moving coil cartridges.

After the LP12 came the powerful Isobarik loudspeaker that continued their success. It was a little less mystical though, offering an enormously powerful sound for anyone sufficiently well oiled to be able to afford both the speaker and the 'six-pack' of Naim amplifiers needed to drive it to its best abilities.

Nowadays, Linn produce a wide range of amplifiers, tuners and other loudspeakers, but their specialist image has evaporated with the ever increasing product range, as commerciality takes over from apparent religion.

Partly because Hi-Fi World has had very little Linn produce to review in the past, and partly because of the increasing numbers of readers writing in with queries who own a pair of Linn Keilidh loudspeakers, we have decided to audition a whole Linn CD system. This consists of a one box CD player, the Karik at £1495, the Kaim line level pre-amplifier at £995, a pair of LK100 stereo power amplifiers at £495 each and, of course, a pair of Keilidhs at £579. This brings the total system price to around £4060. This represents the base level Linn CD system, although one of the power amplifiers could be disregarded to save £495 on the total system price.

Starting with the source, the Karik is a one box CD player representing the entry level into a Linn CD system. It has all of the functions that you would expect from a modern CD player, including electrical and optical digital outputs, enabling it to be used as a transport. These are accompanied by an electrical 'CD Sync' input, so when the Karik is used as a transport with Linn's Numerik CD convertor, sync-locking can be used to reduce the effects of jitter and improve sound quality. Other than this, the Karik is pretty straight forward, with all functions available on the remote control.

The fascia of the Karik is very clean with straight, simple lines; only the Play, Open and Power buttons are visible. The disc drawer has a fast and smooth action, which inspires confidence in the engineering. This player looks plain and easy to understand, and it is.

A small plastic panel beneath the display opens with a lovely smooth, damped feel to it, activating the display to awaken it from standby mode as it does so. Behind the panel lie basic track skip, search, time, pause, repeat and stop controls, so if the remote disappears down the back of a settee, the player can still be used.

These same controls are echoed on the remote control handset which has defined areas for CD, tuner, pre-amp and matrix for multi room applications. The only oddity of the remote hand set in this context is the fact that its numeric keypad has no control over the CD player, so repeated track skipping has to be used instead to access tracks.

Moving on to the Kaim pre-amplifier, there's little change in form or style. It too has a flip down panel, which this time hides volume, source, record, mono and balance controls. The Kaim has four line-level inputs and two tape monitors, plus

of protection circuit are provided: one senses excessive current and the other heat. However, I used the LK100s stacked on top of each other and neither ran particularly hot which is convenient for those with limited space.

Interestingly, Linn have chosen to use a Mu-metal screening can around each power transformer. Mu-metal is an expensive alternative to steel, but much more effective at screening out hum. It allows the power amplifiers to be placed directly beneath the pre-amplifier and CD player if desired.

The Keilidh loudspeakers supplied are small, infinite baffle floorstanders. They use two small 6inch bass/mid drivers connected in parallel and placed symmetrically above and below a ceramic dome tweeter. The bass/mid drivers both fire into one large chamber which is heavily braced through its whole height, to create a heavy and rigid cabinet. As standard, these speakers come with a set

of bottom spikes, but, as the Linn representatives told me, most pairs of Keilidhs are sold with the optional smooth granite composite base which has a wider footprint giving better stability and rigidity.

The whole system was initially set up by two gentlemen who

*"It thrives on good recordings, the Keilidhs have good, deep bass extension for their size and a slightly emphasised, sparkly treble, both of which are aurally quite pleasant."*

represent Linn in the London area. Interconnects and 'speaker cable were provided by Linn and the system was auditioned by both of them and 'speakers re-positioned until both were happy. As a reviewer and enthusiast I felt more than capable of doing this myself, but it was interesting to observe the procedure and as most Linn systems are installed in a similar way by the dealer who sold them, I didn't complain.

The 'speakers were placed around a foot from the rear and three feet from the side walls and toed in slightly towards the listener. In this position I found they had the best bass extension, being both solid and deep, but a rather more coloured midband than I was used to. However, I decided to give myself a few days to become accustomed to the system's very different presentation, after living with valve amps and electrostatics.

Over the period that I had the Linn system, several friends popped round to audition it. All of them appreciated the much neater and more domestically acceptable appearance compared to the jungle of wires connecting Quads, subwoofers, numerous power amplifiers etc that normally grace the far wall of my listening room. However, a couple of the keener listeners amongst them commented on the harder, more forced presentation of the Keilidhs. However, both guessed that they retailed at around

three pairs of outputs. These make the wiring of a Linn tri-amp system simpler where multiple power amplifiers are used. This pre-amplifier also has some useful program functions that can be set in when you first power it up. The setting I found most useful was one where the system would automatically select CD, press play and set the volume level to 50 - making even the remote control redundant.

I was supplied with two Linn LK100 power amplifiers for the purpose of this review. It allowed me to use the system in bi-amp mode, i.e. one stereo amplifier for each loudspeaker, with one channel driving the treble and one driving the bass/midrange. This is basically a step up from bi-wiring, but one below going for a fully active system.

The LK100s have one set of phono inputs, but also a line output. This enables both power amplifiers to be connected together and fed from a single pair of outputs from the pre-amplifier. They also have no less than eight pairs of loudspeaker terminals, four per channel, so bi, tri or even quad-amping is easily implemented. They are all flush mounting 4mm banana sockets, to prevent the bunched connectors shorting and damaging the amplifier.

The LK100s are rated at 50watts output which is plenty for all but the most power hungry 'speakers. Two sorts



a thousand pounds, which is a complement considering that they are half this price.

The sound of this Linn system I'd describe as "very hi-fi", in the nicest sense of the word. It finds detail in a recording and then forces it forwards for appreciation. In this respect it is extremely impressive and can captivate an inquisitive listener. It thrives on good recordings, the Keilidh's have good, deep bass extension for their size and a slightly emphasised, sparkly treble, both of which are aurally quite pleasant. And both frequency extremes beg to be exploited to allow them to show off. With recordings of average quality the system could become cold, hard and uninvolved where other less impressive sounding set-ups would continue to flow and breathe, making the music enjoyable, even if the recording was technically deficient.

It was at this point that I started experimenting with the positioning of the loudspeakers. I was worried about the quality of the system's midband in particular, since on chesty male vocals, such as John Lee Hooker's, the sound was a little more chesty than it should be, and even with female vocals the midband had a boxy coloration to it.

I started by moving the Keilidhs further away from the rear walls. This reduced bass extension a little, but gave the mid far greater clarity and reduced the throaty, boxy effect by a degree that more than outweighed the compromise in bass output. If you already own a pair of Keilidh's, and have noticed a similar coloration in the midrange, I strongly recommend moving them into the room

a little. Placing the rear spikes in the position where the front spikes are currently sitting moves the Keilidhs forwards by just enough to clean up the mid without losing significant bass extension.

Obviously, this will vary from room to room, but it is certainly worth a try. In this position I found they gave a much more enjoyable and open sound, although the soundstage remained a little more squashed than the best. In either position the image quality was wasn't especially precise, but this is one area where I am particularly critical. I love to be able to easily hear where each instrument is



coming from, it makes the whole sound that much more believable for me. The Linn system was O.K. in this respect, but certainly not up with the best.

The overall character of the system

was dry, controlled and punchy. This character suits a wide range of music, but none more so than live rock. The Keilidhs handle high volume levels very well and the pair of LK100s do a very good job of controlling them. The system was capable of producing a large and powerful sound that would impress or annoy neighbours, depending on their nature.

With simpler, more delicate and intricate music, it lacked the emotion and insight of alternatives - and ultimately it was short of musicality. Sadly, I never really had time to experiment with the individual components of the system by plugging them into different systems, but then Linn equipment really does sound best in a Linn system. The only exception I would make here would be the 'speakers. I can imagine the Keilidhs working very well in other systems, away from the grip of the Linn front end where they would breathe a little more easily if desired, I believe.

As a system, I found this one extremely competent. I'm not sure that the Keilidh's really need the second power amplifier, so money could be saved in this area without too much compromise. It is a very simple and friendly system to use, and had I inherited a large country manor house it would certainly find its way into one of the rooms.

**Linn Products Ltd.,  
Floors Rd,  
Waterfoot,  
Eaglesham,  
Glasgow. G76 0EP  
Tel: 041 644 5111**

# CZECH IT OUT!

**All the way from the Czech Republic comes the Pro-ject 6 turntable.**

**Dominic Todd checks out what it can do for his system**

**T**he mid-price turntable has had its day, or so many in the hi-fi industry think, although vinyl is making something of a comeback at the moment. The past year or so has seen sales of turntables concentrate mainly in the low budget region ("something that will play my old records") and in enthusiast high-end markets.

The budget-mid price audiophile turntable market (£200-£400) has taken something of a nose dive as punters stick

superb value for money and real credibility to the enthusiast, thanks to the machines being eminently 'tweakable'. What's more, all the decks are available with an Ortofon cartridge at a



Just listing what this turntable is and does would take up the whole review, so I'll try and keep it concise. The inch thick,



to CD or go for a higher quality (and inevitably more expensive) turntable. It therefore came as a surprise when Ortofon recently introduced the Pro-ject brand into this country, especially as pricing for these turntables falls into the dwindling budget-mid price bracket. However, Ortofon were pretty confident of success and it's not hard to see why when one looks at the range. To succeed, these turntables need to be special in some way to catch the market's attention - and they are.

These Czech-built turntables offer

subsidised price, making them even better value.

Being the enthusiasts that we are, we went for the top of the range Pro-ject 6 with enough adjustables to embarrass decks costing three times as much. The Pro-ject 6 signs in at £349.99 without a cartridge, or £399.99 complete with Ortofon MC 15 Super II, as tested here. When one considers that the MC 15 is a pretty good cartridge in its own right at £100, you don't need to be a mathematician to work out that the whole package is a good deal.

black, medite plinth is fitted with three adjustable conical spikes. A plain acrylic lid attaches to the plinth, as do two gold-plated output phono sockets, a hidden power switch (undemeath the platter) and a cast, sprung, sub-chassis. The sub-chassis offers three point adjustable suspension with a built-in circular spirit level (the type some manufacturers charge £20 for). This allows two planes of levelling when combined with the adjustable feet.

Variable damping is also possible by means of a small silver bolt, between the

plinth and sub-chassis, which taps into a silicon-fluid filled trough. What this means is that the turntable's sensitivity to vibration can be adjusted to suit differing supports and floors. The high quality ground belt (a spare is included) fits around a plastic sub-platter, which bears a weighty, dynamically balanced platter. On top of this sits either a glass or thick felt mat, or both. Even a screw-down record clamp is included, although I'd rather have an English instruction manual than the German one I was supplied with. To someone who has never taken O-level German it made the operation of setting the thing up more difficult than it should have been (I hope this was a one off, Ortofon!).



information at the extremes of the stage.

Vocals were natural and had little trouble projecting themselves from the speakers. The higher frequencies were handled just as deftly. The combination of the 6 and MC15 provided a detailed and

wearing, I showed no mercy and sat back to see if Kate Bush and Suzanne Vega would breach the limits of the Pro-ject. To my surprise, I found that all that really spoiled the tracks was a little sibilance on Vega and a tendency for the midrange to sound a little forward on both. Swapping the felt and glass mats around improved the focus, but also led to the forwardness becoming intrusive; I felt the best balance was given with the glass mat beneath the felt. Otherwise the 6 showed no signs of stress even when Bush reached her cringingly high 'squeals'!

On the whole, the Pro-ject 6 proved a joy to use, although there were one or two inadequacies. The lift and lower device and the arm hold proved rather flimsy and would come as a disappointment to anyone used to an SME or even a Rega arm. The threaded spindle (to take the screw-down record clamp) also tended to snag on records as they were lifted off the platter.

Yet the '6 had one of the most effective suspension systems I've seen at the price. Despite the listening room having a rather bouncy wooden floor, it never mistracked or even warbled when heavy footfalls threatened otherwise.

If ever there was a turntable which is all things to all men, then the Pro-ject 6 must be it. It is realistically priced, whilst

On to the arm. This features a thick arm tube with a fixed headshell. As well as the usual tracking weight and anti-skate adjustment, the '6 features adjustable tension bearings and azimuth adjustment to allow for cartridges with uneven top plates to be accommodated. If all this sounds a bit daunting, don't panic! Even with the German instructions I found it quick and easy to set up, and the time spent tuning (not a difficult task) was well worth it.

The build quality is above average with only a few black marks (such as the cheap and exposed mains cable grip)

preventing the deck scoring as highly as the British competition. Once set up, the Pro-ject 6 does have a certain charm, managing to avoid the 'lump of wood' look of many competitors, although it hasn't got the head-turning ability of something like the Michell Syncro.

The '6 ousted my usual Manticore with modified Rega arm and OC7 cartridge from its Sound Organisation Z022 table with Ruark Sound Barrier, to be plugged into a modified Meridian phono amp, with Silver Sounds and Omega cables, as well as the one supplied, and Celestion SL600 speakers via a trusty A400 amp.

Quite simply, the sound quality of the Pro-ject would give anyone who's just bought a £400-£500 CD player a nasty shock. There will probably be a few raised eyebrows amongst British turntable manufacturers too. Dire Straits' 'My parties' was the first track I listened to, and the sound was so involving that I ended up listening to the whole album! A critical ear would notice a slightly loose bass and occasional veiling of the saxophone, although removing the record clamp did improve this, but in the context of class competitors the technical presentation still rated very highly. Surface noise rarely became obtrusive and the sound stage was first rate, with plenty of

*"Dire Straits' 'My parties' was the first track I listened to, and the sound was so involving that I ended up listening to the whole album!"*

lively top end, whilst avoiding sounding uncouth in an effort to retrieve too much information. However, in some systems, the treble could be a little 'cutting' although it would be unusual to find refinement lacking in such a cartridge.

The best part of the sound, though, was that it always seemed to be in sympathy with the music being played. The Dire Straits album had real drive and foot-tapping rhythm, which made the music involving - as it should be. Changing to Steely Dan's 'Pretzel logic' caused the apparent character of the turntable to alter.

The bass was lean and fast and the vocals showed superb articulation that even gave my turntable, worth twice that of the Pro-ject, a run for its money. With Copland's 'Fanfare for the Common Man' and 'Appalachian Spring', there was a sense of easy and uncompressed dynamics. The music always remained vivacious and colourful, in the best sense of the word, and strings were well separated from brass, although they could occasionally sound a touch grainy. The broad soundstage and sheer scale of the '6 suited large orchestral pieces, just as it had suited rock performances.

To test if the upbeat and slightly forward presentation could become

appealing to enthusiasts with endless tweaking capability. At the same time it's easy to set up and use. It looks good and is reasonably well built, although there is room for improvement here.

All this would be totally academic if the '6 didn't sound good. Yet here again it passes with flying colours, and for once I can actually recommend a product which favours no particular type of music and is at home with albums ranging from Bush to Brahms and Beethoven to The Brand New Heavies.

Whatever the music, you can be assured that the Pro-ject will give its best, which may not always be perfect - its slight forwardness and occasionally tuneless bass see to that - but involvement and rhythm are always high priorities. For those looking to build up, or explore existing, varied record collections, the Pro-ject 6 makes an excellent choice and comes highly recommended ●

**Pro-ject 6 Turntable** £349.99  
**with Ortofon MCI5 Super II Cartridge** £399.99)  
**Ortofon UK Ltd.**  
**Chiltern Hill**  
**Chalfont St Peter**  
**Bucks SL9 9UG**  
**Tel. 0753 889949**

**E**nough is enough; sixteen bits is more than enough!

I'm tired of hearing how CD needs more 'bits'. In reality, the performance of 16 bit audio is more often limited by effects like sampling clock jitter than by an inherent lack of resolution.

Several years ago I opted for DAT mastering in my home recording studio. Originally this was because DAT was more convenient than quarter inch, but the addition of a high quality outboard DAC has meant that my beloved Leak valve monitoring amplifiers have finally had to be retired as they proved to have small, but intolerable levels of hum and hiss and inadequate headroom. Similarly, all discrete class A mixer electronics have had to be built and commissioned in order to keep the signal path as clean as possible. In my experience, 16 bit digital audio when it's working properly, pushes analogue circuit performance to the limit, not the other way around!

In order to illustrate how good 16 bit audio is in a domestic situation, I have drawn Figure 1. The lower curve indicates the room noise in dB SPL, in relation to frequency for an average room

room curve indicates the masking threshold. Essentially this illustrates the intensity, in dB SPL, to which a tone of the indicated frequency would need to be raised in order to become audible. On the right hand side of the graph I have indicated the amplifier power necessary to achieve a given sound intensity assuming loudspeakers sensitive enough to produce 85dB SPL at the listening position for 1 electrical Watt input, which is an average value. In the middle of the graph I have indicated 1kHz tones at



Nonetheless, the purist argument that the ear can detect minute forms of distortion in the presence of a music signal is, perhaps, foolish to ignore. Figure 1 suggests that second and third harmonic distortion products must be at least 80dB below the level of the original tone (i.e. 0.001%). Higher harmonics up to about the thirteenth should be below 90dB (i.e. 0.003%).

In the middle of Figure 1, I have drawn the axis for 1kHz tones produced relative to the maximum output from CD. Look at the -90dB tone

# recorded message

Left by Richard Brice

various intensities relative to the maximum signal output from digital source (so-called 0dB FS for 0 decibels full scale, all smaller outputs being a "minus" signal level below this reference).

I have made an assumption that the listener will listen at levels which peak at 110dB SPL. I do not believe most people listen at

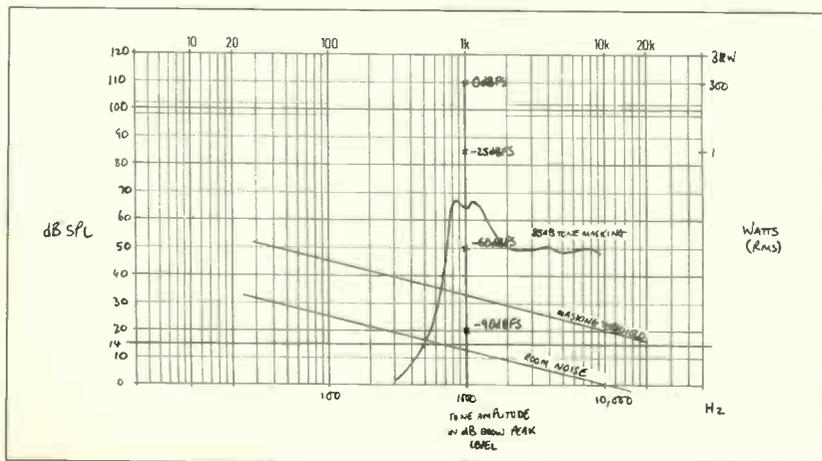
SPL is permissible for four hours, 96dB SPL for one hour and so on. Exposure to sound levels of 110dB SPL causes permanent hearing loss within two minutes, so 110dB SPL peak levels should be occasional crescendos.

Figure 1 reveals some interesting facts. For instance it shows that the minimum amplifier output power in my

domestic situation is 300watts! It also demonstrates the levels of acceptable distortion I require from my amplifier. To ascertain this I have assumed that distortion produced at, and below, full output should always remain below the room-

which is the quietest 'sound' a CD can produce - usually with about 30% distortion. This signal is well below the masking threshold for the room and is, therefore, distorted or not, completely inaudible! It illustrates too, that if the 90dB FS signal is amplified enough so as to become audible peak levels would theoretically need to reach 120dB SPL which would require an amplifier of about 3000w. Such a system would be capable of causing permanent hearing damage within 7 seconds!

Couple my dynamic range example with other knowledge about a first class digital audio source (flat frequency response and virtually no wow and flutter for a start) and it adds up to prove that digital audio places stringent demands on the audio system. In my case amplifiers with at least 1.5kW/channel power output, distortion below 0.003% at all levels below overload, a signal to noise ratio of better than 110dB so as to be below room-noise and loudspeakers with a level frequency response from 10Hz to 20kHz yet capable of producing 120dB SPL peak levels. Do you still believe it's digital audio which has to get better?



noise figure of 45dB SPL. This is typical of my living room which is in suburban London and faces a busy road.

Notice that the noise level is predominantly low-frequency, a sign that the majority of the noise is mechanical in origin. The nearly parallel line above this

this level, and there may be good reasons for not so doing: permanent hearing damage caused by exposure to loud sounds is related to total sound energy over time. An exposure to a sound level of 90dB SPL for eight hours is considered by the EEC to be just within safety limits, 93dB

noise masking threshold. In practice distortion levels much higher than this can be tolerated due to the original sound 'masking' the distortion. (I have drawn the change in masking level in the presence of an 85dB SPL tone on Figure 1 in order to demonstrate this).

The hi-fi industry is in a bit of a mess right now. Nobody seems to know what to do next to bring us out of recession. Many have pinned their hopes on AV; not a week goes by without a press release arriving concerning some new shielded magnet loudspeaker, or multiple channel amplifier with more lights and controls on it than a small space station.

Some are looking towards the car industry; Goodmans produce a vast number of drive units for in-car audio and KEF have just re-worked their top flight in-car 'speaker system.

But who is innovating? Who is doing something new or exciting that will appeal to simple hi-fi buyers? There are very few manufacturers who are actually doing any innovative work it seems to me; the majority are rehashing old models.

Sadly, because of the recession, AV has been seen by many manufacturers as a route out of the rut they've got into with hi-fi. Rather than solve the problem of low sales by introducing a new high-tech, unique and appealing loudspeaker that people will more want to buy than lacklustre rival products, manufacturers have chosen what they see as the easy route out. Shield the magnets of a few of the better 'speakers in their existing range and badge them 'AV ready'. 'AV' 'speakers are no more suitable than any other miniature, apart from being able to be used right next to a TV, rather than a couple of inches away.

Of course, this has happened before. When CD first arrived it was top of everybody's shopping list and was certainly more important than a new amplifier or speakers. This created a potential problem for amplifier and speaker manufacturers. However, the situation took a turn for the better with amplifier manufacturers when people

started to buy new amplifiers merely because they had CD inputs marked on them (a CD input is no different from a tape or tuner input!). However, the wily salesmen of the speaker industry soon found a solution to the problem - it wasn't long before 'speakers started appearing with 'CD ready' tags. In most cases only minor changes had been made, but consumers took the bait. None of this, however, is the sort of true innovation that I believe we need.

There are some

innovative manufacturers out there, but they are few and far between. The three that spring to mind are all innovative in the digital domain of hi-fi: DPA Digital, Pink Triangle and Micromega should all be complimented for the significant advances that they have made in CD over the last few years.

With loudspeakers. It is really quite sad that box after box arrives from large and reputable manufacturers with little, if any improvement detectable. Yet in loudspeaker drive units there is plenty of innovation going on. Morel produce a range of special hi-fi units that have Damped Polymer Cones (DPC) and Neodymium magnet systems, Audax have just revealed several new bass units using a special High Definition Aerogel (HDA) cone which is extremely light and rigid.

Many manufacturers will find them just too expensive. Others will put them in a wooden box with a crossover network. This might seem like the only thing to do, but think for a



## Dominic Baker dB on the level

moment. Over the years, drive unit technology has advanced, but two simple constraints still exist: the box and the crossover. Has anyone seriously tried to solve the problems of an open baffle loudspeaker, or researched motional feedback?

One company that has shown innovation with loudspeakers is Quad. Look at the results they get, the ESL-63 is still selling now in 1993. What is there to rival them, even now after 10 years on the market?

Tannoy are making an effort with hexagonal cabinets and special ICW capacitors for the treble in their affordable range, and Dual-Concentric drivers in their new Definition series.

KEF have their Uni-Q driver, but you'd expect a little more from our most reputable loudspeaker manufacturer over the last decade than one reasonably interesting drive unit. Celestion really stormed the market five years ago or so with the SL600 using an Aerolam cabinet and high tech drive units, plus a dipole subwoofer to match. Where are they now?

There is a lack of fresh ideas and innovation in the industry at the moment. Maybe with the decline of interest in hi-fi and the loss of the young hobbyist/enthusiast due to their exclusion by the industry, manufacturers no longer feel the need to produce interesting and exciting products. Instead they think they can use clever marketing and competitive pricing to sell to the consumer. I doubt it.

Harman's new LS 0300 loudspeakers are, at £200, really something. They use

a high tech glass fibre bass cone and a smooth fabric dome tweeter. Yet Celestion's latest rival model, the 7, uses a cheap-looking 'felted-fibre' (paper) bass unit and a metal dome tweeter. When Noel measured it he found that the crossover wasn't even properly engineered. I suspect that Harman's reps will have a considerably easier time selling the LS 0300 than Celestion's will with the 7s.

The recession will never lift, and sales will never increase for these manufacturers lacking innovative and appealing products. Moving into AV and car stereos will not save the UK's loudspeaker manufacturers; they'll merely find themselves in a different and more cut-throat market where high efficiency mass-production and robustness of product reign. But perhaps these superficially attractive volume markets are already subverting their outlook - and that's why we are not seeing good, new innovative loudspeakers any more. models that would end the recession tomorrow ●

# BUDGET BIASED

Noel Keyword auditions the smooth-looking Sony TC-K311 budget cassette which offers auto-tape tuning on a shoe string.



Perhaps with DCC and MD hovering uncertainly on the horizon of popularity, now is not the time to be sinking money into the old technology both seek to oust. On the other hand, if you have to buy a new tape recorder, then cassette in the form reviewed here offers the cheapest of the three options. Sony's new TC-K311 cassette deck is smart looking, functionally simple and inexpensive at £149.99.

From a distance this deck looks as if it might carry a healthy price tag, its lines and finish are so smooth and well balanced, but that's Sony. They have always managed to avoid the visual clutter of rival machines, whose legends and awkwardly visual arrangements sometimes make them look like fugitives from an amusement arcade. The 311 is so discreet it's hard to spot that it has automatic tape tuning - rare in a deck of the price. Tests showed it performed reasonably well too, even with metal tape. Tape tune systems have their own drawbacks, and Sony's is no exception, but for the hands-off user it takes the bother out of manual tuning and does, I found, give a reasonably balanced sound from recordings, irrespective of the tape used.

But some minor limitations have to be accepted. Manual tape tuning, using a bias adjuster, might be fiddly, but it leaves a user free to choose any preferred tonal balance. Auto-tuning removes options and on this recorder I found it tended to give a consistently bright sound, especially with metal tapes. The only way of fooling it

was to put in a 'bright' tape (e.g. TDK MA-XG), causing bias to be increased greatly, then pop in an ordinary tape, like TDK-MA. The high bias setting would then give a warmer sound from MA.

It is only realistic not to expect too much from what has to be a simple tape tuning system, especially on a two-head deck where the tape must be recorded and replayed in separate passes during the calibration procedure before bias can be set. This limits its resolution. Only with ferric tapes like TDK AR did a softer sound emerge, but since the recorder exploited ferrics better than metals, this wasn't inappropriate.

Like many budget recorders, the '311 has a single head, and it had limitations. Recording onto metal tape, strong distortion sets in above 0VU, a low level. Even though the record level indicator suggests this machine can hit +8 with metals, I measured 10% distortion at this level and found the sound became messy and both splashy and compressed on transients in use, so it's wildly optimistic. Pulling record level down to 0VU maximum on musical peaks cured this, but then hiss became commensurately more obvious. It's best to be a realist with budget decks; they commonly work best with ferrics and chromes and the TC-K311 is no exception.

The deck was generally easy to use, a little irksome in the noise it produces as solenoids clank in sympathy to commands. These noises and the bat-cave of a cassette

compartment which incarcerates cassettes in inky darkness, were both minor irritants. Otherwise, the deck has a good set of logic controls and a sensible array of facilities, including Dolby B and C, Dolby HX Pro, a switchable MPX filter, music search for pre-recorded tapes and a counter with Memory function (i.e. zero-stop).

Metal tapes maintained treble clarity, within the closely miked guitar strings on Matt Johnson's *Dusk* album, for example, which sounded sharp and vibrant. There was some coarseness in the sound though, probably due to flutter and saturation distortion acting in conjunction, and I was aware of a degree of hard brightness. Low-ish record levels demanded the use of Dolby B for Rock and C for classical.

TDK AR ferric tape often gives the best results on decks with mediocre heads, since it demands so little bias signal. The TC-K311 blossomed in the bass and across the mid-ranges with this tape, but as is so often the case, except with the better Nakamichis, treble sounded muted and smudged. This turned violins into a warm mush behind Ashkenazy playing Rachmaninov's Piano Concerto No.2, but the piano sounded stable enough. Hiss became obvious in the more restrained parts of his performance too, demanding the use of Dolby C.

Pre-recorded tapes came across well enough. That treble was being suppressed with Dolby switched in was obvious, but although the deck then sounded warm and

rounded in its treble, it did not sound overtly muffled. However, the deck sounded clearer generally, if hissier, with Dolby B out, as is so often the case when replay equalisation and head azimuth are not set exactly right.

The TC-K311 is a deck for those who

don't want to get involved in the small labour of tape tuning. It works well enough generally, but to be perfectly frank, it has nothing special to offer. Budget cassette decks like the old Aiwa AD-F360 - and Aiwa are a Sony company - offered a better performance five years ago

**Sony TC-K311**  
**Sony (UK) Ltd.**  
**Citers Way**  
**Thatcham,**  
**Newbury,**  
**Series. RG13 4LZ**  
**Tel. 081 784 1144**

£149.99

review

## MEASURED PERFORMANCE

With recordings onto metal, chrome or ferric tapes, frequency response after tuning looked much like that for metal tape, shown in our analysis. The tuning system in most instances gave treble lift, which results in a bright sound.

Although the head has a flat frequency response, tests showed it was unable to get high record levels onto metal tape. This deck works best with ferrics and chromes.

Treble loss in the replay amplifier produced a replay frequency response characterised by a slow treble fall above 6kHz. This results in a dull sound with prerecorded tapes, especially with Dolby B engaged. The replay and record amplifiers were quiet though; hiss and hum measured low.

Sony have used a respectable single-capstan transport, one with little drift or wow (low rate speed variations). The spectrum analysis shows some flutter peaks, but they are limited in amplitude and won't coarsen the sound too greatly.

The TC-K311 measures well, but it is not exceptional. It will make bright recordings,

but sounds a little dull with pre-recorded tapes, like so many budget decks lacking careful final adjustment. It doesn't utilise the properties of metal tape well, but it does give reasonably good results with ferrics and chromes. **NK**

### REPLAY (pre-recorded tapes)

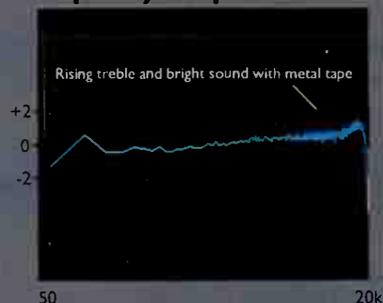
Frequency response(-2dB) 30Hz-12kHz  
 Speed accuracy +0.5%  
 Hiss (70uS, Dolby out) -59dB

### RECORDING (blank tapes)

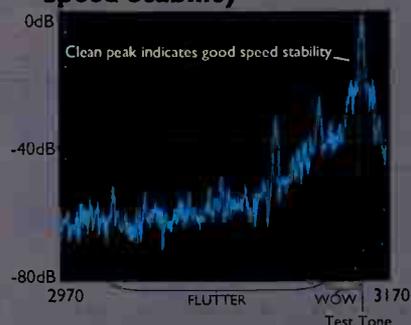
Frequency response (IEC Primary Refs.)  
 ferric (IECI) 30Hz-17kHz  
 chrome (IECII) 30Hz-18kHz  
 metal (IECIV) 30Hz-20kHz  
 Separation (1kHz) -48dB  
 Distortion (315Hz) 3.5%  
 Hiss (70uS, Dolby out) -55dB  
 Speed variations (DIN total) 0.08%  
 Flutter energy (3-3.13kHz) -22dB

MOL/SAT (IEC Refs) 315/10k  
 IEC I (ferric) 2.5dB/-5dB  
 IECII (chrome) 1.5dB/-4dB  
 IECIV (metal) 0dB/+1dB

### Frequency Response



### Speed Stability



# IT IS THE CHRISTMAS ISSUE!

Yes, it's time to deck the halls with hunks of holly, and your favourite magazine will come filled with festive gift ideas and reviews, the latest new releases, the occasional snowman, accessories, World Audio Designs, and much, much more. It's all here, an entire stockingful of things to read about and hear, including a few real crackers, such as:

## GROUP TEST OF STARTER

### SYSTEMS

Everything you need to know about pushing the innocent young things of your household down the slippery slope to 'upgrade-itis' with their first serious system. We take a look at what's on offer from the main manufacturers and also set up a few separates systems of our own to give you an idea of how well they compare.

### METAXAS IKARUS

Fresh from down-under where the Christmas dinner is a barbie on the beach, we put this integrated amplifier through its paces and tell you if it falls down, possibly from losing its wax wings somewhere over the Aegean.

### TANNOY D100

Exclusively to the pages of this illustrious (or, at least, illustrated) journal come Tannoy's latest addition to their 'Definition' range of loudspeakers, the dual-concentric D100s.

### DENON TU-580RD

The latest tuner from Denon comes fully equipped with RDS to give you something to read whilst you listen. We put it through its paces.

Not only that, but all the usual advice, opinions, news from the industry, the competition, Rudolph the Reindeer's review of headphones, and a whole lot more. Possibly more than any other magazine, but, we promise you, no Christmas turkeys!

Hi-Fi World is still only £2, but with more editorial than most rivals. With the most enthusiastic and expert editorial team in hi-fi journalism, can you afford to miss it? Make sure you don't by filling in this order form and handing it to your newsagent.



Please reserve/deliver\* Hi-Fi World on a regular basis, commencing with the next issue, until further notice.

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

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

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

\* Delete as appropriate

Distributed to the news trade by

**COMAG**  
 MAGAZINE MARKETING



# ORELLE TRADITION

**Simon Cooke auditions Orelle's status-hunting CD160 CD player**

**Does it live up to the promise of their previous players?**

**L**ike many of the UK's hi-fi producers, Orelle seem to hover at the edges of mainstream acceptability, attempting to produce that elusive world-beating formula which will set them apart, conferring Linn/Naim status. In the meantime, they are producing solid, workmanlike products.

If the CD160 is going to thrust them into the spotlight, it has its work cut out. Retailing at £749 (although, on special offer, £200 less at the moment), it is pitched against firm favourites such as the Quad CD67, so

the competition is pretty fierce.

Removing the CD160 from its packaging, it looks, at first, as though it is already a little old to offer much in the way of competition. I felt the styling of the

bears the legend 'CD160' in gloss grey against the matt black finish, and once opened, it reveals a plastic disc tray hidden behind the solid metal front plate. Control buttons are positioned on the

fascia at differing angles, some horizontal, some at a slant, but the display panel is large and easy to read. In a nutshell, I felt it looked a little haphazard in its styling.

The sound of the machine is similar in

*"Drums and strings were hammered out with good force and rhythm, and kept going through even very complex passages, tight and in tempo at all times."*

tone to the visual aspect. My first impression was of a capable enough machine, with solid, controlled bass very much in evidence, and an adequate, but player is dated. It has a large metal fascia scrolled round at the top and stepped back at the bottom, reminiscent of many early '80s designer products. The drawer

tone to the visual aspect. My first impression was of a capable enough machine, with solid, controlled bass very much in evidence, and an adequate, but

not expansive soundstage. However, the sound is polite and eventually I found my interest wandering whilst listening, since

extension to my system, which is generally slightly lacking in this department. Where required, the CD160 produced a vibrant, throbbing line to support the music, although it was also capable of surprising subtlety, enabling the bassists in several recordings to stand alone and play separately from the drums rather than be swamped by them, as is usual.

The midrange was clean and clear in general, although it had a

vocals, the treble remained dull and lacklustre, seemingly never breaking into song. Triangles in the larger works also sounded dull and on vocals, such as the Tallis Scholars' 'Allegri Miserere', the notes failed to decay with their usual organic grace.

Imagery and soundstaging were average for a single-box player. But the CD160 failed to impress when outboard converters are taken into account as competition. Some that have recently graced my system have presented the music with more spaciousness - I'm thinking of Select Systems Dacula and DPA Little Bit II - seeming to push the stage out beyond the physical confines of the room. The Orelle, on the other hand, held the image on a tight rein, squeezing whole orchestras into the space between the 'speakers, and the positioning of instruments was consequently unconvincing and muddled, interwoven and veiled, rather than being portrayed openly with space to breathe.

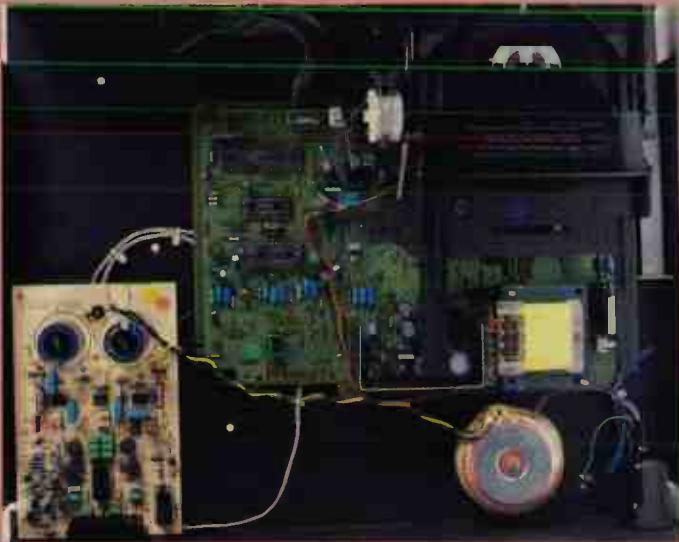
Overall, the Orelle came across as a capable enough machine, with the ability to reproduce music without aggression or sharpness. Whilst the reproduction of the music was in all ways solid and workmanlike, the Orelle seemed to be one of those players which simply translated information, rather than allowing music to play. It lacks the panache required to lift it out of the herd, and at this price, where there are so many good players and DACs, this ordinariness weighs heavily against it.

this is such an inoffensive sounding player. The Orelle shied away from attacking the notes, presenting them gently but firmly, and it was this shyness which drew the teeth of the performance. It allowed the music to gravitate towards a soporific, rather than relaxing, presentation.

In detail and starting with the bass, drums and strings were hammered out with good force and rhythm, and kept going through even very complex passages, seeming tight and in tempo at all times. The player gave good bass

slightly gritty feel to it in certain circumstances, such as with exceptionally clean pipes and synth passages, these being less smooth and supple than usual. Generally, though, it carried the midband acceptably well, with presence and rhythmic stability very much in evidence.

The treble was where this player had a tendency to fall down. The notes were lacking in attack, being delivered without the punch and vibrancy expected of a player in this price range. From large orchestral works down to single female



## MEASURED PERFORMANCE

Orelle's CD160 uses a Philips-based board complete with TDA1541A 18-bit converter chip. The board comes with a power supply for the DAC and Philips CD160 transistors, which is the CD160's distinctive mark. Orelle's construction can be heard at the rear of the player, where a neat detail transformer and PCB are housed. The transformer drives a push-pull output stage, which is a 600-ohm load, which determines much of the final characteristics of the player.

More precisely, Orelle's board uses a BK with output stage Philips TDA1541A converter and the Orelle's own custom 18-bit 24Hz sample-rate converter with the usual 60 cycle. However, from 18kHz onwards the order is mixed with a pair of 100k resistors, which which should ensure a smooth sound. Again, at most a lot of custom parts, there is more but frequency 18 to give reasonable bass.

The Orelle's output stage is quite high impedance with 18-ohm, with high level input. At 100k is wide 100-ohm of impedance is better (100-ohm). The 100k 200k impedance is relatively 100-ohm impedance but the following 100-ohm

impedance will be seen as a very high impedance to the board.

In all other areas, the Orelle CD160 is respectable but not exceptional, with reasonable dynamic range, low noise, average channel separation, but quite high levels of spurious noise. Using Philips data 18-bit chip, the player does not have a wide frequency range.

### TEST RESULTS

Frequency response 40-20kHz

#### Distortion (%)

20k	0.01	0.01
10k	0.01	0.01
40dB	0.11	0.11
40	0.9	0.9
40dB dynamic	15	16

#### Separation (dB)

100Hz	100	100
20kHz	-78	-77

#### Noise

with emphasis	-112dB	-112dB
---------------	--------	--------

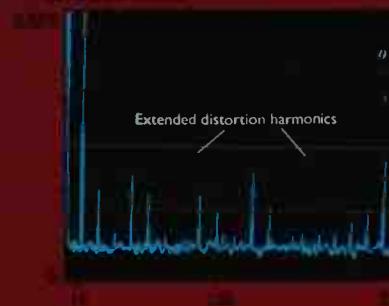
#### Dynamic range

Output	100dB	100dB
--------	-------	-------

### Frequency Response



### Distortion





*moorgate acoustics*  
HI-FI/HOME CINEMA SPECIALISTS

# Moorgate Acoustics bring home theatre to Sheffield

*Home entertainment is changing. With the introduction of Dolby Pro-Logic it is now possible to turn your front room into the Odeon Leicester Square*

At the end of September, Moorgate Acoustics will open Sheffield's first ever Home Cinema demonstration facility in its recently extended Fitzwilliam Street showroom.

The area will feature three main demonstration areas, offering permanent systems set up to show what can be achieved in the home from the humble video recorder or satellite broadcast. Each area will be decorated to simulate a normal lounge where people can relax and hear for themselves the future of home entertainment.

At Live '93, almost 200,000 people were treated to the latest in multi-media technology. The show's organizers say that the greatest interest was in the home Cinema related products.

Moorgate acoustics 13 years of experience in supplying the best audio systems gives them a wealth of experience to draw on when putting together and installing Home Cinema system in customers' homes. This experience can eliminate the pitfalls involved with complex audio video equipment.

The show room will feature a wide range of equipment, from complete systems to components which can simply be added to customers existing audio systems with little fuss.

Most significantly, the visitors to Home cinema showroom will discover that watching their favourite movie or a concert video will never be the same again.

*For more information or to receive a preview demonstration contact; Paul Hobson on (0742) 756048*

Moorgate Acoustics  
184 Fitzwilliam Street  
Sheffield S1 4JR  
Fax : 0724 755272  
Telephone : 0724 756048

**W**ith Hi-Fi World having a room as well as a stand at Penta this year it was all hands on deck; I was one of the hands. Penta was a completely new experience for me. The nearest I'd got to a hi-fi show before was a dealer-run event at Bolton - and even then I was just an ordinary punter. This time I was in the firing line, with all my knowledge of hi-fi about to be ravaged by those who'd been in the industry longer than I'd been born, and enthusiasts who could lose me with "tech talk" within seconds. As you can see I was rather apprehensive about the whole thing, even though I meet the public every day in a hi-fi dealer's.

Wednesday is when it all begins for the magazines and trade, with the setting up of equipment in the hotel rooms. My colleague and I hadn't made the best of starts by heading off in completely the opposite direction to the offices, from Maida Vale tube station. By complete chance, Dominic Baker drove by and stopped us before we'd strayed half way across London!

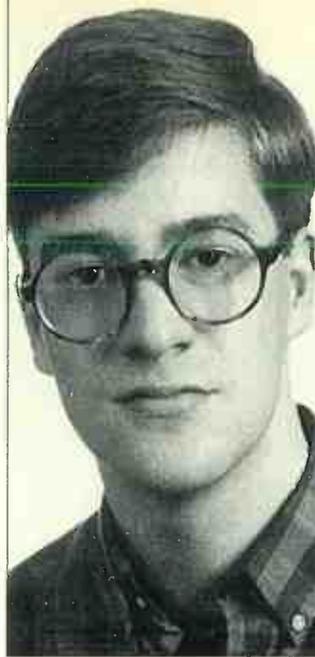
For most manufacturers, the Wednesday before the show is to be spent setting up and fine tuning the equipment - but not at Hi-Fi World. Come Wednesday morning and we were still waiting for the KLS-1 loudspeaker cabinets to arrive from the sprayshop - unbuilt! Noel was at the early stages of constructing a K5881 valve amp and somewhere there lurked a very special Garrard 401 that had to have its celebration Garrard SME IV arm fitted - when we collected it from the SME room at the hotel.

Great relief when the rushed prototype cabinets finally arrived at about 2p.m. They weren't quite the piano gloss black we'd had in mind, more of a blackboard matt, but it was too late to argue; they'd just have to do, and with clever lighting they didn't look too bad at all (even though the lack of Blue Tak and masking tape on the mid-range proved a disappointment to many!).

We hastily drove off vaguely in the direction of Heathrow and to our surprise found the Ramada hotel quite easily. As we threw everything into the room we looked on with envy at those who were already up

and running. Mind you some had been there from about seven in the morning!

It wasn't long before we had a system up and running, and the room looking something like reasonable. Unfortunately, "a system" was based around some well travelled Heybrook Quartets sitting on CD racks as speaker stands. There was no getting out of it, the KLS-1s had to be built, and built fast! It was about 4.30 p.m. and we realised that only one cabinet had carpet felt in it. If there's any one out there with a carpet warehouse looking to expand, then Heathrow's your place! We drove for miles trying to find elusive carpet felt. We got nowhere and, in the end, ended up using a similar



## Dominic Todd

### My first Penta. Doing the Ramada

alternative from a packaging specialist.

Eight hours later (1 a.m. for those counting) we finally had a decent CD based system (well we've always said what a user-friendly kit the KLS-1s were!). The sound wasn't especially good to begin with, the bass began sounding as about articulate as Paul Keating, but with a little running in and repositioning we started to get somewhere. By the time we left, even the most asbestos-lined kidneyed rep and tradesman had vacated the bar and were tucked up in bed.

Thursday was the first trade day, and most exhibitors that I've spoken to since thought it to be the best. By the afternoon we had the Garrard up and running, with thanks to Ortofon for loaning a MC2000 cartridge. This drew much attention, as much for the special SME arm as for the marble based plinth.

Whilst the Garrard drew the punters attention, I was drawn by the sheer diversity of nationalities and types of punter. The "anoraks", sporting thickly rimmed glasses and handfuls of literature were expected. What I hadn't expected were the hordes of Japanese clutching their mammoth Canons, taking

pictures of everything that moved - including us, to our bewilderment. There were Germans, French, Americans, Italians, Scandinavians, Portuguese and probably a whole host of others I didn't get to meet. Physical proportions went from every extreme one could imagine, as did dress sense which ranged from "Major grey" suits to the most bizarre multicoloured outfits with hairstyles to match.

It was nice to see that all ages were truly represented. I defy anyone who says that young people simply aren't interested in hi-fi any more because of computer games. Whilst computers have diverted many away from hi-fi during the eighties, there is still strong enthusiasm amongst many who have been born into the computer age.

Whilst all this was going on I was scuttling down to the car park to move the car every three hours to avoid the fee! It worked on Thursday, but I didn't get away with it on Friday when an over-zealous attendant put a stop to my antics. In the end I had to pay £6 and be shuttled towards the hotel.

Still, at least I didn't find myself too out of my depth when speaking to "the trade".

In fact, for the most part I found I actually enjoyed the day.

Friday morning found the Hi-Fi World room to be closed. One look inside and it was easy to see why! Dominic had picked up the KLS2 loudspeakers the night before, and wire, wool, drive units and assorted tools lay sprawled across the room. Also new was the K5881 valve amplifier which Noel had completed the evening before. Cold heartedly I left Dominic to it (although we did help with some bits at the end) and went to have a look around the rest of the show.

It was pleasing to see valves and vinyl in such prominence, even though the price tickets of some soon

banished any ideas of taking arm loads home with me. Undoubtedly, the star of the show for me proved to be the Cabasse Atlantis MC speakers. The word is often misused, but it would not be exaggerating to describe the MCs as truly awesome. The only way of describing these speakers is like a pair of massive (eight foot high) white triangles with football sized eyeballs. The dynamics were so realistic that they almost seemed an exaggeration of the real thing.

In the afternoon we opened the door and the room was literally full within minutes. The High Definition speakers made an excellent partner for the K5881 amp, and the smallish room suited the system better than it had the larger three-wayers. Once again the time just flew by until it was time to go home. We said our goodbyes and set off "up North". I was needed at the small hi-fi shop I work at in North Yorkshire so I couldn't stay for the public days. Needless to say, returning to work brought me back to reality with a thump. Yet I was glad to have experienced a hi-fi show from the other side of the fence, and look forward to future events with rather less apprehension ●

# Specialist Hi-Fi Dealers

**THE MOST EXCLUSIVE INDEPENDENT HI-FI STUDIO**

The internal atmosphere and easy access make it so much more exciting choosing your hi-fi from the finest audio products available.

Just off the High Street, Bloxwich, nr. Walsall, West Midlands.  
(Ample free parking)  
(OFF M6 JUNCTION 10)

**TEL: (0922) 493499 - 473499**

Open 6 days a week, Mon - Sat  
All major Credit Cards accepted  
Part Exchange enquiries welcome

**ALBARRY • ACOUSTIC ENERGY • ARCAM • ART AUDIO • AUDIOLAB • AUDIO QUEST • B&W • BOSE • CABLE TALK • CHORD • CYRUS • DPA • DYNAUDIO • ENSEMBLE • EPOS • EXPOSURE • JPW • KEF • REFERENCE • MARANTZ • MERIDIAN • MICROMEGA • MISSION • MOTH • MUSICAL FIDELITY • NAKAMICHI • ORTOFON • PROSPECT • PROJECT • QUAD • ROKSAN • ROGERS • RDTL • SONICLINK • SYSTEM DEK • TDL • THORENS • TRIANGLE • TOWNSEND • TUBE TECHNOLOGY • VAN DEN HULL • YBA •**

**C/A Chantry Audio**  
"No Ordinary Hi-Fi Dealer"

A fresh approach to the World of Specialist Hi-Fi

**NEW SHOP - NEW STOCK - 3 DEM. ROOMS**

Pink Triangle, Micromega, Rotel inc, Michi, N.V.A., Monitor Audio, Alchemist, Michell, S.M.E., Ortofon, d.p.a., Celestion, Ruark, SD Acoustics, Lumley, Diamond Acoustics, Ortofon, Croft, A.M.C., Aiwa, Sequence, Project, Denon, + much more.  
Friendly service and advice in relaxed surroundings  
First time buyers to high-end enthusiasts  
Easy access Free parking

18-18A Eldon St., Tuxford,  
Near Newark, Notts NG22 0LH.  
Tel: 0777-870372 Fax: 0777-870437

**THE STATE OF THE ART....**

- EXPERT ADVICE
- CREDIT FACILITIES
- PART EXCHANGE WELCOME
- REPAIRS

Come and hear - NAD • B&W • NAKAMICHI • BOSE • QUAD • BEYER-DYNAMIC • SENNHEISER • AURA - and lots more in our listening room.

Tel. 0743 - 355166

**AVON Hi-Fi Limited**  
12 Barker St. Shewsbury  
Plenty of parking - park and ride buses stop outside!

**MIDLAND VALVE HI-FI**

**AGENTS FOR:** Audion, Audio Innovations, Audio Note, Impulse, K.A.L., Townsend, Micromega, Ortofon, Triangle, Voyd, Stax, Harmon-Kardon, Edison, Sumiko, Apollo, Sovtek, Dynavector, Perception, Eimdon, etc.

**VINTAGE:** Leak, Quad, Radford, Croft etc.

Always wanted: Valves, equipment, literature, LPs  
Part exchange - home demonstration a speciality  
flexible hours 7 days

**Tel. 021 - 722 2317**

**MUSIC MATTERS**

**THE AUDIO SPECIALISTS**

for the most exciting range of equipment available in the Midlands which includes:

Arcam, Aiwa, Alchemist, Alphason, Apollo, Arcam, Audiolab, Audioquest, Audio Innovations, Audio-Technica, Aura, Beyer, Cambridge Audio, Canon, Celestion, Chord, Cyrus, Deltec, Denon, Dual, Epos, Exposure, Heybrook, Impulse, Infinity, KEF, Luxman, Marantz, Meridian, Michell, Micromega, Mission, B+W, Mordaunt-Short, Michaelson Audio, Monitor Audio, Monster, Musical Fidelity, Nakamichi, NVA, Panasonic, Pink Triangle, Pro-Ac, Revox, Rogers, Roksan, Rotel, Royd, Ruark, Sansui, Sennheiser, Straitwire, Systemdek, Target, Technics, Thorens, Wharfedale, Yamaha etc.

**OPENING TIMES:**  
Tues-Thurs 10.30-6.00  
Friday 10.30-8.00  
Saturday 10.00-5.00  
Demonstration by Appointment

**351 HAGLEY ROAD, EDEBASTON, BIRMINGHAM B17 8DL**  
Tel: 021-429-2811

**156/7 LOWER HIGH STREET STOURBRIDGE, WEST MIDLANDS DY8 1TS**  
Tel: 0384 444 184

**INTEREST FREE**  
(for Ltd Period) APR 0%.  
Written details on request.  
Licensed Credit Broker.  
Switch card accepted

**ELECTRO CENTRE**  
244 SOUTH RD HANBYSWORTH BIRMINGHAM  
TEL 021 554 1878 & 523-2426

**FULL RANGE OF HI-FI.**  
**PIONEER, TECHNICS, KENWOOD, JVC, SONY, AIWA, AKAI**  
Guaranteed the lowest price in the UK.  
24 Hour Mail Order Facility Available

**CREATIVE AUDIO**

9 DOGPOLE, SHREWSBURY, SHROPSHIRE  
Tel: (0743) 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, RUARK**

**WEST & WALES**

**ENGLISH audio** **BADA**

**CYRUS CENTRE**  
PINK TRIANGLE-AUDIO-SYSTEMDEK HEYBROOK MICH-KEF REFERENCE MICROMEGA-NAKAMICHI-CHORD-ARCAM-MUSICAL FIDELITY ROGERS-NAD ROTEL-DENON TANNØY-MARANTZ-MISSION-STAX-DUAL TDL-ALBARRY JPW CELESTION-IXOS-SME-RUARK MOTH-AUDIO TECHNICA-AND OTHERS  
Free installations. Credit Facilities: Service Department.

Mon - Sat 10 - 6  
95 Whitecross Road, Hereford HR4 0DG (0432) 355081

**V'Audio** 36 Druid Hill, Stoke Bishop  
Tel: 0272 686005 Bristol BS9 1EJ

TC, AVI, Acoustic Energy, Audio Innovations, AMC, Analogue Electronics, Cadence Valve, Chord Amps, Exposure, Jamo, IFD, Pink Triangle, Ruark, Michell, Rel, Sansui, SME (inc 20A), Sonic Link, Stax, Townsend, Wadia, Audio Technica, Goldring, Lyro, Ortofon, Sumiko

Demo by Appointment only. Home trial facilities.  
Free Installation, Servicing Facilities. We are not a shop.

**R&J AUDIO**

All makes of valve power and pre-amp serviced and repaired by engineer with full test facilities and over 30 years experience.

**Tel. 0934 842785 (Avon)**

**audio excellence**

**WHERE THE MUSIC MATTERS**

**Bristol** 65 Park Street Bristol BS1 5PB (0272) 264975

**Cardiff** 134/6 crwys Road Cardiff CF2 4NR (0222) 228565

**Gloucester** 58 Bristol Road Gloucester GL1 5SD (0452) 300046

**Swansea** 9 High Street Swansea SA1 1LE (0792) 474608

**TUESDAY - SATURDAY 9.00 - 5.30**  
**CLOSED MONDAY**

**ACTION GATE AUDIO**

THE HI-FI CENTRE IN **WREXHAM**

Aiwa, Albarray, Arcam, B&W, Canon, Celestion, Cyrus, Mastler, Marantz, Michell, Mission, NAD, Nakamichi, Quad, Radford, Rego, Rogers, Rotel, Ruark, Spendor, Teac, Tannoy, Thorens, Wharfedale, Yamaha  
"Yamaha cinema DSP club authorised dealer"

**4 RUABON ROAD, WREXHAM**  
Tel. 0978 364500

**EIRE**

**Peter Dand & Company Ltd**  
Established 1963

Bang & Olufsen, Quad, KEF, Thorens, TEAC, and many more!  
2 Demonstration Rooms  
2 Year Guarantee

111 Clonskeagh Road, Dublin 6  
Tel. 01035 31 269 4433

We Never Compromise On Quality

**CLONEY**

Meridian, Arcam, Classe, Philips, Rogers, Epos, B&W, Naim, Audio

55 Main St Blackrock Co Dublin  
Tel 2889449/2888477 Fax 2834887  
Open Tue/Sat 10AM-6PM, Thur/Fri 'till 9pm - Closed Monday

**FRANK HARVEY**

**Hi-Fi EXCELLENCE**

163 Spion Street, Coventry, CV1 3BB Tel: 0203 525200.  
Mon to Sat 9.30 till 5.30. Closed Thurs day

**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 - Rego - Rogers - Rotel - Target - Tripod - Tannoy - Thorens - Van Den Hul - Yamaha

**MAILORDER - EXPORT - HOME TRIALS**

**3 Floors, 3 Dem rooms, 3000 sq feet in the pursuit of Hi-Fi Excellence**

# Specialist Hi-Fi Dealers

## SOUTH

### All roads lead to Bournemouth

It's where you'll find superb Hi-Fi listening facilities, staff with expert knowledge and one of the finest selections of Hi-Fi equipment including...

LINN, DENON, YAMAHA, ROTEL, MONITOR AUDIO, NAD, MARANTZ, CREEK, ARCAM, NAKAMICHI, CELESTION, AIWA, DUAL, AUDIOLAB, QUAD, QED, WHARFEDAILE, TANNAY, SONY ES, SENNHEISER, TARGET, SOUND ORGANISATION, ADCOM, and others.

If you're serious about Hi-Fi you probably know these names and you probably already know the name Suttons... we've been around for 42 years.

**Suttons**

18 Westover Road, Bournemouth BH1 2BY. Tel: 0202 555512

MANA CASTLE ALCHEMIST ALBARRY AUDIO INNOVATIONS  
WADIA DELTEC - TUBE TECHNOLOGY

## AUDIO GALLERY

NK PETERSFIELD HAMPSHIRE

"THE UK'S ONLY MANA DEALER"

HOME DEM AUDIO SYNTHESIS ACCOUSTIC ENERGY WADIA S. MICROMEGA CDA, TDL, SUE, TEAC, VHS, 10, 10, 10, 10

FOR OPENING HOURS AND APPOINTMENTS PLEASE RING ANYTIME

KLIPSH. DECAPO & LYRA

0730 - 895194

VALVE SPECIALISTS ON A SUPERIOR LEVEL

A.M.C. - PROAC - JPW - MOTH - PINK TRIANGLE  
AUDIOALTECHNY - TEAC - NAD - TRIPOD - ALPHASON - PIONEER - DENON

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 KT11 4DA. Tel: 081-943 3530  
Open Tues - Sat 10.30am - 7.00pm.

## 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, Naim Audio, Marantz, Ruark, Audio Technica, Target, Tripod, JPW, TDL, Oreille and many more...

## GOSPEL MUSIC AUDIO

32A High st, Kington Hertfordshire. Tel: 0544 230254  
Castle Video, 1 Spa Centre, Station Crescent, Llandrindod, Wells. Tel 0597 824020

Alphason • Allison • Revolver • Luxman • Yamaha • QED • Audio Systemline • Wharfedale • Jamo • Micromega •

No appointments necessary, Home trial facilities.  
Service department. Open till 5.30 + evening demonstrations.

*the powerplant*

**BRIGHTON'S LEADING HI-FI SHOP**

Roksan, Micromega, Audiolab, Exposure, Aura, Epos, B+W, Ruark, and other fine equipment.

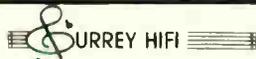
66 Upper North Street, Brighton  
Telephone 0273 775978

7 ST. PANCRAS, CHICHESTER, WEST SUSSEX CLOSED ALL DAY MONDAY  
Tel: (0243) 776402

**CHICHESTER HIGH FIDELITY**

Appointed stockists of: A+R Cambridge, Castle Acoustic, Creek, Dual, Goldring, Linn Products, Monitor Audio, Naim, Nakamichi, Quad, Rega, Rogers, Royd Audio, Spendor

## LONDON & SOUTH EAST



SPECIALIST HI-FI OUTLET  
DEMONSTRATION ROOM - PARKING  
QUAD • AUDIOLAB • SENNHEISER • BEYER DYNAMIC • TDL • TUBE TECHNOLOGY • TARGET • REL ACOUSTICS • NAKAMICHI • KEF • THORENS • MAGNUM • ROTEL • MARANTZ • DENON • MICHELL • SILVER SOUNDS • TRIPOD EQUIPMENT STANDS • TANNAY • JPW • VAN DEN HULL  
'LUMLEY REFERENCE IN STOCK'  
Just 2 minutes off Junc. 6 M25 (A25)

**GODSTONE 0883 744755**  
45 High St., Godstone, Surrey RH9 8LS

AUDIO CONCEPT

27 BOND STREET, EALING  
LONDON W5 5AS

TEL. 081 - 567 8703

Acoustic Energy, Aura, Audiolab, B&O, B&W, Canon, Castle, Cyrus, Denon, Daul, Evolution, JBW, Marantz, Mission, Monitor Audio, Musical Fidelity, NAD, Nakamichi, Onix, Quad, Rogers, Rotel, Systemdek, Target, teac, Thorens.

Two demonstration rooms.  
Free local delivery and installation.  
Repairs and Services

## TUNE INN

**BUYING?**  
THREE THINGS MATTER  
QUALITY! PRICE! SERVICE!  
HUGE STOCK OF FULLY GUARANTEED USED HI-FI AT A FRACTION OF NEW COST

**SELLING?**  
CALL NOW TO SELL OR PX ALL HI-FI, AUDIO, TV AND VIDEO (COLLECTION ARRANGED)

CREDIT CARDS ACCEPTED. FINANCE ARRANGED (WRITTEN DETAILS ON REQUEST)

TO BUY, SELL, OR PART EXCHANGE. CALL:  
MON-SAT 10.00am - 6.30pm  
**081-698 4446**  
124-126 ST. MILDREDS ROAD,  
LONDON SE12 0RG

**studio 99**

79/81 Fairfax Road  
Swiss Cottage  
London NW6 4DY  
071 624 8855/6  
Mon-Fri 10-7 Sat 10-6

Front End Problems?  
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**

**Spaldings**  
ESTABLISHED IN SOUND

081-654 1231/2040  
352/4 LOWER ADDISCOMBE RD., CROYDON, SURREY

"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!

**BADA**

## Seas Hi-Fi Speakers

Top quality chassis units for DIY and replacement 4" to 10" Bass, Bass-Midrange, soft and Metal Dome Tweeters, Midranges etc.

**HENRY'S**

404, Edgware Road, London W2 1ED  
Tel 071 724 3564 Open 6 Days a week.

## The Hi Fi Shop

GUILDFORD'S SPECIALIST SINCE 1950

We are at:-

3 BRIDGE STREET, GUILDFORD

(By the traffic lights - next door to Alfred Marks)

0483504801 • 0483 304756

Access • Visa • Switch

Open Monday-Saturday 9am-6pm (later by appointment)

## The Cornflake Shop

(071) 631 0472 Fax (071) 436 7165 Multiroom (071) 323 4554  
37 Windmill St London W1P 1HH

(Just off Tottenham Ct Rd, south of Goodge St)

The Most Amazing Sound for your budget, with our famous service, also catering for Multiroom & AV

ATC, AVI, ARCAM, NAIM, REGA, ROKSAN, MERIDIAN, LINN, DYNAUDIO, ROYD, DNIM, EPOS AURA ROTEL NAKAMICHI, JPW

## HI-FI & COMPONENTS

84 Battersea Rise SW11 1EH

WHAT HI-FI BEST BUYS in stock as well as those hard to find accessories and stylis

Established 29 years

Tel & Fax No 071 - 223 1110

All major Cards accepted

BRANDS STOCKED:

DENON • TANNAY • NAD • ROTEL • BOSE • DUAL • QED • WHARFEDAILE • CELESTION • KENWOOD • ORTOFON • INFINITY • SHURE

TEL: 071 223 1110

## EAST

**The Audio File**

27 HOCKERILL STREET, BISHOP'S STORTFORD, HERTS.  
TEL: 0279 506576  
2 FOUNDRY WALK, MARKET HILL, ST. IVES, CAMBS.  
TEL: 0480 66123

**BADA**  
THE ULTIMATE IN SOUND ADVICE

# Specialist Hi-Fi Dealers

## EIRE

**CLASSIC AUDIO**  
  
**REAL HI-FI**  
 DOLBY PRO LOGIC AND SURROUND  
 A.V. SPECIALIST  
 4 Cathal Brugha St., Dublin 1. Tel: 745910

**Acoustic Dimension**  
  
 AVI • ATC • AUDIO INNOVATIONS • ACOUSTIC  
 ENERGY • MICROMEGA • AUDIO NOTE • LFD •  
 REF 3A • IMPULSE • JPW • TDL PROJECT •  
 PRO AC • TRIANGLE • RUARK • ROTEL •  
 MARANTZ • DPA • APOLLO •  
 Now ex demo equipment.  
 Credit card accepted.

## NORTH

**ASTON AUDIO HI-FI SPECIALISTS**  
  
 YAMAHA HOME CINEMA •  
 CELESTION • CREEK • BOSE •  
 MONITOR AUDIO • B&W • AIWA •  
 AURA • MUSICAL FIDELITY •  
 A&R • CURUS • SENSHEISER •  
 MARANTZ • DUAL • DENON •  
 QUAD • NAD • TECHNICS •  
 SPENDOR • MISSION • SME •  
 NAKAMICHI • AUDIO LAB •  
 ROGERS • AUDIOQUEST •  
 KEF • MORDAUNT SHORT •  
 MERIDIAN • BILTET •  
 ROKSAN • ARCAM •  
 4 WEST STREET • ALDERLEY EDGE •  
 CHESHIRE • TEL: 0625 582704 •  
 INTEREST FREE CREDIT

**THE HI-FI STUDIOS**  
  
 HEYBROOK, MONITOR AUDIO, ART AUDIO VALVES, DUAL,  
 SUGDEN, ALPHASON, TDL, MICHELL, ACOUSTIC ENERGY, TEAC,  
 A&R, AURA, ORIGIN LIVE, SYSTEMDECK, EPSILON, SHURE,  
 AUDIO TECHNICA, GOLDRING, ALBARRY AND OTHERS FROM  
 THE COMPANY THAT CARES FOR CUSTOMERS.  
 DEMONSTRATION IN OUR LISTENING ROOMS OR AT HOME  
**SUNNYFIELD, DONCASTER**  
 Tel: (0302) 781387

**ACTION ACOUSTICS**  
 Products Include: Acoustic Energy,  
 Albarray, Croft, Denon, Harman Kardon,  
 Michell, Pink Triangle, Revox, Rogers,  
 TDL, Thorens etc.  
 Demonstration and Credit Facilities  
 available  
 155-157 High St., Redcar, Cleveland.  
 Tel: 0642 480723

**AUDIO COUNSEL**  
 HI-FI SPECIALISTS  
 LINN, NAIM, ARCAM, ROYD, JBW,  
 NAKAMICHI, ROTEL, CELESTION, CREEK,  
 DENON, MARANTAZ and many more....  
 Also full service facilities, AV • dem room  
 and multi - room installation.  
 12/14 Shaw Road, Oldham OL1 3LQ  
 Tel. 0611 633 2602

**MS MONITOR SOUND**  
 HI-FI VIDEO + TV  
 ■ TECHNICS ■ SONY ■ PIONEER  
 ■ PANASONIC ■ KENWOOD ■ DUAL  
 ■ AIWA ■ CASTLE ■ QUAD ■ B&W  
 ■ MARANTAZ ■ SPENDOR ■ ARCAM ■ ROTEL  
 ■ WHARFEDALE ■ DENON ■ YAMAHA ■ TANNOY  
 ■ PHILIPS CD ■ CELESTION ■ ROGERS ■ MORDAUNT  
 SHORT ■ MONITOR AUDIO ■ JPW ■ TDL ■ AND MANY MORE  
 BIG DISCOUNT • TWO YEARS GUARANTEE ON HI-FI  
 EXCELLENT COMPARATOR DEMONSTRATION  
 PRIVATE LISTENING ROOM • FREE HOME INSTALLATION  
**CHORLEY (0257) 271935**  
 54 Chapel Street, Chorley

## REPAIRS & D.I.Y.

**RATA**  
  
 Edge Bank House, Skelmergh, Kendal,  
 Westmorland, LA8 9AS  
 Telephone: 0539 823247

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.

### New 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: Audio Research, Celestion, KEF, Krell, Linn, Marantz, Meridian, Naim, Nyltech, Pioneer, Quad, Leak, Radford, Rotel etc....

Send now for full details and a copy of our 1993 Audiophile Components Catalogue No. 2.

To cover postage Europe 5 x IMCs, World 9 x IMCs, or quote your credit card number (Visa or Mastercard only). UK - free.

## STRAD

Traditional Audio

"Classic Loudspeaker Enclosures  
 Handcrafted from Authentic Blueprints"

Thomas Henry Wostencroft,  
 29 Meadowfield, Whaley Bridge,  
 Stockport, Cheshire

Tel: 0663 733383

## Lockwood Audio

Tel: 081-207 4472 Fax: 081-207 5283

WE BUY AND SELL  
 NEW, USED AND VINTAGE  
 SPEAKERS, DRIVERS, CABINETS, PARTS.

SPEAKER REPAIRS  
 THE

Authorised **TANNOY** Specialist

MAJOR CREDIT CARDS WELCOME  
 IMPERIAL STUDIOS,  
 MAXWELL ROAD,  
  
 BOREHAMWOOD, HERTS. WD6 1WE

**VINTAGE AND VALVE HI-FI**  
 Haden Boardman buys, sells, modifies & repairs all vintage hi-fi equipment.  
 Always quality hi-fi available, new and secondhand. Advice is free, phone if just for a chat. Credit cards accepted. New equipment by Croft, E.A.R. Richard Allen - more coming soon!  
 Quick worldwide delivery, callers by appointment.  
 Sorry but we are unable to answer queries in writing.  
**Audio Classics**  
 GARRARD 301/401 IN STOCK Tel: (0942) 57525 8 Lower Mill Lane, Hindley, Lancs WN2 3AF  
 7 days a week Fax: (0942) 525861

## Audio Components Catalogue

Everything for the DIY audiophile!  
 D/A Converters, Digital Filters and Interface IC's, Audiophile Op-amps, Capacitors, Resistors, Boxes, Optical devices/leads, Crystals.  
 Kits for Power Amplifiers, DAC's etc.

Send today for our free catalogue of components, kits and application advice!

Norwood Electronics, Unit 8, Pinbush Rd, South Lowestoft Industrial Estate, Lowestoft, Suffolk, NR33 7NL.

Most listening rooms only allow systems to achieve 50-60% of their full potential, and some only 30-40%.

Why put up with inferior performance, when with the help of

## Room Acoustics Services

You can achieve close to 100% Full details, reviews etc., of our computerised postal consultancy available from:-

ROOM ACOUSTICS SERVICES  
 3, Queen Elizabeth Way, Barton-upon-Humber  
 South Humberside, DN18 6AJ Tel. (0652) 635523

## READERS!

Do you want to sell your second-hand goods, or are you looking for that special bargain?

Advertise in the cheaper and bigger Readers Classifieds section in Hi-Fi World.

### SPECIAL OFFER!

Now you can advertise in the Classified section for only **£10 (incl. VAT)**.

Maximum length is thirty words; each additional word 50p extra.

**NEW!**  
 Display ads -  
 2cm box,  
 £15 (incl. VAT)

Book your ad. for two consecutive months - we'll give you the second month's insertion free!

(This offer does not apply to Trade Advertisers.)

Specialist Hi-Fi Dealers who wish to advertise on these pages, contact  
**Caroline Knott, Advertising Executive**  
 AUDIO PUBLISHING Ltd.,  
 64 Castellain Road, Maida Vale,  
 London W9 1EX

Telephone: 071-266 0969

# Back Issues

## HI-FI WORLD BACK ISSUES ORDER FORM

Please tick the box next to the issue(s) you wish to order

- September 1991 ..... £2.00
- October 1991 (incl. CD) ..... £2.00
- December 1991 ..... £2.00
- January 1992 ..... £2.00
- March 1992 ..... £2.00
- June 1992 ..... £2.00
- September 1992 ..... £2.00
- October 1992 ..... £2.00
- December 1992 ..... £2.00
- January 1993 ..... £2.00
- February 1993 ..... £2.00
- March 1993 ..... £2.00
- May 1993 ..... £2.00
- June 1993 ..... £2.00
- July 1993 ..... £2.00
- August 1993 ..... £2.00
- September 1993 ..... £2.00

Total no of issues ordered ..... Total price .....

We are now offering back issues of Hi-Fi World. Unfortunately, all issues prior to September 1991 are completely sold out, but subsequent issues are available for £2.00 including postage and packaging. Issues with Compact Discs (Oct.'91) are now available for £2.00.

(Overseas add £1.00 p+p for every two issues UK p+p free)

I enclose cheque/PO for £ ..... made payable to **Audio Publishing Ltd.**  
I wish to pay by Visa/Access, please debit my account no:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Expiry date: 

--	--	--	--

Name .....

Address .....

.....

.....

Post Code ..... Tel: .....

Please send completed order form together with your cheque/PO to:  
**HI-FI WORLD, 64 Castellain Road, Maida Vale, London W9 1EX.**

# Subscriptions

## 12 ISSUES FOR ONLY £22 (UK only)

### HI-FI WORLD SUBSCRIPTION FORM

Please send me the next 12 issues of Hi-Fi World, starting with the \_\_\_\_\_ issue.  
I enclose my cheque/postal order for £22 (UK only) made payable to **Audio Publishing Ltd.**

Name .....

Address .....

.....

Daytime Tel No: .....

Please debit my VISA/ACCESS Card No:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Expiry Date: ..... Tel: 071-266 0461

Send to: **Audio Publishing Ltd., 64 Castellain Road, Maida Vale, London W9 1EX.**

Overseas subscription rates.

Surface Mail: £29.

Airmail: £42 (Europe & Middle East),

£62 (Australia & Japan).

Airmail

Surface Mail (tick as appropriate)



E&OE

# U.S. & Canadian Subscriptions



## Hi-Fi World

P.O. Box 754, Manhasset, N.Y. 11030 - 0754  
Telephone: 516 627 3836 Fax: 516 627 1972

I wish to subscribe right now - and receive monthly copies of Hi-Fi World Air Speeded direct from the Publisher in London U.K. to the N.Y. Office

I enclose my payment to :- FRJ/Hi-Fi as checked below  
1 Year - 12 Issues \$66 (U.S.)

U.S. FUNDS ONLY PLEASE - Add \$10 U.S. for Canada.

OR

Please charge my Credit Card with the amount indicated.  
(All major Credit Cards accepted)

No: 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Expiry Date: 

--	--	--	--

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

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

\_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Or Telephone:

516 627 3836

Or Fax:

516 627 1972

# WIN ROSE AMPLIFIERS

## COMPETITION ENTRY FORM

- 1) The Rose RV-23S pre-amp was launched how many years ago?
 

<input type="checkbox"/> 2	<input type="checkbox"/> 3
<input type="checkbox"/> 4	<input type="checkbox"/> 5
<input type="checkbox"/> 6	
  
2. The Rose RP-190 delivers how many watts per channel as a stereo amplifier?
 

<input type="checkbox"/> 39	<input type="checkbox"/> 50
<input type="checkbox"/> 78	<input type="checkbox"/> 100
<input type="checkbox"/> 156	
  
3. The Harman Kardon LS 0300 loudspeakers use what brand of tweeter?
 

<input type="checkbox"/> Tonigen	<input type="checkbox"/> Audax
<input type="checkbox"/> Peerless	<input type="checkbox"/> Morel
<input type="checkbox"/> Soft Dome	
  
4. The Harman Kardon loudspeakers were compared favourably with what other loudspeaker in our test?
 

<input type="checkbox"/> Heybrook Quartets	<input type="checkbox"/> Heybrook Sextets
<input type="checkbox"/> Heco Cantatas	<input type="checkbox"/> Harbeth LS3/5a
<input type="checkbox"/> Helius Sirius V	

### THE TIE BREAKER (Obligatory)

Complete the following ditty in no more than thirty words:

Roses are red  
 Harman Kardon's are yellow,  
 if I win the prize  
 I'll hear it sound mellow

---

---

---

---

---

---

---

---

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Postcode \_\_\_\_\_

Daytime Tel.No: \_\_\_\_\_

Evening Tel. No: \_\_\_\_\_

Our prize this month is the Rose pre and power amplifier combination, along with the Harman Kardon LS 0300 loudspeakers which graced the cover of our November 1993 issue.

Although the Rose RV-23S pre-amplifier has been around for some time now, five years to be precise, Rose have only just launched the matching power-amp to complete the combination.

The pre-amp is a valve/transistor hybrid with a facility for bi-amping, switchable Moving Magnet/Moving Coil phonos, and four line-level inputs as well.

The RP-190 power amplifier on the other hand, is a pure transistor device which delivers 78w into an 8ohm load, has two pairs of 'speaker outputs for bi-wiring, and can also be used as a monoblock, in which mode it will deliver 100watts.

Reviewing them together, Dominic Baker mentioned the "large, solid and believable soundstage with plenty of atmosphere" which he heard from this amp combination, as well as its general sound, which he said was "relaxed and easy to listen to, with a clear and open midrange and a delicately detailed treble" and a bass which is "rich, smooth, big and flows out across the carpet to engross you".

The Harman Kardon 'speakers, the LS 0300s are, at first glance, uninspiring boxes, being finished in black ash veneer with a matching black cloth grille. However, remove the grille and the bright yellow Audax drive units shine out like a beacon, below a soft-dome tweeter which is also an Audax unit.

Wire them up, and you will find the sound follows the colourful glassfibre bass/mid unit, having a lively and sunny character.

Dominic reviewed these as well, saying that "they produced a large, full-bodied sound that would push outwards to fill all four corners of a room", and compared them favourably with the Heybrook Quartets, which retail at twice the price of the LS 0300s!

That's the system you'll be competing for: Rose RV-23S pre-amplifier, RP-190 power amplifier and a pair of Harman Kardon LS 0300 loudspeakers. So if you want to upgrade your system, sharpen up your pencils and get writing!

# AND HARMAN KARDON SPEAKERS

competition



Please send your entry form, completed in block capitals, to arrive no later than Friday 10th December to:

**ROSE/HARMAN KARDON  
COMPETITION**  
Hi-Fi World Magazine,  
64 Castellain Road,  
London. W9 1EX.

In the event of more than one entrant submitting all the correct answers, the winner will be decided with a tie breaker. We will endeavour to publish the results in the February '94 issue. Audio Publishing Ltd. reserve the right to publish such entries or parts of entries as the company sees fit. We regret that photocopies or facsimiles of the entry form cannot be accepted. No correspondence about this competition will be entered into and the Editor's decision is final. Employees of Rose Industries, Harman Kardon, and Audio Publishing Ltd may not enter ●

## Audio Visual System Delivery July Issue Competition

Mr Graham, of Cheltenham, Gloucestershire, took delivery of his prize from our July competition, a Kenwood/Celestion audio visual system recently. It's something of a double prize; we hope he enjoys listening to AND watching it.

## Morel Bassmaster Winner September Issue Competition

The lucky winner of our competition in the September issue, the prize for which was a pair of Morel Bassmaster loudspeakers, was Mr J Clarke of Milton Keynes. We hope he'll enjoy listening as much as we enjoyed reviewing them!

# The Music Pages

## INDEX

### RECORD REVIEWS

ROCK & POP ..... 65

*Giovanni Dadomo*

CLASSICAL..... 71

*Peter Herring*

JAZZ ..... 78

*Simon Hopkins &*

*Simon Cooke*

RECORD MAIL ORDER .... 92

## *Giovanni Dadomo*



**THE WONDER STUFF**  
*Construction For The Modern Idiot*  
 POLYDOR 519854 2

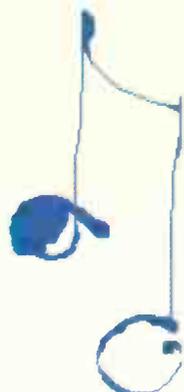
● The Wonder Stuff's fourth long-player re-unites them with Pat Collier, who produced their first two albums, but if that might at first suggest they're trying to capture old glories, this is being more than unfair to their previous disc, the frequently sublime 'Never Loved Elvis'. Perhaps that's the key word; 'frequently'.

'Construction' is frequently, if not totally, inspired; i.e. it's still not the classic disc this special conglomerate have always threatened to come up

with since their early singles and debut LP: 'The Eight Legged Groove Machine'. Still, Miles Hunt and Co. are now established as one of our leading pop combos, and this latest offering will be no major disappointment to their - no doubt ever-expanding - fan base. Items like the zip-zip-zippy 'Cabin Fever', or the righteously angry 'I Wish Them All Dead' (a rant against a U.S. paedophile group) have all the fire and energy that made the band stick out in the first place, all this allied with an ever-deft way with a tough and memorable tune, while 'Full Of Life (Happy Now)' and 'Storm Drain' are among the best songs The Who and The Jam never wrote.

On the other hand, there's a tendency towards the tried and tested that's a mite disappointing to the more discerning listener - 'Hush' has all the WS trademarks but still comes dangerously close to self-parody, while by comparison, 'Swell' is both typical and exhilarating at the same time.

But is this enough? It can be no accident that the standouts here include 'A Great Big Drinker', Hunt's tribute to writer Charles Bukowski, with its strong hint of what used to be called Swamp Rock, or the closing 'Something For Sammy', all lonesome violin and sparse arrangement. Shame it's so short. Still, the great majority of Wonder Stuff fans should be more than pleased with most of the new record. For my part I think I'd get more lasting wear and fun from one of those 'IDIOT' T-shirt's Miles Hunt wears all the time these days. Is he trying to tell us something?



## RECORD OF THE MONTH

### THE LEMONHEADS Come On Feel The Lemonheads

Atlantic 7567 82537-2

● There can be no doubt by now that Lemonheads' singer/writer Evan Dando is 'Rock '93 Man Of The Year', pipping even Nirvana's Mr. Cobain at the post (anyway, he got his gold star in '92) and this latest disc more than confirms the power, not to say the sheer pop brilliance of the man's work.

You should, I hope, be well familiar with this band by now, particularly after their previous album/singles chart incursions with 'It's A Shame About Ray' and the cover of Paul Simon's 'Mrs Robinson', not to mention the fact that Dando's been on every pop rag cover umpteen dozen times lately with his tales of decadence and dismay.

What really matters about Evan Dando is that he writes damn good songs, and there's a plethora of them on this new disc. There's the Belinda Carlisle-assisted 'I'll Do It

Anyway', all lovely and loveable in extremis chorus, delicate lead guitar and chugging bubblegum rhythms - one of several cautionary tales - or



the wry meditation on fame and celebrity (of all sizes - dig the bit about the cigarette girl!) that is 'Paid To Smile'.

Dando's much-touted admiration for great lost country-rock pioneer Gram Parsons is more than obvious on the instant cowboy classic 'Big Gay Heart', featuring former GP sideman 'Sneaky' Pete Kleinow and his, as

usual, magnificent pedal steel work, but my own personal favourite is 'Style', a wry bit of rebel-rock that comes in two versions, one all-

rockin' thrash guitars and blitzing drums, the other a slow-burning sex'n'soul variation that's all smouldering keyboards and including contributions from Mr. Sex'n'Soul himself, Rick James. These are neat, amusing little throw-aways like 'Lemon' ("If I was a fridge/ Wouldya open the door? If I was a booger/ wouldya blow your nose?" etc) which sounds like Evan's been listening to early Dylan, or 'Favourite T', a love song about a shirt whose owner's

moved on. 'Down About It' is the band at their fastest and most rousing, 'It's About Time' shows them at their jingly-jangly best.

If you loved '...Ray', this will send you to heaven; if you've missed both, you're in for some treats. Get hip to The Lemonheads and be reminded how joyful, uplifting, and how sheerty life-enhancing popular music can be. Oh yeah!



### TEENAGE FANCLUB Thirteen

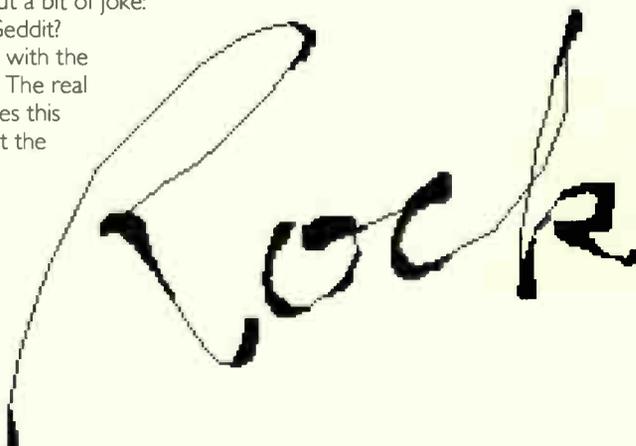
CREATION CRECD 144

● 'Bandwagonesque', the previous (and second) LP from Scots quartet Teenage Fanclub was my - and a lot

of other people's - fave pop disc of its time. Now, at long last, comes the follow-up. 'Thirteen' is not, as some hacks have had the gall to suggest, a deliberate reference to all-time TFC faves Big Star (who had a song of the same name) but a bit of joke: ie third-teen. Geddit?

But enough with the jesting already! The real question is, does this third outing cut the proverbial mustard? For me, at least, that's a hard one to answer, because where 'Bandwagonesque' was a record

that one loved and continues to love track by track almost from the word go, this latest effort takes a few hearings before it truly begins to become



# Rock & Pop

more than a round thing with a hole in it, and starts to assume the status usually accorded to a good friend and/or member of the family.

Which is a long-winded way of saying that it's what we hacks usually refer to as a "grower".

By having the bare-faced effrontery to begin their third long-player with a direct steal from Marc Bolan, TFC certainly sound like old pals dropping in after a long absence; but that's just by the by, because a few seconds in we're on more familiar Fan Club territory, characterised by a strong if frugal melody and sweet, sweet harmonies simply drenched in references to, among others, The Byrds and the aforementioned Big Star. 'The Cabbage' (great title, wot?) is pure Byrds-sing-Dylan circa 1966, while the dandelion-delicate harmonies of '120 Minutes' are *as close as this* to the aforementioned Big Star, but I have neither the time nor the inclination to resurrect the old chestnut about imitation vs. derivation. The question is: 'does it work?'

In Teenage Fanclub's case, it can, and 'Bandwagonesque' (a telling title if ever there was one) is the proverbial proof of the pudding. But, 'Thirteen' is by no means as instantly effective throughout as its glorious predecessor, so it would be crass and cruel in the extreme to come to any snap judgements where this new offering is concerned, and anyway - as Ben Elton recently observed - comparisons are odorous.

Which brings us none too neatly to the actual musical content of 'Thirteen' which is, after all, the only thing that really matters. The short and leisurely 'Song To The Cynic', the movingly fragile 'Norman 3' or 'Tears Are Cool', with its hint of country, are Teenage Fanclub doing what they, and only they, do best. There may be a few instances of overwhelming melodrama, but this remains a record packed with cool power and feeling. Who could ask for very much more?



## TINDERSTICKS Tindersticks

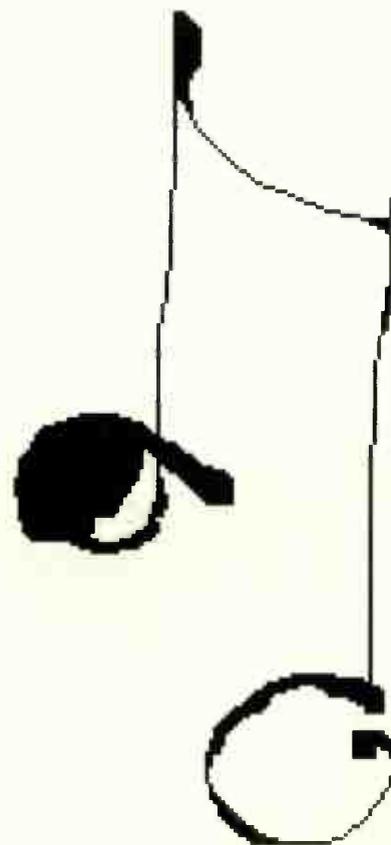
This Way Up LP518306 2

● A motley crew with its half dozen members hailing from as far afield as Birmingham, London, and Nottingham, Tindersticks have just completed a support slot on the recent Nick Cave and the Bad Seeds tour. They've just had a few self-made singles out (all to over-the-top critical acclaim), but this budget price double album (at single price for vinyl and cassette versions, while the CD comes in at under a tenner) is their widescreen debut. Principal writer/singer and co-producer Stuart Staples is the main man here, and he has the sort of rich, dark, voice that can't help but be evocative and atmospheric. A sort of introspective, moody, JJ. Cale for the nineties. The only real disadvantage here is that, with the densely moody production added, it's all but impossible to work out what Tindersticks are actually singing about ninety per cent of the time. Is it me, or do they really have a PJ Harvey-esque thing about blood ('Tie die' for example, with its spooky violin fills, appears to be about a T-shirt soaked in blood and then tie-dyed.)? While it's any pervert's guess what the tellingly-titled 'Jism' is actually concerned with.

That said, this is a distinctive - nay, all but totally original - debut from a discreetly powerful outfit whose music is atmospheric in the extreme (Cue Nick Cave and the Bad Seeds, who the group recently supported on a UK tour and with whom they share

both a strong individual stamp and a tendency to be, ahem, serious). For my money Tindersticks' closest rivals are New York's Swans or - in the vocal department - Guy Kaiser of the unjustly neglected Thin White Rope. All combos related by their dense, moody sparseness of content and context.

This said, Tindersticks remain responsible for some of the freshest, most strikingly original sounds to hit my deck in an age, dense, dark, and eerily evocative, and there are wild bits too. All the more shocking for their sudden appearance in a primarily sombre and gloomy canvas. Thus the wildly thrashing organ, guitar, and keyboards of the innocently-titled 'Milk Teeth' are shockingly at total loggerheads with items such as the tensely moody 'Drunk Tank', or the jagged instrumentalities which make up 'Tea Stain', while the alternate English/Spanish narratives of the spoken word item 'Paco De Renaldo's Dream' make it a worthy addition to that small but chilling catalogue of weird tales including Lou and the Velvet's 'The Gift', The Door's 'Horse Latitudes' and other greats. Something special is happening here, discerning ears please note.



# Classical

Peter Herring

**Choral and chamber music predominate this month, with more Bruckner from the Corydon Singers, and generous helpings of quartets and quintets from both Brits and Bohemians. There's also some seasonal Bach, and a reissue of some evergreen Elgar.**



## JOHANN SEBASTIAN BACH

Weihnachts-Oratorium (Christmas Oratorio) BWV248

Lynda Russell, soprano; Catherine Wyn-Rogers, contralto; Mark Padmore, tenor; Michael George, bass; The Sixteen; Orchestra of The Sixteen; conductor, Harry Christophers

**COLLINS CLASSICS 70282 (2 CD SET) (DDD/147.38)**

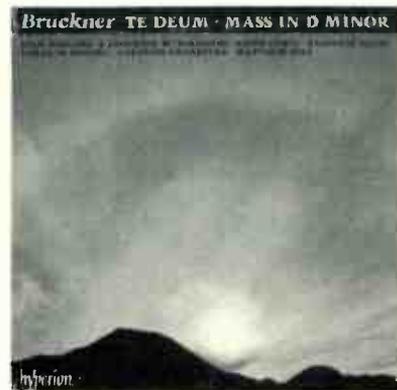
● The Weihnachts-Oratorium was first heard in Leipzig during Christmas 1734 but, unlike today, when we would expect a single performance, its six sections (effectively six separate cantatas) were each performed on

different days. The first three cantatas would have been heard between December 25 and 27, the fourth on the Feast of the Circumcision (January 1), the fifth on the first Sunday of the new year, and the last on the Feast of the Epiphany (January 6).

The Christmas Oratorio (and those for Easter and Ascensiontide) is therefore a quite different musical animal from other oratorios such as Handel's Messiah or Haydn's Creation. It is akin to the Passions but, given the subject matter, is naturally of a different temperament. The work abounds in exuberant choruses, sparkling instrumental writing, delicious solos, such as that for oboe in part four, and in glorious opportunities for the vocal soloists to shine which, in this recording, they most assuredly do.

Mark Padmore is an excellent Evangelist, Michael George a weighty Herod, and Libby Crabtree a quite delightful Angel. The choral singing, as you would expect from Harry Christophers' team, is first-class. Overall, this is a performance of lightness and freshness, more attuned to the tenderness of the music than its exuberance. I miss the joyousness which characterises John Eliot Gardiner's performance on Archiv. Which is not to say this performance plods; far from it. The rhythms are well-sprung and finely-judged, it is just that the approach is a little more sober than Gardiner's.

However, I should add that I listened with increasing pleasure as the performance unfolded; it unquestionably brings out the beauty of the music and is very well recorded, and, like the Gardiner set, this Collins Classics issue has the advantage of coming on just two CDs. With its well-produced accompanying booklet (a full translation is provided). Harry Christophers' view of Bach's yuletide celebration is well worth considering if you are seeking to add this seasonal offering to your



collection.

## ANTON BRUCKNER

Te Deum/Mass in D minor

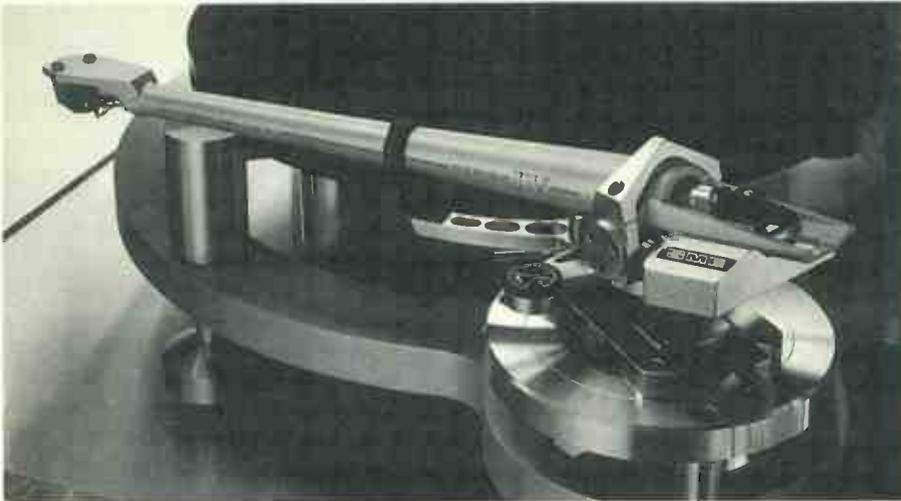
Joan Rodgers, soprano; Catherine Wyn-Rogers, alto; Keith Lewis, tenor; Alastair Miles, bass; James O'Donnell, organ; Corydon Singers; Corydon Orchestra; conductor, Matthew Best

**HYPERION CDA66650 (DDD/67.27)**

● There are few more awe-inspiring or thrilling openings in music than the first bars of Bruckner's Te Deum, and the Corydon Singers' new recording conveys the majesty of the moment as well as, if not better than, any other I have heard. This standard is maintained throughout, culminating on the mighty double fugue on 'In te Domine.'. Matthew Best, founder and director of the Corydon Singers, expects his singers not only to understand the literal meaning of the texts they perform, but what the words imply and convey, which is perhaps why a moment such as 'Patrem immensae majestatis' (The Father of infinite majesty) simply takes the breath away here.

Bruckner began work on the Te Deum in 1881 but laid it to one side in order to concentrate on his Seventh Symphony. He returned to it in earnest in 1883 and evidently had a special affection for the work: he once remarked, "When God finally calls me and asks 'What have you done with

# Doug Brady Hi-Fi



Hear the superb range of SME tonerarms and the model 20A turntable at Brady's, along with other analogue products from pink Triangle, Michell, Systemdek, Project and Roksan

Kingsway Studio,  
Kingsway North,  
Warrington,  
Cheshire  
(0925) 828 009  
Open six days  
Fax: (0925) 825773

40 Smithdown Road,  
Liverpool L15 3JJ  
Merseyside  
(051) 733 6859  
Closed on  
Wednesday

14/18 Monmouth Street,  
CoventGarden,  
London WC2H 9HB  
(071) 379 4010  
(071) 497 1346  
Open seven days  
Fax: (071) 497 9205

The Forge Cottage,  
19 Crossgate,  
Otley, Leeds,  
West Yorks  
LS21 1AA  
(0943) 467 689  
Closed Sun. & Mon.

## EAR



*Designed by Tim de Paravicini*

*"The EAR is certainly powerful, precise, detailed and vivid. In common with other Paravicini designs, it has a very tight grip on every kind of music."*

Eric Braithwaite, Hi-Fi World, February 1993

*The EAR834: 40 watts of pure music power, six line level inputs, precision engineered for a lifetime of enjoyment.  
£1295*

*Esoteric Audio Research*  
Unit 11, Stukely Meadows, Huntingdon, Cambs. PE18 6ED  
Tel: 0480 453791

# Hi-Fi World Dial-a-Dealer

## AVON

**AUDIO EXCELLENCE** 'Where the music matters', 65 Park Street, Bristol BS1 5PB. Tel. 0272 264975 Fax 0272 251327. Great Hi-Fi carefully selected and demonstrated by friendly enthusiastic staff. Home installations and check-ups. Two year warranty from our own service department. Open 9.00-5.30 Tuesday - Saturday closed Monday.

**PAUL GREEN HI-FI LTD.** Kensington Showrooms, London Road, Bath, Tel. (0225) 316197. Musical Fidelity, Krell, Creek Rogers, Quad, Cust. car park. Best selection in the West.

**VAUDIO**, 36 Druid Hill, Stoke Bishop, Bristol, B59 1EJ. Tel. 0272 686005. ATC, Acoustic Energy, Ruark, AVI, Exposure, Pink Triangle, Wadia, Audio Innovations, SME (incl 20A), Chord Amps, Michell, AMC, Analogue Electronics, Cadence Valve, Jamo, LFD, REL, Sansui, Sonic Link, Stax, Townsend, Audio Technica, Goldring, Ltra, Ortofon, Sumiko. Demos by appointment only. Home trial facilities, free install, service facilities.

## BEDFORDSHIRE

**SOUND DEALS**, 52 Shortmead Street, Biggleswade, Beds. SG18 0AP. Tel 0767 312249. Fax 0767 315714. Private listening rooms. Audio/Visual demonstration room. Free delivery and installation. Part exchange welcomed. Pre-owned equipment available. Top tape agents. All major credit cards accepted. Credit facilities (including interest free) STS

Agencies include: AR, Alphason, B&W, Castle, Celestion, Denon, Heybrook, KEF, Marantz, Mantecore, Nakamichi, NVA, Pioneer, Ortofon, Rotel, Ruark, Sequence, TDL, Teac etc..

## BERKSHIRE

**NEWBURY AUDIO**, 2 Weavers Walk, Northbrook Street, Newbury, Berks. RG13 1A1. Tel. 0635 33929. Linn, Creek, Epos, Denon, Nakamichi, Shannian, Marantz, Micromega, JPW, Ruark. Single speaker dem room. Appt. necessary. Home trial facilities, free install, service dept, late appts. Access/Visa, interest free credit subject to status. 6 days 9.30am - 6.00pm.

**READING HI-FI CENTRE**, 4 Queen's Walk, Reading RG1 7DF. Tel. 0734 585463. 'The best equipment, advice and service from Berkshire's premier Hi-Fi emporium'. Products include Arcam, exposure, Audioblab, Meridian, Rotel, Sony, sennheiser, Top Tape Centre, and many more.

## BUCKS

**DEJAC HI-FI CONSULTANTS**, 21 the Broadway, Old Amersham, Bucks, HP7 0HL. Tel. (0494) 433173. AMC, Arcam, Bose, Meridian, Quad, Denon, NAD, Tannoy, Mission, TDL. 2 dem rooms. Appts necessary. Free installation, Tricity finance, instant credit, open 9.30-5.30 pm, including Saturdays.

## CAMBRIDGE

**CAMBRIDGE HI-FI**, 1-3 Hawthorne Way, Chesterton, Cambs. CB4 1AT. Tel. 0223 67773. Kenwood, Pioneer, Ariston, Kef, Technics, Yamaha, Marantz, B&W, AR, Mordaunt-Short, Bose. Single speaker dem room Tues-Sat 9.30-5.30pm. Closed Monday. Free install, service dept. Vis/Access credit facilities.

**STEVE BOXSHALL AUDIO**, 41 Victoria Road, Cambs. CB4 3BW. Tel. 0223 68305. 10.00-6.00pm 6 days. 3 dem rooms. Denon, Rotel, Yamaha, Mission, Nakamichi, Tannoy, Audioblab, Marantz, Krell, Martin Logan, Magneplanar, Wadia. Home trial facilities. Appointments preferred. Free install and service dept. Access/Visa.

**AUDIO FILE**, 2 Foundry Walk, Market Hill, St Ives, Cambs. Tel 0480 65123. Linn, Naim, Rega, Quad, Cyrus, Arcam, Musical Fidelity, 9.30am-6pm 6 days. 0% credit.

## CHESHIRE

**ASTON AUDIO**, 4 West Street, Alderley Edge, Cheshire, Tel. 0625 582704. Products include: Celestion, Creek, Yamaha, Monitor Audio, B&W, Aiwa, Aura, AKG, Musical Fidelity, Tannoy, Sennheiser, Marantz, Dual, Denon, Quad, Sansui, Technics, Spondor, Mission, SME, Nakamichi, Audioblab, Rogers, Audiocust, Mordaunt-short, Meridian, Detec, Roksan, Arcam, Kef, NAD, Cyrus and others. Discount CD and tape. Extended guarantee, interest free credit and written details on request.

**CHRIS BROOKS AUDIO**, 29 Gaskell Street, Stockton Heath, Warrington, Cheshire WA4 2UN. Tel (0925) 261212. Tues-Sat 10.00-6.00. 2 dem-rooms. credit facilities. All credit cards. Established 1978. Total absence of bull\*\*\*\*

**CONGLETON HI-FI**, 11/1a Duke St, Congleton, Cheshire, CW12 1AP. (0260) 297544. Acoustic Energy, Arcam, B&W, Denon, Epos, Linn, NAD, Nakamichi, Onix, Royd, Target, etc. Superbly appointed single speaker demo facilities. No appointments necessary, home trial facilities, free installation. 2 year guarantee on all equipment. Access, Visa. Open Mon-Sat, closed Weds.

**DECIBELS**, 12 The Bull Ring, Northwich, Cheshire, CW9 5BU. Tel (0606) 350 343. Free Home Demonstrations, Free Delivery, Free Installations. Single speaker listening room. High quality audio AND Home Cinema equipment. Second hand HiFi catalogue on show. Rotel, NAD, Yamaha, Celestion, JPW, Systemdek, Thorens, Sequence, Target, OED, Goldring plus a variety of cables and accessories. Open Mon-Sat 9-6.

**DOUG BRADY HI-FI**, Kingsway Studios, Kingsway North, Warrington, Cheshire, WA1 3NV. (0925) 828009. 'Largest choice of specialist hi-fi in NW. All credit cards 3 dem rooms. Fair demonstrations and home trial facilities. Open 6 days.

## CLEVELAND

**GILSON AUDIO LTD**, 172 Borough Rd., Middlesbrough. (0642) 248793. Linn, Exposure, Arcam, Mission, Cyrus, Denon, Marantz, Rotel, Pioneer, Audioblab, Tannoy. Demonstration facilities in main shop and one demonstration room. Appointments necessary. Home trial facilities. Free installation on request. Service department. Access, Visa, H.P. 10-5-6 days.

## CORNWALL

**ART OF MUSIC**, nr. Launceston, Cornwall, Tel. 0566 86649. AC Magnus Basis, C.A.T., Cogan Hall, Diamond Acoustics, Grahams, Groove Tubes, Lumley Reference Moth, Magnum Dynalab, REL Acoustics, Silver Sounds, Transfiguration. Dem Studio appts necessary, home trial facilities, free install, open 7 days.

## CUMBRIA

**MISONS SOUND & VISION**, 11 Warwick Road, Carlisle CA1 1DH. Tel (0228) 22620 Bang & Olufsen, B & W, Quad, NAD, Yamaha, Sony, Demo Suite. No appts nec. Home trial facilities. Free installation. Service Department 9-5.30 Mon - Fnd, Thurs 9-1, Sat 9-5.

## DEVONSHIRE

**CHELSTON HI-FI**, 38 Walnut Road, Chelston, Torquay, Devon TQ2 6HS. Tel. (0803) 606863. Denon, Marantz, Rotel, Musical Fidelity, Acoustic Energy, NAD, Castle, Heybrook, Celestion, JPW etc. Two dem rooms. Home trial. Free installation. Access, Visa, Amex, Diners, HiFi Markets Chargecard. Credit facilities. 9.30-7.30 Mon-Fnd. 9.30-6.00 Sat.

## DERBY

**STRAD TRADITIONAL AUDIO**, 29 Meadowfield, Whaleybridge, nr Buxton, Derbyshire. SK12 7AX. Tel. 0663 733383. We construct custom made reproductions of classic 1950's loudspeaker enclosure designs using authentic blueprints. These have never been bettered for valve amplification. Requests for specific designs considered and researched. Superb new speaker units from Richard Allan and Lowther are used.

**ACTIVE AUDIO**, 12 Osmonston Street, The Spot, Derby. Tel. 0332 380385. Fax: 0332 385185. We have three studios including a dedicated Audio Visual studio for the demonstration of quality equipment from the largest range in the Midlands. Open six days per week. Own service department. Free local delivery, home trial facility. Current special offers and buyers fact pack and quotation on request.

**SUTTONS HI-FI**, 18 Westover Road, Boumouath, Dorset. Tel. 0202555512. Linn, Arcam, Mission, Quad, Audioblab, Rotel, Yamaha, Denon, etc. 2 single speaker listening rooms. Home demonstrations and free installation. Mon-Sat 9.00-5.30. Call for details.

## ESSEX

**PRO MUSIC**, 6 Vineyard Street, Colchester, Essex. Naim, Roksan, Rega, Arcam, Audioblab, Creek, Systemdek, Rotel, Marantz, Denon, Shannian, Micromega, Neat, Aura, Heybrook, EPOS, RUARC, Monitor Audio, Tripod, Sound Organisation. Lots of records, 2 dem rooms. No appts necessary. Service dept. Part exchange. Finance available. 10-6 Mon-Sat.

**TWENTY 20 AUDIO VISUAL LTD.** Unit 205 Lakeside Shopping Centre, West Thurrock, Grays, Essex OM16. Tel. 0708 891818 Fax. 0708891300. For your total home entertainment requirements. From a 2" Casio to a 50" Pioneer screen. Dolby surround specialists with three dem rooms dedicated to pro-log, laser disc software in stock, from Harman Kardon. Pro logic from Yamaha, Marantz, Pioneer, Technics, Kenwood and B&O.

**RAYLEIGH HI-FI**, Chelmsford, 216 Moulsham St. 0245 265245. RAYLEIGH HI-FI, Rayleigh, 44a High Street. 0268 779762. RAYLEIGH HI-FI, Southend, 132/4 London Rd. 0702 435255.

Over 21 years experience of supplying the best. 'The best dealer, the best Hi-Fi equipment, the best service' Carefully selected Hi-Fi from: Arcam, Audioblab, Cyrus, Denon, Epos, Linn, Meridian, Mission, Naim, Nakamichi, Quad, Rega, Roksan, etc. etc. .... 3 years guarantee on Hi-Fi systems. 0% credit facilities.

**AUDIO T**, 442-444 Cranbrook Road, Gants Hill, Ilford, Essex, IG2 6LL. (081) 518 0915. Fax (081) 554 8463. Great Hi-Fi from Arcam, Audioblab, B&O, Bose, Cyrus, Denon, KEF, Marantz, Meridian, Mission, Micromega, Nakamichi, Rotel, Sony, Yamaha & many more. Mon-Sat 10-6. 3 year guarantee on Hi-Fi. Free delivery & installation. 30 day free upgrade scheme. Home demonstrations. Part exchange. 2 listening rooms. Home Cinema specialists. BADA Bonded.

## GLoucestershire

**AUDIO EXCELLENCE** 'WHERE THE MUSIC MATTERS', 58 Bristol Road, Gloucester, GL1 5SD. Tel. 0452 300046. Fax. 0452 310680. Great Hi-Fi carefully selected and demonstrated by friendly enthusiastic staff. Home installations and check-ups. Two year warranty from our own service department. Open 9.00-5.30 Tuesday - Saturday closed Monday.

**AUDIO T**, 40-42 Albion Street, Cheltenham, Gloucestershire, GL52 2RO. (0242) 583960. Fax (0242) 226435. Great Hi-Fi from Arcam, Audioblab, Denon, Epos, Linn, Marantz, Meridian, Mission, Quad, Rogers, Rotel, Yamaha, & many more. Mon-Fri 10-6. Sat 9.30-5.30. 3 year guarantee on Hi-Fi. Free delivery & installation. 30 day free upgrade scheme. Home demonstrations. Part exchange. Single speaker listening room. BADA Bonded.

## HAMPSHIRE

**AUDIO GALLERY**, Near Petersfield, Hampshire. Mana, Castle, Alchemist, Albany, Audio Innovations, Wadia, Detec, Tube Technology, Denon, Pioneer, Alphason, Tripod, Nad, Teac, Audio Alchemy, Klipsch, AMC, Proac, JPW, Moth, Pink Triangle. Mail order cabinets supplied to order in any size, wood & hand painted finishes, stone-granite-marble sheving. For a demonstration with home comforts call for an appointment on: 0730 895194.

**AUDIO SOUTH**, 24 (The Woolmead) East Street, Farnham, GU9 7TT. (0252) 714 555. Audio Innovations, Audio note, Detec, JPW, Marantz, Rotel, Teac, Voyd, HiFi and audio visual dem rooms. Evening appts available. Home trial facilities. Free installation. Access/Visa. 10.30-6.30 Mon-Sat. Closed Tuesday.

**HOPKINS HI-FI**, 'FOR THE BEST SEAT IN THE HOUSE' experience home cinema sound with Technics, Denon and Kenwood. Award winning products. Now on demo at HOPKINS HI-FI, 38-40 Fratton Road, Portsmouth, Hants. PO1 5BX. Tel. 0705 822 155, Fax. 0705 830 753

**JEFFRIES HI-FI** (Portsmouth) 29 London Road, Portsmouth PO2 0BH. Tel (0705) 663604. Individual dem rooms. Full credit facilities, late night Wednesday, Closed Mondays.

**HAMPSHIRE AUDIO LTD.**, 2-12 Hursley Road, Chandlers Ford, Hants SO5 2FU. (0703) 252827/265232. 3 hiFi and 2 home cinema/surround sound dem studio's. Thurs late evening, closed Mondays (except in December). Service dept on site (2 yr guarantee). Large free car park - junctions 4 (M27/M3), 5 (M27), 12 (M3) and 13 (M3) all within 3 miles, est. 1969.

**AUDIO T 4 Feathers Lane**, Basingstoke, Hampshire, RG21 1AS. (0256) 24311. Fax (0256) 24430. Great Hi-Fi from Arcam, Audioblab, Denon, Linn, Meridian, Mission, Naim, Rotel, Sony, Yamaha & many more. Mon-Sat 9.30-5.30. 3 year guarantee on Hi-Fi. Free delivery & installation. 30 day free upgrade scheme. Home demonstrations. Part exchange. Single speaker listening room. BADA Bonded.

## HEREFORDSHIRE

**ENGLISH AUDIO**, 95 Whitecross Road, Hereford, HR4 0DG. (0432) 355081. Musical Fidelity, Arcam, Pink Triangle, Denon, Marantz, Mission-Cyrus, A.I., Rotel, NAD, Nakamichi, TDI and others. Single speaker dem room, home trial facilities, free installation, service dept, Access/Visa, Credit arranged. Open Mon-Sat, 10-6pm. GOSPEL MUSIC AUDIO, 32a High Street, Kington, Herefordshire, HR5 3BJ. (0544) 230254. Alphason, Allison, Revolver, Luxman, Yamaha, OED Audio, Systemline.

**HERTS HI-FI**, 93 High Street, Hoddesdon, Herts. Tel. 0992 441172. Specialists in Audio-Visual & In-Car Entertainment. Main dealers for Aiwa, Celestion, Kenwood, Marantz, Panasonic, Tannoy and others.

**RADLETT AUDIO**, 141 Walling Street, Radlett, Herts, WD7 7NO. Tel. 0923 856497. Mark Levinson, Procead, Proac, Magneplan, Martin Logan, Tube Technology, Teac, Roksan, Audioblab, Stax, Systemdek, Jards, Copland, ATC, Audio Alchemy, AVI, EAR, Sumiko, Quad, Sonus Faber, Home trial facilities, free installation, Service Dept. Visa/Access 9-5.30 Mon-Fri 10-5.30 Sat.

**REVOX Service & Repairs**, Suite 10, Smuogak Business Centre, Lye Lane, Bricketwood, Herts. AL2 3UG. Tel. 0923 893711. Seventeen years experience, ex-Bauch. Authorised agents for Revox products, sales and spares. All repairs carried out are guaranteed. Fast turnaround. Any enquiries telephone: 0923 893711.

**SOUND DEALS**, 1 Drapers Way, Stevenage, Herts, SG1 3DT. Tel: 0438 369999.

Private listening rooms. Audio/Visual demonstration room. Free delivery and installation. Part exchange welcomed. Pre-owned equipment available. Top tape agents. All major credit cards accepted. Credit facilities (including interest free) STS. Agencies include: AR, Alphason, B&W, Castle, Celestion, Denon, Heybrook, KEF, Marantz, Mantecore, Nakamichi, NVA, Pioneer, Ortofon, Rotel, Ruark, Sequence, TDL, Teac etc. ....

## KENT

**ASHFORD, SOUND CRAFT HI-FI**, 40 High Street, Tel. 0233 624441. Seeking music lovers, male or female any age, to share common interest ie. Multi room, Home Cinema etc. Attractive unusual equipment in unusual setting, your place or ours, we guarantee lasting pleasure. Open Monday - Saturday. Appointment service or just pop in. Bada dealers.

**PROGRESSIVE AUDIO**, 2 Maryland Court, Rainham, Nr

Gillingham, Kent. ME8 8QY. Tel. 0634 389004. Agencies include: Audio Innovations, Audion, Audionote, Audiostatic, Audiotechnica, Chord amps, Cogan Hall, Conrad Johnson, Convergent, DALI, Decca, Eminent Technology, Goldring, Impulse, Koetsu, Levinson, L.F.D. Lyra, Lumley Reference, Meridian, Michell, Micromega, Moth, Origin Live, Pink Triangle, Proac, Procead, Ruark, Silversounds, SM, Sugden, Sumiko, Systemdek, Snell, Target, T.D.L., Transfiguration, Townsend, Tube Technology, Voyd, V.P.I., etc. etc. ... Demonstrations by appointment please

**VOLUME ONE** 41 Upper Wickham Lane, Welling, Kent. DA16 3AD. 081 304 4622. Arcam, Dual, Epos, Exposure, JPW, Marantz, Micromega, Nakamichi, Pink Triangle, Rotel, Ruark, Royd, Sony, Systemdek, Alchemist, Celestion, B&W. Large dem room, no appts necessary, Evening dems in shop by apt. Home trial facilities, free delivery and installation. Access/Visa. 10.00-6.00pm Mon-Sat.

**KIMBERLEY HI-FI**, 193 Broadway, Bexleyheath, Kent. Tel 081 3043372. Pioneer, Technics, Kenwood, Denon, NAD, Aiwa, Tannoy, Mission, Rotel, Wharfedale, Castle. Separate dem room, no apt necessary. free installation, service dept, instant credit facilities, no early closing. V.J. HiFi, 29 Guildhall Street, Folkestone, Tel. 0303 256860 Mon-Sat 9-6. NAD, Yamaha, Marantz, Sony, Tannoy, Denon, Kenwood, Rogers, Musical Fidelity, Quad, Dem and home trial fac. free install. Credit to £1,000, Amex, Diners, Visa, Access, Service Dept.

## LANCASHIRE

**AUDIO CLASSICS**, 8 Lowe Mill Lane, Hindley, Wigan, Lancs. WN2 3AF. Sorry but we are unable to answer queries in writing. I buy, sell, modify and repair all vintage and valve hiFi equipment. Advice is free. New equipment by EAR,croft, Richard Allen and more soon. Phone if just for a chat. Credit cards accepted. Quick worldwide delivery, callers by appointment. Tel. 0942 57525 or Fax. 0942 525861. 7 days a week.

**NORMAN AUDIO**, 131 Farngate, Preston, Lancashire, PR1 2EE. Tel. 0772 253057. Fax 0772 562731. Marantz, Pioneer, Yamaha, Audioblab, 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 Wed - 8pm.

**ROMERS HI-FI CENTRE**, 94-96 High Street, Rishton, Blackburn, Lancs. Tel. 0254 887799. Stockists of: Sony, Esprit HiFi, Technics, Marantz, Musical Fidelity, Pioneer, Kenwood, Rotel, Tannoy, Mission, Ruark, B&W and many others. Dem room, service dept, free delivery and installation (local area) Access/Visa and Switch.

## LEICESTER

**LEICESTER HI-FI COMPANY**, 6 Silver Walk, St Martin's Square, Leics. LE1 5EW. Tel. (0533) 539753. Fax (0533) 626097. Acoustic Energy, Arcam, Marantz, Micromega, Mission/Cyrus, Musical Fidelity, Nakamichi, Meridian, Rogers, Roksan and 'oodles more' 2 dem rooms, home trial arranged, free install, service dept. Credit facilities, Access/Visa/Diners/Amex. 6 days. 9.30-5.30

**LISTEN INN**, 6 Hotel Street, Leicester, Tel. 0533 626097. Wide range of records and accessories stocked. Our commitment to standards of service is apparent to our satisfied customers. Two dem rooms and free home install service available.

**STEREO SHACK**, 1-3 Guildhall Lane, Leicester, Tel. 0533 530330. Aiwa, A.R. Denon, Kenwood, Jamo, Mission, NAD, Philips, Pioneer, Home Cinema specialists. Free installation. Open 9.30-5.30 6 days. Credit available.

## LINCOLNSHIRE

**COTTAGE AUDIO**, 17 Bridge Street, Saxilby, Nr Lincoln. LN12 2PZ. Tel: (0522) 702834. Evenings: (0522) 696708. ATC, AVI, Chord amplifiers, Harbeth, LFD, Michell, Origin Live, OED, Royd, Sansu. Sequence, Something soft, Sonic Link, etc. Demonstration rooms. Home trial facilities. Free installations and above all a personal, friendly service.

## LONDON

**ANALOG AUDIO**, 849 High Road, Finchly, N12. (081) 445 3267. For friendly service and advice. AR, AKG, Allison, AT, Cerwin, Vega, Denon, Dual, Harmon Kardon, Jamo, Infinity, Marantz, NAD, Pioneer, Rotel, Revolver, Sonab, Teac, Thorens, Tannoy, Wharfedale, Yamaha. Speaker cables and accessories. Free installation. Service

**AUDIO CONCEPT**, 27 Bond Street, Ealing, W5 5AS. Tel: (081) 567 8703. Acoustic Energy, Audioblab, Aura, B&O, B&W Boston Acoustics, Canon, Castle, Denon, Dual, Evolution, Infinity JPW, Marantz, Mission, Monitor Audio, Musical Fidelity NAD, Nakamichi, Onix, Quad, Revox, Rogers, Rotel, Systemdek, Target, Teac, Thorens. Two dem rooms. Interest free credit, free local delivery & installation, service department.

'Hi-Fi Specialists without the attitude'

**AUDIO VENUE**, 24 Church Road, Crystal Palace, London, SE19 2ET. Tel: 081 771 7786. Purveyors of finest coffee, tea and Hi-Fi, including: Nescafe, PG, Naim, Creek, Ruark, Roksan, JPN, Rotel, Denon, Nakamichi, Revolver, Royd, Sennheiser, Audiotechnica, Lyra, Epos, Heybrook. All servicing to Hi-Fi, TV, Video. Turntable set ups undertaken. Credit facilities. 0% finance. Guaranteed the coolest dem room in London. 1000's of collectable records. AND NO SCOTTISH BULL\*\*\*\*

# Hi-Fi World Dial-a-Dealer

**BABBER ELECTRONICS**, 158 Uxbridge Road, West Ealing, London, W13 8SB. (081) 579 6315. Akai, Aiwa, A&R, Celestion, Dual, Goodmans, Harman Cardon, JBL, JVC, Kenwood, Marantz, Panasonic, Sennheiser, Sony ES range, Tannoy, Technics, Wharfedale, Yamaha.

**COVENT GARDEN RECORDS**, 84 Charing Cross Road, London WC2 (071) 379 7635. Fax (071) 836 1345. London's premier digital audio centre, photo CD, DCC, CD and 16X9 TVs. Audio lab B&O, Marantz, Mission Cyrus, Philips, Pioneer, Rotel, Rogers, Quad, Sony, Technics, Single Speaker Dem rooms, appointments suggested, installation service available. All major credit cards accepted. Mon-Sat. 10.00-7.30pm.

**THE CARTRIDGE MAN** - Front end problems? 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, Suggden, Thorens, Pentachord Speakers and Nuts Analogue. (Plus a cartridge re-tipping service. Tel. 081 688 6565.

**COVENT GARDEN RECORDS**, The Studio, 133 Tottenham Lane, London N8. Tel. (081) 340 7775. Audio lab B&O, Marantz, Mission Cyrus, Philips, Pioneer, Rotel, Rogers, Quad, Sony, Technics, Single Speaker Dem rooms, appointments suggested, installation service available. All major credit cards accepted. Mon-Sat. 10.00-7.30pm.

**DIVA AUDIO FIDELITY**: For the finest in real HiFi. AV and Multiroom systems. Accuphase, Audio Innovations, Audio Note, Audiostatic, Aura, Chord, Conrad Johnson, Impulse, Klipschorn, Levinson, Lumley, Lyra, Michell, Micromega, Monitor Audio, Primare, Rel, Rotel, SME, Triangle, Trilogi, XLO. Call us or pop in for a musical experience you'll never forget. Open 10-6, Mon-Sat at Workshop 30, Royal Victoria Parabolic Building, Fitzhugh Grove, Wandsworth Common, London SW18. Tel/Fax: (081) 875 9593. Also see our full page advertisement on page 7 of this issue.

**DOUG BRADY HIFI**, 18 Monmouth Road, London WC2H 9HB. Tel. (071) 379 4010 or (071) 479 1346. Fair demonstrations and home trial facilities. Wide range of top specialist hifi from Britain, America and Japan. Open 6 days.

**HIFI & COMPONENTS**, 84 Battersea Rise, London, SW11 1EH. (071) 223 1110. Denon, Tannoy, NAD, Rotel, Bose, Dual, QED, Wharfedale, Jamo, Celestion, Kenwood, Ortofon, Infinity, Shure, to name but a few! Established over 29 yrs. Appts necessary. Service dept. 10-6 (closed Weds)

**HIFI EXPERIENCE**, 227 Tottenham Court Road, London W11. 071 580 35635. 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. Service dept. Credit facilities, delivery and free installation.

**THE HIFI SURPLUS STORE**, 62 Weymouth Street, W1 Tel. 071 486 9981. Stock a full range of goods including: Aiwa, Akai, B&W, Bose, Dual, JVC, Jamo, Kenwood, Marantz, Mordaunt-Short, Mission, NAD, Pioneer, Rotel, Sony, Technics, Teac, Thorens, Tannoy, Wharfedale. Full range of "Target" speaker stands always on stock. All goods are brand new in sealed cartons with full 1 yr guarantee. No grey imports. Access/Visa welcome. Open Mon-Sat 9.30-6pm. Late night 'till 6.30 Thurs.

**KAMLA ELECTRONICS**, 251 Tottenham Court Road, London W1P 9AD. Telephone. 071 323 2747. Fax. 071 637 2690. Acoustic Research, Aiwa, Akai, Albarry, Alchemist, Alphason, Audio Alchemy, Audio Innovations, Audio Technica, Audioquest, Aura, Audiostatic, B&W, Cerwin Vega, Conrad Johnson, CopenHagen, Furukawa, Goldring, Infinity, IXOS, JPW, JVC, Kef, Kenwood, Kuzma, Lynwood, Maxell, Micromega, Mitsubishi, Monster, Mordaunt Short, Moth, Nakamichi, Oracle, Ortofon, Panasonic, Pioneer, Project, QED, Rotel, Ruark, Sansul, Stax, TDK, and many more!!!!

**BILLY VEE SOUND SYSTEMS**, 248 Lee High Road, London SE13 (081) 318 5755. Arcam, Linn, Naim, Quad, Creek, Cyrus, Marantz, Nad, Rotel, Rega, Denon, Yamaha, Tannoy, Mission, Micromega, Heybrook, etc., 2 dem rooms, instant free credit, Access/Visa, Closed Thursdays.

**THE LISTENING ROOMS**, 161 Old Brompton Road, London SW5 0LJ. (071) 244 7750/59. Fax (071) 370 0192. Linn, Quad, Meridian, Nakamichi, Arcam, Audiolab, Acoustic Energy, SME, Audio Research, Krell, Wadia, Theta, Micromega, Apogee, Martin Logan, Revox, Rogers, Pioneer, Tannoy, Systemdek, Stax, Pink Triangle, Michell, Monitor Audio, Yamaha, Marantz, Kef, Bose, Celestion, Epos, Mission, Denon, Neat Petite. Mon-Sat 10-6pm.

**PRECISION CABLES LTD**, 53 Effingham Road, Lee Green, London SE12 8NT. Tel. 081 297 0255. A customised cable service that it simply unbeatable. The best available today and tomorrow. Please phone for a free catalogue on products that include Neutrik, Musiflex, Michell amongst others.

**STUDIO 99**, 79-81 Fairfax Road, Swiss Cottage, London, NW6 Tel 071 624 8855 or Fax 071 624 5315. Linn, Naim, Meridian, Rega, Quad, Nakamichi, Mission/Cyrus, Kef, B&O, Yamaha, Creek, etc. 2 single speaker dem rooms. Appts necessary. Home trials, free installation, Visa/Access. 10-7pm Mon-Fri, 10-6pm Saturday.

**ZEBRA**, 18-24 Brighton Road, South Croydon, CR2 6AA. (081) 688 2093. Rotel, Nad, Technics, Philips, Aiwa, Kenwood, Tannoy, Wharfedale, MA Infinity and large range of A V equipment. Single speaker and comparator demo in a more casual environment. Service Dept. Mon-Sat 9.30-6.00. Access/Visa. Instant Credit upto £1,000 subject to status.

**THE CORNFLAKE SHOP**, 37 Windmill Street, London

W1 (071) 631 0472 (domestic). (071) 323 4554 (multiroom). Fax (071) 436 7165. Tues-Sat 10-7 Rega, Roksan, Naim, Monitor Audio, Arcam, Nakamichi, Rotel, Epos etc. 3 dem rooms (incl. home cinema) Friendly professional service. Home trial facilities, appts preferred. Full delivery and repair service. Multiroom specialists. Access & Visa.

**MUSICAL IMAGES**, 173 Station Road, Edgeware, Middlesex. Tel. (081) 952 5535. See advert under Middlesex for more information.

**MUSICAL IMAGES**, 45 High Street, Hounslow, Middlesex. Tel. (081) 569 5802. See advert under Middlesex for more information.

**AUDIOT**, 190 West End Lane, West Hampstead, London, NW3 1SQ. (071) 794 7848. Fax (071) 431 3570. Great Hi-Fi from Adcom, Arcam, Audiolab, B&W, Denon, Epos, Marantz, Meridian, Michell, Mission, Philips, Rotel, Proac, Micromega, Nakamichi, Yamaha, & many more. Mon-Sat 10-6. 3 year guarantee on Hi-Fi. Free delivery & installation. 30 day free upgrade scheme. Home demonstrations. Part exchange. 2 listening rooms. BADA Bonded.

## GREATER MANCHESTER

**THE AUDIO COUNSEL**, 12 Shaw Road, Oldham, Manchester, OL1 3LQ. Tel. 061 633 2602. Linn, Arcam, Naim, Yamaha, Creek, Nakamichi, Denon, JPW, Marantz, Royd, Lexicon. 3 dem rooms, free install, Visa/Access. Licensed credit brokers up to £1,000 instant credit. Full multi-room & A.V. installation. 10.00-5.30pm Mon, Tues, Wed, Sat, 10.00-7.00pm Thurs & Fri.

**BILL HUTCHINSON HIFI**, 50-52 Deansgate, Manchester M3 2FE. (061) 8321600. For the largest selection of HiFi and audio visual equipment in the North West. Specialist A.V. demonstrations of the highest quality. Best prices guaranteed. Minimum 2 year warranty and an optional 5 yr guarantee available. Instant credit and mail order service on offer throughout the U.K. Pioneer, Denon, Kenwood, Yamaha, Technics, Marantz, Mission, Tannoy plus many more.

## MERSEYSIDE

**DOUG BRADY HIFI**, 401, Smithdown Road, Liverpool, L13 3JJ. (051) 733 6859. Fair demonstrations and home trial facilities. All credit cards. Largest choice of specialist hifi in N.W. Closed Wednesdays and lunch 1-2.15pm.

**P & A AUDIO (BIRKDALE) LTD**, 31 Liverpool Road, Birkdale, Southport (0704) 68373. Arcam, Cambridge, Creek, Denon, Michell, Mission/Cyrus, Mordaunt-Short, NAD, Pink Triangle, QED, Revolver, Rogers, Rotel, Royd, Tannoy. 3 Single speaker dem rooms and Nicam surround sound dem room. Free delivery, installation (Merseyside) Service dept. Mon-Sat 9-5.30 Half day Tues. Access, Visa, Lombard.

## MIDDLESEX

**AUDIOCRAFT**, 18 Hillingdon Road, Uxbridge, Middlesex, UBD10 0AD. (0895) 253340. Umbelievably true but you can audition these brands here. Audio, Proac, Michell, Erelle, LFD, Lumley, Levinson, Lume, Triangle, Senterc, Mag Audio, Teac, VHD, Silversounds, YBA, Stax, Theta, Monitor Audio, Fuller Audio, Trilogi, Lyra, Sumiko, Ortofon, Decca, Target, Project, Moth, Kelvin, Townshend, Edison, Audio Alchemy, Keski, Musical Fidelity.

**RIVERSIDE HIFI**, 422 Richmond Road, East Twickenham, Middlesex, TW1 2EB. Tel. (081) 892 7613. fax. (081) 892 7749. A.R., Arcam, Audio innovations, Audiolab, B&O, B&W, Castle, Dali, Denon, Dual, Kef, Marantz, Meridian, Michell, Micromega, Mission, Monitor Audio, NAD, Nakamichi, Pioneer, Quad, Revox, Rotel, Spondor, Systemdek, Tannoy, TDL, Yamaha. 5 demo rooms. In car demo for car hifi systems. Appointments not always necessary. Home trial facilities, free installation, service department, Lombard Tricity, Access/Visa/Amex/ Dinersclub.

**MUSICAL IMAGES**, 45 High Street, Hounslow, Middlesex. Tel. (081) 569 5802. Fax. (081) 569 6353.

**MUSICAL IMAGES**, 173 Station Road, Edgeware, Middlesex. Tel. (081) 952 5535. Fax. (081) 952 5535. Most brands available - see full page advert. Interest free credit, ask for details. Demo rooms. Repairs & Service. Sunday opening - Open all week. A Home Cinema Specialist. Mail order. Part exchange.

**AUDIOT**, 159a Chase Side, Enfield, Middlesex, EN2 0PW. (081) 367 3132. Fax (081) 367 1638. Great Hi-Fi from Adcom, Arcam, Audiolab, Celestion, Denon, Marantz, Meridian, Micromega, Mission, Philips, Rotel, Yamaha, & many more. Mon-Fri 10-6. Sat 9.30-3.30. 3 year guarantee on Hi-Fi. Free delivery & installation. 30 day free upgrade scheme. Home demonstrations. Part exchange. 2 listening rooms. Home Cinema specialists. BADA Bonded.

## NORFOLK

**BASICALLY SOUND**, The Old School, School Road, Bracon Ash, Norwich, Norfolk, NR14 8HE. Tel. (0508) 70829. Arcam, Linn, Denon, Naim, Spondor, Sound Organisation, Audio Technica, Creek, Rega, Epos etc. 2 comprehensive dem rooms, home trial facilities, free installations, Visa/Access, HP facilities. Tues-Fri 9.30-1.00pm, 2.00-5.30pm. Saturday 9.30-5.30pm.

**PROTECT-A-DISC**, Unit 4, Elvin Way, Sweetbriar Industrial Estate, Norwich, NR3 2BB. Tel: 0603 482193. Producers and suppliers of finest quality card record and CD sleeves with taped edges, poly-lined or unlined, mailers and crutchforms etc. Please send SAE for full current price list. Trade enquiries welcomed. Tel: 0603 482193.

## NORTHAMPTON

**LISTEN INN**, 32 Gold Street, Northants NN1 1RS. Tel. (0604) 37871. Wide range of records and accessories stocked. Our commitment to standards of service is apparent to our satisfied customers. Two dem rooms and free home install service available.

## NOTTINGHAMSHIRE

**ART AUDIO**, 130 Main Street, Calverton, Nottingham NG14 6LU. Tel. 0602 653604. Fax. 0602 637795. Midland dealer for all Art Audio amplifiers & Concordant amplifiers, Mordaunt-Short speakers. Home demonstration & installation service. 9-5 Mon-Fri, 10-6 Sat.

**DEFINITIVE AUDIO**, Tel. (0602) 813562. For a carefully considered approach to building a true high fidelity audio system with components derived from the following manufacturers: Audio innovations, Snell, Wadia, Micromega, Deltac, Voyd, Systemdek, SME, Revox, Impulse, Ortofon, Pioneer. Also the remarkable Living Voice Air Partner loud speaker system. Demos by appt. Please phone for further details, install, free of charge. Mon-Sat 10.00-7pm. Closed Wed a.m.

**PETER ELLIS AUDIO**, 29 Kirkgate, Newark, Notts NG24, 1AD. Tel. 0603 704571. QUAD, Castle, Arcam, QED, Suggden, Tannoy, Thorens, Marantz, Denon, Teac. Demo room, free install, Service dept. Access, Visa. Mon-Sat 9-5.30. Closed Thursdays.

**CHANTRY AUDIO**, 18-18a Eldon Street, Tuxford, Nr Newark, Notts, NG22 0LH. Tel. 0777 870372. Pink Triangle, DPA, Rotel/Michi, Micromega, NVA, Alchemist, Michell, Monitor Audio, Lumley, SME, Audion, and much more! 13 dem rooms, home trial, free installation, service department. Access & Visa, credit facilities, Mail order, Mon-Sat 9.30-6.00. Sun and evenings home dem by appointment.

## OXFORDSHIRE

**AUDIOT**, 19 Old High Street, Headington, Oxford, OX3 9HS (0865) 65961. Fax (0865) 60415. Great Hi-Fi from Arcam, Audiolab, Cyrus, Denon, Epos, Kef, Marantz, Meridian, Mission, Musical Fidelity, Rotel, Sony, Yamaha & many more. Mon-Fri 10-6. Sat 9.30-5.30. 3 year guarantee on Hi-Fi. Free delivery & installation. 30 day upgrade scheme. Home demonstrations. Part exchange. 2 listening rooms. Home Cinema specialists. BADA Bonded.

**WESTWOOD & MASON**, 46 George Street, Oxford, Tel. 0865 247783. AMC, Creek, Marantz, Naim, Arcam, Rotel, Rega, Epos, Tannoy, JPW, Mission, Nakamichi, Denon, Aiwa, Quad, Aura, Yamaha, Klipsch Speakers. Open 9.30-5.00pm. Dem room. Closed Thursdays.

## SHROPSHIRE

**AVON HIFI**, 12 Barker Street, Shrewsbury, Shropshire, SY1 1QJ. Tel. 0743 355166. Aiwa, Beyer-Dynamic, NAD, Quad, B&W, Mordaunt-Short, Kenwood, Bose, Nakamichi, Revolver, Dem room. Home trial. Free install. Service dept. Access/Visa. £1,000 instant credit. Mon, Tues, Wed, Fri, Sat 9-5.30.

**SHROPSHIRE HIFI**, St Michael Street, Shrewsbury, Shrops. SY1 2ES. Tel. 0743 232065. Stockists of Musical Fidelity, Mordaunt Short, Sony, Kenwood, Pioneer, Rotel, Denon, B&W Proac. Audio Visual. Products available. Open 9.30 - 5.30pm Mon-Sat.

## SOMERSET

**MIKE MANNING AUDIO**, 110 Middle Street, Yeovil, Somerset, BA20 1NE. Tel. 0935 79361. Fax. 0935 32923. Mobile 0850 325965. Naim, Roksan, Pink Triangle, A&R (Arcam) ION, NAD, Pioneer, Rotel, Denon etc. Dedicated listening lounge, for relaxed and unpressured demos. Appts not necessary but best to telephone first. Home trial facilities on request, free installation and service dept. Instant credit, Access/Visa etc. 9-5.30 closed Mondays.

## STAFFORDSHIRE

**ACTIVE AUDIO**, 95, Stafford Street, Hanley, Stoke-on-Trent, Staffs. Tel: 0782 214994. Fax: 0782 283346. We have four studios including a dedicated Audio Visual studio for the demonstration of quality equipment from the largest range in the Midlands. Open six days per week. Own service department. Free local delivery, home trial facility. Current special offers and buyers fact pack and quotation service on request.

**GRANGE HIFI LTD.**, 153 Branston Road, Burton-upon-Trent, Staffordshire, DE14 3DQ. Tel. 0283 336655. Arcam, Albarry, Audio innovations, Audionote, Castle, Denon, Dual, JPW, Marantz, Moth, Pink Triangle, Quad, Rogers, Rotel, SME, Systemdek, Tannoy, TDL, Yamaha, Stockists of DCC. Access/Visa. 2 dem rooms. Closed Monday & Weds pm and for lunch 12.00-12.30pm. Appts necessary on Saturday 9.00-5.30pm.

**MUSICAL APPROACH**, Unit 7, Woodings Yard, Bailey Street, Stafford, Tel. 0785 55154. Also branch at 37 High Street, Aldridge, nr Walsall. Tel. 0922 57926. Arcam, Audiotech, Apollo, Celestion, Heybrook, Linn, Marantz, Rotel, Royd, Sennheiser, Target, single Speaker Dem rooms, free installation and credit facilities.

**ACTIVE AUDIO**, 29, Market Street, Tamworth, Staffs. Tel: 0827 53355. Fax: 0827 59513. We have two studios including a dedicated Audio Visual studio for the demonstration of quality equipment from the largest range in the Midlands. Open six days per week. Own service department. Free local delivery, home trial facility. Current special offers and buyers fact pack and quotation service on request.

## SUFFOLK

**BURY AUDIO**, 47 Churchgate Street, Bury St Edmunds, Suffolk. IP33 1RG. Tel. 0284 724337. Arcam, Audio Alchemy, Heybrook, Marantz, Michell, Meridian, Nakamichi, Pink Triangle, Quad, Rotel, Sonus Faber, Stax, Tube Technology. Single speaker dem room. Free install. Credit facilities. Mon-Sat 9.30-6.00, closed Wed. Evening dems by appointment.

**EASTERN AUDIO**, 41 Bramford Road, Ipswich, Tel. 0473 217217. Fax 0473 215705. Quad, Arcam, Audiolab, Meridian, Mission, Denon, Rotel, Marantz, NAD, Sony, Rogers, Nakamichi, Systemdek, Technics, Celestion, B&W, Tannoy, Morel Thorens and Top Tape. Also stock a wide range of accessories. Use specialist facilities. A BADA dealer.

## SURREY

**PJ HIFI**, The HIFI Shop, 3 Bridge Street, Guildford, Surrey GU1 4RY. Tel. (0483) 504801. 9-6 Mon-Sat. Linn, Meridian, Rega, Arcam, Quad, Revox, Musical Fidelity, Rotel, NAD, Nakamichi, Marantz, Kef, Reference etc.

*Continued on next page . . .*

## TO FIND YOUR AREA Use our COLOUR REFERENCE



To Advertise in this section, please contact **Caroline Knott** on:

**071 266 0969**

# Hi-Fi World Dial-a-Dealer

**ROGERS HIFI**, 13 Bridge Street, Guildford, Surrey, (0483)61049. Aiwa, Creek, Denon, Dual, JPV, Marantz, Onix, Pioneer, Systemdek Ruark, Tannoy Teac Dem facilities available, no appts necessary, free installation, service dept. Access/Visa. Instant credit upto £1,000 subject to status. Monday-Saturday, 9.30-6pm, later by appt.

**AUDIO SOUTH**, 24 (The Woolmead) East Street, Farnham, Surrey, GU9 7TT. (0252) 714 555. Audio Innovations. Audio note. Deltac, JPV, Marantz, Rotel, Teac, Voyd, Hifi and audio visual dem rooms. Evening appts available. Home trial facilities, free installation. Access/Visa. 10.30-6.30 Mon-Sat. Closed Tuesday.

**SURBITON PARK RADIO**, 48 Surbiton Road, Kingston-upon-Thames, Surrey (081) 546 5549. QUAD, Castle, Denon, Dual, Kenwood, Mordaunt-Short, JBL, Rotel, Pioneer, QED, B&W and Tannoy. Demo facil. Access, Visa and Switch. 9.30-5pm.

**SURREY HIFI**, 45 High Street, Godstone, Surrey, RH9 8LS. (0883) 744755. Specialist Hifi outlet, demonstration room and parking available. Quad, Audiobab, TDL, Tube Technology, Rel Acoustics, Nakamichi, Kef, Thorens, Magnum, Rotel, Marantz, Denon, Michell, Furukawa, Tannoy, Target, JPV Lumley Reference in stock. Single speaker dem rooms. Appts not necessary. Home trial facilities. Free installation service dept. Access/Visa/Mastercard. Open 9-6pm Closed Wednesday.

## SUSSEX (EAST)

**JEFFRIES HIFI**, 4 Albert Parade, Green Street, Eastbourne, East Sussex, Tel. 0323 131336. 2 dem rooms. C.C.Ssed Mon. Late night Wednesday. Free parking. Credit facilities.

**JEFFRIES HIFI**, 69 London Road, Brighton, East Sussex, Tel. 0272 609431. 2 dem rooms, closed Mon, late night Wed. Free parking and credit facilities.

**THE POWERPLANT** 'Brighton's Leading Hifi Shop'. 66 North Street, Brighton, Tel. 0273 775978. Comfortable listening rooms. Knowledgeable and approachable staff. Roksan, Micromega, Musical Fidelity, Exposure, Audiobab, Onix, Epos, Rotel, Marantz and more.

**WORTHING AUDIO**, 20 Treville Gate, W Sussex, BN11 1VA. Tel. 0903 212133. 'The friendly shop with the best sound systems in the South'. Friendly advice, 3 yr guarantee, easy parking, open Mon-Sat 9-6pm. Late night Wed. Arcam, Exposure, Naim Audio, Marantz, Ruark, Mordaunt Short, Audio Technica, Target, Tripod, Sennheiser, AR and many more.

## SUSSEX (WEST)

**AUDIO DESIGNS**, 26 High Street, East Grinstead, West Sussex, RH19 3AS. Tel. 0342 314569. Friendly understanding Hi-Fi specialists. Audiobab, Arcam, Cyrus, Epos, Linn, Marantz, Mission, NAIM, NAD, Neat, Quad, Rotel, Sony, Stax, Tannoy, Target, Thorens, Yamaha. Dem rooms, free installation, service dept, credit facilities, mail order, credit cards, 9.30-6.00 6 days a week.

**BOWERS & WILKINS Ltd.** (est. 1945). 1 Becket Buildings, Little Hampton Road, Worthing, Tel. (0903) 2 64141. Top names in Hifi and audio visual including B&W, Nakamichi, Castle, Denon, Philips, Quad, Technics, Aura, Thorens and many more. 3 dem rooms (budget-high end) expert friendly advice, service dept, local installations free. one minute from A24 & A27, free local parking. Access/Visa, Instant Credit up to £1,000 subject to status. Open 6 days.

**CHICHESTER HIFI**, 7 St Pancras, Chichester, W Sussex, PO19 1SJ. Tel. 0243 776402. Linn, Naim, Rega, Creek, Nakamichi, A&R, Denon, Roksa, Epos, JPV, Ruark, Rotel, Quad, Sponder. Evening appts available.

**JAYSOUND AUDIO**, 5 Waterloo Square, Bognor Regis, Tel. 0243 826355. Aiwa, B&W, Beyer, Denon, Dual, Goodmans, Hecco, Jamo, JVC, Marantz, Mitsubishi, Pioneer, QED, Samsung, Sennheiser, Sharp, Shure, Teac, Wharfedale. Free local delivery and install. Part exchange welcome, licensed credit broker. Repairs on all makes of Hifi & TV/Video. Open 9am-6pm. Cl. Weds.

## TAYSIDE

**J.D.BROWN**, 28-36 Castle Street, Dundee DD1 9NZ. Tel: (0382) 26591. Rotel, Denon, Pioneer, Technics, Aiwa, Mission, Casio, Mordaunt-Short, Monitor Audio, Bose, Infinity. All equipment ready for demonstration, No apt. nec, free installation, service dept. Open 9.30-6pm six days a week, (close 5pm Sat).

## TYNE & WEAR

**BILL HUTCHINSON HIFI**, 87a, Castle Street, Newcastle-upon-Tyne, (091) 230 3600. For the largest selection of Hifi and audio visual equipment in the North East. Specialist A.V. demonstrations of the highest quality. Best prices guaranteed. Minimum 2 year warranty and an optional 5 yr guarantee available. Instant credit and mail order service on offer throughout the U.K. Pioneer, Denon, Kenwood, Yamaha, Technics, Marantz, Mission, Tannoy plus many more.

## WARWICKSHIRE

**STRATFORD HIFI**, 25 Henley Street, Stratford-upon-Avon, CV3 9W. Tel. 0789 414533. Pioneer, Technics, Denon, Marantz, NAD, Rotel, Musical Fidelity, Monitor Audio, Mission, Tannoy, Quad, TDL, Sennheiser, 0% finance is available on selected products and all major credit cards accepted. Dem Rooms, Service facilities, open 9.30-5.30pm. Late night Thursday until 8.00pm.

## WEST MIDLANDS

**FRANK HARVEY HI-FI EXCELLENCE**, 163, Spion Street, Coventry, CV1 3BB. Tel: 0203 525200. The Midlands first choice for specialist Hi-Fi. Audiobab, Audio Alchemy, Arcam, Audio Quest, Alphason, Bose, Bang & Olufsen, Celestion, Cyrus, Denon, Dual, Fission, Kef, Reference, Marantz, Monitor, Audio Mission, Musical Fidelity, Nakamichi, Nad, Rega, Rogers, Rotel, Quad, Systemdek, Target, Tripod, Tannoy, Thorens, Van den Hul, Yamaha. 3 floors, 3 demonstration rooms. Open 9.30 till 5.30. Closed Thursdays. All credit cards incl. Amex & Diners. Instant credit and interest free facilities. Home trials. Free installation, home cinema AV floor. We are a BADA dealer.

**MIDLAND VALVE HIFI**, Specialising in true fidelity systems built around valve amplification. Audion 300B Silver Nights, Audio Innovations, Impulse, Audio Note, KAL, Townsend Audio, Ortofon, Voyd, Micromega, Edison, Stax, Apollo, Dynavector, Seismic Sink, Valves. Home demonstrations and part exchange. Also vintage: Leak, Quad, Croft, Radford, etc. Flexible opening 7 days. phone Gary 021 722 2317.

**MUSIC MATTERS**, 351 Hagley Road, Edgbaston, Birmingham, B17 0DL. Tel. 021 429 2811. Roksan, Nakamichi, Arcam, Audiobab, Musical Fidelity, Mission, Cyrus, Meridian, Kef, Monitor Audio, Pink Triangle, Ruark, Epos, Exposure, Pioneer. 2 single speaker dem rooms. Appts necessary. Home trial facilities and free install. Service dept. Access/Visa/instant credit upto £1,000. Interest free credit available also. Tues-Thurs 10.30-6pm, Friday 10.30-8.00pm, Saturday 10.00-5.30pm.

**ELECTRO CENTRE**, 244 Soho Road, Handsworth, Birmingham, Tel. 021 554 1878. Full range of Hifi. Pioneer, Techn cs, Kenwood, JVC, Sony, Aiwa, Akai. 'Guaranteed the lowest price in the UK'. 24 hour mail order facility available.

**ELMDON AUDIO**, Tel. 021 784 8765. Reference Imports Lundy, Alon etc. Esoteric Audio Research B34 Integrated on demonstration. Home demonstration can be arranged. Top part exchange prices, lots of used bargains. Quad, Leak, etc. Valves and valve testers, new GEC KT66s available.

**FIVEWAYS HI-FIDELITY LTD.** 12 Islington Row, Edgbaston Birmingham, B15 1LD. 021 4550667. Advent, Albary, AKG, Alphason, AMC, AR, Arcam, Audioquest, Auditechnica, Beyer, Bose, Castle, Chord, Denon, Dual, Gold Ring, Meridian, Michell, Monitor Audio, Nagaoka, Nakamichi, Ortofon, QED, Quad, Revox, Sennheiser, Sponder, Target, TDK, TDL, Thorens, Wharfedale, K Monks Record Cleaning Service. Closed Mondays.

**MUSICAL APPROACH**, 37 High Street, Aldridge, nr Walsall. Tel. 0922 57926. Arcam, Audiolech, Apollo, Celestion, Heybrook, Linn, Marantz, Rotel, Royd, Sennheiser, Target, single Speaker Dem rooms, free installation and credit facilities.

**WEST MIDLANDS AUDIO**, 158 Ombersly Road, Worcester WR37HA. Tel. 0905 58046. Fax. 0905 57585. Naim, Rega, Rotel, Marantz, Nakamichi, NAD, Audiobab, Roksan, Meridian, B&W, Audio Research, Krell, Martin Logan, Arcam. 9.5-30 Mon-Sat, eve's by appt only. Free SOUND ACADEMY, Just off the high Street, Blowick, Walsall, W. Midlands. (Ample free parking). Tel. 0922 493499. Alberr, Art Audio, Acoustic Energy, Arcam, Audiobab, Audioquest, B&W, Bose, Chord, Cyrus, Cable Talk, DPA, Ensemble, Epos, JPV, Kef, Reference, Marantz, Meridian, Mission, Moth, Musical Fidelity, Nakamichi, Ortofon, Project, Quad, Roksan, Tube Technology, Triangle and many more. Open 6 days a week. Mon-Sat. All major credit cards taken. Part exchange, enquiries welcome.

**AMADEUS SOUND & VISION**, 10 Boldmere Road, Sutton Coldfield, West Midlands, Tel. 021 354 2311. Audio Innovations, B&O, Castle, QED, Wharfedale. Single speaker demo, appts preferred, service available, installations, B&O link install, home trials, Access/Visa, interest free credit available subject to status. 9.30-6.00pm 6 days.

**GRIFFIN AUDIO**, 94 Bristol St., Birmingham, Tel. 021 622 2230/021 692 1359. Tues-Sat 10 a.m.-6 p.m. Enjoy music at home with a system from Griffin Audio. We demonstrate and install the very best hi-fi, with systems from £500 to £25,000. Ask for Bob, Tim or Alex. Linn, Naim, Shatninan, Quad, Arcam, Rega, Denon, Marantz, Rotel.

## WILTSHIRE

**AUDIO T**, 60 Fleet Steet, Swindon, Wiltshire, SN1 1RA. (0793) 538222. Fax (0793) 487260. Great Hi-Fi from Arcam, Audiobab, Denon, Linn, Marantz, Meridian, Mission, Rotel, Sony, Yamaha & many more. Mon-Sat 9.30-5.30. 3 year guarantee on Hi-Fi. Free delivery & installation. 30 day free upgrade scheme. Home demonstrations. Part exchange. 2 listening rooms. Home Cinema specialists. BADA Bonded.

## YORKSHIRE (SOUTH)

**HIFI STUDIO'S**, Sunnyfields, Doncaster, Tel. 0302 781387. Heybrook, Monitor Audio, Art Audio, Michell, Rugden, Acoustic Energy, Alphason, Teac, AMC Valves, Suken, Albary, Proac, Impulse loud speakers, Rel subwoofers, Yamaha surround sound, Project, TDL, Listening room demo's. Home trial, free install, licensed credit broker, 2 yr guarantee on all equipment, service available, Access/Visa. 10-8pm 6 days. phone for further information and free fact pack.

**TRC HIFI**, 3 Kings Cross Street, Halifax, HX1 (0422) 366832. Agents for Kenwood, Denon, Castle, Rotel. Demonstrations and advice a pleasure. Call at any time to audition some of the best Hi-Fi and pro-logic systems. Delivering and installation free within 20 miles. 'The family firm where the customer matters most.'

## YORKSHIRE (NORTH)

**AUDIO CLINIC**, 22 Lord Mayors Walk, Yorks, YO3 7HA. Tel. (0904) 646309. Revox-Qed-Audio Innovation-Allison-Celestion-Yamaha-Teac-Revolver-JPV-Kenwood-Bose-Thorens-Mission-Snell-B&W-Hecco-Cannon-NAD-JVC-Musical Fidelity-Wharfedale-Micromega-Ruark-Heybrook. Surround sound and demo rooms, free installation, Service Dept. Credit facilities on request. Access, Visa, Open 10am-5pm 6 days a week.

**AUDIO REFLECTIONS**, The Northern Alternative. 'Discover accuracy in high fidelity' On permanent demonstration exclusively in Yorkshire and the North East of England- ATC.SCM10,SCM20,SCM20 Tower,SCM50A and SCM100A. ATC, AV International, Castle, Chester, Winchester, Concordant, Chord SPM Power Amplifiers, Equinox, Harbeth Acoustics, JPV, Sequence Loudspeakers, Marantz, Michell Gyrodec, Michell ISO HR, Argu HR and Aicelo amps, Michi, Music link, Ortofon premier range, Jeff Rowland, Rotel, SME, Sum, Slate Audio, Sony, Sugden, Target, QED. Further details are available on request. Please phone or fax (0532) 528850 (evening calls welcome). Part exchange and second hand equipment also available.

**SCARBOROUGH HIFI**, 14 Northway, Scarborough, North Yorkshire YO11 1JL. Tel. 0723 374547. Albary, Aura, B&W Matrix, Cyrus, Pioneer, Philips, Marantz, Cabasse, Bose, Tannoy, DCC wide screen and laser vision. Home trial facilities and free installation, service dept. Access/Visa, Credit charge, £1,000 instant credit/Amex/Diners.

**THE SOUND ORGANISATION**, (YORK) 2b Gillygate, York, YO3 Tel. (0904) 627108. Linn, Meridian, Micromega, Naim, Rega, Arcam, Creek, Nakamichi, Mission, Denon, Epos, Royd, Rotel. 3 single speaker dem rooms: appts preferred, home trial facilities, free install, service dept. Credit facilities on request. Access/Visa. 10.00am-5.30pm. Tues-Sat. Sony dealer award nominated '86, '87 and '88.

**VICKERS HIFI**, 24 Gillygate, York, (0904) 629659. Audiobab, Harmon Kardon, Marantz, Musical Fidelity, Pink Triangle, Quad, Systemdek, Tannoy, Technics, and lots more. 3 dem studio's, (2 by appointment). Superb showrooms. 2 yr guarantee on all hifi products. Appts. as above. Home trial facilities, free install, service dept. Qualified and experienced staff, over 25 yrs experience. 12 mths interest free credit. 10.30-5.30 Mon-Sat.

## YORKSHIRE (WEST)

**AUDIOVISION (BRIGHOUSE) LTD.** 5 Bethel Street, Brighouse, W.Yorks HD6 1JR. Tel. (0484) 713996. 1 mile from junction 25, M.62. Yorkshire's experts for the entire range of Technics Hifi separates & systems. Panasonic Nicam TV, Satellite Audio, VCR's and Camcorders, Philips Widescreen TV, CD-Ind Laserdisc players, Yamaha Cinema DSP separates, Castle, Mordaunt-Short, Bose, TDL, Cerpwinvegal and Aiwa Hifi separates. Hifi, Home cinema and Dolby pro-logic surround systems on continuous demonstration. Free specialist advice and expert installation. In-store service department. Access/Visa/Credit charge. Mon-Sat 9-5.30.

**BILL HUTCHINSON HIFI**, 26-28 Woodhouse Lane, Leeds (0532) 427777. For the largest selection of HiFi and audio visual equipment in the Yorkshire. Specialist A.V. demonstrations of the highest quality. Best prices guaranteed. Minimum 2 year warranty and an optional 5 yr guarantee available. Instant credit and mail order service on offer throughout the U.K. Pioneer, Denon, Kenwood, Yamaha, Technics, Marantz, Mission, Tannoy plus many more.

**DOUG BRADY HIFI**, The Forge Cottage, 19 Cross Gate, Otley, West Yorks, LS21 1AA. Tel. (0943) 467689. Naim, Arcam, Rotel, Pink Triangle, Meridian, Epos, Castle, Two dem rooms, fair demonstrations and home trial facilities. Access/Visa. Open 10.00-6pm Tues-Sat.

## SCOTLAND

### EDINBURGH

**BILL HUTCHINSON HIFI**, 43 South Clark Street, Edinburgh, (031) 667 2877. For the largest selection of Hifi and audio visual equipment in Lothian Specialist A.V. demonstrations of the highest quality. Best prices guaranteed. Minimum 2 year warranty and an optional 5 yr guarantee available. Instant credit and mail order service on offer throughout the U.K. Pioneer, Denon, Kenwood, Yamaha, Technics, Marantz, Mission, Tannoy plus many more.

### ABERDEEN

**HI-FI EXCELLENCE**, Hi-Fi Innovators & product designers with 15 years experience. Very much in the business for the music Musical Fidelity key dealer. Largest Rotel retailer in the area. Particularly keen to make the buying of Hi-Fi a fun experience. Situated in the West End away from the bustle of the City centre - the perfect environment to enjoy quality Hi-Fi. Full time service engineer. Open Mon-Tues 10-6, Wed 10-1, Thurs 10-7, Sat 10-5 or later

by appointment. Hi-Fi Excellence, 293 Union Grove, Aberdeen. Tel. 0224 322 52

**AUDIO SUITE**, 42 St Andrew Street, Aberdeen Tel 0224 625635. Agent: Linn, NAD, Magnephanar, Audio Research, Quad, Audio Innovation, Snell, Absolute Sounds, etc. We offer unsurpassed personal service in the most professional manner.

## GLASGOW

**STEREO STEREO**, 278 St Vincent Street, Glasgow, Scotland Tel 041 248 4079. Closed Tuesday. Installations throughout Scotland. Credit facilities available.

**BILL HUTCHINSON HIFI**, 43 Hope Street, Glasgow, (041) 248 2857. For the largest selection of HiFi and audio visual equipment in South West. Scotland Specialist A.V. demonstrations of the highest quality. Best prices guaranteed. Minimum 2 year warranty and an optional 5 year guarantee available. Instant credit and mail order service on offer throughout the U.K. Pioneer, Denon, Kenwood, Yamaha, Technics, Marantz, Mission, Tannoy plus many more.

## IRELAND

### DUBLIN

**CLONEY AUDIO**, 55 Main Street, Blackrock, Co Dublin, Tel. 2889449/2888477. Fax. 2834887. Products include: Arcam, Classe, Philips, Rogers, Epos, B&W, Naim Audio, Meridian and others. Open Tues/Sat 10am-6pm. Thurs/Fri 11-9pm Closed Mondays.

**PETER DAND & CO LTD**, 111 Clonskeagh Road, Dublin 6. Tel. 0103531 2694433. Products include: B&O, Quad, KEF, Thorens. TEAC & many more! 2 demonstration rooms and 2 year guarantee.

## NORTHERN IRELAND

### BELFAST

**LYRIC HIFI**, 163 Stanmillis Road, Belfast (0232) 381296. Linn, Naim, Rega, Arcam, Denon, Rotel and more. Mon-Sat. 10.00-6.00pm. Late night Thurs.

**ZEUS AUDIO**, 6 Hope Street, Belfast, (0232) 332522. Audio Innovations, Pink Triangle, Roksan, Marantz, Celestion, Meridian and more. Mon-Sat 10.00-5.30pm. Late night Thursday.

## COUNTY DOWN

**ASTON AUDIO**, Unit 8, Kings Road Shopping Centre, Kings Road, Belfast. (0232) 402220. Akai, Technics, JVC, Samsung, Toshiba, Panasonic and many more. Demos. Open Mon-Fri 10-8pm Sat 10-5pm.

## LONDONDERRY

**ZEUS AUDIO**, 23a Kingsgate Street, Colrairie, BT52 4LB. Tel. (0265) 56634. Marantz, Mission Cyrus, Aiwa, Akai, Alphason, Sony, Pink Triangle, Celestion, Rotel. Mon-Sat 10-5.30pm. Closed Thurs.

## WALES

### GWYD

**ACTON GATE AUDIO**, 4 Ruabon Road, Wrexham, North Wales, Tel. 0978 364 500. Arcam, B&W, Marantz, Mission, NAD, Quad, Rega, Rotel, Tannoy, Yamaha, etc. Dem facilities. A.V. on dem. Mail order. No appts nec, home trial fac. Free install, Service Dept. Access, Visa. 9.30-5.30 closed Weds pm.

## NORTH WALES

**ELECTRO TRADER**, 19 Colwyn Crescent, Rhos on Sea, Colwyn Bay, Gwynedd, Wales, LL28 4RN. (0492) 548932. Rotel, Yamaha, NAD, Harman, Kardon, Teac, Alphason, Hecco, Infinity, KEF, JBL, Tannoy, Rotel/Michi, Haybrook, Acoustic Research, Ruark and Soundstyle tri-pod racks etc. Dem room appts. preferred. Home trial. Free install. Access, Visa, Open 9.30 - 1.00, 2.00 - 5.30 Mon-Sat.

## GLANORGAN SOUTH

**AUDIO EXCELLENCE 'WHERE THE MUSIC MATTERS'**, 134-6 Cnwys Road Cardiff CF2 4NR, Tel. 0222 28565. Fax. 022238201. Great Hi Fi carefully selected and demonstrated by friendly enthusiastic staff. Home installations and check-ups. Two year warranty from our own service department. Open 9.00-5.30 Tuesday - Saturday closed Monday.

## GLANORGAN (WEST)

**AUDIO EXCELLENCE 'WHERE THE MUSIC MATTERS'**, 9 High Street, Swansea, SA1 1LE. Tel. 0792 474608. Fax. 0792 645087. Great Hi Fi carefully selected and demonstrated by friendly enthusiastic staff. Home installations and check-ups. Two year warranty from our own service department. Open 9.00-5.30 Tuesday - Saturday closed Monday.

## RECORD OF THE MONTH

First, there was Lyrita, and only Lyrita. Then the torch was taken up by the independent labels: Chandos, Hyperion, Conifer, Nimbus, Meridian and ASV among them. Now, the ranks of lesser-known, but unjustly neglected British composers are well represented in the catalogue. So is there still a need for a new label which devotes itself entirely to the music of these islands? I have been luxuriating in three recordings which suggest the answer is, unequivocally, yes.

With admirable straightforwardness, the new marque calls itself the British Music Label. You might expect it to be based in a cottage in

the Malvern Hills, or in a Suffolk farmhouse, but this label hails from - of all places - Milton Keynes (which is not to knock the spot, it's just unexpected).

The first recordings from the British Music Label - all handsomely presented, I should add - feature the music Bernard van Dieren, clarinet sonatas by Donald Tovey and York Bowen, and chamber works by Herbert Howells and Frank Bridge. It is this last which I feel amply qualifies for this issue's accolade of 'Record of the month', although that should also be taken as a commendation of the label as a whole, and the enterprise behind it.

The recording engineer for all three CDs was Mike Skeet who gained a

measure of notoriety some years ago for his recording of his up-and-over garage door. If I recall correctly, it was included on an early demonstration CD and became a favourite party-piece for exhibitors at hi-fi shows.

In a very different way, the recording of the Howells and Bridge works is also worthy of demonstration status. Taped in the Silk Hall of Radley College, using a Sony PCM FI and Sennheisser and AKG microphones, it offers sound of gripping immediacy and crystal-clear focus. Yet the vital balance of the ensemble is always maintained and the performances are bathed in an agreeable, natural ambience.

### FRANK BRIDGE

Phantasy for piano quartet in F sharp minor/Phantasie for piano trio in C minor

### HERBERT HOWELLS

Piano Quartet in A minor/  
Clarinet Sonata

Holywell Ensemble

BRITISH MUSIC LABEL BML003

(DDD/78.33)

● The tendency is to think of Howells as a composer of choral music and it is true that the glorious 'Hymnus Paradisi' is a masterpiece of the genre. But those introduced to Howells's chamber music through the fine recording on Hyperion of the Third String Quartet will know he could handle instrumental voices with the same skill and imagination that he deployed the human variety.

Although the Piano Quartet has no descriptive subtitle, it is impossible not to hear the landscape of Gloucestershire and Worcestershire reflected in this music, its gentle, rolling contours, its lush greenery, its fast-flowing rivers, and its hills. Howells - unlike his contemporary, Vaughan Williams - did not consciously use folksong in his music, but works like the Piano Quartet do exude a folk-like air. Yet this is no rustic ramble, but a piece full of ideas,

skilfully developed into music that is richly expressive and often rapturous.

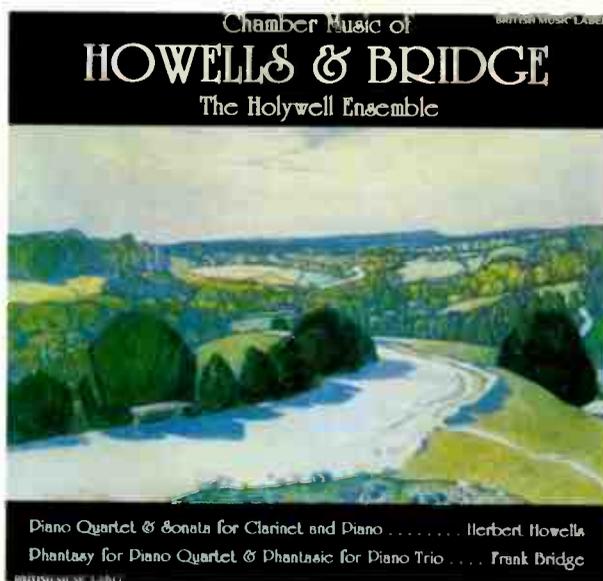
Howells completed his Clarinet Sonata some thirty years after the Piano Quartet and it received its first performance in a BBC Third Programme concert in 1948. In those intervening years, Howells had lost his only son, Michael, to spinal meningitis and the profound grief that he felt came to colour many of his later works. In the Clarinet Sonata, a lyrical

description of 'sonata'. W.W. Cobbett, who loved the viol-consort music of the sixteenth and seventeenth centuries, inaugurated a competition for the composition of phantasies and, in 1907, Bridge took the prize with his Phantasie for Piano Trio in C minor. Cobbett was sufficiently impressed with the piece to commission a Phantasy Piano Quartet, which Bridge completed in 1911.

In both works, the rhapsodic nature of the music, with its lush, sweeping melodies and highly-charged emotional intensity, tends to mask what are well-organised structures, typifying the well-honed craftsmanship that characterises all of Bridge's music. The Piano Trio supplies a suitably exultant conclusion to this recital, while the Piano Quartet has a more elusive, even haunting quality.

The performances which, along with great technical finesse, display wonderful sensitivity. The music simply flows, imaginatively and

persuasively. Peter Nichols - who doubles as co-producer with the violinist, Kate Bailey - is a particularly fine soloist in Howells's Clarinet Sonata. The Holywell Ensemble takes its name from the Oxford concert room which opened in 1748 and, in its time, played host to Handel, Haydn and Mozart. These gentleman, one feels, would not have been displeased by the music making on offer here.



sadness is contrasted with music of stark bitterness and a fierce rhythm, a manifestation, one feels, of anguish and anger.

Either side of the Howells works, the Holywell Ensemble offers two 'phantasy' pieces by Frank Bridge, both written for the chamber music enthusiast, W.W. Cobbett. The phantasy (or phantasie) can best be described as a single-movement piece too diffuse in structure to justify the

the talent I gave you, my lad?', I will present him with the score of my Te Deum and I hope He will judge me mercifully."

With the recording of the Mass in D minor which accompanies the Te Deum, the Corydon Singers have tackled all three of Bruckner's Mass settings, and with a satisfying consistency, both artistically and technically. This new issue also marks the twenty-first anniversary of the founding of the choir, during which time it has come a long way since its humble beginnings as a chamber choir performing at the Sevenoaks Festival in Kent. At a birthday concert in the Royal Festival Hall in September, Matthew Best and his colleagues tackled-along with the Bruckner Te Deum-nothing less than Beethoven's Ninth Symphony.

This CD is the last of the Corydon's Bruckner series. Matthew Best is not inclined to record a host of early, apprentice pieces merely for the sake of completeness; he believes Bruckner would be appalled at the thought of them being performed publicly. Thankfully, Bruckner penned sufficient top-drawer choral music to keep any enthusiast satisfied. This enthusiast is certainly happy to add this performance of the Te Deum alongside other great interpretations of the work and, given its superlative sound, to also recommend it to you.



### ANTONIN DVORAK

Five Bagatelles for two violins, cello and harmonium Op47 (B79)/String Quintet in E flat Major Op97 (B180)\*The American\*/Terzetto for 2 violins and viola in C Major Op74 (B148)

Lindsay String Quartet; Patrick Ireland, viola

ASV DIGITAL CD DCA806 (DDD/68.38)

● There can be no question that this has become one of the most treasurable series of chamber music recordings of recent times. The performances are fresh, compelling and full of insights, and the recordings of a consistently high standard. You can't ask for more. Two of the issues

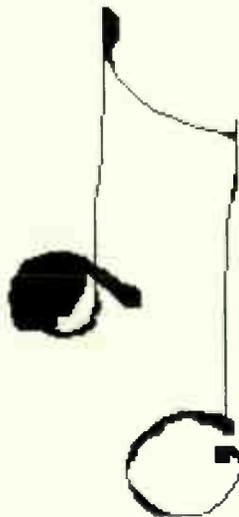
have already attained 'library choice' status, and first impressions suggest this new Dvorak issue will follow them into that category.

The Lindsay Quartet opens with the Five Bagatelles for two violins, cello and harmonium (the Quartet's resident violist, Robin Ireland, forgoes his usual instrument for the harmonium). It isn't quite the improbable combination that it sounds, at least not in the hands of Dvorak. The harmonium takes on a quasi-continuo role, adding its distinctive colour to the bass line, and the results are utterly engaging. If you enjoy the wealth of melody in, say, the Slavonic Dances, then you will find this suite of bagatelles, with their affectionate lyricism, equally irresistible.

Dvorak completed the Bagatelles in just twelve days in May 1878, and included the part for harmonium because the dedicatee played the instrument. He completed the lively and equally tuneful Terzetto in an even shorter time; under a week, in January 1887. Again, this engaging work was written for the pleasure of friends to play.

The main work here is Dvorak's third and last String Quintet, the E flat Major Op97, composed during his time in the United States, hence the subtitle. Like the 'American' string quartet Op96, it is a work utterly characteristic of Dvorak, full of lyricism and lively rhythmic twists and turns. There is even a hint of an American 'hoedown' in the scherzo.

In this exhilarating and idiomatic performance, the Lindsay Quartet is augmented by Robin Ireland's father, Patrick, on the second viola and the recording constantly communicates a shared pleasure in the music-making. This has been a feature of the entire series, the impression that, first and foremost, the Quartet itself is utterly committed to the music and is enjoying discovering and playing it just as you, the listener, are, on the other side of the loudspeakers. As I said at the outset, an



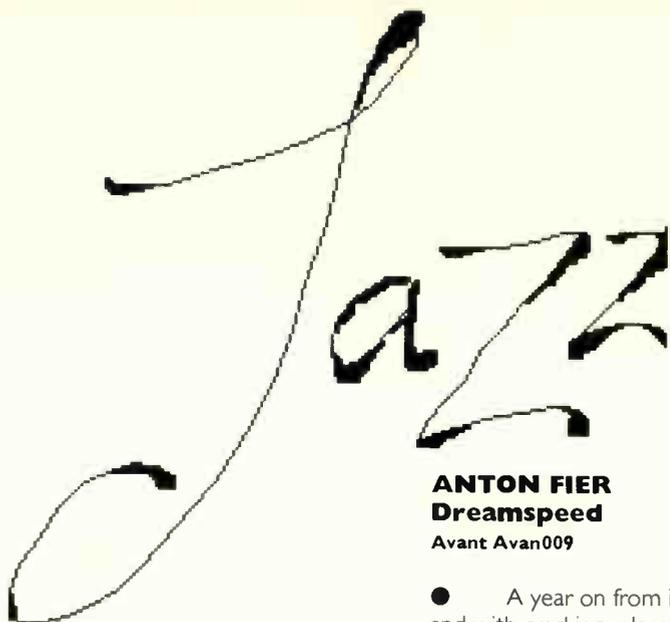
experience to treasure.

### EDWARD ELGAR

Cockaigne (In London Town)- Concert Overture Op40/5  
Symphony No. 1 in A flat Major Op55  
Philharmonia Orchestra; conductor, Sir John Barbirolli  
EMI BRITISH COMPOSERS  
CDM 7 645 1 1 2 (ADD/68.26)

● Barbirolli's heartfelt interpretation still ranks among the finest performances of Elgar's First Symphony, even if the expansive view of the first movement robs it of some momentum, and of some of the tension which runs through this music, but that is more than compensated for by the overall conception of the work, its attention to phrasing and colouring and its sense of a drama unfolding, and how well Barbirolli penetrates the deeper, haunting, even mysterious side of this work. He once told the eminent musicologist and critic, Michael Kennedy, "God, how I love that music," and that perhaps is the intangible quality which distinguishes this performance. Barbirolli also inspired the Philharmonia to play its heart out for him at the Kingsway Hall sessions back in August 1962, not just in the Symphony, but in a brilliant, effervescent recording of the Cockaigne overture. The overture was issued as a coupling to Barbirolli's memorable performance of the Enigma Variations (on LP) and was remastered for CD in 1988. Surprisingly, though, this is the first appearance on CD of the Kingsway Hall First Symphony.

In the 'sixties, the orchestral sound being obtained by EMI (and Decca) from Kingsway Hall was without peer and, as one-by-one those glorious old recordings are transferred to the newer medium, it has been heartwarming to hear how well that original quality has transcended the years. They may lack some of the diamond-sharp clarity of more recent efforts, but in terms of fullness of sound, quality of timbre, spaciousness and atmosphere, they concede nothing (and, frankly, often remain preferable). A performance that came from the heart and still goes straight to it.

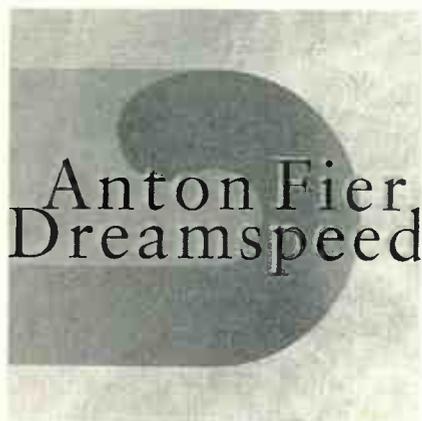


**ANTON FIER**  
**Dreamspeed**

Avant Avan009

**Heavy groove from Anton Fier and snarling jazz from DNA, reviewed by Simon Hopkins. Grooving Guitar from Grant Green and the New York sounds of Mingus, reviewed by Simon Cooke.**

*Simon Hopkins*



● A year on from its inception, and with cracking releases by Buckethead, Naked City, Blind Idiot God - not to mention work by contemporary composers like David Shea and John Oswald - under its belt, John Zorn's Japan-based label Avant returns to the fray with two very different but both highly commendable CD releases.

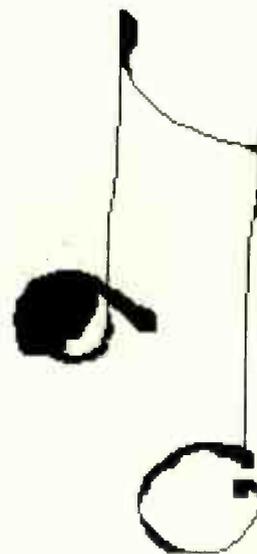
Drummer Anton Fier has been one of the most visible faces on the New York new music scene for at least the last ten years or so. His playing style easily incorporates jazz and rock techniques and has seen him in such varied settings as art school punkers Pere Ubu and the Feelies, Bob Mould's eponymous post-Husker, pre-Sugar trio, alongside the aforementioned Zorn on numerous projects from early punkish improv sessions (say, the sessions caught on 'Locus Solus') to big scale works like 'The Big Gundown', and so on.

But perhaps the work he's best known for is that of The Golden Palominos, the group he led throughout the eighties. They were an odd group, in many ways. Their debut album was both shocking and remarkable - ragged, jagged, freely improvised, hugely rhythmic (and not much else) funk heavily influenced by both Miles Davis' and Ornette Coleman's electric groups. But over subsequent albums the group rapidly evolved with Fier pretty much the only constant member, and a host of guest musicians, singers and songwriters filling the ranks. The names that passed through the group, in fact, make a pretty impressive roll call of the bright lights kicking around on the fringes of rock and jazz in the eighties: Zorn, producer-bassist Bill Laswell, singers like John Lydon, Richard Thompson, T Bone Burnett, Syd Straw, and so on. All culminating in 1991's Venture album 'Drunk With Passion', an out and out rocker heavily featuring the talents of Michael Stipe and Bob Mould.

In some respects it's possibly a surprise seeing a Fier album on Zorn's own label. The latter's on record as describing The Golden Palominos as a perfect example of a supergroup that doesn't work, and indeed, he's personally only present on the group's debut. But then 'Dreamspeed', if it resembles any of the Palominos' work at all, most closely resembles that early work; it's over ten years on, of course, and a dramatically different sounding record, but the feel of the thing, its mood, is in the same ballpark at the very least.

The nine-track 'Dreamspeed' is performed by various musicians drawn from a pool of incredible talent: Fier on drums; Laswell on bass; sampler Matt Stein; P-Funk and Parliament meister-bassist Bootsie Collins in his other, less well known role as a fine rhythm guitarist; Japanese vocalists Makino Kazu and Phew, the latter known for her work with sundry Can members; and the staggering, and still barely-known young San Franciscan avant-metal guitarist Buckethead. In fact the latter's playing is on a much tighter rein than one might expect after the screaming Metal cacophonics of his own debut album released earlier this year, an initial disappointment to this particular guitar fetishist, but no matter: 'Dreamspeed' is a corker from start to finish. Way better, I believe, than we ever had right to expect from a Fier solo record.

One thing is certain from the very outset of this record: this is a date led by a drummer, and grooving is the order of the day. Fier and Laswell pound along relentlessly, half-70s period Miles, half-Can; part-reggae, part-funk, part hip-hop. Around this scaffolding the others fashion an exquisitely improvised sound-sculpture: Makino's moans and Phew's whispered vocals drift in and out of the mix; Mr Head and Mr Collins' guitars weave a twisted, spidery,



echoing mesh around the general proceedings; and Matt Stein's loops and samples turn the whole thing into a soundtrack for some nonexistent, twisted science fiction film.

And then there's the mix. Half of how wonderful this record is must surely be a result of the mixing. I imagine a lot more playing went on at these sessions than you can actually hear on the finished product; although it's an over used truism in music criticism that what you leave out of music matters as much as what you put in, I've never heard evidence of it plainer than here. Instruments and voices appear, take centre stage, and disappear, suddenly, the whole sound-picture constantly shifting, no matter how rooted to that propulsive rhythm. Every little nuance echoes around in the mix, to the point that at times the echoing often defines the rhythm as much as the rhythm section. About the finest, most sophisticated dubmixing you're likely to hear this side of the On-U Sound posse. The Orb? Forget about it.

As a slice of omnivorous mutant dub-metal jazz-funk, this is up there with Ice's 'Under The Skin'.

Stratospherically recommended.



## DNA DNA

Avant Avant006

● And a very different record indeed. DNA - guitarist/vocalist Arto Lindsay, bassist Tim Wright and percussionist Ikue Mori - were a short-lived trio of post-punk improvisers who epitomised No Wave; the nihilistic, intellectual New York response to New Wave that threw up the like of guitar-orchestra composer Glenn Branca and in turn gave birth to the Black Flag/Sonic Youth axis of pre-grunge US indie rock.

This CD captures their final gig (or so I believe) at CBGBs in June 1992, and it's pretty rough stuff. It's a shock to go from the luxuriant sound of 'Dreamspeed' to this scratchy live recording, from the former's heady

grooves to Ikue and Wright's barely-held together rhythms. But DNA made nothing if not exhilarating, by-the-seat-of-your-pants music. Stop, start, stop start, lurch go the rhythms. Scratch, scratch feedback goes Lindsay's guitar (Lindsay's a name known to many, many listeners for his associations with everyone from Zorn to David Byrne, from Brian Eno to Bill Frisell, but for my money his spot-it-in-two-seconds style of guitar-playing - a meld of punk, jazz and Latin - is widely underrated). Moan, shriek, gnarl go his vocals.

A parallel jazz-punk universe. Enter it.

*Simon Cooke*



## GRANT GREEN Street Funk & Jazz Grooves (The Best of Grant Green)

Blue Note O777 7 89622 | 2

● The sleeve notes to this selection of guitarist Grant Green's opus begin by recording the fact that Green, when the term 'acid jazz' was coined, became bracketed with the likes of Funk Inc. If this fact makes buyers drop this double album instantly, then a serious crime is being committed.

Green's career as a guitarist began in the early forties and led him to work with such names as Sam Lazar and Jimmy Forrest. It was here that he learned his craft before moving to New York in 1960, to be quickly snapped up by the prestigious Blue Note label. The early sixties were his most prolific years, and he recorded alongside many of the formative names of modern jazz.

This double album concentrates on the period 1963-1971, when Grant was running through recordings from the standard 'My Favourite Things' to his own compositions in a relaxed, grooving style, but without the heaving beat of many of his contemporaries. Pour yourself a long drink, lie back, and listen. This is a recording of virtuoso modern guitar jazz, leading a solid, accomplished group, in a better

than average quality recording. Light, but good groove.



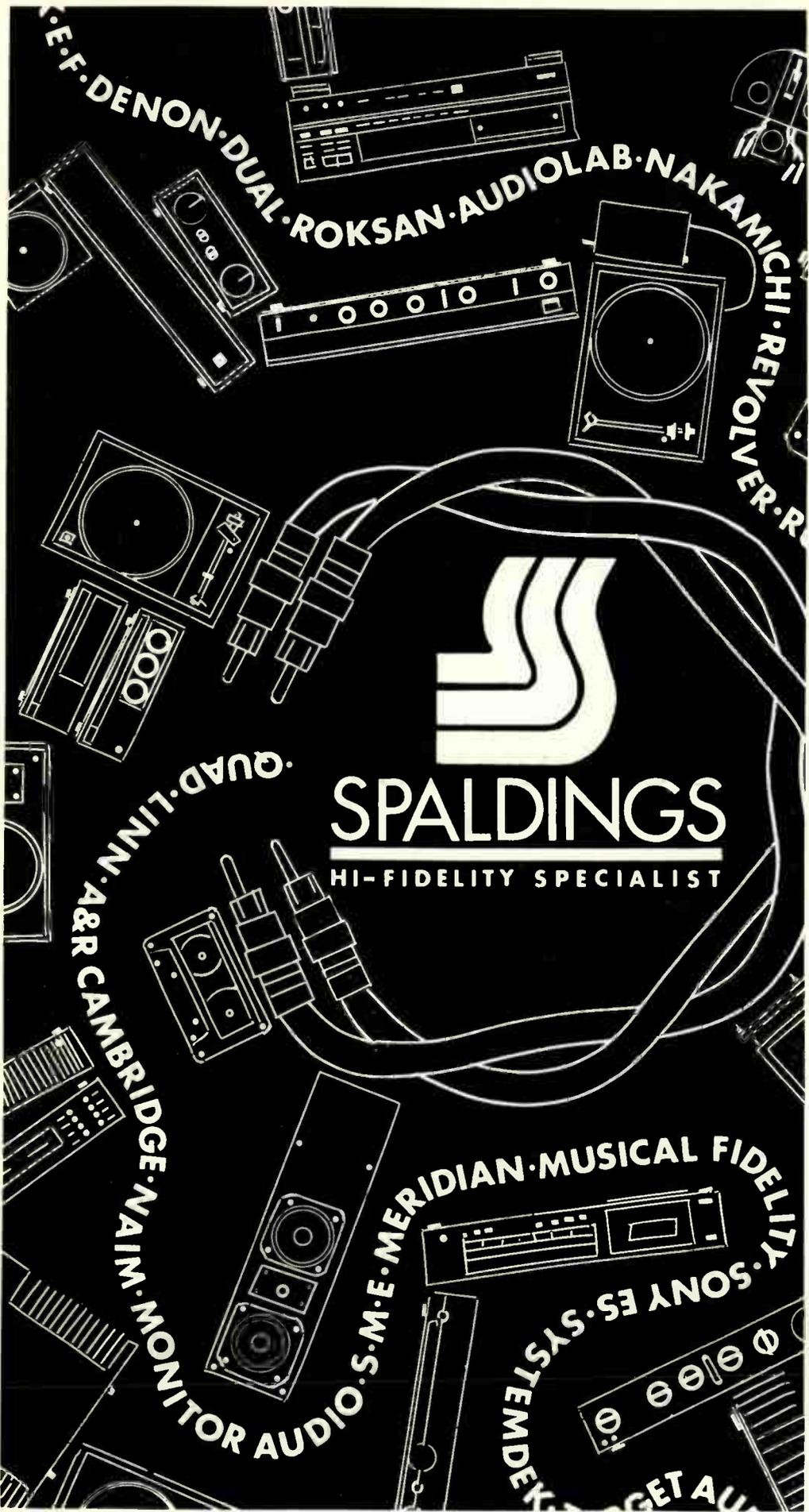
## THE MINGUS BIG BAND '93 Nostalgia in Times Square FDM 36559-2

● "This is New York music" quotes the opening line of the notes. It's a definition which encompasses not only the tracks on this CD, but also the band that recorded it and the character of Mingus himself. Double bass, cool shades, and a pair of hands that should belong to a bareknuckle fighter rather than one of the finest and most accomplished bassists in jazz history, Mingus was typical New York, and the Mingus Big Band covers ten of his tunes in a style of which he would have approved. This is jazz at its best, with players who know the music and each other inside out and who are happy to hold their place in the band rather than steal the limelight.

Like New York and Charles Mingus, this is rough, play-by-ear, high-energy music, with all the sounds of the city weaving their spell within the fabric of the music itself, in the same way that the band plays within the framework of a technically exemplary recording, which is as much part of the music as the tunes themselves.

Easy listening this isn't. It's raw and dangerous music, played the way Mingus would have demanded. Why go to New York when you can bring it home to your CD player?

*Jazz*



**SPALDINGS**  
 HI-FIDELITY SPECIALIST

The most extensive range of quality products in the south-east. Backed by our service department and wide ranging delivery service. Please phone or call in for a demonstration or a copy of our new in house magazine.



BOOTHROYD STUART  
**MERIDIAN**

BARCLAYCARD VISA    ACCESS    BADA

352-354 Lower Addiscombe Rd. Croydon. Surrey CR0 7AF. Tel. 081-654 1231/2040



# WORLD DESIGNS

## by Mail Order

### K5881 KIT

£395 ▼



Here's a superb, Class A, 20watt stereo power amplifier that uses the inexpensive Russian 5881 output valve, a military version of the obsolete American 6L6, intended for low distortion audio work. It has super-quality output transformers (4/8/12 selected internally) to minimise distortion and the input stage uses triode working. A rugged, sixteen-gauge, all-

welded steel chassis is provided, together with protective bottom plate for safety; a protective top cover is an optional extra.

Designed for long life, low running costs and excellent sound quality, K5881 is sensitive enough to be used with a simple passive pre-amp. or our own line-drive pre-amp, and it matches modern loudspeakers well. There is a choke-regulated power supply, plus heavy 4mm 'speaker terminals that accept bi-wiring.

K5881 costs just £395 as a kit of parts, £495 for an easy-build version with made-up tag board and wired mains supply, and £595 fully built from an approved build service. The U.K./Europe version has a 240/220V transformer but 120/110V can be supplied as an alternative - see Overseas details on Order Form, page 63.

### SPECIFICATION

Power	20watts/ch.
Frequency response	16Hz-40kHz
Distortion	0.02%
Separation	60dB
Noise (CCIR)	-103dB
Sensitivity	240mV
Dimensions (mm)	400w,300d,180h
Supply	110/120V or 220/240V, 220W
Weight	16kgs(34lbs)

### VALVE LINE LEVEL PRE-AMPLIFIER £295 ►

We now have finished the design of a super high quality chassis for the line level pre-amplifier. It is constructed from heavy gauge steel with an aluminium anodised and polished front panel. This new chassis comes with the complete kit of parts necessary to build the valve line level pre-amp.

The components are all high quality and include a special screened toroidal transformer, Military Spec. Russian valves, Alps potentiometer, metal film resistors, polypropylene signal capacitors, silver plated copper wire etc.



### ► HIGH DEFINITION LOUDSPEAKER

£295

The High Definition loudspeaker is ideal for low power, high quality amplifiers, transistor or valve. It goes very loud with just 1-5watts, having an enormous sensitivity of 94dB - that's 8dB more than most other speakers. It is also a very easy load for valve amps (8ohms) and it gives a terrifically dynamic and fast sound.

As well as being just about unmatched as a partner for esoteric amps, this speaker is also unusually suited to low powered vintage amplifiers, such as Quad IIs, Radfords, Pye Mozarts and such like.

The High Definition DIY loudspeaker is available as a complete kit, including flat pack cabinet, drivers modified and tested by us, all crossover components and hardware. The flatpack cabinet is finished in an attractive satin black and requires no further finish, but for those who prefer something a little more traditional a mahogany veneer is an option.

If you would like to build your own cabinets we are also offering a drive unit pack that comprises two tweeters and two woofers, modified and tested.

### KLS2 LOUDSPEAKER

Satin Black/Mahogany Veneer  
Drive Unit Pack

£295/£345  
£145

# WORLD DESIGNS

## by Mail Order

world audio design mail order

### 300B VALVE AMP KIT

£750 ▼

### HIGH PERFORMANCE 3-WAY LOUDSPEAKER £729



This is a specialised amplifier based on the highly linear 300B triode valve, designed in 1928 for minimum distortion in amplifiers that had no feedback. Our amplifier similarly has no overall feedback; Tim de Paravicini designed it - including the massive transformers - for minimum distortion, remaining true to the ideal behind the original 300B. But if you want feedback (tertiary or overall), it can be applied without difficulty.

Delivering a conservative 28watts from a 40watt rated valve, our 300B runs its prized assets gently, giving one of the most sweet, open and neutral sounds possible today. Matched with good loudspeakers, it is unsurpassed.

The kit comprises a strong 16-gauge mild steel chassis, fully punched, welded and ground smooth. Finish is a durable 'powder coat' black. A protective bottom plate is provided for safety; a protective top cover is an optional extra. Output terminals (one pair) take 4mm plugs axially and radially for bi-wiring, or heavy gauge bare cable. Output options of 4 or 8 are selected internally at the transformer. A small circuit board carries most of the components. The U.K./Europe model comes with a 240/220V transformer but 110/120V can be supplied as an alternative - see Overseas details and prices on Order Form.

All parts are included in the kit, including polypropylene power supply capacitors, but not the valves, since these are expensive and many different but specialised versions are available.

A fully built version from an approved build service is also available for £1050 (valves extra).  
Availability - end of September 1993

#### SPECIFICATION

Power	28watts
Frequency response	5Hz-36kHz
Distortion	0.2%
Separation	54dB
Noise (hiss/hum)	-100dB/-72dB
Sensitivity	240mV
Dimensions (mm)	405w,295d,175h
Supply	110/120V or 220/240V, 220W
Weight	20kgs(44lbs)

Our high performance 3-way DIY loudspeaker featured in Supplement Nos. 3 & 4 is now available as a complete kit. Included in the kit are all drive units, crossover components and tag boards, precision engineered flat pack cabinet, wadding hardware etc. The cabinet has been designed to be extremely easy to build (even though there are 36 panels for the pair) requiring only wood glue and stretchy carpet tape to clamp the panel in place.

When built, the loudspeaker is comparable to those costing more than twice the price, with a transparency and openness in the midrange that is unmatched by most. The price for this entire kit, including VAT and p&p is £729.

Because some of the drive units in this kit are difficult to source we are offering a drive unit pack, which contains 2x Tonigen Ribbon tweeters, 2x MW-1145 midrange units, 2x MW1075 Bass drivers, all crossover components, tag board and terminals. Price is £420 in p&p.

### K5881 SET OF TRANSFORMERS £220

For those who want to build their own chassis and get the rest of the parts we are making a transformer set available. There are four transformers in all, weighing 12kgs.

1) Mains (1 off)

Secondary: 0-360, 1 x 6.3V centre tapped. Primary 220/240 or 110/120 - please state which on order form. Drop through fixing.

2) Output (2 off)

Designed for low distortion and broad load compatibility, these transformers use high quality materials and complex winding arrangements. The cores are centre-hole fixing to avoid corner flux concentrations, the laminations are thin and of best quality grain orientated steel. Output tapped 4, 8 and 12. Drop through fixing.

3) Choke

For smoothing of the H.T. line to provide best sound quality, a 5H choke that fixes under the chassis. Frame mounting.

### 300B SET OF TRANSFORMERS £430

For those who want to build their own chassis and get the rest of the parts we are making a transformer set available. There are seven transformers in all, weighing 16kgs (35lbs)

1) Mains (1 off)

Secondary: 490V-0-490V, 6 x 5V, 1 x 6.3V.

Primary 220/240 or 110/120 - please state which on order form. Drop through fixing.

2) Output (2 off)

Designed for low distortion and broad load compatibility from the 300B, these transformers use high quality materials and complex winding arrangements. The cores are centre-hole fixing to avoid corner flux concentrations, the laminations are very thin and of best quality grain orientated steel. Output tapped 4 and 8. Drop through fixing.

3) Interval/phase splitter (2 off)

So secret they are potted in a steel case! We can't tell you anything about these, other than Tim says they are very special. Drop through tags.

4) Chokes (2 off)

For individual smoothing of the H.T. lines to provide best sound quality, two 5H chokes that fix under the chassis. Frame mounting.

See page 81 for order form. . .

# Meet-Your-Maker

A reference guide on where to find Britain's manufacturers and what they make. (Some Distributors also listed)

**ACOUSTIC ENERGY** 3a Alexandra Road, London W13 0NP. Tel. 081 840 6335. Acoustic Energy manufacture the award winning Reference Series AE1 and AE2 loudspeakers and the new Aegis Series Model 1, all of which feature the unique AE metal cone drive units. The AE distribution division offers superb high end products from WADIA, GRYPHON, ENSEMBLE and TARA LABS.

**ALCHEMIST PRODUCTS**, 4 Rosebury Mews, London N10 2LG. Call us for a list of our dealers in many areas including - London, Kent, Hampshire, Wilts, Milton Keynes and N. Ireland and for product information on the Kraken, Freya, Bragi, Odin, Genesis and more.

**ALEMA UK LTD.**, 25 Montfere Road, Hove, BN3 1RD. Tel. 0273 202637. Audio: Edison, Andersson. (Trade enquiries welcome for our newly extended range).

**APPOLLO**, The UK based designers and manufacturers of high quality speaker stands and equipment racks have now added to their comprehensive range a modular system ideal for housing audio visual products and CD storage. Please send for our free brochure to Zenith Crown Ltd, Tipton Rd, Dudley, West Midlands, DY14 1EL. Tel. 021 520 5070. Fax. 021 522 2055. - All export trade enquiries welcome.

**ARCAM**, Pembroke Ave, Denny Industrial Centre, Waterbeach, Cambridge, CB5 9PB. Tel. 0223 440964 or Fax. 0223 863384. Manufacturers of the Delta 290 Amplifier and the Delta 280 Digital FM Tuner. The two together produce a sound that has been described as "subtle and intriguing" and that provide "real stuff" - discover this for yourself. For information on not only these products but also the Arcam CD Players, Speakers, Cassette Decks etc., phone or write in to request a brochure - The pleasure is all yours!

**AUDIO COMPONENTS LTD.** Albany Court, Granby Industrial Estate, Weymouth, Dorset, DT4 9TH. Tel: 0305 761017. Fax: 0305 761492. Audio Components manufacture the complete range of Audio Innovations amplifiers, from the £499 series 300 Integrated (still the worlds lowest priced all valve design) to the fearsome Second Audio Triode Amplifiers at £2999/pr. Call us for the latest production information and a list of stockists.

**AUDIONOTE CO.** Unit 1, Block C, Hove Business Ctr, Fonthill Road, Hove BN3 6HA. Tel. 0273 220511. Audionote supply a range of very high quality and very expensive audiophile components including valve output transformers.

**AUDIO REFERENCE**, Kismet Bndge Hill, Epping, Essex, CM16 4ER. 0992 560051. Speaker cabinets made to your specification. Example, small transmission line made with 15mm MDF and 18mm baffle, all apertures cut, grille frames supplied. Veneered and finished £150. We also manufacture high quality speakers at affordable prices.

**AUDIO SYNTHESIS**, 99 Lapwing Lane, Manchester, M20 0UT. Tel. 061 434 0126. Audiophile design, development and distribution. Please contact us for details of: PASSION the passive controller everyone's talking about; SILVERBLUE pure silver interconnect cable and the ultra analog based dac - DSM.

**BANDOR**, Studio II, Penfold Cottages, Penfold Lane, Holmer Green, Bucks. HP5 6XR. Tel. 0494 714058. Aluminium anodised cone drivers with only 1.8 gm moving mass giving full detail to sound covering 2/3 of the frequency spectrum.

**BANDRIDGE LTD.** are the premier suppliers of quality audio and video leads, connectors and speaker cables in the UK. In addition to probably the widest range available, including PROF1 GOLD, SUPER GOLD and SUPER +, offering a level of quality that meets the needs of the most exacting specification. Bandridge of London Ltd. Premier House, Deer Park Road, Wimbledon SW19 081 543 3633.

**CAMPAIGN AUDIO DESIGN**, Llandudno Road, Cardiff CF3 8PG. Tel. 0222 779 401. Supplies / manufactures mailorder, high purity silver interconnects, loudspeaker cables, internal wires and bespoke mains cables. Generous two week trial period.

**CHORD ELECTRONICS**, 3 Bower Mount Road, Maidstone, Kent, Tel. 0622 764874. Audition the Chord SPM 1200 at any of the following branches: Doug Brady HiFi - Liverpool/Leeds/London/Cheshire. Audio Reflections - Leeds. Music Matters - West Midlands and many others. Please call us for details. **CONCORDANT PREMIER TUBE**, 14 Glyn Close, Barwell, Leicester, LE9 8GL. Tel. 0455 843752.

The Excelsior - Designed for the analogue enthusiast. The Exhilarant - Designed for the line enthusiast. The Exquisite - Designed for the analogue and line enthusiast. The Exultant Power Amp fitted to Quad II Hardware.

**CONNECTIONS**, 11 Archer Street, London W1V 7HG. Tel. 081 348 5676. Dealers in: Absolute, Audio note, Audioquest, Deltac, Harmonix, Kimber, Mandrake, MIT, Siltech, Symo, Van den Hul, WBT and others.

**DPA DIGITAL**, Unit 7, Willowbrook Technical Units, Crickhowell Road, St Mellons, Cardiff, CF3 8EF.

Why do reviewers across the world rave about DPA products? Listen to DPA's DACs, transports, amplifiers and cables and discover for yourself.

**IAN EDWARDS**, The Old Chapel, 282 Skipton Road, Harrogate, Yorks. Tel. 0423 500442. Somebody Somewhere must make better storage units for CDs, Music, LPs, HiFi, Books, etc. than

Ian Edwards BUT until he appears, why not send for the brochure showing a selection of HAND MADE units. To do this please send 3 x 2nd class stamps.

**E J JORDAN DESIGNS**, The Oak Manor Bier, nr Tenby, S Pembrokeshire SA70 8QR. Tel. 0834 871 209 or Fax 0834 871 770. Curvilinear metal cones loud speakers were first developed by Ted Jordan in 1963.

EJ Jordan Designs are now World leaders in foil cone technology First and foremost.

**EMF** 2a Bellevue Road, Friern, Barnet, N11 3ES. Tel. 081 361 6734. Manufacturer of Sequel 50w integrated amplifier and the Crystal D2A converter. Please write in for details.

**FALCON ACOUSTICS LTD** Tabor House, Norwich Road, Mulbarton, Norwich, Norfolk, NR14 8JT. Tel. (0508) 78272. U.K. distributors of FOCAL drive units and SOLEN (chateauroux) polypropylene capacitors and the largest inductor manufacturer in the U.K. Comprehensive range of DIY Speaker Parts and Kits, Sub-Bass and Electronic Filters. Every/hing but the wood!

**FARADAY SOUND**, 248 Hall Road, Norwich, NR1 2PW. Tel: 0603 762967. Loudspeakers in CONCRETE. Now you can build your own low density concrete cabinet enclosure Faraday FS1, Siren, FS5, FS10 or a design of your own choice. Stunning sound and reviews. Simple DIY skills only. Full instructions including cabinet construction for only £10. Includes reviews, photos etc. and at least £10 discount off any further products purchased from us e.g. ready made cabinets. Also £25-£150 off any complete loudspeakers!!!

**FOUNDATION AUDIO**, 53 Beecroft Way, Dunstable, Beds. LU6 1EE. Tel. 0582 477550 or Fax. 0582 604001.

We have long been acknowledged as the market leader in sonically superior stands and major in 'specials'. Send for our brochure and details of your nearest stockists.

**FULLERS AUDIO**, 20 Tunbridge Road, Sounthend on Sea, Essex SS2 6LT. Tel. 0702 612116. Fullers Audio produce a range of loudspeakers priced from £329 to £2499 and a complimentary Pre and Power amp combination (electronic).

**J E SUGDEN & CO LTD.**, Valley Works, Station Lane, Heckmondwike, West Yorkshire, WF16 0NF. Tel. 0924 404088. Manufacturers of hand crafted audio products. "A world of Music". Call or write in for information on our SDA-1 Digital to Analogue Converter, SDT-1CD Player, A21a Class 'A' Amplifier, A25B Intergrated Amplifier, A48 Intergrated Amplifier, Au51c Pre Amplifier, Au51p Power Amplifier and more.

**JORDAN WATTS ACOUSTICS LTD.** Cynra Place, 201 Mare Street, Hackney, London E8 3QE. Tel. 081 985 1646. Jordan Watts Acoustics for Sight And Sound.

**KAL**, 45 Old High Street, Folkestone, Kent Tel. 0303245005. Specialists in valve amps & Speakers. Now on demonstration: KAL VT4c/211. Other products are Alphason, AMC, B&W, DPA and many more.

**KESWICK AUDIO RESEARCH**, 54 Coach Road, Outwood, Wakefield, W Yorks, WF1 3EX. Tel/Fax 0924 870606. "I'd say that the Figaro is the best miniature speaker I have heard" Audiophile March 1993. Write in or call for details on our full product range and your nearest stockist.

**LOCKWOOD AUDIO**, Imperial Studios, Maxwell Road, Borehamwood, Herts, WD6 1WE. Tel. 081 207 4472/ Fax. 081 207 5283. Tannoy and Lockwood loudspeaker specialist. Suppliers of drive units, cabinets, crossovers, grille-cloths etc. The authorised Tannoy service agent. Dealers in vintage HiFi.

**LORICRAFT AUDIO**, 4 Big Lane, Goose Green, Lamboum, Berks. RG16 7SQ. Tel. 0488 72267.

Specialist restoration of 301's and 401's using genuine spares and re-manufactured parts to original pristine standards in our newly built work shops designed primarily for these purposes.

**LYNWOOD ELECTRONICS**, Coley Lane Farm, Wentworth, Rotherham, S62 7SQ. Tel. 0709 873667. Lynwood Electronics is famous for manufacturing the only range of audio mains cleaners that really work. A complete range is now available to suit every system and every pocket.

**MARANTZ HIFI UK LTD.**, Kingsbridge House, Padbury Oaks, 575-583, Bath Road, Longford, Middlesex UB7 0EH. Tel. 0753 680868 or Fax. 0753 680428. Marantz is a manufacturer of Hi-Fi separate components, including CD, DCC, cassette decks, amplifiers, tuners, receivers and speakers. Also now active in Home Cinema with Pro-Logic amplifiers and receivers, plus Nicon VCR and video projector.

**MICHELL**, 2 Theobald Street, Boreham Wood, Herts, WD6 4SE. For full information on our full range of excellent products including the Gyrodec, Alecto, Iso, Argo and others please telephone us on 081 953 0771. Michell - Symbol of Precision.

**MICROMEGA UK**, Box No 13, London E18 1EG. Micromega produce the world's widest range of digital front end products from any one manufacturer. Phone or write for a full colour brochure.

**PEAR AUDIO**, 3 Northumberland Mews, Alnmouth, Northumberland, NE66 2RS. Tel. 0665 830862. A wide range of products including Shahinian Loud Speakers - Superelfs, ARCs, Obelisks, Hawks and Diapasons. Dynavector amps and cartridges and Bedini amongst others.

**PERFECT PITCH MUSIC** Hanworth Trading Estate, Hampton Road West Feltham, Middlesex, TW13 6DH. Tel. 081 893 8662. Fax: 081 893 4318. We manufacture the Francinstien CD enhancement system. The Dacula DAC and Perfect Digital and Analogue interconnects. Perfect Pitch also provide freelance design, manufacture, prototyping and test, also valve and solidstate specials.

**PURER SOUND** 4, Abbey Mews, Layeham Park, Staines, TW18 1SH. The name speaks for itself! Call 0784 458176.

**QUANTRUM AUDIO LTD.** PO Box 26, Kilmarnock, Ayrshire, Scotland, KA1 1BA. Tel. 0563 71122.

**AUDIOPHILE CD's & LP's** The UK's largest specialist FONE REFERENCE RECORDINGS SHEFFIELD LAB, WILSON AUDIO, KLAVER 7 V.T.L. etc. Write or phone for full listings and prices.

**REL ACOUSTICS**, Unit 2, New Street, Bridgend Ind Est, Bridgend, Mid Glamorgan, CF31 3UD, UK. Tel. 0656 768 777. International +44 656 768 777. Fax. 0656 766 093. International. +44 656 766 093. The UK's only specialist sub-bass speaker manufacturer. The only one that works! Get your dealer to give you a home demo and find out what the fuss is all about.

**RICHARD ALLAN AUDIO**, Bradford Road, Gomersal, Cleckheaton, W Yorks, BD19 4AZ. Tel. 0274 872442. Fax 0274 869935. Manufacturers of very high quality loudspeaker enclosures and drive units. Examples being the £270 RA8 series 2 as supplied to the BBC and the 5" reviewed Minette 2 at £120.

**SAMBELL ENGINEERING LTD.** Winston Avenue, Croft, Leicestershire, LE9 6GQ. Tel 0455 283251.

**ATACAMA AUDIO SUPPORTS** from Sambell Engineering Ltd. We are the sole manufacturers of the 'SE' range of speaker stands, consisting of an 8", 12", 16", 20" and the award winning 24" high stand. Also three specialist models for the Tannoy 'sixes' Loudspeakers.

**SEQUENCE DESIGN LTD.** 24 Brook Street, Mayfair, London W1Y 1AE. Tel. 071 495 0775. Fax 071 495 0281.

Slim loudspeakers which stand close to a wall or hang like pictures. Likely to cause a glint in the audiophile's eye! (Audiophile); "the answer to a prayer.... a bargain in the extreme" (HiFi News). Available with light or dark grilles and various solid wood finishes. From £199.95 a pair. Call or write in for an information kit and reviews re-prints.

**SHEARNE AUDIO**, PO Box 22, Stevenage, Herts, SG2 8HF. Tel. 0438740953. Following the success of John Shearne's Phase 1 pre power combination, reviewed in an earlier issue of HFW, newly launched John Shearne's Phase 2 integrated amp with many of the design features of the Phase 1. R.R.P. £495, 50 wpc & same finish as Phase 1 pre power also option of phono stage for Phase 2 £95.

**SLATE AUDIO**, 47 Gemini Close, Leighton Buzzard, Beds. LU7 8UD. Tel. 0525 384174. Slate have NEVER had a bad review. Discover why? for yourselves. See the excellent review in Hi Fi Choice's latest stands supplement. Contact us now for more information on this and also on our Garrard 401/301 marble plinths. Slate - still the best loudspeaker stands in the world.

**THE SPEAKER COMPANY**, Unit 9, Waterside Mill, Waterside, Macclesfield, Cheshire, SK11 7HG. Tel. 0625 500507. The Speaker Company are a new company offering a wide range of loud speaker units from Audax, Celestion, KEF, Morel SEAS and many more. Also a wide range of speaker accessories the keen builders.

**TARGET AUDIO PRODUCTS PLC**, Britannia House, Leagrave Road, Luton, LU3 1RJ. The Audio equipment, rack and speaker stand specialist. For information on our products please telephone or write.

**WOLLATON AUDIO**, 134 Parkside, Wollaton, Notts, NG8 2NP. Tel/Fax. 0602 284147. Trying to bring imported high end down in price with Wollaton is the UK distributor of the following products: XLO interconnects and loudspeaker cables - "The best in the world", Clements loudspeakers; ribbons and/or moving coil drive units in outstanding value loudspeaker systems. Monarchy Digital: transports and converters (including the model 33 D to A with built in high quality preamp) to match the best at a fraction of the price.

**WILMSLOW AUDIO LTD.** Wellington Close, Parkgate Trading Est. Knutsford, Cheshire, WA16 8DX. Tel. 0565 650605. Extensive range of drive units and over 30 different designs of self-assembly kits. Everything required for the loudspeaker builder and four dem rooms to listen to the kits in built-up form.

To Advertise in this section, please contact Caroline Knott on: 071 266 0969

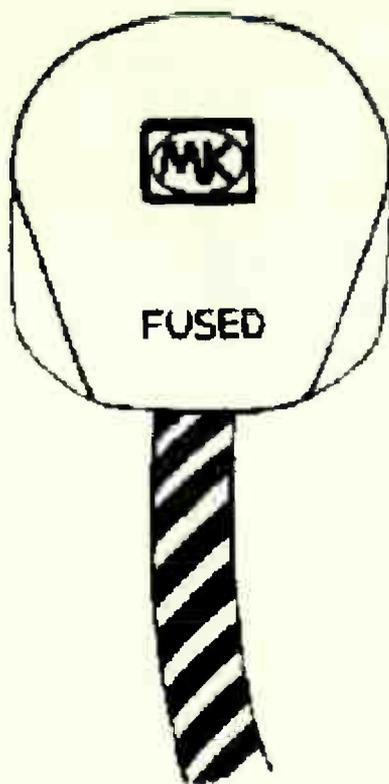
## COURT & SPARK

**RHODIUM PLATED MK  
MAINS PLUG FOR A  
LONGER LASTING  
CLEAN CONTACT  
SUPERIOR THAN  
GOLD RHODIUM WILL  
LAST TEN TIMES  
LONGER!!**

**13 Amp            £10.75  
15 Amp            £12.75**

**Wall Socket  
Single            £18.75  
Double           £26.75**

**(p+p included)**



**TO ORDER SEND  
CHEQUE/POSTAL  
ORDER WITH NAME  
AND ADDRESS MADE  
PAYABLE TO:**

**T. WESTERMAN  
41 GREVILLE STREET  
HATTON GARDEN  
LONDON EC1**

**TEL. 071 - 242 2329**



**Francinstien**  
STEREO ENHANCEMENT SYSTEM

*"Its a gentle elegant effect - and a very even one..... Nothing stands out unnecessarily..... One simply becomes more aware of the music."*

**Eric Braithwaite - Hi-Fi World**

*"CD's sounded better defined, the soundstage having a more definite shape. It was as if there was more air around each strand in the mix, allowing you to hear it more distinctly, more separately."*

**Andrew Cartmel - Hi-Fi Choice**

*"If you want an analogue pickup cartridge sound from your CD, then this equaliser - crossfeed does the trick."*

**Martin Colloms - Hi-Fi News**

For further information contact:

**Select Systems Ltd., Hanworth Trading Estate, Hampton Road West, Feltham,  
Middx TW13 6DH**

**Tel: 081-893 8662 Fax: 081-893 4318**

# Hi-Fi World SPECIAL MAIL ORDER

## HI-FI WORLD SOLID SILVER INTERCONNECTS.

Constructed from strands of solid core silver wire and silver soldered to the excellent Neutrik Profi

phono plugs which are probably the best available. These line level interconnects offer the ultimate in transparency, openness

and detail. The plugs are bonded to the cable with adhesive heatshrink to ensure that the cable has a long life without fatigue occurring at the plug join. Available exclusively through Hi-Fi World Mail Order

**HI-FI WORLD SOLID SILVER CABLE.....£139.95/1M PAIR.**



## HI-FI WORLD SILVER PLATED COPPER INTERCONNECTS.

These have a similar construction to our solid silver cables, but use silver plated copper and standard Gold Phono

plugs. Because the majority of the audio signal is passed through the skin of a cable these can approach the quality of a silver cable with the cost of a normal high quality copper cable.

**HIFI WORLD SILVER PLATED COPPER INTERCONNECTS £69.95/1M PAIR.**

## HIGH QUALITY MAINS CABLES.

Supplied to Hi-Fi World by Campaign Audio Design these mains cables are screened to reduce Radio Frequency and Electromagnetic Noise. They also come with a VDR fitted which protects equipment from mains spikes. The MK plugs have a silver plated fuse and holder for the cleanest supply. Available with IEC or Figure eight (Marantz/Philips CD players) equipment plugs or with a hard wired, soldered 4-way mains block.

**1M WITH IEC PLUG £19.20**  
**1M FIGURE 8 PLUG £15.75**  
**1M 4-WAY BLOCK £31.95**



## ALLSOP DCC CLEANER

The new Allsop Digital Compact Cassette cleaner has been officially approved by Philips. This cleaner effectively removes tape particle residue and other contaminants which can cause signal dropout. Its unique autoreverse feature cleans both sets of capstan and pinchrollers. Each pack comes with two sets of refill parts.

**ALLSOP DCC CLEANER £14.99**

## ANTI-STATIC RECORD SLEEVES



Translucent sleeves, treated to reduce static and dust attraction, supplied in packs of fifty. They will fit inside ordinary printed inners.

**LP SLEEVES (50) .... PRICE £7.50**

## KONTAK

An effective cleaning solution that removes contaminants from electrical connections. After application, a system regains its original life, sparkle and vigour.

**KONTAK ..... £19.00**

## SME RECORD CLAMP



This superbly engineered record clamp from SME, originally developed for the legendary Model 30 turntable, will iron out warps in your records. Suitable for all non-detachable record spindles from 10mm to 1.7mm.

**SME RECORD CLAMP £79.95.**

## MILTY TRIPLE A

Suitable for all types of cassette players including auto-reverse, the Milty Triple A wipes clean single/dual capstans and pinch rollers with a non-abrasive cleaning action.



**MILTY TRIPLE A £6.50**

## MILTY MAGNET IX

The Milty Magnet IX comes complete with battery. It requires approx one second to de-magnetise the heads removing magnetic charge build up. Recommended after every 30 hours of playing time.

**MILTY MAGNET IX £10.50**

## NAGOAKA CD CLEANING KIT

Careful manual cleaning is the most effective way of removing surface contaminants. Nagaoka's kit includes a solvent and chamois leather pad to bring back a pristine shine to Compact Discs.

**NAGOAKA CD CLEANING KIT £10.50**



## HI-FI WORLD DRY STYLUS CLEANER

Keep your stylus sharp and bright for perfect tracking without using fluid. Cut a strip about the size of a match-box striker off this sheet of card and draw it gently under the

stylus from back to front. One sheet of this card, with its aluminium-oxide micro-abrasive coating, should be enough to clean your stylus at least forty times.

**DRY STYLUS CLEANER ... £1.95**

## GOLDRING EXSTATIC MAT

For vinyl users, the Goldring Exstatic is a felt mat made with fine carbon fibre strands. This helps to reduce positively charged static electricity that builds up on the surface of records.

**GOLDRING EXSTATIC MAT.....£7.50**



## SUPER EXSTATIC CARBON FIBRE DISC CLEANER

Effectively removes dust and grime from record grooves, this cleaner is a combination of one million carbon fibre filaments and a soft velvet cleaning pad.

**EXSTATIC CARBON FIBRE CLEANER £9.75**

# AUDIO ACCESSORIES

## AUDIO-TECHNICA GREEN CD RING STABILIZER

Detachable rings which fit around the circumference of a Compact Disc, which add a small but significant amount of mass, improving its stability when it rotates at high speed in the CD player. Improvements can include better focused images and a denser and richer sound.

**GREEN RING STABILIZER (5) £6.50**

## AUDIOQUEST LASER GUIDE

Laserguide is a silicone based treatment - not a cleaner - for CD which has a refractive index close to that of a disc's polycarbonate surface. Applied using a cotton cloth, it allows the laser to read the pits below the transparent layer more clearly. Openness and depth of sound are said to be improved, while Laserdiscs benefit with a sharper picture and less noise. one bottle treats approximately 300 CDs.

**AUDIOQUEST LASERGUIDE £14.95**

## PIXALL MK II RECORD CLEANER

Made in the UK, this simple record cleaner uses a replaceable roll of sticky tape which lifts dust out of the groove. After use, the dirty length of tape can be peeled off, reducing the risk of any gritty particles picked up being ground back into the vinyl. When the tape runs out, a new roller is simply clipped in.

**PIXALL MARK II £10.75  
REFILL ROLLER £2.75**

## ON STYLUS CLEANER

A simple but effective cleaning kit, consisting of a stylus brush and cleaning solution. Used carefully, it will keep your stylus sparkling.

**STYLUS CLEANING KIT £2.50**

## AUDIO-TECHNICA RECORD CLEANING SYSTEM

Removes both dirt and static; a tiny amount of cleaning agent in the handle removes

fingerprints, oil and film, while a pad lifts off dust. Pad brush and fluid are supplied.



**AUDIO-TECHNICA RECORD CLEANING SYSTEM ..... £10.50**

## AUDIO-TECHNICA CD LENS CLEANER

A disc the size of a CD, with fine brushes - one of which is dampened with cleaning fluid. As the disc spins in the player, the brushes clean the laser lens. It may not suit all machines.

**CD LENS CLEANER ..... £16.25**



this green coating, formulated by Japanese company Mitsubishi, to the inner and outer edges of the CD reduces this interference, improving sound quality.

**LASAWAY GREEN PEN £8.50**

## RECORD STORAGE CUBE

Designed to hold about a hundred LPs, with an internal width of 37cm, height of 32.5cm and depth of 32cm. The cubes can be stacked or placed alongside each other - and are even strong enough to be used as seats! Made from

15mm MDF (Medium Density Fibreboard) with a smart durable black paint finish, the cube is supplied in flat-pack form ready for home assembly.

**RECORD STORAGE CUBE . £42 EACH**

## FREE!

**20 RECORD SLEEVES WITH 2 CUBES**

**50 RECORD SLEEVES WITH 4 CUBES**

**6 CUBES FOR THE PRICE OF FIVE ..... £210**

**8 CUBES FOR THE PRICE OF SEVEN! ..... £294**

## LASAWAY GREEN PEN

When red laser light hits the reflective surface of a CD, some of it can be scattered off the edges of the disc, causing optical interference. Applying

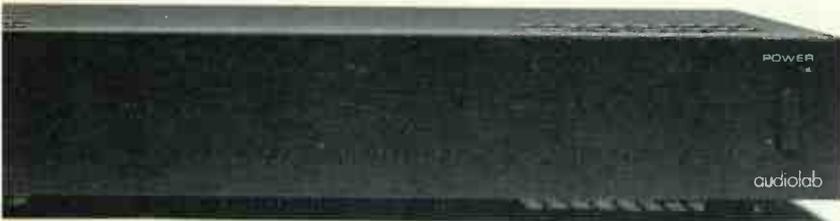


Record storage cubes

# The *new* Audiolab *Digital-Analogue* convertor



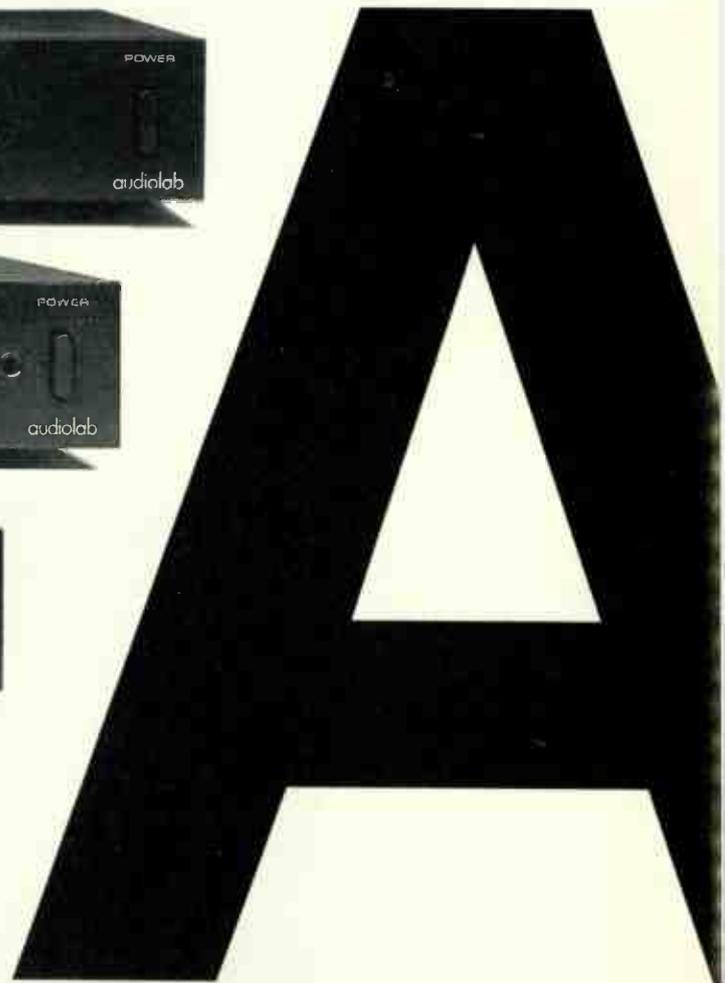
The Audiolab product range:  
8000A Integrated amplifier  
8000C Pre-amplifier  
8000P Stereo power amplifier  
8000T FM/AM tuner  
8000M Monobloc power amplifier  
8000DAC digital-analogue convertor



Winners

FBA AWARDS 1993

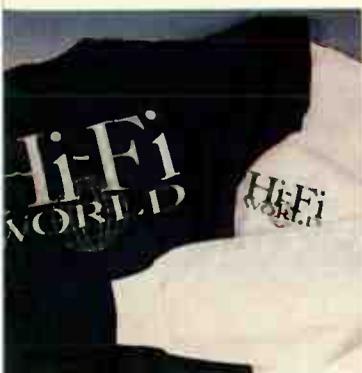
Audiolab 8000A  
Best Integrated Amplifier  
Audiolab 8000T Best Tuner  
Audiolab 8000DAC  
Best Digital Component  
Audiolab 8000C & 8000P  
Best Hi-Fi Separates



## AUDIOLAB

Cambridge Systems Technology Limited, Spitfire Close, Ermine Business Park, Huntingdon, Cambs. PE18 6XY. Tel 0480 52521

# Hi-Fi World SPECIAL MAIL ORDER



## SWEATSHIRTS AND T SHIRTS

Printed with 'Hi-Fi World' and our slogan 'The Magazine for Enthusiasts' front and back to prove to everybody you read probably the best magazine in the universe.

**SWEATSHIRTS** ..... £12.00  
**T-SHIRTS** ..... £7.99



## SOUND SWIVEL

A rotating, upright, double-sided, storage cabinet with space for up to 160 Compact Discs, including 8 double jewel-cases. Mounted on an all-steel turntable, it swivels smoothly through 360 degrees giving easy access to the storage compartments either side. Manufactured in durable MDF with a Black Ash effect finish, the Sound swivel comes packed for self assembly with full instructions.

**SOUND SWIVEL** ..... £49.95

## MICHELL ENGINEERING PLUGS

Craftsmanship marks out Michell Engineering's range of gold and rhodium plated plugs from the competition. Simple but elegant.

**GOLD-PLATED SIDE ENTRY BANANA PLUGS (4)** £10.00

**GOLD-PLATED SURE-LOC BANANA PLUGS (4)** £14.95

**RHODIUM-PLATED SURE-LOC BANANA PLUGS (4)** £18.95

**GOLD-PLATED SPEAKER CABLE CONNECTORS (4)** £10.00



## ARCAM RCA PHONO PLUGS

This heavy-duty phono plug, specially made in Japan to Arcam's specification, will accept cable up to 7mm in diameter. The body is nickel-plated, the contacts plated in gold. Supplied in pairs marked with either one ring or two to allow directionality to be taken into account.

**RCA PHONO PLUGS (4)** £15.50

## GOLD PLATED 4MM BANANA PLUGS

We have a new style, heavy-duty, gold-plated banana plug with a unique type of axial solderless connection for loud-speaker cables. The cable is stripped back and pushed into a clamping collar which is then screwed down tight, accepting cable up to 6mm external diameter and 4mm core diameter. Supplied in sets of four.

**BANANA PLUGS (4)** £8.00

## GOLD-PLATED SPADE CONNECTOR

A heavy-duty gold-plated spade connector for loudspeaker screw terminals with a unique axial clamp connector which requires no soldering.

**SPADE CONNECTOR (4)** .... £10

## NEW FROM HI-FI WORLD!

### CD/MC TOWER

Ready built, the CD Tower is of all metal construction with slot-in side panels finished in either mahogany or black ash. Each of the trays slides out for access to the stored cassettes and discs. Total capacity is 160 CDs and 52 cassettes.

**CD/MC TOWER** £199.90



### LIFT JUMBO

This aluminium Compact Disc stacker holds seventy-five CDs, which can be flipped forward by the fingertips to display the insert. Browse through your CD collection without having to squint at the small lettering on the spine.

**LIFT JUMBO** £44.95



# Hi-Fi World

# AUDIO ACCESSORIES

## EQUIPMENT SUPPORTS

FrameWorks is an innovative range of strong, rigid, and versatile hi-fi supports. They

for several months now and have yet to find anything that comes close. They are supremely rigid and hard wearing and will extract the



**H100 ISOLATION TABLE**

achieve a high standard of strength and rigidity from their 'triangulate' design. The shelves are supported on struts of thin cross-section, which in turn are rested on struts of thicker section, and through these connected to four sturdy corner columns.

This variety of cross-sectional frame members effectively reduces resonances through their spread and dissipation. The supporting columns may also be filled, to further optimise these supports for your equipment.

Versatility is guaranteed by the variety of two and three shelf supports available as well as the stacking unit for additional shelves and the isolation shelf, which can be used as a stand-alone unit on a shelf or floor, if preferred.

So these shelves will stack and expand as your system grows. All you need do is add components as and when you feel the need.

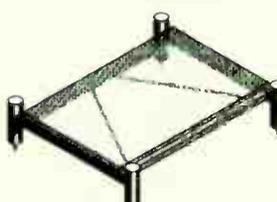
FrameWorks stands come with attractive toughened smoked glass, which is fully 10mm thick. This is supported on spikes which have rubber dampers around them to reduce vibration and lessen the tendency for the glass to slide. Metal parts are finished in a hardwearing satin black powder coat.

We at Hi-Fi World have been using Frameworks stands

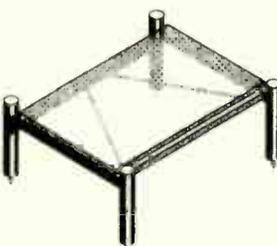
best out of any equipment. Frameworks' excellent hi-fi equipment stands are now available through our Mail Order Department. Please phone for further details: 071 266 0464



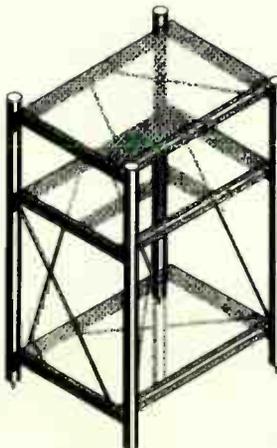
**H700 3 SHELF EQUIPMENT RACK**



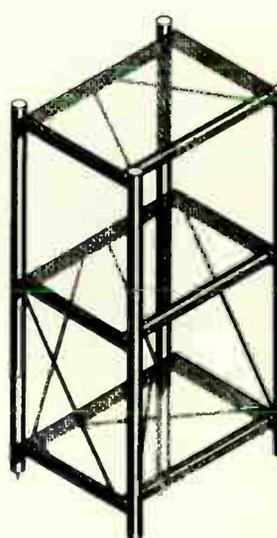
Isolation **H100**



Stacker **H175**



**H700**



**H900** Self assembly

**PRICES FOR FRAMEWORKS EQUIPMENT STANDS ARE AS FOLLOWS;**

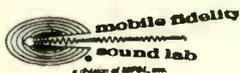
CODE	HEIGHT	PRICE
H100	100MM	£109
H175	175MM	£119
H500	500MM	£205
H700	700MM	£275
H900	900MM	£305

**ALL FRAMEWORKS SHELVES ARE 550MM WIDE BY 450MM DEEP.**

**H500**

All prices include VAT & p+p for UK only.

# MOBILE FIDELITY



24 CARAT GOLD PLATED COMPACT DISCS



A unique opportunity to obtain the ultimate in CDs. For high resolution and immortality Mobile Fidelity plate these discs with 24 carat gold. Almost unobtainable elsewhere, they are not cheap - but what price excellence?

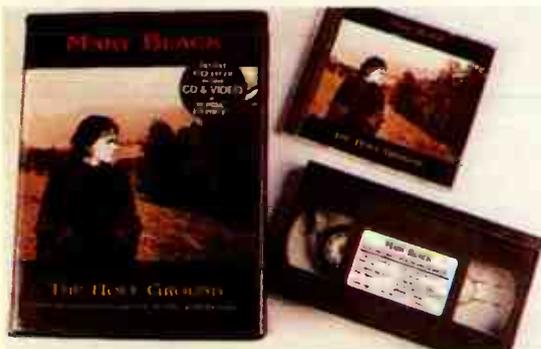
Mobile Fidelity Gold Discs offer better sound quality for many reasons, not least in that they are specially manufactured in Japan using real gold as a coating. The gold Ultradisc was developed in conjunction with the Ultech Corporation. It has fewer pinholes, better durability and a more extended life. Accelerated ageing tests have shown that these gold discs outlast normal types by a considerable margin.



## MARY BLACK PROMOTION

CD & VIDEO FOR £12.99 (inc p+p) WHILST STOCKS LAST

This video compilation contains four recordings live at the Royal Albert Hall whilst Mary Black was on tour. The pack also contains her new album, *The Holy Ground* which is available on CD. A superb idea for a gift at an ideal price.



- BOSTON**  
THIRD STAGE
- SANTANA**  
ABRAXAS
- STEVIE WONDER**  
INNERVISIONS
- ROY ORBISON**  
MYSTERY GIRL
- LYNYRD SKYNYRD**  
SECOND HELPING
- KEITH RICHARDS**  
TALK IS CHEAP
- CREAM**  
DISRAELI GEARS
- JOHN LEE HOOKER**  
THE HEALER
- RUSH**  
MOVING PICTURES
- U2**  
WAR
- DOORS**  
LA WOMAN
- DOORS  
STRANGE DAYS
- ROBERT CRAY**  
STRONG PERSUADER
- DAVE BRUBECK**  
TIME OUT
- BOB DYLAN**  
BLONDE ON BLONDE
- PAUL & LINDA MCCARTNEY**  
RAM
- JACKSON BROWN**  
LATE FOR THE SKY
- JANIS JOPLIN**  
PEARL
- STEVE WINWOOD**  
ARC OF A DIVER
- WILLIE NELSON**  
SHOTGUN WILLIE
- JONI MITCHELL**  
COURT AND SPARK
- ELVIS PRESLEY**  
THATS THE WAY IT IS
- QUEEN**  
A NIGHT AT THE OPERA
- BEACH BOYS**  
PET SOUNDS
- STEVE MILLER**  
FLY LIKE AN EAGLE
- ALBERT KING**  
BORN UNDER A BAD SIGN
- ERIC CLAPTON**  
461 OCEAN BLVD
- SLOW HAND  
**BRYAN ADAMS**  
RECKLESS
- STING**  
NOTHING LIKE THE SUN
- JOHN COLTRANE**  
BLUE TRAIN
- B B KING**  
LIVE AT THE REGAL
- EARL KLUGH**  
FINGER PAINTINGS
- TOM PETTY**  
DAMN THE TORPEDOES
- HARD PROMISES  
**CHARLIE MUSSLEWHITE**  
MEMPHIS, TENNESSEE
- BELAFONTE**  
RETURNS TO CARNEGIE HALL
- MAXINE SULLIVAN**  
SINGS THE MUSIC OF BURTON LANE
- THE WHO**  
QUADROPHENIA (DOUBLE)
- TOMMY (DOUBLE)  
WHO ARE YOU
- SUPERTRAMP**  
BREAKFAST IN AMERICA
- CRIME OF THE CENTURY  
**FRANK SINATRA**  
SONGS FOR SWINGING LOVERS
- TUMBLEWEED CONNECTION  
HONKY CHATEAU
- MADMAN ACROSS THE WATER  
GOODBYE YELLOW BRICK RD(DBL)
- BOZ SCAGGS**  
SILK DEGREES
- ROD STEWART**  
EVERY PICTURE TELLS A STORY
- JEFF BECK**  
BLOW BY BLOW
- WIRED  
**JOE JACKSON**  
NIGHT & DAY
- BLIND FAITH**  
BLIND FAITH
- HUEY LEWIS & THE NEWS**  
SPORTS
- JETHRO TULL**  
THICK AS A BRICK
- STAND UP  
**THE POLICE**  
SYNCHRONICITY
- MOODY BLUES**  
DAYS OF FUTURE PASSED
- IN SEARCH OF THE LOST CHORD  
**ALLMAN BROTHERS**  
LIVE AT FILLMORE EAST(DBL)
- EAT A PEACH (DBL)  
**STEELY DAN**  
AJA
- GAUCHO  
**CAT STEVENS**  
TEASER & THE FIRECAT
- TEA FOR THE TILLERMAN  
**DEF LEPPARD**  
HYSTERIA
- PYROMANIA  
**BEACH BOYS**  
SURFER GIRL/SURFIN USA (DBL)
- JOHN KLEMMER**  
TOUCH
- JEFFERSON AIRPLANE**  
CROWN OF CREATION
- VOLUNTEERS  
**CARPENTERS**  
SONG FOR YOU
- THE BAND**  
MUSIC FROM THE BIG PINK
- STING**  
THE DREAM OF THE BLUE TURTLE
- HALL & OATES**  
VOICES
- HARRY NILSSON**  
NILSSON SCHMILLSON
- AFTER THE HURRICANE**  
SONGS FOR MONSERRAT
- PINK FLOYD**  
THE WALL (£38.99 GOLD CD)
- DARK SIDE OF THE MOON  
All Gold CDs: £25.00 (single);  
£35.00 (dbl)

## ★★★ NEW TITLES ★★★

Mastersound Album Classics remastered with Sony's 20-bit 'Super Bit Mapping' process. The reflective coating is pure 24-carat gold.

- |  |   |
|--|---|
| <b>AEROSMITH</b><br>TOYS IN THE ATTIC<br>CK 525857                           | <b>BILLY JOEL</b><br>52ND STREET<br>CK 5258         |
| <b>BOSTON</b><br>BOSTON<br>CK 52856  | <b>MILES DAVIS</b><br>KIND OF BLUE<br>CK 52861      |
| <b>DAVE BRUBECK</b><br>TIME OUT<br>BOB DYLAN<br>BLONDE ON BLONDE<br>CK 53016 | <b>BRUCE SPRINGSTEEN</b><br>BORN TO RUN<br>CK 52859 |
| Special price: £32.95  | <b>WEST SIDE STORY</b><br>ORIGINAL CAST<br>CK 53152 |

A rich and varied selection of recordings,  
all offered at very competitive prices!

**NEW THIS MONTH**



CHESKY RECORDS THE COLLECTION £10.50  
(CD ONLY) JUST ARRIVED FROM THE USA

**SEE FOR MILES VINYL**

A WILD SELECTION OF LIMITED STOCK VINYL WHICH IS UNFORTUNATELY DECREASING \*\*\*\*\* GET THEM WHEN YOU CAN AT THE RIGHT PRICE!

**THE ANIMALS**

THE EP COLLECTION

**PP ARNOLD**

THE BEST OF

**KEVIN AYERS**

THE COLLECTION

**CHUCK BERRY**

THE EP COLLECTION

**DAVE BERRY**

THIS STRANGE EFFECT

**ROBERT CALVERT**

HYPE

**CARAVAN**

THE BEST OF

**BOBBY CHARLES**

SMALL TOWN TALK

**EDDIE COCHRAN**

THE EP COLLECTION

**THE CRICKETS**

FILE 61-65

**BO DIDDLEY**

THE EP COLLECTION

**THE EAGLES**

SMASH HITS

**HERMANS HERMITS**

THE EP COLLECTION

**THE HOLLIES**

THE OTHER SIDE OF

**NOT THE HITS AGAIN**

STEVE HOWE WITH

**BODEST**

THE EARLY YEARS

**MARSHA HUNT**

WALK ON GUIDED SPLINTERS

**BB KING**

BLUES IS KING

**THE KINKS**

THE EP COLLECTION

**THE EP COLLECTION VOL 11**

**JERRY LEE LEWIS**

THE EP COLLECTION

**ROBERT PALMER WITH**

**ALAN BOWN**

THE EARLY YEARS

**PINK FLOYD**

ALBUM TAMPERS

**THE SEARCHERS**

THE EP COLLECTION

**THE SHADOWS**

THE EP COLLECTION VOL 1

THE EP COLLECTION VOL 11

**SANDIE SHAW**

THE EP COLLECTION

**TOMMY STEELE & THE**

**STEELEMAN**

THE ROCK 'N' ROLL YEARS

**THE TROGGS**

WILD THINGS

**HANK MARVIN GUITAR**

**SYNDICATE**

SAME TITLE

**NEW YORK DOLLS**

PERSONALITY CRISIS



SEE FOR MILES LPS £ 7.99

**ISIS RECORDS**

HANDEL AND SCARLATTI  
BACH GREAT ORGAN WORKS  
HANDEL'S 1720 HARPSICHOED  
HENRY PURCELL SUITES

CD ONLY £12.99

**SPECIAL DELIVERY TOPIC (CD ONLY)**

**JUNE TABOR**  
AIRS AND GRACES  
ASHES AND DIAMONDS  
**MARTIN CARTHY**  
NIGHT OF PASSAGE  
**JOHN KILPATRICK**  
FLAME CAPERS  
**PETER BELLAMY**  
THE TRANSPORTERS  
**RICHARD THOMPSON**  
STRICT TEMPO  
**MARTIN CARTHY & DAVE SWARBRICK**  
SKIN AND BONE  
**TERRY ALLEN**  
LUBBOCK (ON EVERYTHING)  
**WOODY GUTHRIE**  
STRUGGLE  
**NICK JONES**  
PENGUIN EGGS (CD ONLY)  
**DICK GAUGHAN**  
GAUGHAN (CD ONLY)  
**RON KAVANA**  
HOME FIRE  
**PETER HOLSAPPLE & CHRIS STAMEY**  
MAVERICKS  
**PATRICK STREET**  
IRISH TIMES  
**RORY BLOCK**  
TURNING POINT (CD ONLY)  
**GREGSON/COLLISTER**  
MISCHIEF  
A CHANGE IN THE WEATHER  
LOVE IS A STRANGE HOTEL  
THE LAST WORD (£12.99 CD ONLY)  
**CLIVE GREGSON**  
WELCOME TO THE WORKHOUSE

**JONATHAN RICHMAN**

1. JONATHAN  
JONATHAN GOES COUNTRY  
JONATHAN RICHMAN  
**REBIRTH BRASS BAND**  
REBIRTH KODON IT LIVE  
VARIOUS ARTISTS  
HAND CASH  
**MARTIN CARTHY AND DAVE SWARBRICK**  
LIFE AND LIMB  
**BLOWZABELLA**  
VANILLA  
**BOBBY KING & TERRY EVANS**  
LIVE & LET LIVE  
RHYTHM, BLUES, SOUL  
**SUGAR RAY & THE BLUE-TONES**  
KNOCKOUT  
**ROBERT EARL KEEN JNR**  
WEST TEXTURES  
**THE METERS**  
THE METERS JAM  
GOOD OLD FUNKY MUSIC  
CDs £10.99

**CLASSIC ROCK CDS**

**GRAM PARSONS**  
WARM EVENINGS  
**NEIL YOUNG**  
TRANS  
NEIL YOUNG  
OLD WAYS  
**BLOW UP**  
OUT  
**SPARKS**  
SPARKS  
**THE ZOMBIES**  
BEGIN HERE  
**MOODY BLUES**  
THE MAGNIFICENT  
**JOHN MAYALL**  
NOTICE TO APPEAR  
**RY COODER**  
CHICKEN SKIN MUSIC  
**WISHBONE ASH**  
THERES THE RUB  
**TOM WAITS**  
NIGHTHAWKS AT THE DINER  
**STEVE MILLER BAND**  
SAILOR  
**TIM BUCKLEY**  
GOODBYE & HELLO  
**SANTANA**  
SANTANA  
**THE GRATEFUL DEAD**  
ANTHEM OF THE SUN  
CLASSIC ROCK CDS £11.99

**BULLSEYE BLUES**

**ANN PEEBLES**  
FULL TIME LOVE  
**SUGAR RAY & BLUETONES**  
DON'T STAND IN MY WAY (CD)  
**CHAMPION JACK DUPREE**  
FROM NEW ORLEANS (CD)  
**LITTLE JIMMY KING & THE MEMPHIS SOUL SURVIVORS**  
LITTLE JIMMY KING (CD)  
**OTIS CLAY**  
SOUL MAN (CD)  
Bullseye CDs £11.99

**HI-FI WORLD**



**RECORD MAIL ORDER**

Four excellent test CDs recommended by Hi-Fi World for sound quality and sound checking. Both Chesky jazz sampler CDs provide a wide selection of listening tests and music for audiophiles. Volume 2 includes 37 new tests including height tests, dynamic drum tests and many more. Well worth having in your collection.



Chesky Jazz sampler vol. 1  
£13.49



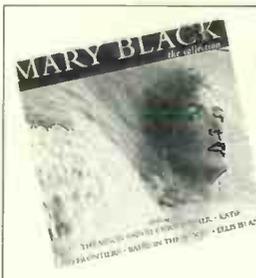
Chesky Jazz sampler vol. 2  
£13.49



SOUNDCHECK The professional audio test disc - £19.95



DENON Audio technical CD £15.00



Mary Black - The Collection  
£11.99



The Sheffield Track and Drum Record - £14.49

**ROUNDER**

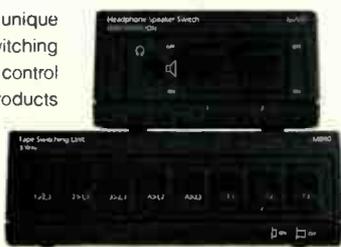
(AVAILABLE ON CD ONLY)  
**ALISON KRAUSS**  
I'VE GOT THAT OLD FEELING  
**OTIS CLAY**  
I'LL TREAT YOU RIGHT  
**LEADBELLY**  
MIDNIGHT SPECIAL  
**ROD PIAZZA & THE MIGHTY FLERS**  
ALPHABET BLUES  
**TOM RUSSELL**  
HURRICANE SEASON  
**IRIS DEMENT**  
INFAMOUS ANGEL  
**SPANIC BOYS**  
STRANGE WORLD  
**MISSISSIPPI JOHN HURT**  
AVALON BLUES 1963  
WORRIED BLUES 1963  
**AARON NEVILLE**  
MY GREATEST GIFT

**DUKE ROBILLARD & THE PLEASURE KINGS**

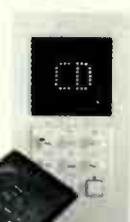
TOO HOT TO HANDLE  
**DUKE ROBILLARD**  
YOU GOT ME SWING  
ROCKIN BLUES  
**RORY BLOCK**  
HOUSE OF HEARTS  
BEST BLUES & ORIGINALS VOL 1  
BEST BLUES & ORIGINALS VOL 11  
RHINESTONES & STEEL STRINGS  
I'VE GOT A ROCK IN MY SOUL  
BLUE HORIZON  
HIGH HEELED BLUES  
**JOHNNY COPELAND**  
WHERE THE RAIN STARTS FALLIN  
AIN'T NOTHING BUT A HOUSE  
**JOHNNY ADAMS**  
SINGS DOC POMUS - THE REAL ME  
(WITH DR. JOHN/DUKE ROBILLARD)

# SOLUTIONS

50 unique switching and control products



Remote control Multiroom systems



Award Winning Loudspeaker and interconnect cables



Digital Processing & Amplification Products



Please send me your new 32 page catalogue. I am interested in the following Products  
           
 I enclose a 1st class stamp

NAME: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 \_\_\_\_\_  
 POSTCODE \_\_\_\_\_

# QED

QED AUDIO PRODUCTS LTD, RIDGEWAY HOUSE, RIDGEWAY CLOSE  
 LIGHTWATER, SURREY, GU18 5XU ENGLAND

## Pyramid AUDIO

Illustrated is our new Qantara Stand. It features our unique rigid composite in a central column with a heavy steel base and provides the best support for your loudspeakers at £125/pair.



Also available is our new Iras Stand with a robust fillable central column and generous top and bottom plates. A more economical solution at £69/pair.

Both Stands are available in 18", 21" and 24" heights with a variety of top plate sizes.

(please specify when ordering)

Our new Akasa isolation platform provides essential environmental isolation for cds, amps, etc., by using our unique composite as a top-plate with an internal suspension. Dimensions are 18"x13"x2". Please specify cdlamp weight when ordering. Price per unit is £99. A rigid support table (3" high) is available to raise the platforms above floor level for power amps at £45 each.

All products are finished in black gloss with other colours available on request at a £10 supplement.

All our products are available mail order only and prices include insured delivery in U.K. We offer a full 14 day trial with a money back guarantee.

For further information and orders please contact Pyramid Audio at:-



UNIT 2, CEDARHURST INDUSTRIAL ESTATE, NEWTOWNBREDA, BT6 4RH.  
 TEL. 02321 641870 FAX 02321 644870

## Introducing the new WIZARD



**Adjustable Shelf Rotary Unit.**

Can hold 1500 CDs or Video Cassettes, books up to about 6" deep

21½ x 21½ x 75" high.

Turns in 30·4" circle on Ball Bearings.

The first six offered for sale at £1300 inc. VAT & Delivery.

For our full brochure write (please enclose 3 x 2nd Class stamps) or phone:

Material available :- Oak, Mahogany, Teak etc.

### IAN EDWARDS

**The Old Chapel**  
 282 Skipton Road,  
 Harrogate, Yorks  
 Tel: 0423 500442

**READING  
HI ►► FI  
CENTRE**

**QUALITY HI-FI AT IT'S BEST**

ARCAM  
AUDIOLAB  
B&W  
CELESTION  
EXPOSURE  
K.E.F  
MRIDIAN  
MICHELL  
MUSICAL FIDELITY  
MICROMEGA  
NAKAMICHI  
QUAD

4 Queens Walk  
Broad Street Mall  
Reading RG1 7QF  
Tel. (0734) 585463  
  
Opening Hours:  
Tues. - Sat.  
10am - 6pm  
(Thursday until 7pm)  
Lunch 2- 3pm except  
Saturdays  
Closed all day  
Monday  
DEM APPTS ADVISED

REGA RESEARCH  
ROGERS  
RUARK  
ROTEL  
ROKSAN  
SONY  
SENNHEISER  
SYSTEMDEK  
STAX  
S.M.E  
YAMAHA

**READING  
HI ►► FI  
CENTRE**

STOCKIST OF  
LEADING HI-FI

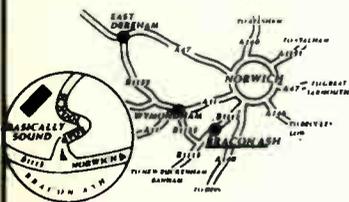
**Basically Sound  
NORWICH . NORFOLK**

Basically Sound was established in 1980. Our objective is to stock the best HI-FI available and our commitment is to our customers, our service, the manufacturers we represent and the way we run our business. At Basically Sound you will hear HI-FI whose merit is its ability to play music.

You will find us friendly, informed, experienced and knowledgeable.

Situated only 4 miles outside Norwich, we have ample parking facilities.

Please phone for a map.



Basically Sound  
of Norfolk  
The Old School  
School Road  
Bracon Ash  
Nr Norwich, Norfolk.  
Tel. 0508 70829

ARCAM  
AUDIOLAB  
DENON  
EPOS  
HEYBROOK  
LINN  
NAIM  
NAKAMICHI  
REGA  
SOUND  
ORGANISATION  
SPENDOR

Opening Times  
All day Saturday.  
Tue. to Fri  
9.30 - 1.00, 2.00 - 5.30



**PROGRESSIVE  
AUDIO**



**DIGITAL BY :** SUGDEN, MERIDIAN, MARANTZ, MICROMEGA, PROCEED, AUDIO ALCHEMY, ORELLE, AND AUDIOMECA

**ANALOGUE BY:** MICHELL, PINK TRIANGLE, SME, VPI, BASIS, VOYD, PROJECT, SYSTEMDEK

**ARMS AND CARTRIDGES BY:** LYRA, MICROBENZ, TRANSGURATION, KOETSU, SUMIKO, GOLDRING, AUDIO TECHNICA, DECCA, SME, GRAHAM, REGA, EMINENT AND KUZMA

**AMPLIFICATION BY :** LFD, AUDIO INNOVATION, AUDION, SUGDEN, CHORD, MOTH, LEVINSON, CONRAD JOHNSON, CONVERGENT, LUMLEY, REFERENCE, MICHELL, TUBE TECHNOLOGY

**SPEAKERS BY :** PROAC, AUDIONOTE, SNELL, IMPULSE, TDL, JPW, DALI, ORIGIN LIVE, AUDIOSTATIC, RUARK, SOUND LAB, DIAMOND, ACOUSTICS, TOWNSHEND, MONITOR AUDIO, UKD, ALON

**ACCESSORIES CABLES BY :** QED, STRAIGHTWIRE, LOGAN HALL, AUDIOQUEST, SILVER SOUNDS, AUDIONOTE, KIMBER, LFD AND VAN DEN HUL. STANDS BY: TARGET, TRIPOD, FOUNDATION, GOLDRING, HEADPHONE BY STAX, SEISMIC SINKS BY TOWNSHEND

**HOME DEMONSTRATIONS A PLEASURE  
PHONE DAVE ON MEDWAY 0634 389004**

**RECORD CLEANING SERVICE, SECOND HAND EQUIPMENT  
AND RECORDS. PHONE DANNY ON MEDWAY 0634 580763**

**Peerless CC FORCE**

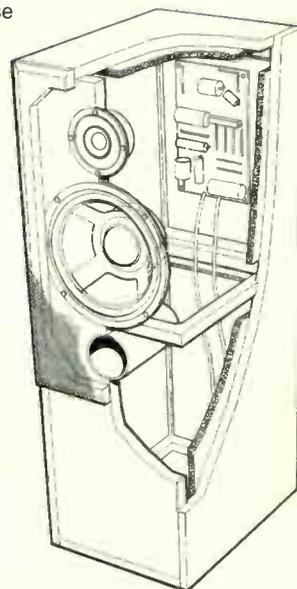


Wilmslow Audio's NEW range of speaker kits from Peerless.

This new range of four kits utilise CC technology drive units for optimum performance.

The kit contains all the cabinet components (accurately machined from smooth MDF for easy assembly).

Pictured here the Force 6, a large floor standing design.



Dimensions:  
800 x 275 x 335 mm  
Response:  
32 HZ-20 KHZ  
AMP Suitability: 30-120w  
Impedence: 8 ohms

Price	carr./ins.	
Force 2	£167	£15 pr.
Force 4	£190	£15 pr.
Force 6	£210	£18 pr.
Force 8	£265	£18 pr.

All kits are available in Plus and Basic forms.

**Wilmslow  
Audio**

Wellington Close,  
Parkgate Trading Estate  
Knutsford, Cheshire  
WA16 8DX  
Tel: (0565) 650605  
Fax: (0565) 650080



Telephone credit card orders welcome



**IRMA THOMAS**  
NEW RULES  
**REBIRTH BRASS BAND**  
FEEL LIKE FUNKIN' IT UP  
**SOLOMON BURKE**  
SOUL ALIVE  
**WALTER 'WOLFMAN'**  
**WASHINGTON**  
WOLF AT THE DOOR  
**NATHAN & THE ZYDECO**  
**CHA CHAS**  
YOUR MAMA DON'T KNOW  
**CLARENCE 'GATEMOUTH'**  
**BROWN**  
TEXAS SWING  
Rounder CDs £11.99

## LYRICHORD

**WORLD MUSIC SAMPLER**  
£7.99  
**MUSIC OF THE RAIN**  
**FORESTS PYGMIES**  
**JAPANESE KOTO CONSORT**  
**PERU-MUSIC FROM THE**  
**MACCHU PICCHU (HIGH**  
**ANDES)**  
**INDIAN BAMBOO FLUTE**  
GOUR GOSWAMI & STAVEN  
GORN  
Lyrichord CDs £12.99

## MUNICH

**CHARLES BROWN**  
SOMEONE TO LOVE  
ALL MY LIFE  
**RORY BLOK**  
AIN'T I A WOMAN  
MAMAS BLUES  
**CULTURE IN CULTURE**  
CULTURE  
**IRMA THOMAS**  
LIVE - SIMPLY THE BEST  
Munich CDs £10.99

## AMALTHEA

**THE DUKE ROBILLARD BAND**  
TURN IT AROUND  
AFTER HOURS SWING SESSION  
(Amalthea CD £11.99)

## COOKING VINYL

**THE OYSTER BAND**  
STEP OUTSIDE (CD ONLY £6.99)  
LITTLE ROCK TO LEIPZIG  
DESERTERS  
**FOUR BROTHERS**  
MAKOROKOTO  
**MICHELLE SHOCKED**  
TEXAS CAMPFIRE TAPES  
**EDWARD II & THE RED HOT**  
**POLKAS**  
LET'S POLKASTEADY  
**SWEET HONEY IN THE ROCK**  
BREATHS...THE BEST OF  
**DAVY SPILLANE**  
ATLANTIC BRIDGE  
**COWBOY JUNKIES**  
TRINITY SESSIONS  
**JUNE TABOR**  
ANGEL TIGER  
**JUNE TABOR & THE OYSTER**  
**BAND**  
FREEDOM AND RAIN  
**HAPPY END**  
TURN THINGS UPSIDE DOWN  
**BRUCE COCKBURN**  
LIVE  
**CLANNAD**  
FUAIM  
**BOILED IN LEAD**  
ORB  
Cooking Vinyl  
CDs £10.99

## WORLD CIRCUIT

**PEREGOYO Y SU COMBO**  
**VACANA**  
TROPICALISMO  
**BHEKI MSELEKU**  
CELEBRATION(CD ONLY)  
**JEAN TOUSSAINT**  
WHAT GOES AROUND(CD ONLY)  
**OLODUM**  
REVOLUTION IN MOTION

**JOE ARROYO Y LA VERDAD**  
REBELLION  
**BLACK UMFOLOSI**  
UNITY  
**JALI MUSA JAWARA**  
SOUBINDOOR  
**LISANDRO MEZA**  
LISANDRO'S CUMBIA (NOT ON  
LP)  
**ABDEL GADIR SALIM ALL-**  
**STARS**  
THE MERDOUM KINGS PLAY  
SONGS OF LOVE (NOT ON LP)  
**ALI FARKA TOURE**  
THE RIVER  
ALI FARKA TOURE  
**OUMOU SANGARE**  
MOUSSOLOU  
**ABDEL AZIZ EL MUBARAK**  
STRAIGHT FROM THE HEART

World Circuit  
CDs £8.99

## GRAPEVINE

**MARY BLACK**  
THE HOLY GROUND  
COLLECTION  
BABES IN THE WOOD  
NO FRONTIERS  
BY THE TIME IT GETS DARK  
WITHOUT THE FANFARE  
COLLECTED  
**MARY BLACK**  
LPs £7.99 CDs £10.99

## AUDIOQUEST

**AUDIOQUEST**  
**RECORDINGS ARE**  
**RECORDED AND**  
**MASTERED ON VALVE**  
**EQUIPMENT - NOT ONLY**  
**THAT, BUT USING**  
**MICROPHONES, TAPE**  
**DECKS AND AMPLIFIERS**  
**BUILT OR CUSTOMISED**  
**BY OUR OWN**  
**FAVOURITE VALVE**  
**EXPERT TIM DE**  
**PARAVICINI NO LESS.**  
**COMBINED WITH SIMPLE**  
**MIC TECHNIQUES,**  
**THESE RELEASES HAVE**  
**AN UNPARALLELED**  
**PRISTINE PURITY AND**  
**CLARITY OF SOUND**

**WORKS OF ART VOL I**  
**WORKS OF ART VOL II**  
**(CD ONLY £7.99)**  
**ROBERT LUCAS**  
USIN' MAN BLUES  
LUKE & THE LOCOMOTIVES  
BUILT FOR COMFORT  
**STRUNZ & FARAH**  
MISTERO  
**TUXEDO COWBOY**  
WOMAN ON THE HEART  
**TRIO GALNTERIE**  
18TH CENTURY MUSIC FOR LUTE  
& STRINGS  
**MOKAYE VOLI**  
**MOKAYE VOLII**  
**LARRY WILLIS**  
STEAL AWAY  
**VICTOR LEWIS**  
FAMILY PORTRAIT  
**BRUCE KATZ BAND**  
CRESCENT CRAWL  
**AUDIOQUEST CD £14.95 LP**  
**£16.95**

**LINN RECORDS**  
**HURRY - THERE**  
**ARE ONLY LIM-**  
**ITED STOCKS OF**  
**LINN VINYL**  
**AVAILABLE**

THE LINN COLLECTION -1992  
(CD ONLY)

**OTIS GRAND & THE DANCE**  
**KINGS**  
ALWAYS HOT  
**THE HORSEFLIES**  
HUMAN FLY  
**JOHNNY ADAMS**  
ROOM WITH A VIEW OF THE  
BLUES  
**UDITEI AMANT**  
17TH CENTURY ITALIAN LOVE  
SONGS  
**BLUE NILE**  
A WALK ACROSS THE ROOFTOPS  
HATS  
**CLAIRE MARTIN**  
THE WAITING GAME  
**CAROL KIDD**  
CAROL KIDD  
**ALL MY TOMORROWS**  
NICE WORK  
THE NIGHT WE CALLED IT A DAY  
GLAD WE MET  
**DAVID NEWTON**  
EYE WITNESS  
VICTIM OF CIRCUMSTANCE  
**MARTIN TAYLOR**  
DON'T FRET  
**NIGEL NORTH**  
BAROQUE LUTE  
**NEW LONDON CONSORT**  
MUSIC FROM THE TIME OF  
COLUMBUS  
**POLISH CHAMBER ORCH.**  
MOZART/IVALDI/BACH/BARTOK/  
ELGAR (DBL) £11.99 (LP &  
CD)  
**WILLIAM CONWAY**  
**& PETER EVANS**  
CELLO SONATAS  
**ENGLISH CLASSICAL**  
**PLAYERS**  
MOZART 40TH & SCHUBERT 5TH  
(DBL) £11.99 (LP & CD)  
Linn Records LPs £7.99  
CDs £11.99

**RECUT RECORDS**  
**BEETHOVEN**  
5TH SYMPHONY £8.99

**LINN SELEKT**

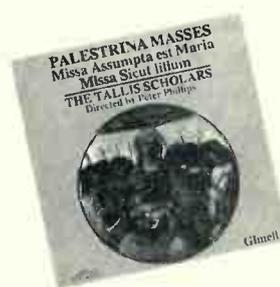
### RECORDS

**ROBERT CRAY**  
FALSE ACCUSATIONS  
**ABC**  
LEXICON OF LOVE  
**THE BEAUTIFUL SOUTH**  
WELCOME TO...  
**STAN GETZ/CHARLIE**  
**PARKER**  
JAZZ SAMBA  
**JONI MITCHELL**  
CHALK MARK IN THE RAINSTORM  
**ELLA & LOUIS**  
ELLA & LOUIS AGAIN  
**TALKING HEADS**  
STIP MAKING SENSE  
**ELTON JOHN**  
ICE ON FIRE  
**KATE BUSH**  
THE DREAMING  
**LISA STANSFIELD**  
AFFECTION  
**COUNT BASIE**  
KANSAS CITY SUITE  
**THE EAGLES**  
HOTEL CALIFORNIA  
**NEIL YOUNG**  
HARVEST  
**STEVE EARLE**  
COPPERHEAD ROAD  
**SOLOMON BURKE**  
A CHANGE IS GONNA COME  
**MILCHO LEVIEV QUARTET**  
BLUES FOR THE FISHERMAN  
**CRUSELL CLARINET**  
**QUARTETS**  
THEA KING/ALLEGRI ST QUARTET  
**DEBUSSY/RAVEL STRING**  
**QUARTETS**  
FAIRFIELD QUARTET  
**T-BONE BURNETT**  
PROOF THROUGH THE NIGHT  
**J. B. LENOIR**  
ALABAMA BLUES!  
**MUSICIANS OF SWANNE**  
**ALLEY**  
IN THE STREETS & THEATRES OF

LONDON  
**AL GREEN**  
LET'S STAY TOGETHER  
**JUNE TABOR & THE OYSTER**  
**BAND**  
FREEDOM & RAIN  
**LONDON SYMPHONY**  
BRAHMS SYMPHONY NO. 4  
**HANDEL**  
WATER MUSIC  
**CORELLI**  
CONCERTI GROSSI  
**KAPSBERGER**  
PIECES FOR LUTE  
Linn Selekt LPs £8.99

## GIMELL RECORDS

**AN EXCELLENT**  
**SELECTION OF DIGITAL**  
**RECORDINGS FROM**  
**GIMELL RECORDS**  
**WHICH HAS WON**  
**ACCLAIM AROUND THE**  
**WORLD, AND HAS**  
**PICKED AWARDS FROM**  
**GRAMOPHONE.**  
**FEATURING THE TALLIS**



**SCHOLARS DIRECTED BY**  
**PETER PHILLIPS**  
**RENEWED FOR THEIR**  
**CLARITY AND PERFECT**  
**INTONATION**  
**ANTOINE BRUMEL**  
MISSA ET ECCE TERRAE MOTUS  
**THOMAS TALLIS**  
SPEM IN ALIUM  
LAMENTATIONS OF JEREMIAH(CD  
ONLY)  
**PALESTRINA MASSES**  
MISSA ASSUMPTA EST MARIA/  
MISSA SICUT LILLIUM  
MISSA BENEDICATA ES(CD ONLY)  
MISSA BREVIS  
MISSA NIGRA SUM  
**ALLEGRI**  
MISERERE(CD ONLY)  
**HEINRICH ISAAC**  
MISSA DE APOSTOLIS(CD ONLY)  
**JOSQUIN**  
L'HOMME ARME MASSES  
MISSA PANGE LINGUA/MISSA LA  
SOL FA RE MI  
**WILLIAM BYRD**  
THE THREE MASSES(CD ONLY)  
THE GREAT SERVICE  
**CLEMENS NON PAPA**  
MISSA PASTORES QUIDNAM  
VIDISTIS.  
**JOHN TAVERNER**  
IKON OF LIGHT(CD ONLY)  
**VICTORIA**  
REQUIEM  
TENEBRAE RESPONSORIES(CD  
ONLY)  
**GIMELL LPS £8.49 CDS**  
**£12.99**

## HANNIBAL

**VARIOUS ARTISTS**  
THE YOUNG FLAMENCOS CD  
ONLY  
**R&L THOMPSON**  
SHOOT OUT THE LIGHTS  
HOKEY POKEY

**RICHARD THOMPSON**  
HANDS OF KINDNESS  
HENRY THE HUMAN FLY  
**JUNE TABOR**  
SOME OTHER TIME  
**BALKANA**  
MUSIC OF BULGARIA  
All Hannibal CDs £11.99

## HANNIBAL

**BOX SETS**  
**SANDY DENNY**  
WHO KNOWS WHERE THE TIME  
GOES (3XCDS: £35.95) (4XLPs:  
£29.95)  
**NICK DRAKE**  
FRUIT TREE (4XCDS: £38.95)  
(4XLPs: £29.95)

## DEMON

**DUKE ROBILLARD & THE**  
**PLEASURE KINGS**  
DUKE ROBILLARD & THE  
PLEASURE KINGS  
**CLIVE GREGSON**  
STRANGE PERSUASION  
**GEORGE THOROGOOD &**  
**THE DESTROYERS**  
GEORGE THOROGOOD & THE  
DESTROYERS  
**T BONE BURNETT**  
TRUTH DECAY  
**CHRISTY MOORE**  
ORDINARY MAN  
**RORY GALLAGHER**  
DEFENDER  
IRISH TOUR '74  
**JOHN LEE HOOKER**  
THE DETROIT LION  
**ELVIS COSTELLO & THE**  
**ATTRACTIONS**  
THIS YEARS MODEL  
GET HAPPY  
TRUST  
PUNCH THE CLOCK  
**JOHNNY WINTER**  
JOHNNY WINTER  
SECOND WINTER  
**STEVE NIEVE**  
KEYBOARD JUNGLE  
**ELVIS COSTELLO AND THE**  
**ATTRACTIONS**  
TEN BLOODY MARYS AND TEN  
HOWS YOUR FATHERS  
BLOOD AND CHOCOLATE  
**BILL HURLEY (WITH JONNY**  
**GUITAR)**  
DOUBLE AGENT  
**IAN DRURY AND THE**  
**BLOCKHEADS**  
SEX & DRUGS & ROCK & ROLL  
DO IT YOURSELF  
**EARL KING & ROOMFUL OF**  
**BLUES**  
GLAZED  
**JOHNATHAN RICHMAN &**  
**THE MODERN LOVERS**  
MODERN LOVERS '88  
**GRAHAM PARKER**  
THE MONA LISA'S SISTER  
HUMAN SOUL  
**PERCY SLEDGE**  
WANTED AGAIN  
**OTIS RUSH**  
TOPS  
RIGHT PLACE WRONG TIME  
**THE BYRDS**  
SWEETHEART OF THE RODEO  
**SCREAMIN' JAY HAWKINS**  
BLACK MUSIC FOR WHITE PEOPLE  
**TIM BUCKLEY**  
DREAM LETTER(LIVE IN LONDON  
1968)  
SEFRONIA  
LOOK AT THE FOOL  
**BEN E KING**  
HERE COMES THE NIGHT  
**THE PARAMOUNTS**  
WHITER SHADES OF RIN'B  
**DEL SHANNON**  
I GO TO PIECES  
**THE EVERLY BROTHERS**  
TWO YANKS IN ENGLAND  
PASS THE CHICKEN AND LISTEN  
**BO DIDDLEY**  
THE 20TH ANNIVERSARY OF  
ROCK 'N' ROLL

**CAPTAIN BEEFHEART & HIS MAGIC BAND**  
THE LEGENDARY A&M SESSIONS  
**GERRY RAFFERTY**  
BLOOD AND GLORY

All Demon LPs £7.99,  
CDs £11.99

## NEW CLASSIC ROCK ON VINYL - NOW LIMITED STOCKS

**JONI MITCHELL**

BLUE  
**JIM CROCE**  
DOWN THE HIGHWAY  
**CHRIS ISSAK**  
HEART SHAPED WORLD  
**T-REX**  
ELECTRIC WARRIOR  
**MINISTRY**  
TWITCH

THE LAND OF RAPE & HONEY  
**FREDDY MERCURY**  
MR BAD GUY (LIMITED USA  
EDITIONS)

**JEAN MICHEL JARRE**

OXYGENE  
**LED ZEPPELIN**  
THE SONG REMAINS THE  
SAME(SOUNDTRACK FROM THE  
FILM)DBL  
PRESENCE

IN THROUGH THE OUT DOOR  
**TEARS FOR FEARS**  
THE HURTING

**TOM PETTY AND THE  
HEARTBREAKERS**

SAME TITLE  
**BOB MARLEY AND THE  
WAILERS**

CONFRONTATION  
**BLIND LEMON JERFFERSON**  
ONE DIME BLUES

CAT MAN BLUES  
**VAN MORRISON**

TB SHEETS  
VAN MORRISON  
**TOM PETTY & THE HEART-  
BREAKERS**

YOU'RE GONNA GET IT  
**RY COODER**  
CROSSROADS(SOUNDTRACK  
FROM THE MOTION PICTURE)

**JACKSON BROWN**

THE PRETENDER  
**JIM MORRISON/MUSIC BY  
THE DOORS**

AN AMERICAN PRAYER  
**LOU REED/JOHN CALE**  
SONGS FOR DRELLA  
Single LP £8.99  
Double LP £12.99  
Triple LP £14.99

## SHEFFIELD LABS

**DIRECT TO DISC**  
**LINCOLN MAYORGA AND  
DISTINGUISHED COL-  
LEAGUES VOL I I**

THE MISSING LINC  
**LINCOLN MAYORGA AND  
DISTINGUISHED COL-  
LEAGUES VOL III**

**CREME DE LA CREME  
WAGNER**  
**DON RANDI & QUEST**

NEW BABY  
**AMANDA MCBROOM &  
LINCOLN MAYORGA**  
GROWING UP IN HOLLYWOOD  
TOWN

**PAT COIL**  
STEPS

**THELMA HOUSTON &  
PRESSURE COOKER**  
I'VE GOT THE MUSIC IN ME  
**HARRY JAMES & HIS BIG  
BAND**

THE KING JAMES VERSION  
STILL HARRY AFTER ALL THESE  
YEARS

**DAVE GRUSIN**  
DISCOVERED AGAIN  
**HARRY JAMES & HIS BIG  
BAND**  
COMIN' FROM A GOOD PLACE  
**THE SHEFFIELD TRACK  
RECORD**  
& THE SHEFFIELD DRUM RECORD  
**JAMES NEWTON HOWARD  
AND FRIENDS**  
ROCK INSTRUMENTALS  
**SHEFFIELD LABS CDS £14.49**

## CHESKY RECORDS JAZZ SERIES COMPACT DISCS

Oversampled x 128  
Audiophile Quality,  
considered by some to be  
the finest quality jazz  
recordings.

**JAZZ SAMPLER**  
& AUDIOPHILE TEST CD VOL I  
**JAZZ SAMPLER**  
& AUDIOPHILE TEST CD VOL II

**A NIGHT OF CHESKY JAZZ -  
LIVE FROM THE TOWN HALL**  
**MCCOY TURNER**

NEW YORK REUNION

**MONTY ALEXANDER**

CARIBBEAN CIRCLE

**RED RODNEY**

THEN AND NOW

**TOM HARRELL**

PASSAGES

**DAVID CHESKY**

TANGOS AND DANCES

THE NEW YORK CHORINHOS

CLUB DE SOL

**JOHN PIZARELLI**

MY BLUE HEAVEN

**HERBIE MANN**

CAMINHO DE CASA

**PEGGY LEE**

MOMENTS LIKE THIS

**JOHNNY FRIGO**

& **JOHN PIZZARELLI**

LIVE FROM STUDIO A

**PHIL WOODS**

HERE'S TO MY LADY

**LUIS BONFA**

NON-STOP TO BRAZIL

**PAQUITO D'RIVERA**

TICO! TICO!

HAVANA CAFE

**CLARK TERRY**

PORTRAITS

LIVE AT THE VILLAGE GATE

**ANA CARAM**

THE OTHER SIDE OF JOBIM

RIO AFTER DARK

AMAZONIA

**NATASHA**

NATASHA

**SARA K**

CLOSER THAN THEY APPEAR

**KENNY RANKIN**

BECAUSE OF YOU

Chesky CDs £13.49

## NEW CHESKY

**CLASSICAL CDS**

**EARL WILD**

PLAYS MEDTNER

TRANSCRIPTIONS OF GERSHWIN

CHOPIN: 4BALLADES, 4 SCHERZI

**GARY SCHOCKER (FLUTIST)**

BACH: HANDEL, TELEMANN

**RACHMANINOFF**

PIANO CONCERTO NO.2/ ISLE OF

THE DEAD

**SIBELIUS**

SYMPHONY NO. 2.

**TCHAIKOVSKY/DOHNANYI**

PIANO CONCERTO NO. 1/VARI-

ATIONS ON A NURSERY SONG

**DVORAK/WAGNER**

SYMPHONY NO. 9/ OVERTURE

FROM THE FLYING DUTCHMAN

**BRAHMS**

SYMPHONY NO. 4

**MOZART/HAYDN**  
SYMPHONIES 35 & 41/ NO. 104  
**STRAUSS/RAVEL/  
TCHAIKOVSKY**  
DER ROSENKAVALIER/BOLERO/  
ROMEO & JULIET OVERTURE  
**BEETHOVEN**  
SYMPHONIES 2 & 5/LEONORE  
OVERTURE NO. 3  
**BRAHMS/STRAUSS**  
PIANO CONCERTO NO. 2/  
SALOME-DANCE OF THE 7 VEILS  
**BIZET/TCHAIKOVSKY**  
SYMPHONY IN C/FRANCESCA DA  
RIMINI  
**RESPIGHI**  
PINES OF ROME/ROMAN  
FESTIVALS. FOUNTAINS OF ROME  
**RACHMANINOFF**  
CONCERTO NOS 4 & 1,  
RHAPSODY ON A THEME OF  
PAGANINI  
**TCHAIKOVSKI**  
VIOLIN CONCERTO  
**BRAHMS**  
SYMPHONY NO. 1  
**STRAVINSKY**  
PETROUCHKA. LA SACRE DU  
PRINTEMPS  
Chesky CDs £13.49

## ORIGINAL BLUES CLASSICS FROM FANTASY

**WILLIE DIXON/MEMPHIS  
SLIM**

WILLIE'S BLUES

**KING CURTIS**

TROUBLE IN MIND

**REV. GARY DAVIS/PINK  
ANDERSON**

GOSPEL, BLUES, AND STREET

SONGS.

SAY NO TO THE DEVIL

**REV. GARY DAVIS**

HARLEM STREET SINGER

**JESSE FULLER**

THE LONE CAT

JESSE FULLER'S FAVOURITES

**ORIGINAL BLUES CLASSICS  
SAMPLER**

WITH JIMMY WITHERSPOON,

MEMPHIS SLIM,

LONNIE JOHNSON, ALBERTA

HUNTER, AND OTHERS

**SONNY TERRY**

SONNYS STORY

**LIGHTN' HOPKINS**

BLUES IN MY BOTTLE

**MEMPHIS SLIM**

ALL KINDS OF BLUES

**JIMMY WITHERSPOON**

EVENIN' BLUES (LP ONLY)

**TAMPA RED**

DON'T TAMPA WITH THE BLUES

(LP ONLY)

**OTIS SPANN**

THE BLUES NEVER DIE

**JOHN LEE HOOKER**

THAT'S MY STORY

THE COUNTRY BLUES OF JOHN

LEE HOOKER(CD ONLY)

**MEMPHIS SLIM/TAMPA RED/  
LONNIE JOHNSON**

BAWDY BLUES(CD ONLY)

LPs £7.99 CDs £11.99

## ORIGINAL JAZZ CLASSICS

**ERIC DOLPHY**

OUTWARD BOUND

OUT THERE

AT THE FIVE-SPOT. VOL I

AT THE FIVE-SPOT. VOL.2

**KENNY DORHAM**

JAZZ CONTRASTS

**ART BLAKEY AND THE JAZZ  
MESSENGERS**

CARAVAN

**CHARLES MINGUS**  
MINGUS AT THE BOHEMIA  
**PHIL WOODS**  
WOODLORE  
**KENNY DREW**  
KENY DREW TRIO  
**CLARK TERRY**  
SERENADE TO A BUS SEAT  
**RED GARLAND**  
RED GARLAND'S PIANO  
**THEOLONIUS MONK**  
MONK'S MUSIC  
MISTERIOSO  
**PHIL WOODS SEPTET**  
PAIRING OFF  
**JOHN COLTRANE**  
TRANEING IN  
**BILL EVANS TRIO**  
WALTZ FOR DEBBY  
**BILL EVANS**  
MOONBEAMS  
**MILES DAVIS ALL-STARS**  
WALKIN'  
**WILLIS JACKSON**  
COOL GATOR  
**ETTA JONES**  
SOMETHING NICE  
**PAT MARTINO**  
STRINGS!

**CLARK TERRY**  
DUKE WITH A DIFFERENCE

**MILT JACKSON AND WES  
MONTGOMERY**

BAGS MEETS WES!

**MILT JACKSON & STRINGS**

FEELINGS

**MILT JACKSON SEXTET**

INVITATION

**MCCOY TYNER**

SAHARA

**FLORA PURIM**

BUTTERFLY DREAMS

**SHELLY MANNE & HIS  
FRIENDS**

MY FAIR LADY

**THE JOE NEWMAN QUINTET**

JIVE AT FIVE

**ELLA FITZGERALD**

ELLA A NICE

**MONGO SANTAMARIA**

MONGO AT THE VILLAGE GATE

**THE OSCAR PETERSON TRIO**

THE GOOD LIFE

**DUKE ELLINGTON**

THE PIANIST

**SONNY ROLLINS**

WAY OUT WEST

**ANDRE PREVIN AND RUSS  
FREEMAN**

DOUBLE PLAY!

PLAYS SONGS BY JEROME KERN

**ART FARMER**

PORTRAIT OF ART FARMER

**BENNY CARTER**

SWINGIN' THE 20'S

**BARNEY KESSEL**

SOME LIKE IT HOT

FEELING FREE

**ART PEPPER + ELEVEN**

MODERN JAZZ CLASSICS

**ART PEPPER**

MEETS THE RHYTHM SECTION

GETTIN' TOGETHER

ART PEPPER TODAY

**OSCAR PETTIFORD**

THE NEW OSCAR PETTIFORD

SEXTET

**GERRY MULLIGAN**

MULLIGAN PLAYS MULLIGAN

GERRY MULLIGAN/PAUL

DESMOND

**BILLY TAYLOR**

BILLY TAYLOR TRIO WITH

CANDIDO

**ERIC DOLPHY**

OUTWARD BOUND

**BILL EVANS**

NEW JAZZ CONCEPTIONS

INTERPLAY

SUNDAY AT THE VILLAGE

VANGUARD

**ART BLAKEY AND THE JAZZ  
MESSENGERS**

CARAVAN

**CHARLES MINGUS**

TOWN HALL CONCERT

**CLARK TERRY**  
SERENADE TO A BUS SEAT  
**CHET BAKER**  
CHET  
**WES MONTGOMERY**  
FUI I HOI ISF  
SO MUCH GUITAR  
FUSION  
**COLEMAN HAWKINS**  
SOUL  
AT EASE WITH COLEMAN  
HAWKINS  
**CHARLIE PARKER**  
BIRD ON 52ND STREET  
**PAUL DESMOND QUARTET**  
FEATURING DON ELLIOT  
**EDDIE DURAN**  
JAZZ GUITARIST  
**STAN GETZ**  
STAN GETZ QUART  
**SONNY ROLLINS**  
TENOR MADNESS  
**JOHN COLTRANE**  
LUSH LIFE  
**BENNY CARTER**  
JAZZ GIANT  
LP'S £7.99 CD £11.99

## FANTASY

A truly amazing catalogue  
of top flight artistes.

These American LPs  
capture all the life and  
zest of the jazz scene in  
the post war years.

**DAVE BRUBECK**

BEST FROM THE FANTASY YEARS

**MILT JACKSON QUARTET**

MILT JACKSON QUARTET

THE BEST OF MILT JACKSON

**THE MODERN JAZZ QUAR-  
TET**

CONCORDE

**MILES DAVIS**

THE MUSINGS OF MILES

FEATURING SONNY ROLLINS

BLUE MOODS

AND HORNS

NEW MILES DAVIS QUINTET

COOKIN

RELAXIN WITH MILES

STEAMIN

WORKIN

BLUE HAZE

COLLECTORS ITEM

**STAN GETZ/ZOOT SIMS**

THE BROTHERS

**ZOOT SIMS QUINTET**

ZOOT!

**ZOOT SIMS**

THE BEST OF ZOOT SIMS

**THE THELONIOUS MONK  
TRIO**

THE THELONIOUS MONK TRIO

**S.ROLLINS/MODERN JAZZ  
QUARTET**

S ROLLINS/MOD JAZZ QUARTET

**MILES DAVIS/MILT JACKSON  
QUINTET/SEXTET**

THE HAPPY BLUES

**THELONIOUS MONK**

MONK

THELONIOUS MONK

PLAYS DUKE ELLINGTON

BRIGHT CORNERS

**KENNY BURRELL**

KENNY BURRELL

**COLEMAN HAWKINS**

THE HAWK FLIES HIGH

**SONNY ROLLINS**

WORKIN

SOUND OF SONNY

MOVING OUT

FREEDOM SUITE

**WES MONTGOMERY**

WES MONTGOMERY TRIO

INCREDIBLE JAZZ GUITAR

MOVIN ALONG

**THELONIOUS MONK/ JOHN  
COLTRANE**

THELONIOUS MONK/JOHN

COLTRANE



# Bryants

81 HIGH STREET, ALDERSHOT, HANTS. TEL: (0252) 20728, 314448

25 YEARS OF EXCELLENT SERVICE

With 25 years experience in Hi-Fi, we feel our service is second to none. All units are fully guaranteed and backed by our own workshops. We offer three demonstration rooms and knowledgeable staff to help you choose your system. We can also arrange fast mail order, with all normal credit facilities available.

BUYING FROM BRYANTS YOU CAN BUY WITH CONFIDENCE

## AMPS

**CLAIM FREE RECORD VOUCHERS WITH EVERY AMP marked \***

ALCHEMIST KRAKEN 399.95  
 AMC CVT3030 469.95  
 DENON PMA250 III 119.95  
 DENON PMA250 II 219.95  
 DENON PMA150 249.95  
 HARMAN KARDON  
 HK 615J 199.95  
 HK 6250 279.95  
 KENWOOD KA3020 199.95  
 \*MARANTZ PM33 179.95  
 \*MARANTZ PM44SE 119.95  
 \*MARANTZ PM44 199.95  
 \*MARANTZ PM33 249.95  
 NAD 302 169.95  
 NAD 304 219.95  
 NAD 306 299.95  
 \*PIONEER A100X 179.95  
 \*PIONEER A400 209.95  
 \*PIONEER A400X 279.95  
 ROTEL RA200 AX 149.95  
 ROTEL RA220 AX 199.95  
 ROTEL RA330 BK 199.95  
 ROTEL RA100 BK 249.95  
 SONY TA44SE 289.95  
 TECHNICS SA3000 169.95

## CD

**CLAIM FREE RECORD VOUCHERS WITH EVERY CD marked \***

AIWA XC300 109.95  
 AIWA XC750 149.95  
 DENON DCD 595 179.95  
 DENON DCD695 199.95  
 DENON DCD 890 269.95  
 DENON DCD 1290 329.95  
 HARMAN KARDON 7525 449.95  
 \*MARANTZ CD52II 229.95  
 \*MARANTZ CD52SE299.95  
 MARANTZ CD53 199.95  
 MARANTZ CD72 299.95  
 MISSION DAD 5 299.95  
 MISSION DAC 5 299.95  
 \*NAD 502 219.95  
 \*NAD 505 299.95  
 \*PHILIPS CD920 149.95  
 \*PHILIPS CD930 179.95  
 \*PHILIPS CD940 229.95  
 \*PIONEER PD202 149.95  
 \*PIONEER PD502 189.95  
 \*PIONEER PDS601 219.95  
 \*PIONEER PD602 229.95  
 \*PIONEER PDS702 249.95  
 \*PIONEER PDS802 299.95  
 \*PIONEER PDS901 449.95  
 \*ROTEL RCD945 229.95  
 \*ROTEL RCD 955 249.95  
 \*ROTEL RCD965BX 349.95  
 \*ROTEL RCD965BXL 449.95  
 Discreet 399.95  
 \*ROTEL RCD965LE 379.95  
 SONY CDP311 169.95  
 SONY CDP597 179.95  
 \*TECHNICS SLP6520 169.95

## PRE/POWER AMPS

**PRE AMPS**

NAD 1000 49.95  
 NAD 1000S 319.95  
 ROTEL RC960 164.95  
 ROTEL RC980 324.95

**POWER AMPS**

ROTEL RP100 109.95  
 ROTEL RP200 424.95  
 NAD 210 259.95  
 NAD 208 799.95

## TURNTABLES

DUAL CS 503-2 159.95  
 DUAL CS 505-4 199.95  
 NAD 5120 99.95  
 NAD 533 199.95  
 REVOLVER REBEL 159.95  
 SYSTEMDEK I+ 229.95  
 RB250 229.95  
 SYSTEMDEK IIX900+ 329.95  
 RB250 329.95  
 SYSTEMDEK IIX900+ 379.95  
 RB300 379.95

M55-10 99.95  
 M55-20 119.95  
 M55-30 139.95  
 M55-40 159.95  
 M55-50 179.95  
 TANNY RC3MkII 89.95  
 TANNY RC5MkII 114.95  
 TANNY RC7MkII 219.95  
 TANNY RC9MkII 269.95  
 TANNY RC11MkII 319.95

## CASSETTE DECKS

AIWA ADF 470 79.95  
 DENON  
 DRM510 149.95 129.95  
 PIONEER  
 CTS360 169.95 139.95  
 CTW401R 149.95 139.95  
 CTS609 179.95 139.95  
 CT449 179.95 149.95  
 CT656 249.95 149.95  
 SONY  
 TCK 390 139.95 109.95  
 YAMAHA  
 KX260 159.95 129.95  
 KX232 199.95 149.95  
 KX360 199.95 149.95

## MINI HI-FI

A IWA, KENWOOD, TECHNICS, JVC stocked

DENON D70 59.95  
 DENON D110 79.95  
 DENON D250 99.95

Prices exclude speakers

## SPECIALS TO CLEAR

GREAT REDUCTIONS ON EX DISPLAY & NEW STOCK

**AMPS** WAS NOW

AIWA XA007 179.95 109.95  
 AMC CVT3030 529.95 469.95  
 JVC AX33 189.95 99.95  
 \*MARANTZ PM40SE 249.95 119.95  
 PHILIPS FAS3 199.95 139.95

**TUNERS**

PHILIPS FT 420 99.95  
 PIONEER FT656 199.95 109.95

**DCC & CDI**

PHILIPS DCC 900 549.95 429.95  
 CDI 220 529.95 399.95

## CD PLAYERS

AIWA XC555 199.95 139.95  
 MARANTZ  
 CD72 449.95 299.95  
 NAD  
 502(ExD) 219.95 189.95  
 PHILIPS  
 CD910 139.95 89.95  
 CD930 179.95 149.95  
 CD634 249.95 159.95  
 PHILIPS PHOTO CDs  
 CDF 190 329.95 150.00  
 CDF 200 349.95 170.00

**PIONEER**

PDT 303 199.95 149.95  
 PD601 239.95 189.95  
 PD801 329.95 259.95  
 CLDV1750 579.95 499.95

**YAMAHA**

CDX730 199.95 169.95  
 CDX460 199.95 129.95

## TURNTABLES

NAD 5120 (ExD) 99.95 69.95

## SPEAKERS

HEYBROOK HSB1/3 (ExD) 259.95 229.95

**FAST MAIL ORDER OUR SPECIALITY 48 HOURS**

**FREE DELIVERY ON ALL ITEMS OVER £300**

**ALL SYSTEMS SUPPLIED WITH:**

All interconnects + 6 metres of QED 79 Strand professionally terminated with Radio Spares banana plugs, recognised by leading manufacturers as the best.

PIONEER PDS702 189.95  
 PIONEER PDS901 299.95  
 TECHNICS SLP6520 169.95  
 SONY CDP397 39.00  
 YAMAHA CDX460 20.00

## TURNTABLE UPGRADES

REVOLVER REBEL 49.00  
 SYSTEMDEK I + RB250 140.00  
 AT95 140.00  
 SYSTEMDEK IIX900 + RB250 + AT95 240.00  
 SYSTEMDEK IIX900 + RB300 - G1012 330.00

## CABLES

**SPEAKER CABLES**

QED 79 89 Mtr  
 QED F79 1.19 Mtr  
 CABLETALK 3 2.10 Mtr

**CABLETALK**

CONCERT 2 5.95 Mtr  
 MONSTER XL 1.50Mtr

## QED 79

The original and still the best. We supply QED 79 strand as standard on all our systems. **BWARE OF IMITATIONS**

## INTERCONNECTS

CABLETALK 34.95  
 ADVANCED 59.95  
 STUDIO 9.95  
 MONSTER 100 29.95  
 MONSTER 300 29.95  
 MONSTER 400 29.95  
 PURE SONIC 6010A 29.95  
 PURE SONIC 6110A 29.95  
 QED P1 17.95  
 QED P1 GOLD 17.95

## SPEAKERS

**CLAIM FREE 16" SPIKED SPEAKER STANDS ON ALL SPEAKERS OVER £110** (Excluding System Building Systems).

ADVENT MINI 69.95  
 ADVENT PRODIGY 169.95  
 CANON 530 149.95  
 CANON 550 299.95  
 CELESTION 1 109.95  
 CELESTION 3 129.95  
 CELESTION 5 MkII 169.95  
 CELESTION 7 219.95  
 DALI 104 339.95  
 HEYBROOK SOLO 169.95  
 HEYBROOK HB1/3 259.95  
 JPW MINIM 69.95  
 JPW SONATA 114.95  
 JPW SONATA (V) 99.95  
 JPW PI 169.95  
 MISSION 760 I 129.95  
 MISSION 760 I SE 149.95  
 MISSION 761 I 169.95  
 MISSION CYRUS 780 199.95  
 MISSION 751 299.95  
 MISSION CYRUS 753 699.95  
 MORDAUNT SHORT MS HE STEREO 99.95  
 MS HE PRO LOGIC 179.95  
 MS SUB 149.95

## A/V & TUNER AMPS

DENON AVR 1000 519.95  
 DENON AVC 15 30 479.95  
 DENON AVC 3530 699.95  
 DENON AVC 3020 729.95  
 HK AVR3 ADV 699.95  
 KENWOOD KA3020 199.95  
 MARANTZ PM724 399.95  
 PIONEER VSA 701 449.95  
 SONY STRDSII 379.95  
 SONY STRD611 329.95  
 YAMAHA DSPA160 449.95  
 YAMAHA DSPA120 399.95  
 YAMAHA DSPA130 1099.95

## DIGITAL SOUND PROCESSORS

YAMAHA DSPA200 369.95  
 YAMAHA DSPA100 669.95

## TUNER/AMPS

DENON DRA945R 349.95  
 DENON DRA545RD 319.95  
 NAD 701 259.95  
 NAD 705 329.95  
 PIONEER SX202R 229.95

## TUNERS

DENON TU200L 119.95  
 DENON TU200R 139.95  
 HK400 299.95  
 MARANTZ ST40 109.95  
 MARANTZ CT33 149.95  
 NAD 402 149.95  
 PIONEER F202L 109.95  
 PIONEER F201 RDS 159.95  
 PIONEER F401L 149.95  
 ROTEL RT 930 159.95  
 ROTEL RT 960 199.95  
 SONY ST521R 129.95  
 SONY ST531 179.95  
 TECHNICS ST610L 139.95

## CASSETTE

**CLAIM FREE TAPE VOUCHER WITH ALL DECKS marked \***

AIWA ADF 410 89.95  
 \*AIWA ADWX828 179.95  
 \*AIWA ADWX324 169.95  
 AIWA ADF810 199.95  
 \*AIWA ADF910 249.95  
 DENON DRM540 149.95  
 DENON DR5610 199.95  
 DENON DRW760 249.95  
 HARMAN KARDON TD4200 749.95  
 MARANTZ SD53 199.95  
 NAD 602 199.95  
 \*PIONEER CTW401R 149.95  
 \*PIONEER CTS110 159.95  
 \*PIONEER CT540 209.95  
 PIONEER CTW202R 109.95  
 \*ROTEL RD345 159.95  
 \*ROTEL RD355 199.95  
 SONY TCR115 249.95  
 SONY TCWR355 249.95  
 \*SONY TCK 811S 329.95  
 \*TECHNICS SBX404 159.95  
 \*TECHNICS SBX500 189.95

This ad is valid until 30th Nov. 1993 E&OE

**FREE:** 16" SPIKED STANDS with all speakers SOLD OVER £110.00. System Building excluded



## OPTIONS

**CD PLAYERS** ADD £

AIWA XC106 29.00  
 AIWA XC750 69.00  
 DENON DCD 595 60.00  
 DENON DCD 695 80.00

SYSTEM BUILDING			
All the systems below include the excellent NAD 5120 turntable as the source component. Alternative turntables or CD players are available at extra cost (please see OPTIONS listed below)			
AMPS	SPEAKERS	TURNABLE	PRICE
KENWOOD KA 3020	Celestion 1 JPW Sonata Vinyl Advent Mini	Mordant Short 5 MkII Tannoy 605 MkII Mission 760	£378.95
NAD 302	Mission 760I Tannoy 603 MkII Celestion 3 MkII	Heybrook Solo Celestion 5 MkII	£378.95
PIONEER A300X			£345.95
MARANTZ PM40SE			£346.95
Harman Kardon 6150			£444.95
NAD 304			£335.95
MARANTZ PM44SE			£364.95
TECHNICS SUVZ320			£394.95
PIONEER A400			£359.95
			£509.95

# Transformers

Input and output Transformers designed manufactured to you requirement, at our OEM prices...

3 watt Single ended Pre/Power Valve amplifier ..... **£283.75**

The Garrard 301/401 Power supply 100/130 volts setting to reduce motor vibrations and magnetic fields; includes mains smoothing and RIF filtration .....**£64.45**

Phono Stage **MM.....£143.75**  
**MC.....£177.25**

*(use integrated circuits for lower noise floor)*

**All prices include Delivery and VAT**

**F&S Trading**  
**31 Brooks Road**  
**Sutton Coldfield**  
**West Midlands B72 1HP**  
**Tel/Fax: 021 - 321 3357**

ON PERMANENT  
DEMONSTRATION

Audion 300B / Silver Nights  
Standard & Export



RING FOR DETAILS  
UXBRIDGE, MIDDLESEX (0895) 253340

Unbelievable but true you can audition these brands here. Audion, Proac, Michell, LFD, Lumley, Levison, Lurne, Triangle, Sentec, Mag Audio, Teac, VHD, Silversounds, YBA, Stax, Theta, Monitor Audio, Fuller Audio, Trilogy, Lyra, Sumiko, Ortofon, Decca, Target, Project, Moth, Kelvin, Townshend, Edison, Audio Alchemy, Kesiki, Musical Fidelity.

# Oxford Audio Consultants

## HI-FI SPECIALISTS



**Our superb service is the same, regardless of price.**

## SONUS FABER GUARNERI

The nearest thing to a musical instrument you've ever heard!!

## NOW DEMONSTRATING

**KRELL DSP CD PLAYER – Give it a go!**  
**KRELL STUDIO DAC**  
**THETA COBALT 307 – stunning value for money**  
**THETA DATA 2/DS Pro Prime**  
**ORELLE DIGITAL PRODUCTS – JUST IN!**  
**MARANTZ CD 10 – The latest MARANTZ heavyweight**  
**ROKSAN RoK-DPL CD TRANSPORT WITH DA1 CONVERTER & DS1 psu**  
**WADIA – latest range on demonstration**  
**TEAC P700/D700 2 BOX COMBO – brilliant!**  
**NEW AGENCY: AURA CD, AMP & TUNER**  
**MARANTZ PM44SE AMPLIFIER – SUPERB VALUE**  
**PROCEED SERIES 3 CD DIGITAL PROCESSOR & CD TRANSPORT**  
**MICHELL GYRODECK – Still a Classic!**  
**LYRA LYDIAN CARTRIDGE – simply stunning!**  
**MUSICAL FIDELITY F22 & F15 pre/power amp**  
**KRELL KSA 100S & KRC 2 (remote control) – Fabulous**  
**CLASSÉ 30/70 Combo**  
**AUDIO RESEARCH LS2B & LS3 PREAMPS & V70 POWER AMP**  
**COPLAND CTA 401**  
**PIONEER A400X**  
**SONUS FABER – THE COMPLETE RANGE; WE LOVE THEM ALL!**  
**MARTIN LOGAN AERIUS – Stunning looks and sound**  
**REL STADIUM SUBWOOFERS**  
**VAN DEN HUL CABLES**  
**MANDRAKE INTERCONNECT CABLE – THE ULTIMATE!!**  
**HARMONIX ROOM TUNING DEVICES – Incredible!!**

## EX DEM & P/EX BARGAINS

**AUDIO RESEARCH LS1 £795**  
**KRELL KBL PREAMP £2495**  
**WADIA 8 CD TRANSPORT £2250**  
**AUDIO RESEARCH LS2 £1995**  
**CASTLE DURHAM MK1 SPEAKERS £95**  
**LINAEUM LFX SPEAKERS EX DEM £399**  
**ROTEL RA840BX4 AMP £100**  
**APOGEE STAGES £1795**  
**AUDIO RESEARCH DAC 1-18 £1795**  
**KRELL KSL INC PHONO BOARD £1995**  
**TEAC P500 TRANSPORT £499**  
**APOGEE DUETTA SIGNATURES £2995**  
**REVOX H11 cassette deck £495**

*Please ask for details or our current list*

Agencies include: Accuphase, Acoustic Energy, Air Tangent, Apogee, ART Accessories, Audio Alchemy, Audio Research, Audio Technica, Basis, B&W, Castle, Copland, Denon Cartridges, DPA, Dual, Goldring, Harmonix, Heybrook, JPW, Kimber, Koetsu, Krell, Lyra, Magneplanar, Magnum, Mandrake, Marantz, Martin Logan, Michell, Micromega, Musical Fidelity, NAD, Nakamichi, Onix, Orelle, Ortofon, Pioneer, Proceed, PS Audio, QED, REL Subwoofers, Revox, Rogers, Roksan, Rotel, Ruark, SD Acoustics, Seismic Sink, Sennheiser, Sequence, Sequerra, Slate Audio, SME, Sonus Faber, Stax, Target, T.D.L, Teac, Theta, Thorens, Van den Hul, Wadia, Wharfedale.

**TAX-FREE EXPORT SERVICE**  
**MAIL-ORDER AVAILABLE ON MANY ITEMS.**

Open Mon-Sat 10am-6pm.

# Oxford Audio Consultants

**Cantay House, Park End Street, Oxford OX1 1JE**  
**Telephone: Oxford (0865) 790879**  
**Facsimile: Oxford (0865) 791665**

# Gold Aero

Founded in 1973, Gold Aero, USA have gained an enviable worldwide reputation in the audio industry (both domestic and professional) as selecting some of the finest tubes available today.

Never available in the UK before, Tube Technology are proud to offer these superb tubes to the UK audiophile.

Gold Aero's years of experience, testing & listening to a wide variety of tubes have revealed that only a

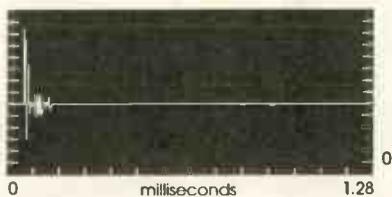
very small portion of those tubes commercially available are suitable for the demanding audiophile. Gold Aero purchases large volumes of tubes from premium sources worldwide and selects the "cream of the crop". The remaining tubes unacceptable for Gold Aero's usage are assimilated into the industrial market.

Gold Aero tubes are tested for noise, microphonics and gain. Based on these results the tubes are then sorted into three levels. These levels

are, PREMIUM GRADE a 60% yield, GOLD GRADE 30% yield (from the original 60%) and PLATINUM GRADE 5% from the 30% yield. They are tested for transconductance ( $G_m$ ), plate current ( $I_b$ ) and grid leakage ( $I_{c1}$ ). Gassy or shorted tubes are rejected, also any tube that is out of the required specifications or not internally well-matched is rejected. The Platinum tubes are then tested using the Gold Aero Impulse System; The tube is pulsed with a high risetime, short duration pulse. The output of the tube is sampled and recorded by a computer. The computer, using Fourier Transforms, calculates the frequency response and from this also the group delay of the tube. The computer generates three visual displays in an X - Y graph

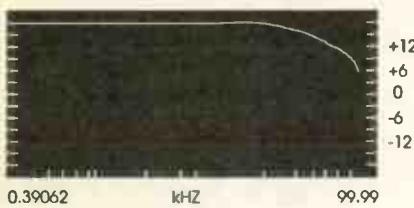


GOOD 6DJ8

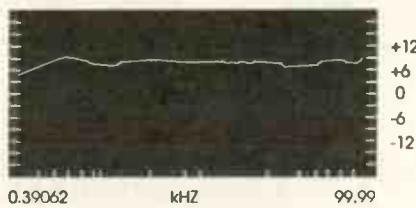


REJECT 6DJ8

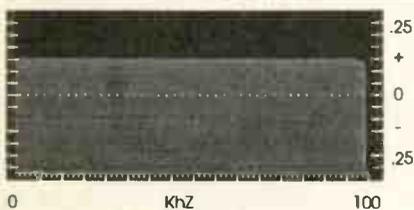
- (i) Time vs. Amplitude,
- (ii) Frequency vs. Amplitude,
- (iii) Frequency vs. Time



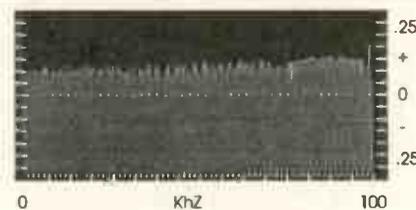
NOTE SMOOTH RESPONSE



NOTE RESONANT PEAK



GOOD GROUP DELAY



REJECT GROUP DELAY

Graph 1 shows the output of the impulse waveform, in real time. Graph 2 shows the frequency response of the tube and Graph 3 shows the group delay characteristics.

Gold Aero supply a set of FFT plots with each Platinum tube, certain that these tubes will meet the most demanding audiophile's requirements.

Because of their reliability and sonic attributes, many US "Hi-End" audio manufacturers such as Audio Research, Cary, Carver, C.A.L. and Sheffield Lab now fit Gold Aero tubes. These devices are second to none and Gold Aero stand by their product, offering a no quibble six month guarantee.

Tube Technology, have sole distribution of Gold Aero in the UK. Please send for literature and a complete tube list, which includes prices on Gold and Platinum grades.

Very favourable OEM prices available to UK tube amplifier manufacturers, please contact us, these tubes simply perform from day one.

Type	Single	M.Pair	M.Quad	Type	Single	M.Pair	M.Quad	Type	Single	M.Pair	M.Quad
0A2	12.29	N/A	N/A	6EM7	20.49	N/A	N/A	845	53.27	112.54	225.09
2A3	29.50	65.01	130.02	6GH8A	13.93	33.87	67.73	36KD6	31.14	68.29	136.57
SAR1/GZ34	20.49	N/A	N/A	6HA5	18.03	42.06	84.12	56B7	12.29	37.70	75.40
544G8	20.49	N/A	N/A	6JC6A	16.39	38.78	77.57	5751	14.75	35.50	71.01
6AN8A	13.93	49.17	98.34	6JK6/6EW6	16.39	38.78	77.57	59A5	13.11	37.70	75.40
6AS7G	19.67	55.73	111.46	6JN6	20.49	46.98	93.96	6072A	19.67	45.34	90.68
6AU6A	14.75	35.50	71.01	6KD6	31.96	69.93	139.85	6267/EF86	13.11	32.23	64.45
6BA6	14.75	35.50	71.01	6L6GC/EL37	21.31	48.62	97.23	6550A	40.16	86.32	172.63
6B4G	29.50	65.01	130.02	6L6WC	23.77	53.53	107.07	6922/EF88CC	18.03	42.06	84.12
6BL7G1A	16.39	38.78	77.57	6LQ6/6UE6B	27.87	61.73	123.46	7044	13.11	37.70	75.40
6BL8	14.75	35.50	71.01	6L8	22.95	N/A	N/A	7119	17.21	49.17	98.34
6BN4	11.47	28.95	57.90	6S1 7G1	20.49	46.98	93.96	7199	33.60	N/A	N/A
6BN8	21.31	48.62	97.23	6SN7GT	20.49	46.98	93.96	6247/8799	13.11	32.23	64.45
6CA4	29.50	N/A	N/A	6SA	13.11	N/A	N/A	7308	19.67	54.09	108.18
6CA7/EL34	22.13	50.26	100.51	12AT7A/ECC81	13.11	32.23	64.45	7591A	24.59	55.17	110.35
6CG7/6FQ7	13.11	32.23	64.45	12AU7A/ECC82	13.11	32.23	64.45	8045G	65.57	137.13	274.26
6CS6	12.29	N/A	N/A	12AX7A/ECC83	13.11	32.23	64.45	8417	40.98	87.96	175.91
6CW4	21.31	48.62	97.23	12BH7A	15.57	37.14	74.29	DG7/32	101.63	N/A	N/A
6D8/ECC88	15.57	37.14	74.29	12B47	16.39	38.78	77.57	38P1A	101.63	N/A	N/A
6DL4/ECC88	19.67	45.34	90.68	12X4	13.11	32.23	64.45	KT 77	49.17	104.35	208.70
6DN7	16.39	N/A	N/A	300B	262.26	557.30	1114.60	KT 88	53.27	112.54	225.09
6DS4	21.31	48.62	97.23	211	33.60	76.68	153.36	KT 99	61.47	128.93	257.87
6EAB	14.75	35.50	71.01	807	20.49	52.45	104.90				

Prices shown are all Premium Grade and are inclusive of VAT, P&P not included.



Tube Technology, Manufacturers of High Quality Valve Amplification, Hatch Farm, Chertsey Road, Addlestone, Surrey, KT15 2EH. Tel: 0932 850361; Fax: 0932 850354.

# AMADEUS SOUND & VISION

Arcam, Audio Innovations,  
Bang & Olufsen, Carver,  
Castle Acoustics, Hafler,  
Micromega, Mordaunt-Short,  
Musical Fidelity, Pioneer, Quad,  
Spendor, Technics.

10 BOLDMERE ROAD  
SUTTON COLDFIELD  
WEST MIDLANDS

Tel: 021-354-2311

## ? ? PUZZLED BY REVIEWS ? ?

You need help from a retailer who has invested time & money in researching how best to harmonize components & extract the best sound quality. Our own design work with leading manufacturers gives us unparalleled experience in this field, and our range of products are amongst those most sought after, including:

Pink Triangle, SME, Alphason, EAR, Audio Innovations, DNM, Chord, AVI, John Shearne, Micromega, Quad, Marantz, Denon, Pioneer, Aura, Nakamichi, Mission, Tannoy, Castle, Rogers, TDL, Impulse, JPW, Ruark.

**BRENTWOOD  
HI FIDELITY**

Tel: 0277 221 210

2 INGRAVE RD. BRENTWOOD ESSEX  
corner of Brentwood High St. & Ingrave Rd.  
ON SITE CUSTOMER PARKING  
BY APPOINTMENT



## It costs the same to get it right as it does to get it wrong.

*At the Listening Rooms, we pride ourselves on matching your needs with exactly the right equipment, whatever your budget, and because we only stock the best, that's what you get.*

*What you'll also get is sound professional advice and a chance to relax and listen to some of the world's finest Hi-Fi equipment.*

• LINN • QUAD • MERIDIAN • NAKAMICHI • ARCAM • AUDIOLAB • ACOUSTIC ENERGY SME • AUDIO RESEARCH • KRELL • CLASSE AUDIO • WADIA • THETA • APOGEE • MARTIN LOGAN • SONUS FABER • MUSICAL FIDELITY • REL • REVOX • ROGERS • PIONEER • TANNOY • STAX • AURA • LEXICON • SYSTEMDEK • PINK TRIANGLE • MICHELL MONITOR AUDIO • YAMAHA • MARANTZ • KEF • BOSE • CELESTION • EPOS • MISSION • DENON • NEAT PETITE •

35 years combined experience.

Two Fully equipped listening rooms.

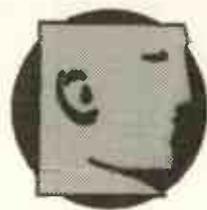
Home installation service.

Multi-room design and installation.

2 years Parts and Labour guarantee.

Home cinema surround-sound.

Export and Credit facilities.



THE

# listening rooms

161 Old Brompton Rd. London SW5 0LJ. Tel: 071-244 7750/59. Fax: 071 370 0192  
Monday - Saturday 10am-6pm. Nearest Tube; South Kensington or Gloucester Road.

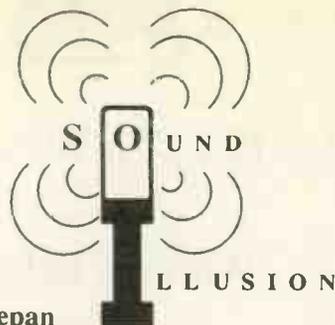
Why does 'Hi-Fi World' use

Mike Harvey's

### DPA Digital

equipment as a reference ?

To find out 'phone or fax us any day.



Agencies include:

Classè, Croft, DPA, LFD, Linaeum, Magnepan  
Michell, Orelle, Pink Triangle, Sonus Faber, Van den Hul

Hampshire, 0252 377952

## BURDEN'S

WHERE SERVICE COUNTS

Suppliers of : Rogers, Sendor, kenwood,  
Denon, Yamaha, Quad,  
Musical Fidelity, Castle, B&W, Bose

YOUR LOCAL HI-FI SPECIALIST

93/94 Victoria Road, old Town, Swindon  
Tel. (0793) 613 733

## TROUGH - LINE's

- ★ Serviced & Aligned for £35.00
  - ★ Bought & Sold (All models)
  - ★ Tim de Paravicini Decoders in Stock
  - ★ Over 200 troughlines sold/repaired!
- We are the troughline experts  
Please call for advise or an appointment.

Tel. 0942 575225

Audio Classics  
8 Lowe Mill Lane  
Hindley Wigan  
Lancs.

# STUFF TV MUSIC BRINGS YOU CLOSER



## Musical Approach

UNIT 7, WOODINGS YARD, BAILEY ST. STAFFORD O785 55154 37 HIGH ST. ALDRIDGE O922 57926

ONE OF THE  WORLD'S

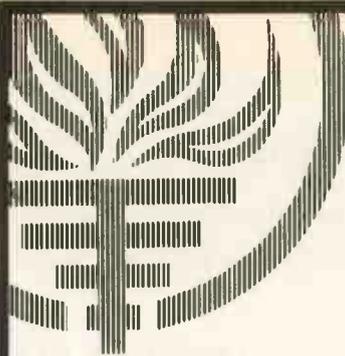
## GREAT CONCERT HALLS

With the help of  
*Room Acoustics Services*

you can achieve near  
concert hall realism  
in your home

Full details, reviews etc., of our computerised  
postal consultancy available from:-

ROOM ACOUSTICS SERVICES  
3, Queen Elizabeth Way,  
BARTON-upon-HUMBER,  
South Humberside, DN18 6AJ.  
Tel: (0652) 635523



# CHOOSE

*the powerplant* 

BRIGHTON'S LEADING HI-FI SHOP

REGA and ARCAM products now on demonstration

Roksan, Micromega, Audiolab, Rega, Arcam, Aura, Exposure, Rotel, Marantz, Ruark  
Epos, Thiel and other fine equipment

66 Upper North Street Brighton 0273 775978

## Peter Ellis Audio

A wide range of audio products always in  
stock including :

Heco, Denon, Stax, Marantz, Quad,  
Arcam, Creek, Sugden, Cambridge,  
QED, Castle, Rogers, Celestion,  
Tannoy, Nakamichi, Yamaha, Michell

★ *Interest free credit on selected items* ★

29 Kirkgate, Newark  
Nottinghamshire NG24 1AD  
0636 704571



## PR SOUNDS AND VISION

"Probably the lowest price in wiltshire"

**0%** Finance on  
most items

PIONEER, TECHNICS,  
MARANTZ, KENWOOD,  
DENON, PANASONIC,  
MISSION, B&W, TANNY, JPW

Unbelievable Discounts on all top  
brand Hi-Fi's Television and Video!  
We also have an enormous selection  
of CD's and vast range of all the  
latest videos.  
Open 7 days a week 9am - 10pm

58 Castle Street, TOWERBRIDGE  
Telephone : 0225 777999  
21 High Street, DEVIZES  
Telephone : 0380 724787  
5 King Street, MELKSHAM  
Telephone : 0225 708045

## Lumley Reference



## FOR REAL MUSIC LOVERS

The world's finest amplification  
Requires very few comments

For more details and consultants list call

**REFERENCE Pineridge, Sandy Cross,  
IMPORTS Heathfield,  
East Sussex.**

Tel: 0435 868004 Fax: 0435 864481

# Soundcraft Hi-Fi

The New Musical Experience



Our single speaker listening room. There are no other loudspeakers interfering with the sound.

No comparators or degrading switches are used. Allowing you to hear all differences clearly.

The result is sound closer to what you'll hear at home.



For your convenience we offer an appointment service, where you can hear the best equipment available today. You are welcome to bring your own records or CDs, and by arrangement, any part of your existing system for comparison.

We guarantee that you will be thrilled with your music, not just for the first few months but over many years of listening.



## Soundcraft Hi-Fi, Music For Life

40 HIGH STREET, ASHFORD,  
KENT TN24 8TE

TEL: 0233 624441 FAX: 0233 640333



## CLEAR • CRYSTAL • SYSTEMS

### WANTED: EARLY HI-FI

#### Loudspeakers and Units:

Tannoy Gold and Red units, IILLZ, Lancaster, York, GRF etc. Western Electric/Westrex drivers and Cinema speakers. Lowther, Voigt, Axiom 80, RCA, Parmeko, Seimans, Vitavox, Lockwood, Altec, Quad, JBL, Dual Concentric units etc.

#### Turntables:

Garrard 301, 401, BBC, EMT 927/930  
Thorons TD124 and TD224

#### Pickup Arms and Heads:

SME 12" Arms, Ortofon Arms and Heads,  
FR-64 and FR-66, Decca FFSS, EMT

#### Valve Amplifiers:

Dynatron, Quad, Radford, McIntosh, Leak,  
BTH, AEI, Western Electric, Pye, RCA etc.

#### Valves:

Audio Valves: DA30, DA60, KT66, KT88, KT77  
ECC83, GZ34, PX4, PX25, PP5/400, WE300 etc.

Interesting early Hi-Fi and Valves Bought and Sold.

John Petrie-Baker,

### CLEAR CRYSTAL SYSTEMS

Flat 2, 18 Canfield Gardens, London NW6 3JY

Tel: 071-328 9275 - Fax: 071-833 3008

Mobile: 0831-860499.



**STAFFORD**  
WOODINGS YARD  
0785 55154

**ALDRIDGE**  
37 HIGH STREET  
0922 57926

## A fresh approach to customer care!

When you buy a product from **Musical Approach** our service doesn't end at the cash register. Far from it - we pride ourselves on our superior customer service, from demonstration in our listening rooms to free expert installation in order to achieve the best possible sound in your home.

Now available for demonstration surround sound systems

For six and twelve month check-ups  
phone for full details :



Phone for a demonstration or just for advise on :

**STAFFORD**  
**WOODINGS YARD**  
**0785 55154**

**ALDRIDGE**  
**37 HIGH STREET**  
**0922 57926**

The quality of Musical Approach's customer service is matched by the quality products we supply including :

LINN, MARANTZ, ROTEL, ROYDE, ARCAM, AUDIOTECH, APOLLO, CELESTION, HEYBROOK, SENNHEISER.

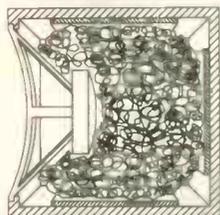
and TARGET amongst others.

Our job is to make sure you will be thrilled with your music for years to come.



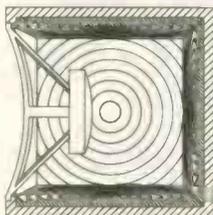
**SPECTRA**  
*Dynamics*

**THE PAST &  
THE PRESENT**



*Inside a Typical Cabinet*

**LISTEN TO  
THE FUTURE**



*Deflex Panels Fitted*

**GET THE MUSIC OUT OF YOUR SYSTEM, AND LET  
YOUR SPEAKERS BREATHE!**

Replaces the existing damping material inside your loudspeakers – quick and easy to fit. Available for any loudspeaker.

Deflex acoustic panels have excellent performance characteristics. The polymer is specially formulated to absorb shock and vibration, thus minimising cabinet resonances.

The surface emulsion has been carefully designed to eliminate standing waves

The energy inside the enclosure is controlled – **NOT ABSORBED**, as in other cabinets.

Independent tests on MLSSA show energy gains over 50%.

# DEFLEX® A.P.T.

## ACOUSTIC PANEL TECHNOLOGY

PURPOSELY DESIGNED HI-TECH SPEAKER LININGS  
NOT BY-PRODUCTS FROM ANY OTHER INDUSTRY

**"NEW APPROACH STUNS THE EXPERTS"**

**"BIGGEST BREAK-THROUGH IN 20 YEARS"**

**"RESULTS NEVER ACHIEVED BEFORE"**

**"THE MUSIC IS FASTER, BRIGHTER,  
CLEANER, WITH DEEP, CONTROLLED BASS"**

**U.K. DISTRIBUTOR**

**The  
SPEAKER  
Company**

UNIT 9,  
WATERSIDE MILL,  
WATERSIDE,  
MACCLESFIELD, CHESHIRE  
SK11 7HG  
Phone 0625 500507

**CURRENT PRICES**

Standard Panels  
@ £7.95 each

Sub-woofer Panels  
@ £11.95 each

Adhesive from  
£3.50 (200ml)



# V'AUDIO

36 Druid Hill, Stock Bishop, Bristol BS9 1EJ  
0272 686005

## BARGAINS GALORE

We are always trying to bring outstanding bargains to the attention of customers, and are pleased to point out the **Project I Turntable**, which comes complete with an **Ortofon 510 MM** cartridge for a mere £170. Even after living with the **SME 20A** and a number of MC cartridges (coating more than the **project I package** alone) for some weeks now, the **project I** is a real bargain. But then everything we sell in the end is a bargain, as we invariably ensure that any item bought is to the customer liking and that we are also satisfied that it interfaces properly. We come across so many dissatisfied people who have gone along to the shop and bought what they or the magazines rave about. We are amazingly patient; it can take six months to sort some people out and we cover the whole of England south of Liverpool.

One bargain becoming increasingly popular is **ATC SCM 50A**, which may seem expensive at around £4.5K, but with 350 watts of power in each speaker, actually is quite cheap. Customers can then sit back knowing they have nowhere else to go and can save a fortune in the long term.

## Partington and Company

### The Trophy

A TRUE AUDIOPHILE STAND AT AN  
AFFORDABLE PRICE

Designed for bookshelf type speakers, the partington trophy brings out the full potential of your loudspeakers, whether they be budget or high-end



Size: 60cm High  
Top Plate: 16.5cm x  
16.5cm

Please phone for details on the full range of Partington Stands and Accessories

*Partington and Company*

UNIT 9 KESTNER INDUSTRIAL ESTATE  
KING EDWARD ROAD,  
GREENHITHE, KENT,  
DA9 9AP ENGLAND

TEL: 0322 383712  
FAX: 0322 381117

## G T. AUDIO HAS ON DEMONSTRATION

**CROFT** Amplification. Pre-amps start from £200 and Power Amps from £549. The integrated is also available at £599. All units come with a comprehensive 2 years guarantee.

**NOTTINGHAM ANALOGUE** We are now stocking the very latest turntable from Tom Fletcher called "The Illusion". It is based on the well established spacedeck and sells for £600. The "Graphic" turntable is also available at £1200 along with the space and Mentor arms.

**ANALOGUE TRACER** I, II, III, and IV Reference MM cartridges. "the new IV at £500 is a revelation, taking analogue a step nearer the real thing."

**POSSELT** Loudspeakers "Probably, the finest Loudspeaker in the world." 93dB efficiency, an excellent match for all types of amplification. Price £2000

**MONARCHY AUDIO** Model 22 "jitter free" Digital to Analogue converter, US award winner using the K version Burr Brown chip set and balanced outputs, all for £1200

**CLEMENTS** Loudspeakers. The range starts with the 90dB 100Si at £299, and the 89dB 300Si at £645. These compact speakers give a very natural performance with extraordinarily good bass performance for their size.

**XLO ELECTRIC** Cables and interconnects POA.

**MATISSE** Reference pre-amplifier and Reference line stage. Its superb looks and finish is only matched by its sound quality. From £2000

**ZIKRO AUDRO** 600 SE Mono blocks: "20 watts of pure class A using the legendary 300B triodes in single ended operation"

**GROOVE TUBES** "The only alternative replacement valve."

**G T AUDIO CABLES** "Loudspeaker and interconnects made by Graham Tricker to your own requirements".

**ATACAMA** equipment supports.

We are situated in Buckinghamshire on the Borders of London, 5 minutes from junction 16 of M25/M40 Motorway.

**DEMONSTRATION BY APPOINTMENT ONLY Tel: 0895 833099**

## EXPLOIT THE FULL POTENTIAL (and more) OF THE LINN LP12 Turntable

For Only  
**£568.00 inc.**  
(Cost much less than a Lingo)

with  
**Avondale Audio's**  
Very Naughty (but Stunning) Conversion

For a chat  
**Tel: (0246) 200096**

Please note that we are no longer able to reply to enquiries in writing.

## CLEAR AS CRYSTAL



### LISTEN TO THE STATE OF THE ART EMF AUDIO CRYSTAL DAC

For further information, please contact:

**EMF**  
AUDIO

2a BELLVUE ROAD  
FRIERN BARNET  
LONDON N11 3ES  
TEL: 081 361 6734  
FAX: 081 368 3952

"Mike Creek has brought to the market, at an affordable price, a genuinely different high quality converter that is an interesting alternative to the Philips/Burr-Brown options we have been served to date." Noel Keywood - Hi-Fi World April 1993





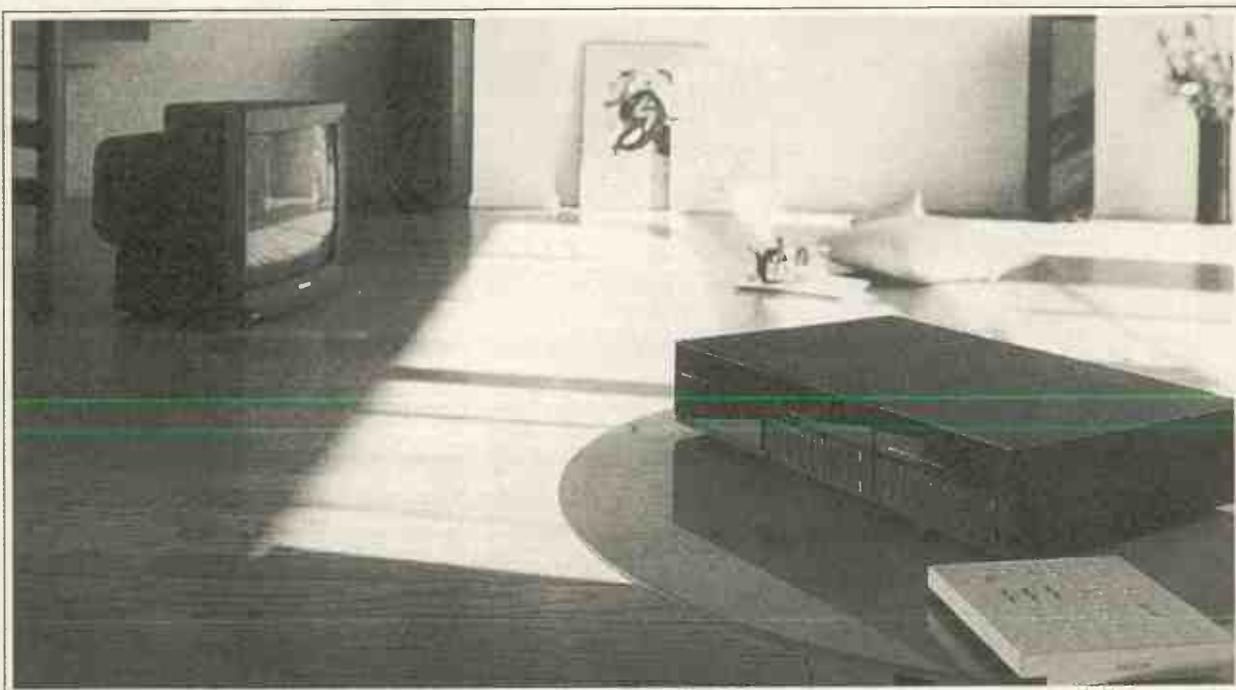
# MUSIC MATTERS



## THE AUDIO SPECIALISTS

*THE FINEST HI-FI AND AUDIO VISUAL SYSTEMS*

From our comprehensive range we can assemble for the discerning customer carefully selected and matched components from a simple audio system at around £500 to a complete hi-fi and video installation costing many thousands of pounds. Illustrated is a selection from the magnificent Meridian range which includes compact disc players from £995, amplifiers, tuners, loudspeakers and even facilities for multi-room to enable music to be carried to other locations in the home. With the addition of a television, V.C.R. and surround sound processor you can be transported into the concert hall, opera house, cinema, stadium or even join the crowd at major sporting events. Please contact us to arrange a demonstration. We are confident you will not be disappointed!



*We also stock a wide selection of classical compact discs at competitive prices.*

**INTEREST FREE  
CREDIT AVAILABLE**

APR - 0% Written details on request.  
Licensed Credit Broker



**OPENING HOURS**

Tuesday - Saturday  
10.30 - 6.00

Late night Friday till 8.00

Demonstrations by Appointment

**351, Hagley Road, Edgbaston, Birmingham B15 8DL**

**Tel:- 021 429 2811**

**156/7, Lower High Street, Stourbridge DY8 1TS**

**Tel:- 0384 444184**

Aiwa, Alphason, Alchemist, Apollo, Arcam, Audiolab, Audio-Technica, Aura, Beyer, B&W, Canon, Celestion, Chord, Cyrus, Denon, DPA, Ducl, Epos, Exposure, Haybrook,

Panasonic, Pioneer, Pink Triangle, Pro-acc, Revox, Rogers, Rotel, Ruark, Sennheiser, Systemdek, Tannoy, Target, Teac, Technics, Thorens, Tripod, Wharfedale, Yamaha.

JPW, KEF, Lexicon, Marantz, Meridian, Michell, Micromega, Mission, Monitor Audio, Moth, Musical Fidelity, Nakamichi, NVA,

# World favourites

## COMPACT DISC PLAYERS

SONY CDP-497	£160	Superb starter CD Player, packed with facilities.	Aug'92
DENON DCD 890	£270	Exciting and forceful sounding player, but slightly characterful	Nov'92
CREEK CD60	£500	16-bit player. Excellent rhythmic properties and a superb bass performance.	Apr'92
QUAD 67	£790	A new breed of Quad. Remarkable solidity and lacking nothing in verve or excitement.	May'93
SUGDEN SDT 1	£850	Airy and spacious with a rare quality of ambience.	Mar'93
NAIM CDI	£1598	Single box, 16 bit player. Close to the two box CDS, has vital 'tingle factor'.	Apr'92

## COMPACT DISC TRANSPORTS

DPA DIGITAL T-1	£795	Superbly clean and detailed sounding transport when sync-locked to DPA's converters.	Jan'93
M'MEGA DUO CD.2	£1850	Seriously priced, serious CD using Philips' CDM-9 PRO mechanism. Exemplary.	Apr'93

## DIGITAL TO ANALOGUE CONVERTERS

QED DIGIT/OPTO	£39/169	Philips Bitstream. Excellent value, with no rough edges. Now with optical input (Opto).	May'92
DPA LITTLE BIT II	£450	Building on the qualities of the original Little Bit, the 'II' is clear and open.	Sep'93
DPA DACS	£450-2K	The current masters of DAC-7, their DACs offer superb performance at a range of prices.	
SUGDEN SDA-1	£650	16-bit Philips based. A wide, open window for the transport to flow through. V. neutral.	Jun'92
P. T. ORDINAL	£695	Pure sound, smooth and free from hardness. One of the best at any price.	Jul'93
M'MEGA DUO PRO	£1050	Spacious and dynamic presentation, with a detailed and informative manner.	Apr'93
DPA PDM ONE III	£1280	Less ruthless than, but staggeringly close to, the PDM 2. Two box, DAC-7 affair.	Mar'92
P. T. DA CAPO	£1350	Pink Triangle's own one bit DAC reaches new standards in digital. One of the very best.	Jan'93

## TURNTABLES

PROJEKT 2	£245	Czech built turntable with much to offer. Very coherent.	May'92
THORENS TD166	£270	Fitted with Rega RB 250 arm. Good basic deck, with tweakability.	Jun'92
MICHELL MYCRO	£397	Inbetween the Synchro and Gyrodeck, the Mycro has superb midband clarity and poise.	Apr'92
ROKSAN XERXES	£785	Highly analytical and exciting turntable. Can be almost CD like in its presentation.	May'92
P. T. ANNIVERSARY	£1200	Very neutral turntable. Excellent imagery and detail. A natural partner for the SME V.	May'92
SME MODEL 20	£2495	The last great turntable, bettered only by the £11,000 Model 30.	Oct'92

## TONEARMS

REGA RB 300	£139	For Pink Triangles, Michells, Roksans, and Systemdeks. Simple and superb; dynamic with solid bass.	
MORCH DP-6	£665	'Unipivot plus' tonearm. Silken and rich quality. Perfect match for the Da Capo cartridge.	Jul'92
SME 309	£568	Based on IV and V: Aluminium armtube and detachable headshell. High end value for money.	Jan'93
SME SERIES V	£1232	A masterpiece of precision engineering, with a cohesive sound.	May'92

## CARTRIDGES

GOLDRING 1012 GX	£60	Rounded bass, slightly forward midband, clean transients. A bargain.	Jul'93
GOLDRING 1022GX	£80	Extra degree of dynamic range and speed over the 1012GX	Jul'93
SUMIKO BLUE POINT	£100	The blue point casts a romantic charm over all types of music. Robust too.	Oct'92
ORTOFON MC15	£100	Moving coil cartridge at a moving magnet price. Has a tight grip on rhythm.	Jun'92
GOLDRING 1042	£100	A reference to all other MMs regardless of price	May'92
SHURE VST-V	£150	One of the finest moving magnets currently available. Excellent tracker.	Jul'92
GOLDRING ELITE	£200	British made moving coil. Good value, smooth and detailed, but can sound brittle at times.	Apr'92
MORCH DA CAPO	£500	Scan-Tech designed moving coil cartridge. Musical and accurate, without any flaw.	May'92

## CASSETTE RECORDERS

NAKAMICHI DR2	£500	Worth every penny, pushes recordings to the limit and remains unflustered.	Mar'93
PIONEER D-500	£600	Very smooth sounding DAT deck, but still slightly coarser than the original source.	Apr'92
TEAC V8000S	£699	Dolby 'S' deck. Easy to use, very stable sound, with instrumental textures close to perfect.	Jun'92
NAKAMICHI DR1	£780	'Domestic' deck with Nakamichi sound quality, and manual head azimuth adjustment.	Jun'93
NAKAMICHI CR-7	£1500	No Dolby 'S', but auto tape tuning and motorised head. Astonishing complexity; The Best!	Aug'92

# World favourites

recommended products

## TUNERS

AURA TU-50	£230	Superb FM-only tuner. Produces a delightful, three-dimensional sound. A cracker.	May'92
YAMAHA TX-950	£260	Fine all-rounder, with good AM section.	Jul'92
H/K TU9400	£300	Fairly basic facilities, but sound which beats anything at the price.	Jul'93
QUAD 66FM	£490	Among the very best in terms of tonal colour and imagery. Remote controllable.	Nov'92
NAIM NAT 03	£500	Warm and easy sound with a good sense of atmosphere, Excellent value.	Sep'93
NAIM NAT 01	£1377	The best solid state tuner currently available. If you want better radio, live in the studio!	Mar'92

## INTEGRATED AMPLIFIERS

H/K HK6150	£159	Good sounding starter amplifier. Great dynamic range, excellent bass.	Jun 92
NAD 302	£160	Lots of insight and detail, but could sound a little rough in the wrong system.	Jan 93
PIONEER A-300X	£200	Exceptionally sweet mid and treble, plus the superb dynamic range of the A400.	Dec'92
DENON PMA-350II	£220	Powerful and with deep rhythmic bass drive.	Sep'93
H/K HK6550	£349	Thoroughly refreshing, tonally neutral amplifier with a realistic price tag	Nov'92
AUDIOLAB 8000A	£430	Very neutral and superbly built. Good bass, great imagery, but can be sterile.	Apr'92
SUGDEN A48B	£460	Gentle performer, but never masks the music with warmth. Tonally very even.	Apr'92
AUDIONOTE OTO	£1250	12w Valve amplifier. More in tune with music than hi-fi. Superb dynamic range.	Jun'92
EAR 834	£1295	Valve integrated amplifier with a sweet, open and detailed sound.	Feb'93

## PRE-AMPLIFIERS

A. I.SERIES 200	£350	Valve preamplifier. Rather coloured but very dynamic. Best with Innovations equipment.	May'92
A. SYNTH. PASSION		£475 Or £275 for the kit version. Unrivalled transparency from a passive pre-amp.	Aug 93
DPA DSP 200S	£495	Not quite the 50S, but there's still nothing to match it at the price, use with 200S power.	Jun'93
MICHELL ISO HR	£850	Impossible not to recommend. What more does your vinyl want?	May'93

## POWER AMPLIFIERS

SUGDEN AU41P	£530	100 Watts of smooth, detailed, full bodied sound. And at a bargain price.	Apr'93
QUAD 606	£675	140W powerhouse. Smooth and civilized, with the legendary Quad back-up.	Aug'93
DPA DPA 200S	£750	Not as cold as the 50S. Better than anything else at the price.	July'93
MICHELL ALECTO (S)	£1300	Valve like transparency, big warm easy going sound.	Sep'93.
A. I. SER. 1000	£1500	50W valve monoblocks. Powerful sound.	May'92
MICHELL ALECTOS	£1800	The Alectos have a lucidity and three dimensional realism that is rarely attained.	Dec'92
CHORD SPM 1200	£2995	Massively powerful, dynamic and detailed sound. Among the best of solid state.	Mar'93
E.A.R. YOSHINO	£25,000	Single-ended valve design. Noel is still suffering withdrawal from this product.	Jul'93

## LOUDSPEAKERS

CELESTION I	£99	Low price, compact size, big sound. An exciting all round performer.	Oct'92.
R' ALLAN MINETTE I	£120	Fast and lively sounding, competent bass.	Sep'93
GLL MAXIM	£120	Replacing the Maxim 3; not as tight in the bass but still one of the best at the price.	Aug'93
MISSION 760i	£120	Detailed, fast, and have bags of rhythm. Ear bashing pleasure.	Nov'93
TANNOY 603	£125	A rich and smooth blend that offer their best when bi-wired.	Sep'92
ROGERS LS2a2	£209	So far the most correct speaker we have discovered at the price. Sweet and even natured.	May'92
TRIANGLE COMETE	£375	Highly efficient small-box loudspeaker with a superb mid band. Great for valve amps.	Apr'92
HARBETH HL-P3	£400	There probably isn't a more neutral sounding design anywhere near the price.	Feb'93
H'BROOK QUARTETS	£555	Sensitive enough to work with low power valve amps. Fast and detailed sound.	Jul'93
JPW RUBY I	£500	Metal driver 'speaker with an exciting and lively presentation.	Aug'93
A. E. AEGIS	£620	Depth and transparency. Fast and lively metal driver loudspeaker	Apr'93
REL STADIUM SUB.	£695	Mono, self-powered subwoofer that works! Very flat frequency response.	Jun'92
PROAC RES I S	£918	Small box design. Can convey the spirit, drive, and passion of music in a small room.	Jul'92
APOGEE CENTAUR	£1200	Hybrid ribbon design. Great imaging and detail. Good value for panel fans.	Jul'92
TANNOY D700s	£1970	Dynamic and powerful. Needs a good clean power amplifier for best results.	Sep'93
TANNOY GRFM	£3500	Giant loudspeakers. Capable of awesome sound. Need good valve amplification.	Jul'92

## MISCELLANEOUS

BEYER DT41 I	£54	Excellent 'studio quality' headphones. Deep bass, powerful sound, if a bit splashy at times.	Jun'92
CELESTION DLP 600	£349	Digital signal processor for the Celestion 600 loudspeakers. Sounds like a £400 upgrade.	Jun'92

# Pentachord Direct

*If Beethoven had chosen  
loudspeakers ...*

British built  
to the highest  
standards of  
design and  
sound quality

For information  
on these and  
other speakers  
in our range  
contact:

Pentachord  
Loudspeakers  
49 Rusholme Rd  
Putney  
London  
SW15 3LF  
Telephone:  
081-788 2228



*he'd have chosen*



**pentachord**

Pentachord speakers are now only sold direct from the manufacturer. This means that there are big reductions in the prices of these high quality designs.

Made of solid timber and real wood veneers, all the speakers are fine pieces of furniture in their own right and their sonic excellence has been universally recognised. Our speciality is the "satellite/subwoofer" system which combines magnificent imaging with a superb bass response and sense of scale. We have a policy of continuous upgrade and the current Mark II models have substantially improved drive units.

Alan Sircom in *Hi-Fi World* wrote that our "A + B" system was "amongst the most refined and integrated subwoofer/satellite systems on the market today", while Geoffrey Horn in *Gramophone* said the Pentacolumns had a "quite astonishing" bass response - "not only is the quantity revelatory but the fast realistic attack and decay betters that of the vast majority of allegedly wide-range loudspeakers"

Examples of the price reductions it has been possible to achieve by direct marketing are as follows:

"A" Miniatures + "B" Bass, including active crossover and bass amplifier reduced from **£1460 to £999**.

"A" Miniatures + Pentode Bass, including active crossover and bass amplifier reduced from **£1599 to £1199**.

Pentacolumns, including active crossover and bass amplifiers reduced from **£2499 to £1785**.

**All speakers systems can be heard by appointment in southwest London, or can be sent to you on approval for 2 weeks' home trial. Home demonstrations can be arranged in southeast England.**

## *Sound Deals* THE HI-FI SPECIALISTS

PRIVATE LISTENING ROOMS • AUDIO/VISUAL  
DEMONSTRATION ROOM • FREE DELIVERY &  
INSTALLATION • PART EXCHANGE  
WELCOMED • PRE-OWNED EQUIPMENT  
AVAILABLE • TOP TAPE AGENTS • ALL MAJOR  
CREDIT CARDS ACCEPTED • CREDIT FACILITIES  
(INCLUDING INTEREST FREE) S.T.S

Agencies include :

AR, Alphason, B&W, Castle, Celestion, Denon,  
Heybrook, KEF, Manticore, Marantz, Monitor  
Audio, Michell, Musical Fidelity, Nakamichi, NVA,  
Pioneer, Ortofon, Rotel, Ruark, Sequence, TDL,  
Teac etc...

1 Drapers Way, Stevenage,  
Herts, SG1 3DT

**Tel. 0438 369999**

52 Shortmead Street,  
Biggleswade, Beds, SG18 0AP  
**Tel. 0767 312249 Fax. 0767 315714**

campaign audio design

## LOVE HERTZ

"You pays your money and you takes your choice"  
but our pure silver cables and quality mains interconnects will  
improve your Hi-Fi system or we will give you your money back.

- ★High Purity Silver interconnects with PTFE
- ★Silver tone arm wires & digital interconnects
- ★Silver speaker cables & mains leads

"We will improve your Hi Fi or give you your money back!"

Campaign Audio Design  
Llandudno Road (HW) Cardiff CF3 8PG  
Tel: 0222 779401

TRADE & INTERNATIONAL ENQUIRIES WELCOME

## TRC Hi-Fi

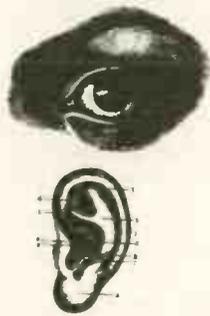
**Agents for: Kenwood,  
Denon, Castle, Rotel**

DEMONSTRATIONS AND  
ADVICE A PLEASURE

**3 King Cross St.,  
Halifax  
Tel: (0422) 366832**

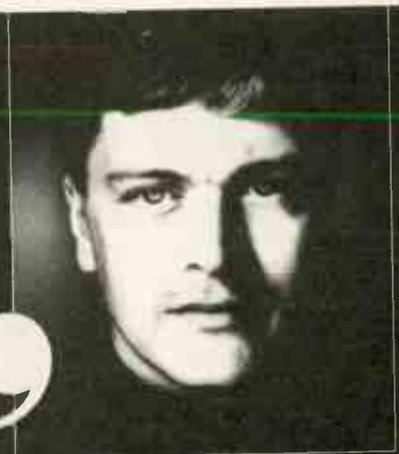
scarborough hi.fi

14 northway, scarborough, n. yorks yo11 1ji  
phone: (0723) 374547  
15 commercial street, harrogate, n. yorks hg1 1ub  
phone: (0423) 504274



When you're compiling your Christmas list to dear old santa don't forget to include the superb **Orelle** two box CD player, a must for music lovers and a snip at £1398. The **Lumley Reference Stereo 70** amplifier is an exquisite example of the best that valves can offer, and under two grand (just). **Cabasse** loudspeakers have to be heard to be believed, but please book a dem first as we are busy at the moment. For those on a smaller budget the **Alchemist Kraken** range has to be the best buy of the season, Integrated from £399, pre / power from £775. We also have some selected **part exchanges** including TDL monitors (2 years old) at £1100 and some ex-dem Quad. PLUS our Harrogate shop now has a **Home Cinema** room upstairs. So seasons greetings to all our customers old and new, from Chris and Rich at Harrogate and Glenn, Dom and Oliver at Scarborough. PS we also stock **Omega** cables.

“ We know how to inspire you with music. ”



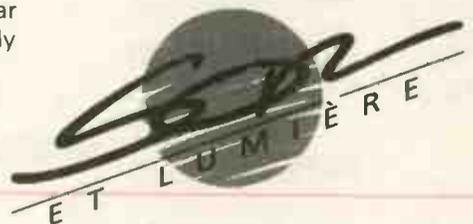
COLIN WELFORD

At Son et Lumière, we make a point of inspiring you with a musical solution that will give unbridled listening pleasure.

In our purpose built listening rooms, we hold what we believe is the best audio solution at every price level from £800 to over £25,000. So, you won't find

us trying to confuse you with numerous hi-fi solutions. As far as we're concerned, we've only got one answer to your requirements.

Whatever your aspirations.



SON ET LUMIÈRE, 67 TOTTENHAM COURT ROAD, LONDON W1P 9PA. TEL 071 580 9059.



# SLATE AUDIO



## HI-FI Design & Cable Services

**THE SPEAKERSTAND** Custom made to suit any loudspeaker. Solid slate, supremely rigid & totally stable. P.O.A.

"Immaculately finished, sublimely rigid, on a par with the best stands I've used."

Ken Kessler, Hi-Fi News/RR March '89

"An astonishing degree of instrumental separation, stable and holographic, with great precision and remarkable poise. The ultimate in high fidelity supports."

David Praker, Hi-Fi Answers Sept. '89

"Superbly finished, the sound quality was considered to be first rate."

Martin Colloms, Hi-Fi News/RR May '90

"The sound quality when using the Slate Audio stands proved to be a revelation, something special."

Paul Messenger, Hi-Fi Choice, May '91

"The finish is excellent, the sound quality magnificent and breathtaking."

Tom Bryant, The Telegraph, June '92

### The Finest Speaker Supports In The World

**GARRARD 401/301 PLINTH SYSTEM** With 20 years of experience, we are the leading experts on the 401/301. Our solid marble plinths transform these decks into world class beaters.

(Free servicing and fitting) £349 + £25 p/p

**THE GLASSMAT** A dedicated mat for the Garrard 301/401 that also works with all other turntables. Sensational, unbelievable, brilliant! £49.95 + £2 p/p

**SME 309/3 12/IV/V** With special graphics "Garrard 401 Celebration" £568.39  £660.93  £827.20  £1232.49

**THE TURNTABLESLAB** Solid slate spiked turntable platform, can be placed anywhere with remarkable results. Size 17" x 14" £175.00

**THE TABLESLAB** Solid slate shelf which replaces any other shelf normally fitted to equipment racks, dramatically improving your turntable's performance. Slate size:  £125.00

**THE SPIKEKIT** Specially developed to fit directly to floor standing loudspeakers or any wooden support. Adjustable and very simple to fit. £20.00

**THE STONESET** Spike kit for use with stone, slate or marble only. Fully adjustable. £20.00

ALL PRICES INCLUDE PACKING AND FREIGHT UNLESS OTHERWISE STATED. (U.K. MAINLAND)

I ENCLOSE A CHEQUE/P.O. for £ \_\_\_\_\_ made payable to SLATE AUDIO

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

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

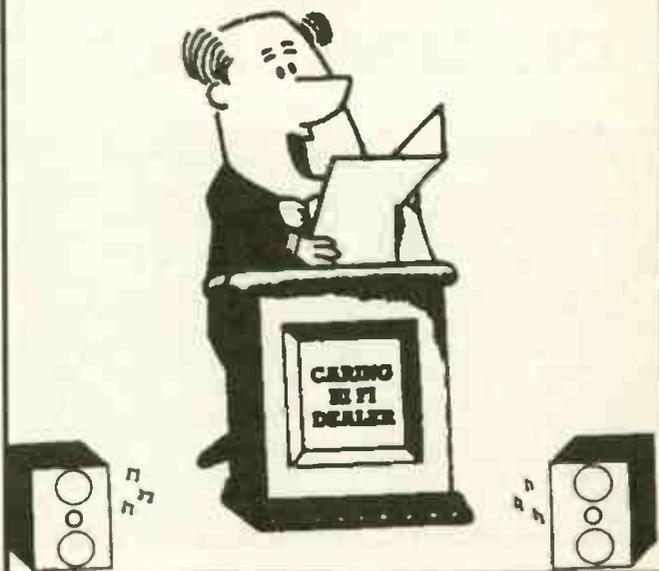
Tel: \_\_\_\_\_

47 GEMINI CLOSE, LEIGHTON BUZZARD, BEDFORDSHIRE, LU7 8UD. TEL 0525 384174

## SPEAKER'S CORNER HI FI

**TELEPHONE NORWICH**  
**0603 743457/0603 426712**

**SPECIALIST IN SONIC LINK  
CABLES AND AMPLIFIERS  
HOME DEMONSTRATIONS A  
SPECIALITY**



“ We stock only  
one hi-fi that  
will suit you. ”



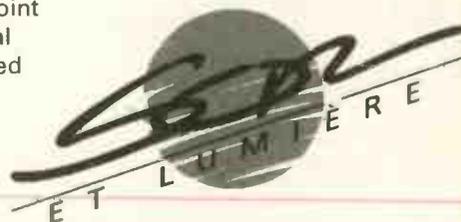
COLIN WELFORD

At Son et Lumière, we hold what we believe is the best audio solution at every price level from £800 to over £25,000.

So, you won't find us trying to confuse you with numerous hi-fi solutions. As far as we're concerned, we've only got one answer to your requirements.

And with our purpose built listening rooms, we make a point of inspiring you with a musical solution that will give unbridled listening pleasure.

Whatever your aspirations.



SON ET LUMIERE, 67 TOTTENHAM COURT ROAD, LONDON W1P 9PA. TEL 071 580 9059.

# GET THE BEST FROM YOUR HI-FI

100's OF AERIALS, 100's OF  
FITTINGS FOR HI-FI AERIALS, TV  
AERIALS & SATELLITE DISHES  
DIY OR FITTED BY OUR  
ENGINEERS

## THE AERIAL SHOP

Quality equipment stocked eg.

ANTIFERRENCE, TRIAX, LAB GEAR ETC...

188 HALFWAY ST, SIDCUP, KENT.  
(LONDON SE & KENT AREAS COVERED)

(081) 300 5588/8990/7454

Authorised Agent for  Television

# VISION AERIALS

## F.M. ROTATOR SYSTEMS

Communal Systems  
Poor Reception Problems  
Repairs (Storm Damage)  
Removals & Refits  
Extensions  
Multi-Point Systems  
Satellite & TV Aerials

Free quotation no obligation  
Call the Professionals on

Stowmarket 0449 766785 (24 hrs)

SUFFOLK • NORFOLK • CAMBRIDGESHIRE

## PRECISION CABLES LTD

We really do stand alone for UNBEATABLE SERVICE both in QUALITY and REALISTIC PRICES making our customised cable service simply the best available TODAY AND TOMORROW.

### OLYMPIC RANGE OF HI-FI CABLES

#### BRONZE QUALITY

Precision Neutrik XLR Jack Plugs  
Musiflex cable is well known  
throughout the Professional Music  
Industry for its neutral transparent  
sound.

DESCRIPTION	LENGTH	PRICE
Phono-Phono pair	0.25m.	£12.75
Phono-Phono pair	0.5m.	£13.50
Phono-Phono pair	1m.	£15.00
Phono-Phono pair	2m. now	£17.00
Phono-Phono quad	0.25m.	£27.00
Phono-Phono quad	0.5m.	£28.50
Phono-Phono quad	1m.	£31.50
Phono-Phono quad	2m. now	£34.50
Jack-Jack patch lead		£8.00
Jack-Jack	0.5m.	£7.50
Jack-Jack	1m.	£8.00
Jack-XLR (mic)	1m.	£8.50
Jack-XLR (mic)	2m.	£9.50
Jack-XLR (mic)	5m.	£12.50
XLR-XLR	1m.	£8.50
Scart-Phono pair	1m.	£10.00
Scart-phono quad	1m.	£16.00

Please add £1.00 per extra m. single  
Please add £2.00 per extra m. pair  
Please add £4.00 per extra m. quad

#### SILVER QUALITY

Neutrik ProFi Connectors, Sharkwire.

DESCRIPTION	LENGTH	PRICE
Phono-Phono pair	0.25m. now	£25.00
Phono-Phono pair	0.5m. now	£25.75
Phono-Phono pair	1m. now	£27.50
Phono-Phono pair	2m. now	£31.00
Phono-Phono quad	0.25m. now	£50.00
Phono-Phono quad	0.5m. now	£51.50
Phono-Phono quad	1m. now	£55.00
Phono-Phono quad	2m. now	£62.00

#### Musiflex cable

Scart-Phono pair	1m	£17.00
Scart-Phono quad	1m	£26.00

Please add £3.50 per extra m pair  
Please add £7.00 per extra m quad

### PC OSC CABLE USED

Unterminated per m. £2.00  
Gold plated 4mm banana plugs std.  
J. A. Michell available.

### DESCRIPTION LENGTH PRICE

4mm-4mm	2m.	£16.50 ea.
4mm-4mm	4m	£20.50 ea.
Jack-Jack	2m.	£12.50 ea.
Jack-Jack	4m.	£16.50 ea.
Jack-XLR	2m.	£13.00 ea.
Jack-XLR	4m.	£17.00 ea.
XLR-XLR	2m.	£13.50 ea.
XLR-XLR	4m	£17.50 ea.

Prices are for single cables (per channel)  
not pairs.

### PC SCREENED MAINS CABLE

16 amp 1.5mm per m.	£4.50
20 amp 2.5mm per m.	£6.20

To: PRECISION CABLES LTD. 53  
EFFINGHAM ROAD, LEE GREEN, LONDON  
SE12 8NT.

TEL: 081-297-0255.

Please send me: \_\_\_\_\_

I Enclose Cheque/Postal Order (Made  
Out To Precision Cables Ltd.)/Cash  
For

£ \_\_\_\_\_

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

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

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

tel: \_\_\_\_\_

Please Phone for FREE catalogue

All Prices Include V.A.T.

Please add £5.00 for postage.

Personal Callers only by appointment.

## For all Your Listening Needs!

Hi-Fi aerials for Radio 3,  
Nicom Stereo on your TV,  
a stereo soundboard for the PC  
or stereo "Virgin 1215" via Satellite

Talk to us now on

051 521 8000

for a service that's sure to delight.

Merseyside Satellite Consultants Ltd.

Antenna House, Atherton Road, Aintree, Liverpool L9 7EL

## ANDY'S AERIALS

- TV & FM AERIALS SUPPLIED & INSTALLED
- SATELLITE TV'S SUPPLIED & INSTALLED
- MULTIPOINT SYSTEMS REPAIRS
- DIY SALES FULLY INSURED COMPETITIVE PRICES
- ALL WORK GUARANTEED FREE SITE SURVEYS

7 DAY SERVICE

Areas Covered:

HARROW, RUISLIP, NORTHWOOD, EALING, ACTON, HAYS,  
SOUTHALL, HEATHROW & ASSOCIATED AREAS

CALL US FOR A PROFESSIONAL & RELIABLE SERVICE

081-814 4890 CELLNET 0860) 830283

SHOWROOM A 45c NORTHOLT RD., (OFF. SAINSBURYS)  
SOUTH HARROW, MIDD. OPEN 9am-5.30pm MON-SAT

# WHY A HI-FI TUNER NEEDS A GOOD AERIAL

**For best sound quality, a hi-fi tuner must have a strong signal of around 1mV minimum.**

**The question is: how do you get it?**

## INDOOR AERIALS

Simple pin-up wire types (dipoles) only provide enough signal within a few miles of a transmitter. Otherwise they are noisy and prone to receiving multipath signals that produce distortion.

We've tested powered indoor aerials and expensive hi-tech designs costing up to £50 and find they give no more signal than simple, horizontal dipoles, either of the wire type or of rigid aluminium. Their only benefit is smaller size. It is better to buy a rigid aluminium dipole and mount it high, upstairs on a wardrobe, at the top of a stairwell, or similar.

## LOFT AERIALS

Loft aerials have the advantage of height and, if there are many elements, gain as well, so they provide a stronger signal than a simple dipole indoor aerial. In areas of reasonably high signal strength - which usually means within ten miles or so from a transmitter, a loft aerial may be satisfactory.

Usually with three elements, a director rod (short), reflector rod (long) and dipole element in between, loft aerials are also directional; they must be pointed toward the transmitter. They reject interference and reflected signals better than dipoles, giving a cleaner signal to the tuner.

The best mounting position is high up in the V of the roof, away from metal objects like water tanks. A long download will be needed, preferably of good quality to minimise signal loss.

## BALCONY & WALL MOUNTING AERIALS

Balconies in blocks of flats have the advantage of height, giving a much stronger signal. However, the balcony should face the transmitter for good results.

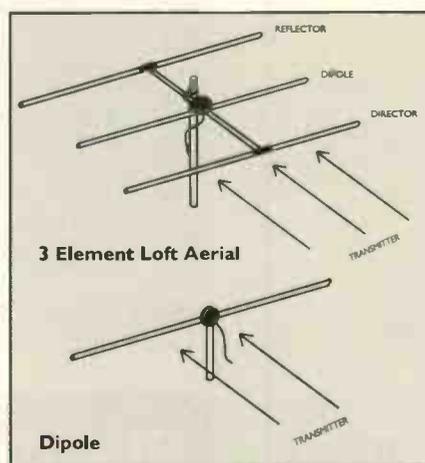
It is often possible, if a little difficult, to wall-mount an aerial on a stub mast outside a window, but you may need consent to do so. Hanging out of a window can be dangerous, so consider using a professional installer. And make sure the wall faces toward the transmitter of course.

## OUTDOOR AERIALS

In most locations, only an outdoor aerial will give a signal strong enough and clean enough (i.e. free from interference and multipath reflections) to provide true hi-fidelity from a good tuner. Benefits are height (the higher the better), crucial for

obtaining a strong signal free of reflections, and number of elements, which determine both gain and directionality.

Multi-element aerials are used in areas of medium to weak signal strength, meaning up to around forty miles from a transmitter. Any further away is judged as a 'fringe' area and will demand even more elements.



## ALL-ROUND AERIALS AND WHIPS

Whip aerials, vertical dipoles and all-round aerials (curved horizontal dipoles) provide less signal than a simple, indoor dipole (i.e. negative gain). They are suitable only for areas of high signal strength.

Although whips and curved dipoles offer all-round reception, this means they provide little rejection of reflections, interference and distant stations. They are not especially suitable for hi-fi use.

## AERIAL AMPLIFIERS AND ROTATORS

Aerial amplifiers are useful only at the masthead to overcome losses in a very long download. They are also used to provide enough signal for distribution around a house.

These roles apart, amplifiers boost noise and rubbish from an aerial by the same amount they boost wanted stations, giving no gain in quality, even though the signal strength meter of a tuner might go up. Not recommended.

Rotators are used to swing a directional aerial around, to receive more stations. A simpler solution is to have two aerials pointing in different directions, with their outputs diplexed together or, for more signal but less convenience, twin

downloads with an aerial switch at the bottom.

## ATTENUATORS

When it's necessary to use a directional aerial to cut down reflections from tower blocks, but the aerial then gives too much signal (i.e. more than 10mV), an in-line attenuator can be used to prevent tuner overload.

## AERIAL INSTALLERS

The best and overriding reason for using an installer is personal safety; roof work is very dangerous. Installers are also very quick and well equipped; DIY may take the large part of a day. Local installers should know about area-specific problems, the location of repeat and fill-in transmitters, and such like - all matters that are likely to be a mystery to most people.

Finally, good installers should have a Field Strength Meter that not only enables them to see whether an aerial is giving the required result, but can prove this to the satisfaction of the customer. Around 1mV is wanted, meaning powerful stations will come in higher (say 3-5mV) but weak ones a bit lower (0.3-1mV). If for no other reason, knowing that the aerial works properly is enough reason for using an installer.

Discuss this matter with them first though. In some areas, it may be impossible to obtain such a strong signal, no matter what aerial is used; get a variety of opinions if necessary.

## CONFEDERATION OF AERIAL INDUSTRIES

The CAI has a countrywide list of aerial installers who are members that abide by the rules below.

To find a local service, contact -

CAI Ltd.,  
Fulton House Business Centre,  
Fulton Road,  
Wembley Park,  
MIDDLESEX HA9 0TF

Tel: 081-902-8998  
Fax: 081-903-8719

*CAI members must employ staff competent for the business conducted. They must follow standards of practice, agree to investigation, examination or test at any time. They must guarantee any aerial, equipment and/or installation work for a minimum period of twelve months ●*

The NORFOLK/SUFFOLK  
High End Dealer

## audible difference

near DISS, NORFOLK

<i>Audion</i>	ART Audio
<b>ATC</b>	<i>Audio Innovation</i>
Audio Note	<b>AVI</b>
CHORD	Concordant
Copland	Croft
DAWN AUDIO	<b>dpa</b>
<b>EAR</b>	IMPULSE
<i>LFD AUDIO</i>	Micromega
Orelle	Pink Triangle
ROKSAN	SME
SUGDEN	Tube Technology

van den Hul

At this level of equipment we believe that the highest level of service should be offered.

We will book only three demonstrations a day to ensure that you have ample time to evaluate the options YOU have chosen.

VPI record cleaning services  
available.

DEMONSTRATIONS IN OUR LISTENING ROOM  
OR YOUR HOME  
EQUIPMENT LOAN SERVICE AVAILABLE

Monday to Friday, 12 to 9 pm  
Saturday 9 to 9 pm

PLEASE RING FOR AN APPOINTMENT  
0850 983233 OR 0379 740227

## AUDIO RESEARCH, AUDIONOTE

### HEATHERDALE AUDIO LTD

Heatherdale Audio have expanded!

We are now able to offer customers demonstration facilities in homely environments in Hove as well as in Worthing.

We are appointed dealers for and offer selected products from.

Audio Note  
Absolute Sound  
Reference Import  
Voyd  
S.M.E

Whether your tastes are Mahler or Motown, Bartock or the Beatles it is the policy of this company to supply and install very carefully assembled systems that reproduce music realistically.

We are well aware of the importance in matching equipment to one's room (one of us is an ex-recording studio engineer) and as part of our service we will help our customers to purchase the best possible system both for their budget and particular home environment.

DEMONSTRATIONS ARE BY APPOINTMENT.  
PLEASE TELEPHONE OUR WORTHING OFFICE  
AND AFTER HOURS NUMBER 0903-261213 OR  
0860-660001 FOR FRIENDLY ADVICE OR JUST  
MAYBE A CHAT.

CLEARAUDIO, GRAHAM, LUMLEY, S.M.E

KOETSU, VOYD, MARTIN LOGAN, KRELL

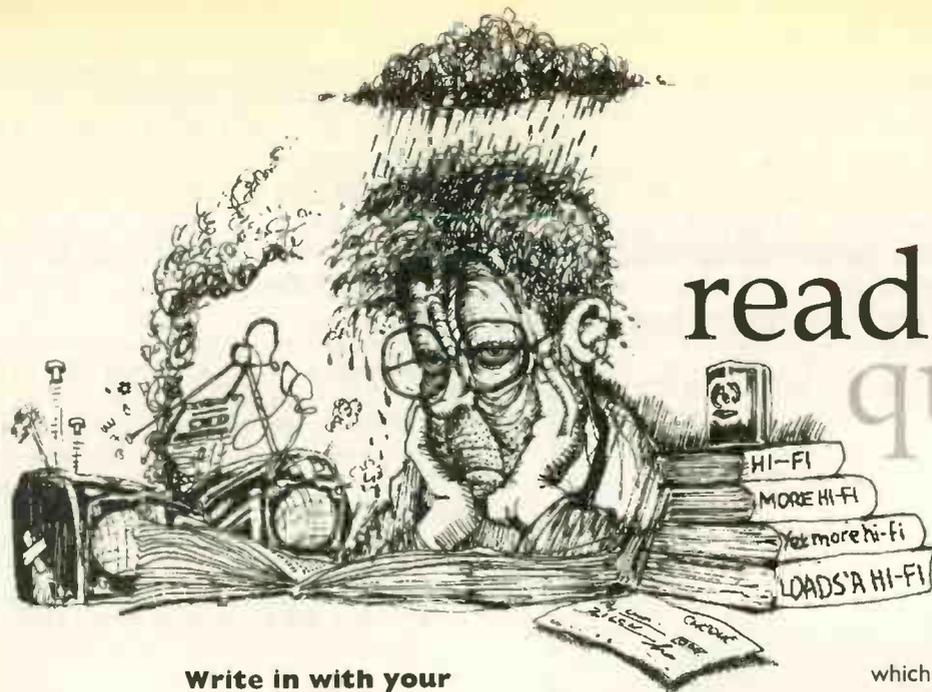
MANGEPLANAR, SONUS FABER

## Quality HiFi Bargains In Windsor

		WAS	NOW
Arcam Delta 170 CD+B B5	Ex Dem	£1150	£799
Arcam Black Box 5 DAC	New	£450	£299
Arcam Black Box III DAC	Ex Dem	£300	£179
Arcam Delta 70.3 CD	New	£750	£499
Audiolab 8000DAC	Ex Dem	£700	£499
Creek 4140 S2 Amp	Ex Dem	£230	£149
Deltec Little Bit DAC	Ex Dem	£400	£279
Exposure XV Amp	Ex Dem	£650	£379
Heybrook HB1 Speakers	Ex Dem	£260	£189
JPW Sonata Plus Speakers	Ex Dem	£135	£89
Linn Ittok LV III Arm	Ex Dem	£560	£400
Linn Spark Power Supply	New	£640	£399
Linn Ekos Arm	Ex Dem	£1297	£649
Linn Kaber Speakers	Ex Dem	£1200	£849
Linn LK 1 Pre Amp	S/Hand		£279
Micromega Leader CD	Ex Dem	£850	£499
Micromega Micro DAC	Ex Dem+New	£300	£199
Naim Nait Amp	Ex Dem	£440	£319
Tannoy 605+Stands	Ex Dem	£255	£149
Tannoy 609+Stands	Ex Dem	£370	£249
Arcam Delta 60 Amp	Ex Dem	£300	£219
Meridian 206B Delta Sigme	Ex Dem	£995	£895
Meridian 201 Pre Amp	Ex Dem	£760	£599
Meridian M30 Speakers	Ex Dem	£1070	£799
Denon DRM510 Cassette Deck	Ex Dem	£160	£119

**RADFORDS**

43 King Edward Court, Windsor. Tel. 0753 856931



# readers' queries

## DRIED OUT

My original CD system consisted of a Marantz CD-40 CD player, Rotel RA-820 amplifier (now about six years old) and Mission 761 loudspeakers on Partington stands, with QED 79 strand cable. I recently purchased some Ixos interconnects, replacing the cheap ones supplied with the CD player, which revealed more detail, and cleaner bass and treble, but also to my ears a dry, bright and aggressive overall sound. Having consulted a number of dealers, the general consensus was that a new CD player was required and I bought the Rotel RB965 BX.

After a week or so of being impressed by the difference, I realised that the overall problem hadn't gone, and the sound remained fatiguing. So what next? I can only afford to replace one component, and I suspect it should be the amp. I have got a £200 to £300 budget and I am considering the Creek CAS 4140 S2 and the Sugden A48B as I imagine

**Write in with your problems to Hi-Fi World, 64 Castellain Road, Maida Vale, London W9 1EX. Our panel of experts will endeavour to solve them or at least offer some practical advice.**

they may add some much needed warmth to the system, while several dealers have suggested the Aura Evolution. I listen mainly to classical music.

Please help me, as I currently find myself strangely hankering after my long departed L.P. collection!

**Michael Goron  
Stratford,  
London.**

No part of your current system is particularly to blame for the harshness that you are still suffering from. It is the combination of a bright source, bright amplifier and bright loudspeakers that is compounding your problem. Unfortunately, a Rotel CD player was the wrong move with a Rotel amplifier and Mission 'speakers. An Arcam Alpha, for example, with its slightly rolled off treble response would have given a softer sound. The Rotel is not a bad CD player - in fact it is very good - but your system is now biased too much towards the bright side of neutral.

Because the Rotel CD player is very good, and your amplifier is old and could certainly be improved upon, I would suggest that you set about building up a neutrally balanced system around your new source. This should solve any problem of harshness and upgrade the whole sound at the same time.

I feel that it is important for you to know what you are heading for when upgrading, so I would suggest taking your CD player along to a hi-fi dealer and auditioning a new amplifier and 'speakers at the same time. By doing this you will be able to decide on a system you like the sound of and aim for it, rather than buying new components that sound good in a demo system, but unbalanced in your system.

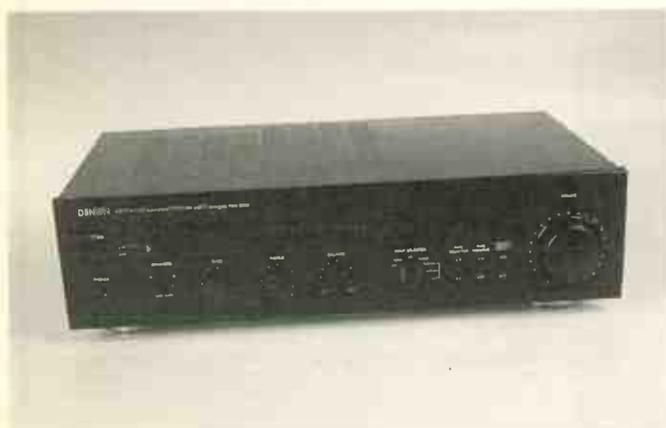
Fortunately we have a good range of equipment in the office at the moment

which has enabled me to have a quick listen to a few systems on your behalf. I came up with the following:

The new Denon PMA-350II at around £220 offers a very smooth and detailed sound. It has good bass drive and an open midrange so should suit the Rotel very well. You don't mention what size room you use your system in, but as you are using small Mission 'speakers I presume it is around 14ft square or so. If this is the case you will not need a particularly large loudspeaker. As you listen mainly to classical music I would suggest you audition the Rega Kytes. These have a very neutral balance and a sweet sounding little fabric dome tweeter which should make them ideal for classical music. They must be placed against a rear wall, or even on a bookshelf to help the bass, and they don't go particularly loud without hitting the end stops, but they do sound very clean and smooth with the PMA-350II amplifier.

You could also have a listen to the Harman Kardon LS 0300s, although these are better suited to rock/pop music than classical, but worth a listen.

Finally, if you do have a larger room than I have guessed, the TDL RTL2s will suit nicely. These use the same little fabric dome tweeter but produce considerably more bass. These mini floorstanders ideally need to be mounted on spikes and placed around 3ft into a room and 2ft from a



The Denon PMA-350II offers a smooth full bodied sound that should tame any harshness in your system.

Continued on page 121... ►►

# Buy *Richard Allan* loudspeakers direct Save a fortune in dealer profits

Compare our price and quality to Mission 760, Wharfedale Diamond and Tannoy 603  
They've had the market all to themselves. Until now...

TOP ★★★★★ RATING

## WHAT HI-FI?

MAY 1993

"they have a natural and tireless presentation of all sorts of music, with an easy, enjoyable performance. Keenly priced (at £120), cracking little all rounders."

Hi-Fi  
WORLD

AUGUST 1993

"Mighty Miniatures"

BUY  
DIRECT &  
**SAVE**  
WRITE OR PHONE  
NOW



**MINETTE 2** £89  
RRP £129 Direct

**MINETTE Gold** £109  
Bi-wired  
RRP £149 Direct

NEW

*Richard Allan* loudspeakers.

Handbuilt in Britain and highly respected since 1947

- Cutting out the retailer and selling direct means huge savings for you
- 30 x 16 x 20cm Minette comes with a **three year** guarantee
- Try the speakers in **your** home with **your** music and **your** hi-fi system
- Price includes VAT and FREE postage and packing
- **IF NOT DELIGHTED RETURN THEM WITHIN 7 DAYS FOR A FULL REFUND**

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Postcode \_\_\_\_\_ Tel \_\_\_\_\_  
Model required Minette 2  Minette Gold  Please tick box  
Payment Cheque  Visa  Access  Other   
Card No. \_\_\_\_\_ Expiry Date \_\_\_\_\_  
Signature \_\_\_\_\_ Please allow 7 to 14 days for delivery

**Richard Allan**

**D I R E C T**

Richard Allan Audio Ltd., Bradford Road, Gomersal, Cleckheaton,  
West Yorkshire, BD19 4AZ England Tel. 0274 872442 Fax 0274 869935

Speaker-like sound...



...it's in the cans!!!

"...the sound quality is more akin to a pair of speakers than most other headphones we know."

**WHAT HI-FI?**

"Frequency response is admirably smooth, and distortion is low even at high listening levels". **AUDIOPHILE**

"Their lightweight comfort and effortless sound make them a joy to use." **WHAT HI-FI?**

**Jecklin Float Two  
AND  
Jecklin Float  
Electrostatic**

"To call these transducer 'head phone is to do them an injustice. 'Head speakers' would be more accurate appellation

**AUDIOPHILE**

▶ Jecklin Float Two R.R.P. £99.00

▶ Jecklin Float Electrostatic R.R.P. £399.00

FOR LITERATURE AND  
DETAILS OF YOUR  
STOCKIST PLEASE  
COMPLETE AND RETURN TO  
MAY AUDIO MARKETING.

Name ..... Address .....

HFV.12

..... Continued from page 119

rear wall.

I suggest that you listen to these combinations with your Rotel CD player. This will give you something to aim for, even if you only have the money to upgrade the amplifier at the moment. **DB**

### PERSONAL TASTES

Below is detailed my system set-up and problems that I am encountering with it. Any suggestions or advice on the matter would be much appreciated.

System: Rega Planar 3 turntable with Rega Bias cartridge mounted on a homemade dampening table, Pioneer CT-2080R cassette deck, Technics SL-XP700 personal CD player, and a Mission Cyrus 2 amplifier feeding Mission 762 speakers through 1mm stranded PVC insulated wire. My listening room measures 13'x13', with my speakers 6' apart 10" from the wall, in the middle of one wall.

Problem: My main sources are CD and vinyl, and my tastes vary from Prince and Supertramp to Talking Heads and Tchaikovsky. When

playing music at low volume levels I found the sound rather uninvolved and lacking a balanced bass and treble. The sound does not suffer so much when listening to vinyl but mainly when listening to CD.

What can I do to improve the sound, as although I enjoy the high volume settings my neighbours and family might not? I cannot decide whether to upgrade the CD player or speakers, or to add a PSX to the amplifier. Alternatively, would better cabling be a wiser and cheaper investment? I have up to £750 to spend.

Could you also advise me on a good tuner in the £100-£200 price range for listening to FM broadcasts, mainly Radio 1 in the mornings and night time. Is there a cassette deck available in the £150-£250 price range that would be a good upgrade from the Pioneer, which is mainly used for transferring vinyl and CD to TDK SA-X tapes for in-car use.

**Colin Harris  
Maidstone,  
Kent.**

The component you are using to source CD into your system is a 'personal' CD player, designed for use on the move and with headphones. These players are of mediocre quality. While the SL-XP700 is an excellent stereo within these limitations, a home system such as yours is likely to show up those areas where it falls down in performance, and this is probably the problem.

A good CD player at around £300 will do the trick. The Denon DCD890 at £270 or their DCD1290 at £330

£300. The NAD Simon mentions is shortly due for replacement, so may be available at a discount price, but the Denon TU260L is excellent as well.

After the tuner, you will have around £150 left for a cassette deck. The Pioneer CT-2080R is around six years old and was a budget £180 model. The chances are that if it has been heavily used the heads will be worn and the whole deck in need of a good service. Unfortunately this could cost nearly as much as a new deck. A good

It seems that the Arcam CD is great value, even for £450+, but this only leaves me with around £500 for my speakers and amplifier. I have short-listed my amp to a few types, headed by the Aura VA-100 Evolution and the Alchemist Kraken APD6, but these are £100 apart. Speakers on my mind only get the £200 mark spent on them from my money.

My problem is that, although the Arcam is good, is £450 in a £1000 system too much? Am I leaving too little room to spare? It seems that the Arcam doesn't reach its full potential with the Aura and even the Alchemist, which not only prevents the full quality of its capability, but also does it an injustice. I have had my eyes on the Arcam all along, but now I'm wondering whether I would be better off with, for instance, the Kenwood DP-7050, having more room to spare for a more evenly balanced system, for the Kenwood sounds good for my taste, but unfortunately doesn't match the Arcam at its full capacity. Maybe you have some ideas as to what I should try out.

If I'm to spend £1000, I want to make sure I spend it wisely, yet I have been getting some confusing and opposing contributions from others, telling me both ways that it's alright with the Arcam or it's not. What I want is some good, frank advice as to what I should do.

I feel that I've waited long enough, and I'm getting tired of having to listen to other not so good systems in the process. This is my first experience in hi-fi, and I would like to hear what you have to say about it.  
**Stefan Ivanovitch  
London.**

Guess who went through exactly that with his last upgrade? The Arcam Alpha's a good enough player, but a little too staid for my taste, and you should consider what is probably the best value-for-money option, which is a transport with an outboard DAC. I bought a Philips 614, which is still available from large chain stores at a knock-down price, although it has been superseded by the £140 692.

Continued on page 123... ▶▶



The Dacula CD convertor from Select Systems offers extremely good sound and value for money.

spring to mind, as does the Yamaha CDX-870, again at £330. All of these offer an involving sound with solid bass and good treble.

If none suit your taste, then a good, cheaper transport, such as Philips' bottom of the range players provide, and an outboard DAC, Select Systems' £376 Dacula or DPA's £450 Little Bit II, is a more expensive option, but still within your budget.

You may like to spend a little of the leftover money on some good interconnects and 'speaker cables

Good tuners in the £100-£200 range? No problem! the £110 Denon TU-260L has been a favourite of ours for some time, as has the NAD4225 at £160. Both are AM/FM machines. **SC**

One other CD player to try is the £420 Arcam Alpha. This is a smooth sounding player with a good firm bass, so should suit the system nicely. This would leave around

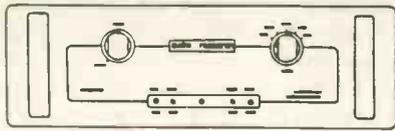
replacement would be the £199 Kenwood KX-5050. This has all the convenience features that are useful for making up quick tapes for the car as well as a good sound. As long as you use good tapes (TDK AR should be the cheapest) the Kenwood should give excellent results over a long life. **DB**

### SYSTEM SELECTION

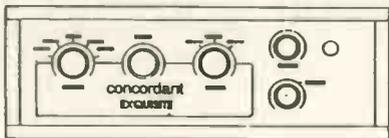
For about a year and a half now, I have been wanting to buy a CD-based system for around £1000 or slightly less. After reading through each edition of almost all the hi-fi magazines around since then and listening to various combinations of CD, amp and speakers, I have been left bewildered as to what I should choose.

I haven't got a wide range of music taste; I listen to a lot of classical music, and have tried out my music on various systems, mainly all based around the Arcam Alpha+ CD, now upgraded to the Arcam Alpha 5.

# WHAT HAVE



# THESE PRODUCTS



# IN COMMON ?

They both feature valves and offer the very best sound quality

Apart from that, very little!

Where else but K.J. can you hear them together?

The brand new Audio Research LS5 reference pre-amplifier sets new standards.

The sought after Concordant range offers traditional styling with a rare sound quality.

**COME AND HEAR THEM WITH OTHER SELECTED COMPONENTS RECENTLY ADDED TO OUR RANGE.**

- AUDION - Silver Night triode mono blocks
- AUDIO INNOVATIONS - 700 Int. & mono block amps.
- SONIC FRONTIERS - valve power amps
- AUDIO RESEARCH - LS3B Line stage Pre-amp
- AUDIO RESEARCH - D400 Mk2 power amp.
- IMPULSE - H2 & H6 Speakers
- KRELL - KSA 100s Power amp
- MICHELL - Alecto mono block power amps
- MUSICAL FIDELITY - A1000 Integrated amp.
- PINK TRIANGLE - DACAPO & Ordinal DAC's.
- SONUS FABER - Minima Amator speakers
- THETA - Data Basic Transport & Cobalt DAC
- TANNOY - D700 Definition speakers
- HARMONIX - Tuning Devices  
(What are they? - magic!)
- ORELLE - CD 10T/DA180 CD player

Where else in London are you going to find a line-up like this all under one roof. A positive Aladdins cave of hi-fi.

Not only do we have available such a great choice but we make paying easier with our INTEREST FREE CREDIT schemes allowing up to 10 months to pay

*Established brands stocked by KJ*

Accuphase \* Acoustic Energy \* Albarry \* Alchemist \* Apogee \* Arcam  
Audio Alchemy \* Audio Innovations \* Audion \* Aura \* Audiolob  
Audio Research \* B & W \* Castle \* Chord \* Craft \* DPA \* Epos \* Gradient  
Impulse \* KEF \* Krell \* Marantz \* Martin Logan \* Meridian \* Micromega  
Michell \* Mission Cyrus \* Morch \* Monitor Audio \* Musical Fidelity  
Nakamichi \* Nitty Gritty \* Orelle \* Pink Triangle \* Pioneer \* ProAc \* Quad  
Rogers \* Roksan \* Rotel \* Siltech \* SME \* Sonus Faber \* Stax \* Spendor  
Systemdek \* Tannoy \* Theta \* Thiel \* Wadia

*Home Cinema Brands* - \* Celestion \* B & W \* Denon \*  
Infinity \* KEF \* Lexicon \* Monster \* NAD \* Pioneer \* Yamaha \*

**kj** K.J. WESTONE

26 New Cavendish Street, London W1M 7LH  
(Close to Marylebone High Street)  
Tel: 071 488 8262/8263 \* Fax: 071 487 3452

Open: Mon-Sat 10.00 a.m.-6.00 p.m. Thurs until 7.00 p.m.



# Chelston

HI-FI

Come to us for the largest selection of surround sound systems in the South West

STOCKIST OF :

HEYBROOK, NAD, DUAL, ROTEL, PHILIPS, MARANTZ, MONITOR AUDIO, QUAD, PINK TRIANGLE, ACOUSTIC ENERGY, JPW, CELESTION, MUSICAL FIDELITY, PIONEER, AURA, YAMAHA, SONY, AND MANY MORE ....

38 Walnut Road, Chelston,  
Torquay, Devon TQ2 6HS  
Tel. (0803) 606863

## SRG DESIGN CL1 LOUDSPEAKER

A new approach to loudspeaker design. A design that brings harmony to both the music and the home. A loudspeaker where attention has been given to the aesthetical design as well as the technical performance.



The CL1 speakers are different. They are a piece of furniture. They can be finished in a colour to suit the decor. They do not look like the normal speaker and are less obtrusive.

As to performance, frequency range 35 hz to 22KHz, power handling 45 watts, efficiency 91bd. Physical dimensions: height 41" width 13". from £290 (incl VAT)

For a colour brochure ring 0225-334595 or write to SRG DESIGN  
1 Saville Row, Bath BA1 2QP.

## Lumley Reference



## FOR REAL MUSIC LOVERS

The world's finest amplification  
Requires very few comments

For more details and consultants list call  
**REFERENCE IMPORTS** Pineridge, Sandy Cross,  
Heathfield,  
East Sussex.

Tel: 0435 868004 Fax: 0435 864481

... Continued from page 121

For a DAC, the DPA Little Bit II is excellent, but a little expensive at £450 although, again, the older version is still available at a bargain price (£250 in several dealers around London). Select Systems' Dacula is also a very sweet performer at £376, and there's also QED's £140 Digit to be considered, especially if you want to consider our 'positron' DIY upgrade.

The Alchemist you mention is a good amp., although the Denon PMA-350II at £220 and the Harman Kardon HK6550 at £349 are also well worth a listen.

With 'speakers, try the £120 Richard Allen Minette IIs, or the £210 Rogers LS2a2s, or one of the 'speakers from this month's group test, such as the TDLs or Regas.

Of these options, I would recommend the Philips/Dacula/Harman Kardon/Rogers option, which should come in at £80 above your £1000. Be prepared to shop around, and also to haggle a little (in the nicest possible way!) with your dealer, and you might get it for less. **SC**

### TECHNICS TRIBULATIONS

I have been collecting recordings for the past twenty years and I have quite a few. Moreover, I listen a lot to the radio. I thus have no real need for more recordings. I have nevertheless decided to purchase a CD player, because I just want to hear my favourite recording, La Tosca with Maria Callas, under the baton of De Sabata in the new format. I had set my heart on the Technics SL-PG500 (Aug 92), but I just realized that you have dropped it from your list of favourites. What happened and what should I do? I can spend only up to £250 or so.

**Henri Noel  
Quebec,  
Canada.**

Our 'World Favourites' column covers products that we have reviewed recently, and products are dropped from the listing as and when we feel that they may have been superseded and according to the requirements of space in our listings. The Technics, if it is still available

in Canada, is still an excellent player, or you may like to try the Denon DCD890 at £270 or the £230 Marantz CD52 mkII, although I doubt that the latter will flatter Maria Callas, it being a player more suited to rock and jazz. **SC**

### HOW BIG AN UPGRADE?

I am constantly upgrading my system. For the time being it comprises of a Marantz CD-52 SE Mk II, an Audiolab 8000 C/P, a Marantz ST-40L tuner and Tannoy 603 'speakers. The 'speakers are on lamp tables of the same heights, single wired using Furukawa FS-2T12 cables. Interconnect between pre and power amp is Furukawa FD-1010 and Marantz's own cables between sources and the pre-amplifier.

I am generally happy with the sound I obtain from CD source. The Marantz and the Audiolab combination is producing a big and well balanced sound with punchy bass in my room (dimensions are three by five metres). However, I am not satisfied with the tuner. I am using a dipole aerial supplied by Marantz. Even from the strongest stations (I mostly listen to Jazz FM or Melody radio) sound is distorted and compressed (or processed?). Bass lines are easy to follow but soft, perhaps over emphasised, treble is dirty most of the time, and there is no big difference dynamically between the loudest and quietest passages. I suspect this is the way the Marantz is designed to sound - if I use a better aerial, this character will remain.

I was using a Kenwood 5020 receiver before and even with a wire dipole I was getting excellent sound from Jazz FM. I am planning to change the tuner for a more sensitive and unprocessed sounding one. I am thinking about the Denon TU-260L or Pioneer F-676. I also intend to get an indoor antenna like the Maxview Omnivision.

Can you suggest any other sensitive tuners that have sound quality that will not let down my system? My maximum money for the tuner is about £300.

I also want to upgrade the 'speakers. They should be able to work on my lamp tables, because I do not want to

change stands with every 'speaker. Even with floor standing models, I want to place them on tables, because I do not want to upset my neighbours with floor-shattering bass.

My short list for 'speakers is: Epos ES11s or 14s, or maybe Apogee Centaur Minors (I heard them with Audiolab



Aura's TU-50 gives a clear and sweet sound from radio.

amplifiers and they sounded very good). Do you have any other recommendations? I like a natural and involving sound, with integrated and realistic treble and a good sound stage. Thank you very much in advance for your advice.

**Bulent Cocksun  
London.**

Sorry, but loudspeaker stands are essential both for the Tannoys you already have and any of the loudspeakers you suggest, except the Apogees. You're mistaken in thinking that your neighbours will be disturbed in consequence: your plant stands are probably transmitting more energy into your floorboards (and their ceiling or walls) than a dedicated pair of stands would. I urge you to try a pair of Tannoy's own stands before you waste any money.

The same goes for the tuner. The character of the sound you are describing is more a consequence of the Marantz' different sensitivity than its inherent quality. There is no alternative to a good outdoor aerial, but obtain a (metal) dipole which you can then place in the highest part of the room if you have no access to the roof.

Now see what happens: upgrading rather than optimising is the likeliest way to lead to increasing dissatisfaction, because you are not addressing the two

fundamental problems: seating your speakers properly and providing your tuner with a good strong signal. **EB**

Good sound from a tuner demands a good aerial, as Eric says, and tests we have carried out on indoor aerials show that a rigid metal dipole placed high up indoors

(preferably in a loft, but at the top of a stairwell or on top of an upstairs wardrobe) will give more signal than any of the fancy, compact indoor aerials on offer.

Noting that you were happy with the sound of the Kenwood tuner, I would suggest you listen either to the Denon TU-260L, which is very sensitive and has a warm sound, or the Aura TU-50, which sounds bright, but clear and sweet. **NK**

### END THE CONSPIRACY!

My system comprises an Elite Rock /Excalibur turntable, Myst TMA3 (MM) amplifier and Castle Pembroke speakers. My questions are in two directions: What are your suggestions for replacements of my existing cartridge (Ortofon OM10) bearing in mind the amp, and secondly the speaker cable (QED 79).

Bearing in mind that none of the items are still in production today what upgrade paths would you recommend in each of the three areas?

In both cases my aim is recreating the original sound as closely as possible. This aim overrides all others, but is followed by good price/value for money. The room size is 13 feet wide, 10 feet high, and 20 feet long, with a marble floor.

I must be an extinct species because I don't have a CD

Continued on page 125.... ▶▶



.... Continued from page 123

player. The biggest advantage it has is that it is easy to fool the public into believing CD is perfect then, by some strange coincidence, other "more perfect" models are introduced. No thank you!

Until this conspiracy is brought to justice I'll make do with my more realistic sound from difficult to use, easy to scratch plastic. I pity the guys who like classical music because they have no choice with new releases.

I'm all for technological advancement but I rebel against its exploitation by deceit.

**Emmanuel Kroussaniotakis**  
Nicosia,  
Cyprus.

I'm always surprised at the number of readers who have a Myst; every time I have to explain that my memories of it are, well, a bit mysty. The first upgrade must be the cartridge,



Harbeth HL - P3s are a possible upgrade from Castle Pembroke's

since the OM10 is nowhere near the quality the Rock/Excalibur deserves. I think I would go for an Ortofon MC15 Super, but look out for announcements of new cartridges from their direction soon.

The same company has some excellent speaker cable, which is ridiculously cheap for the quality and will be a great improvement on the QED,

which by comparison is a trifle sluggish with moving-coil speakers. Both these changes will add a bit more zip to the system as it stands.

Given that you are sticking with the plastic plesiosaurs, I think you should venture further into the Jurassic Park of vinyl replay. I stress that I don't know whether this will work, but I think there's a fair chance. Try a Hera'd Iso, upgrade the cartridge to the top - a Lyra Lydian, say - and use up one of the Myst's line-level inputs.

Speakers are more of a problem, not just because the Myst, as I recall, was not particularly powerful, but also because you mention marble floors. Those who dwell in marble halls have to live in a live, reverberant acoustic, and I really cannot think of a modern speaker that might produce good results in that kind of environment. Cautiously, I would suggest studio-monitor types like the Harbeth HL-P3, Rogers Studio 3 or, more likely,

one of the bigger currently revived Rogers/BBC-ish designs. The problem is that none of these are likely to go very loud with the Myst driving them, and the handful of ultra-efficient designs which use horn-loading or transmission lines I strongly suspect would roar like a Minotaur over a marble floor. What the dealer situation in Cyprus is like, I have no idea, but home trial in these

circumstances is absolutely mandatory.

As for the CD/vinyl controversy, I'm opting out. I use both, but when I turn to vinyl rather than CD it's generally because I have far better performances on black disc than on silver. It seems there are more second and third-rate releases than ever before, but that is probably an illusion. I often refer to issues

of Gramophone from the late Fifties and Sixties. This was the so-called 'Golden Age', but there was a lot of dross around then, as well. I'll probably be tied to a tree to be fed to a sabre-toothed tiger for saying this, but I think it's unfair to shoot the (CD) messenger just because the message (the performance or recording) is often abysmal. Nobody ever seems to have accused turntable manufacturers of improving their turntables and the sound of vinyl with it... but, really, by comparison the vast majority of turntables available twenty years ago were, by current standards, appalling! I can only think of two affordable ones from those days, by Pioneer and Trio, and believe me, there are far more CD players available for less money in real terms now that would knock them into a cocked hat. **EB**

#### GRAPHIC EXPLANATIONS

I am at present using a pair of home made 'speakers which are very good, but I don't feel that they are bringing out the full qualities of the system. I have used some other 'speakers to test the system with, including a pair of Sony APM10ES, and a pair of B&W DM4s. These really do improve the quality of the system, but I cannot use them permanently as they are not mine. So I am thinking of investing in a very good pair of loudspeakers but £400 is the most that I can really afford to pay at present.

My system at the moment comprises of a Sony CDP497 Compact Disc player, Sony STS-370LB tuner, Sony TC-W810 twin cassette deck, Sony SEQ-411 graphic equaliser, Kenwood P-26 turntable, Teac X-3 reel to reel tape machine and a NAD 3020A amplifier. I have listened to some B&Ws, Tannoys, Missions and Wharfedales but I particularly liked the sound of the Mordaunt-Short MS5.50 loudspeakers (all were tested on a Rotel amplifier).

Do you think these 'speakers are worth £400, or could I get a better pair for the money which would match the system better? (I might also consider upgrading my amplifier to either a Harman Kardon HK6150 or an Arcam Alpha 3).

**John Battersby**  
Teddington,  
Middx.

Try this. Take your CD player along to a hi-fi dealer and ask them to plug it into Denon's new PMA-350II amplifier and a pair of Harman Kardon LS 0300s. Insert your favourite CD and wind up the volume. If after half-an-hour or so of listening you still think that you need a £400 pair of loudspeakers that are to be driven by a NAD3020 and a graphic equaliser, apologise to the hi-fi dealer and ask for a pair of Mordaunt Short MS5.50s.

I hope you will be so impressed with the clarity and detail of the first system, that you will never consider using a graphic equaliser again. These are cheap cases stuffed full of low grade electronics which distort and colour the sound. The controls on the front panel are largely for boosting and correcting distortions which the equaliser itself has introduced to the system. Every extra component in the signal path adds its own distortion to the signal, if you want to hear what the music is really like, try my suggestion - it's a much better way of spending £400. **DB**

I would offer an alternative view here, based upon how your current system might be performing. I note that you have a strong preference for Mordaunt Short 5.50s, which have a warmer sound than is common in hi-fi loudspeakers, explained by falling upper treble in their frequency response. Personally, I don't dislike their presentation; it has the benefit of being relaxing, unintrusive and not too garishly "hi-fi" - in the worst sense of the word.

If this is your clear preference, after listening to brighter boxes, then I suspect that your own DIY loudspeakers had too little treble and it is a sound balance you have become accustomed to.

There aren't so many warm sounding loudspeakers around at present. Tannoy's 607s are worth checking, since they have a big, fullsome sound and Tannoy's metal dome tweeter is smoother and less intrusive than most. Ruark Swordsmans are another option. We haven't yet heard Mordaunt Short's new loudspeakers, but you should attempt to get a demo if possible. **NK**



# Klipsch

HORN LOUDSPEAKERS

UK DISTRIBUTOR  
021-430 7817

A LEGEND IN SOUND KLIPSCH AND ASSOCIATES, INC.

## IAN HARRISON HI-FI DISCOUNT MAIL ORDER SUPPLIER OF HIGH QUALITY AUDIO & VIDEO EQUIPMENT, ACCESSORIES, TEST CASSETTES & TEST COMPACT DISC

<b>AUDIO TECHNICA</b> AT-ART1 ATH911 AT-OC80 ATH910P AT-OC10 ATH910P AT-OC5 ATH611	<b>QUAD</b> DL304 DL103 DL110 DL160	<b>SENNHEISER</b> HE 60/HEV70 EPOA HD580 £159 HD1000 £179 HD560II £115 HD540II £99 HD530II £79 HD520II £73 HD340 £53 HD330 £44 HD320 £32 HD440II £29 HD435M £24	<b>PHILIPS</b> DT911 £159 IRS790 £135 DT901 £153 DT811 £136 DT801 £105 DT511 £70 DT411 £49 DT311 £40 DT100P £112	<b>SONY</b> MARANTZ PHILIPS QUAD	<b>AUDIO &amp; VIDEO TAPE</b> TDK, MAXELL, SONY, AMPEX, BASF, JVC, SCOTCH	<b>DAT</b> SONY TCDD3 TCDD7 DTC690 PRO DAT
<b>ORTOFON CARTRIDGES</b> MC5000 MC15SII MC3000II MC10S MC2000II MC3T QUASAR MC1T QUATTRO 530 QUARTZ 520	<b>DYNAVECTOR</b> DVXX1L DVXX1 DV17D2MKII DV23RSMKII DV10X4MKII DV50XMKII	<b>POA</b> KOSS EPOA	<b>CASSETTE DECKS</b> AIWA, TEAC, SONY, DENON, REVOX	<b>SPEAKERS</b> WHARFEDALE, SPENDOR, ATC, QUAD	<b>AMPLIFIER</b> QUAD, MARANTZ, SONY, DENON	<b>HI-FI FURNITURE</b> APOLLO, SOUND ORGANISATION, GOLDRING - BLACK STAIN.

\*PHONE NOW FOR THE BEST PRICE ON MOVING COIL CARTRIDGES. TRADE IN YOUR OLD MOVING COIL (ANY AGE OR CONDITION) FOR A BRAND NEW ONE. SUBSTANTIAL DISCOUNT AVAILABLE!

\*ALL GOODS ARE BRAND NEW WITH FULL UK GUARANTEES. NO EX-DEM EQUIPMENT. ALL GOODS ARE SENT WELL PACKED AND INSURED. DELIVERY IS £5 \*SORRY-NO CREDIT CARDS

AVAILABLE BY MAIL ORDER ONLY. FROM IAN HARRISON HI-FI 7 MILL HILL, REPTON, DE65 6GQ TEL: 0203 700759 Fax: 59m

### QUINTET 25w Stereo CONCERTO 40w Stereo TEMPO 30w Mono

All Class A with hard wired P.C.B. and Star earthing (the best of both worlds).

**IN THE NORTH**  
Doncaster Hi-Fi Studios,  
Sunnyfields (0302) 781387

**Hi-Fi Experience**  
Glasgow (041) 226 4268

**IN THE SOUTH**  
Vinyl Tube Audio  
43-45 Fortress Road  
Kentish Town  
London  
071-485-4854

**Paul Green Hi-Fi**  
Bath, Avon  
(0225) 316197

**What do the critics say:**  
**QUINTET**  
The Art Audio gives you music with a sense of rightness that you don't really question but simply get on and enjoy. Sweet, open and lucid, the music is produced with an easy sense of naturalness which makes long term listening fatigue free and especially rewarding.  
**Roy Gregory, Hi-Fi Choice.**

**TEMPO**  
I feel that the Art Tempo amplifiers are among the finest valve power amplifiers currently available. The imagery that the Tempos create is vivid, lifelike and full of space and air.  
**Alan Sircom, Hi-Fi World**  
**MAESTRO**  
... they are just so stunningly gorgeous and open to listen to, I can barely imagine anything more alluring.  
**Noel Keywood, Hi-Fi World**  
...the Maestro is part of that rare breed of hi-fi that makes you forget about the equipment and think about the music. In all, unlike the car, the Maestro lives up to its name.  
**Alan Sircom, Hi-Fi World**



130 MAIN STREET, CALVERTON, NOTTINGHAM NG14 6LU Tel: 0602 653604

## Full AV Demonstrations and Facilities



**HI-FI CENTRE, SALES & SERVICE**  
158 UXBRIDGE ROAD, WEST EALING,  
LONDON W13 8SB



Tel: 081 579 6315

## Transfiguration, Wilson Benesche, Magnum, Dynalab, Graham,



We at M.J.S. Hi-Fi are dedicated in the quest for excellence in the reproduction of recorded music. You can be assured that we are not influenced by reviews and all the hype in Hi-Fi magazines. We devote time and patience when auditioning before we recommend and stock the product.  
We feel very sad about the way in which most Hi-Fi equipment is chosen and sold. We offer a refreshing alternative to the norm:-

- \* EXTENDED AUDITION TIMES
- \* HOME AUDITIONS
- \* HOME VISITS
- \* OPEN DISCUSSIONS
- \* TUNING SUGGESTIONS
- \* EVENING AUDITIONS

AND ABOVE ALL COMMITMENT TO YOU AND YOUR MUSIC.  
For More Details, Please Phone:

**M.J.S. HI-FI**  
80 Stapleton Lane, Barwell, Leicestershire  
LE9 8HE  
Telephone: (0455) 846977  
BY APPOINTMENT ONLY

John Shearne, Concordant, S.D. Acoustics,  
Diamond Acoustics, Origin Live, Basis, S.M.F

Lumley Reference, Nottingham Analogue, Townshend,  
L.F.D, Helius, Silver Sounds, Cogan Hall

Ortofon, CAT, Unistar, Sonic Link,  
Pearl, Gamma, Moth

## MAIL ORDER ACCESSORIES

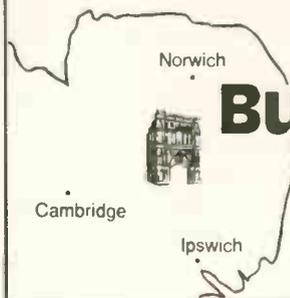
- Cables - Audioquest, Furukawa, Heybrook, Ixos, Ortofon, QED, Van Den Hul
- Stands - Alphason, Goldring, Sound Organisation, Stands Unique, target
- Cartridges - Arcam, A.T., Denon, Dynavector, Goldring, Lyra, Ortofon, Sumiko
- Headphones - Beyer, Sennhiesser, Stax
- Accessories - Allsop, BIB, Discwasher, Hunt, Kontak, Last, Michell, Milty, Nagoaka, Pixall, QED
- LP's/CD's - Audioquest, Klavier, Opus, Reference Recordings, Sheffield Labs.

TO ORDER OR FOR A FULL CATALOGUE  
PHONE 0850 565693

### NOW ON PERMANENT DEMONSTRATION THE MICHELL ENGINEERING RANGE

- ISO
- ARGO
- ALECTO

### THE PINK TRIANGLE RANGE INC. THE ORDINAL



## Bury Audio

47 Churchgate Street  
Bury St. Edmunds  
Suffolk IP33 1RC  
Telephone 0284 724337

# CLASSIFIED ADS

**PRIVATE**

TOWNSHEND ROCK  
TURNTABLE with Townshend  
Excalibur tonearm and Shure VST-  
V cartridge. £950 ono  
Tel 081 878 1127.

B&W DMI SPEAKERS, Armstrong  
521 amplifier, Armstrong 524 tuner  
and Akai GX-M10 cassette deck.  
Offers invited all or separate. Also  
Garrard/SME/Shure phono for right  
offer.  
Tel 0753 888 407 (Eves).

LINN SONDEK LP12, Grace 707  
arm totally original and mint  
condition £250 ovno Marantz 2120  
AM/FM stereo tuner mint  
condition £40. Technics SU9011  
preamp also mint condition £60  
Tel 0933-625436.

LINN PRETEK/POWERTEK AMP  
(£800) £475 ono. Pioneer PD9700  
CD player (£400) £190 ono. Both  
1 yr, immaculate, boxed. Linn K9  
cartridge, new stylus, £40.  
Tel Andrew 0256 488 768  
0491 835 125 (Eves).

MUSICAL FIDELITY A100 amp and  
MC2 speakers with Target stands  
£200 each or £375 for both.  
Tel Newark 0636 640593 or  
0860 747871.

LOFT CLEAROUT MERIDIAN  
MCA-1 with MC and TAPE  
modules, Sound Organisation table,  
Target TT2 table, Linn LVX  
tonearm, Audio Technica OC7 and  
AT31E cartridges. No reasonable  
offer refused.  
Tel 0494 863305.

SPEAKER UNITS KEF B139 £75pr.  
B110B £25pr. T32 £20pr. Xover  
for above £18. Isophon KK8s  
£15pr. Peerless K010 HFC £8pr.  
Leak Delta 70 amp teak £65.  
Collection or carriage  
Tel Tony 0472 878919.

APOGEE CALIPER SIGNATURE  
Speakers 4 months old, boxed as  
new £1995.00 Krell KSA 80  
£2100.00 ono. Quad 606 power  
amp & 44 pre-amp £495.00 all in  
mint condition & P.X. considered.  
Tel 0225 423354.

LINN LP12 BLACK, basik LVX  
services, new Valhalla and motor  
£375. Musical Fidelity M.V.T. pre-  
amp with P.S.U. (£1400 new) £500.  
Pair MA50's, 8mths old £400.  
Tel 0273 738870

SHARP MINIDISC PORTABLE  
player MD-DIOE (BK) r.r.p.  
£399.99 unwanted competition  
prize. Reasonable offer considered.  
Tel Maidstone 0622 745489

**PRIVATE**

GARRARD 401 SME 3009/11 arm  
and Shure cartridge, good original  
condition £240 ono. Linn Saras and  
stands £250 also Pioneer PDS 801  
CD player, very little use from new  
£190.  
Tel 091 487 7796 (Tynside)

ROGERS STUDIO 1 loudspeakers.  
excellent condition £395 (Pair)  
(Moving house, hence mobile  
phone).  
Tel 0836 380 344 Cheshire.

COMPLETE SALE ONLY very little  
used all boxed. LP12, ITTOK LV2,  
Troika, Naim 32.5, 250, HICAP,  
SBL Speakers, NAD 4150 tuner,  
Denon DRM 14HX C/deck never  
used. 50 unused tapes in storage  
units, over 300 records and table  
and stands purchased and upgraded  
by Sound Org. A sensible offer.  
Tel 081 743 5690.

MERIDIAN 200 TRANSPORT,  
new spec. 2 months old, £695.  
Audioplan Musicable speaker leads,  
2x6.5 metres, £160 (1/2 price).  
Various Furukawa and van den Hul  
interconnects.  
Tel 0442 877853.

MUSICAL FIDELITY A120 class A  
integrated amplifier 1 year old  
£325. Micromega Optic CD player  
£350. Micromega Microdac £175.  
All as new, boxed. Carriage can be  
arranged.  
Tel 0983 755205 (I.O.W.)

MARANTZ CD 72 CD Player.  
Brand new, boxed and unused.  
Open to offers.  
Tel 0283 222309 (Evenings).

NAIM CDS, 1 month old,  
immaculate, boxed, with 2 year  
warranty, £2200. Linn Sara9  
speakers, biwired, blackash, with  
stands, and cable. £420.  
Tel 0524 381389.

WANTED SB4500, LINEAR phase  
loudspeakers, or drivers from  
Such. Tel 0209-715960  
(After 6:30pm).

COMPLETED HI-FI WORLD  
DESIGN 3-way loudspeaker  
cabinets (not kit). Machine cut  
panels, shaped and chambered  
front baffles, internally damped,  
black woodgrain finish. Offers or  
swap for amplifier.  
Tel 0787 374399

REVOX A77 Mk IV, 3 3/4 and 7 1/2  
ips, half track. Plus 29, 10 1/2"  
NAB reels, other smaller reels and  
edit Kit. Offers £850.00 ono  
Tel 0923 894546

**PRIVATE**

AUDIO INNOVATIONS SERIES  
800 MkI power amp £345.  
Townshend Rock/Linn LVX plus  
Tonearm/A&R M/C £435. Dean  
Altos £150. Rata turntable support  
£75. Target HJ15 stands £65. 2x2m  
Rotel Supra 10 £20  
Tel 0532 559475

LUMLEY REFERENCE 120  
monoblocks (pair), almost new,  
120 Watts each. Mortgage  
arrears force sale (New price  
£3,200), £1,900 pair.  
Tel 0273 541462 (Brighton)

VOIGHT CORNER HORNS.  
Matched pair with Lowther PM6  
units. Mint condition. Unique  
opportunity. £1500.  
Tel 0202 707901

CYRUS I £170; CELESTION SL6S  
£150; Walkerdeck CJ55 £50; SME  
III £50; Mayware formula IV arm &  
MC cartridge £65; Quad FM2  
tuner £50; Leak variolope pre-  
amp (mono) £20.  
Tel 0482 447441

KLIPSCHORN SPEAKERS ideal for  
low powered valve amps £275. Lux  
valve amplifier £425. Classic  
American Gas Ampzilla Power  
amplifier £420. Electrocomponet  
class A Power amplifier £195.  
Tel 0626 66415

SONY TOP ONE-BOX CD player  
X77ES. 20 hours. (1295) £495).  
STD 305S/SME gold 1982 LP12  
rival (£505) £175. Audio Technica  
AT33E MC, second to ART-1 in  
Japan, unused (£595) £245.  
Tel David 0273 882535

"DECCA VOLT" UNITS. Ribbon  
speakers plus spare ribbons £100  
pair. Volt B250 10" speakers £100  
pr. Biwire xovers, air cored,  
polypropylene caps. £50 pr.  
Cabinets, long haired wool, if  
required.  
Tel 021 430 4660

GALE GS 401A (CHROME  
ENDED) speakers £250, custom  
wall mount stands included if  
required. Meridian 101B preamp &  
pair 105 power amps both  
modified to final spec by makers  
£250.  
Tel 0303 893560

SONY WALKMAN  
PROFESSIONAL WMD6C the  
best there is C/W mains adaptor  
(£170). Arcam alpha CD player  
(£300) both boxed as new. Will  
deliver London.  
Tel 081 466 1124 (Eves/w'end)

**PRIVATE**

REVOX A77 MkI TAPE machine,  
cleaned, re-aligned, many spares,  
£180. Sony TC153 SD quality  
portable cassette deck, old but  
immaculate, £65. Decca London  
ribbon horn tweeters plus bass  
cabinets, KEF B200's and  
crossovers, £120. Solatron valved  
oscilloscope, £10.  
Tel 081 998 8131

CROFT DUAL MONO pre-amp 4-  
box. Special build, single line input.  
Stunningly good (£2,000) £550. Art  
Audio tempo monoblocks hardly  
used £750. Concordant Exhilarant  
line pre-amp wood surround £450  
Tel 0707 321 878 (Herts)

QUAD 66 CD PLAYER £350;  
Royd Sintra speakers (black) &  
matching stands; (all boxed), also  
Sound Organisation & Target 2-  
shelf equipment tables, £30 each.  
Tel 041 330 2282 or 0505 872 531  
evenings.

PAIR WHARFDALE ROSEDALE  
speakers, beautiful condition,  
reproduction style cabinets, very  
little used £300.  
Tel Grimsby 0472-358624.

KUDOS AUDIO S100 series  
reference level 12" loudspeaker  
stands, as new and boxed  
"performance is stunning." Alvin  
Gold, Audiophile, August 1991.  
£300+ new, £150 ono.  
Tel 0732 453 710

LUMLEY M150 STEREO pair of  
valve monoblocks. Excellent sound,  
only £1,250. Also pair KEF R107  
speakers, for best offer over  
£1100.  
Tel Mark on 0784 458176.

THORENS 160 MKII Turntable  
with SME 3009 (CAI) series III and  
Ortofon MC 10 cartridge. Offers  
over £100.  
Tel 0255 434612.

SD ACOUSTICS SD4 walnut £350.  
Quad 33/405 £150. Target TT3  
£45. Dynavector XXI cartridge  
v. low hours £275. SD3 speakers  
black with Target stands £175.  
Leave message 0293 772264  
(Gatwick).

Continued on  
page 128...

## CLASSIFIED ADS

## PRIVATE

NAIM AMPLIFIER 62 old style  
£125 140 new style £350 Hi-cap  
new style £375 boxed and mint.  
Tel 0703 738271

MINT CONDITION :- 401 with  
SME 3009 series II improved arm  
and Ortofon MC10 cartridge all in  
teak plinth (teak and perspex  
cover). Sensible offers please.  
Tel Alan 0491 651411 (Oxon)

**ROK/TAN/AUD.** Roksan pre/  
power L2/S1 4 months old  
£750/£1350 black/chrome  
Guaranteed. Tannoy Lancasters  
15" DC £750. Audioquest jade  
speaker wire 2x5m £450. All are  
in mint condition, moving back  
to USA so therefore sale. Tel  
0273 328420 after 6:00pm  
Sensible offers considered.

LEAK TROUGHLINE, GARRARD  
301/401, Roksan Xerxes, Marantz  
CD6SIIse, Krell KSA100MK2,  
Robertson 4010, valve preamp  
(beats SPI011) silver wire £3, silver  
interconnect bulkfoil attenuator  
the ultimate preamp. Wanted  
Meridian 200/203/208,  
Tel 0642 559543

GARRARD 401, SME PLINTH and  
3012 arm, Shure MM, superb  
condition, sound £170.00 ono.  
Heybrook HB1s MK2 £69.00.  
Decca revised unipivot (new)  
£59.00. Revolver, LVX, Shure,  
£79.00. Plus other items  
Tel 0895 446713

CONRAD JOHNSON CV4 line  
level preamp, special interconnect,  
HFA12 valve power amp  
(unmodified!). Sweet Sound £450  
ono.  
Tel 0582 25166

KEF 104/2 SPEAKER, black, mint, 2  
years old. Cost £1300-accept £650.  
Audioquest midnight speaker cable  
2x6 metres - cost £200-accept £90  
ono.  
Tel 0502 523254 or 518938 (Suffolk)

PIONEER M73 AND C73 pre  
power amplifiers class B 120 watts  
class A 25 watts per channel. Mint  
condition and boxed £600.  
Tel 0394 693529 (Works) or 0473  
622196 (Home) Ask for Peter.

MUSICAL FIDELITY A200 AMP  
£350. Scott valve receiver £75.  
Leak stereo 70 amp/stereofetic  
tuner £95 pair. Armstrong 626  
amp/tuner £60. Bryam amp £45.  
Wharfedale Ditton 2 speakers £50.  
Tel 0483 233952

## PRIVATE

QUAD II POWER AMPS,  
upgraded £300; Quad II pre-amp  
mint £50; Quad ELS speakers  
bronze £325; Quad (most recent  
1980's models) ELS black £400;  
Croft Micro pre-amp £85 and £70;  
Hitachi FT5500 MK2 tuner (awards  
winner 1988) £95; AEI speakers,  
black bi-wired £500.  
Tel 0203 679165

AMC CVT 3030 VALVE amplifier  
£260. Dolby prologic decoder  
(Prosound, similar to Celestion)  
with remote control £95.  
Tel 0260 274470

WANTED: COMPLETE CIRCUIT  
DIAGRAMS for the following,  
Dynaco mark III amp. Marantz  
stereo console 7 preamp, KT66P.P  
and P.P.P, KT88 P.P and P.P.P.  
EL34P.P and P.P.P. Also all books  
concerning Audio Frequency  
Power Amplifier (specify title and  
author). Send your price offer to  
Daniel Pinault 3, Rue Farabeuf  
77320, Beton Bazoches, France.

EPOS ES14 LOUDSPEAKERS  
including Sound Factory stands,  
£299. A&R T21 tuner, £100.  
Marantz SD45 cassette deck  
(hardly used) £100.  
Tel 0403 241304

CONCORDANT EXCELSIOR  
PRE-AMPLIFIER boxed with spare  
valves £550. Michel 150 boxed  
£260. Ortofon MC15 super mark  
A cartridge just run in £50.  
Tel 071 585 0768

SONY TAE-1000 Dolby pro-logic  
pre-amplifier £450. Sony TAN-220  
power amplifier £145. Sony MZI  
mini-disc player and extras £395.  
REL Stentor subwoofer £750. All  
ono  
Tel 0423 528256

NAIM NAIT AMPLIFIER £275.  
EPOS ESII speakers and stands  
£280 excellent quality and  
condition.  
Tel 051 933 5533

SHARP PORTABLE MINIDISC  
player. Model MD-DIOE. APSS  
stereo headphones, battery and  
charger, 1 year's full guarantee, etc.  
Boxed/unused, unwanted prize rrp  
£400. Reasonable offers considered  
Tel 0795 473 582 (evenings)

INFINITY MODULUS SPEAKERS  
in piano black finish with matching  
stands £400. Daline transmission  
line speakers (KEF T27, B110) slim  
floor standing, £200. Both in  
excellent condition.  
Tel 0908 311553

## PRIVATE

VALVE TESTERS, AVO VCM MkII  
£150, Taylor 45A £45. Acos lustre  
arm £30, Micro Seiki arm £45,  
Thorens Td160 £40, Rogers Cadet  
III £75, Quad II, Duff mains  
transformer, offers, "Maxplank"  
type plinth for 401 £70.  
Tel 0550 4641

ROKSAN XERXES/TABRIZ/  
ORTOFON turntable. Very good  
condition. £499.00.

**I PAIR DAHLQUIST DQ10**  
loudspeakers on Origin live  
stands £375.00. Amcron  
(Crown) IC 150- pre amp D150  
power amp £160.00. Kerr  
McCosh C.W.A 10 valve amp  
(PX255) Offers. Early SME arm  
on technics SL110 turntable  
offers. Tel- 0423-866084.

Tel 0403 250570

MERIDIAN ARGENT -2  
SPEAKERS, rosewood, mint  
condition, £495. Technics SL-PS900  
CD player, £135. Wanted,  
Meridian M60 active speakers/  
Heybrook Sextets / B&W 804.  
Tel 0892 536919 (S.W. Kent)

SPENDOR SP2/2  
LOUDSPEAKERS. Walnut veneer,  
biwirable. Classic "BBC" sound,  
with superb accuracy, clarity and  
transparency. Immaculate condition  
and boxed. £350 (current list  
£810). Heybrook HBS1 stands £45.  
Tel-0522-568330.

LINN KABERS £500 3yrs old.  
Upgrade to current spec for £250  
list £1298. Alchemist Kraken APD6  
integrated amp £300. Unused  
competition prize. Dynavector  
23RS Ruby Karat £50. Goodmans  
B-Max subwoofer £50.  
Tel Geoff - Home 0902 632415  
Work - 0922 401896

AUDIO RESEARCH SPI4, £1695.  
Counterpoint SA220, Groove  
Tubes, 550 upc into 4 ohms £995.  
Oracle Delphi MkIII Sumiko Mdc  
80 "The Arm" tone arm terminator  
turbo supply £995. All mint  
Tel 0273 775302

## PRIVATE

OFFERS INVITED FOR - CD  
player Marantz CD6SII SE, Arcam  
black box, Deltec interconnect,  
wall brackets suit Kans or similar.  
Please Tel 021 4768507 after 6pm.

FOR SALE TWO TEAC A450  
cassette decks. Not greatly used.  
Collectors items. Excellent quality  
and sound reproduction. Space  
constraints force sale. Offers  
please.  
Tel - Nottingham 0602 612503

CELESTION SL700s PLUS  
STANDS £475. Pentacolumns,  
active crossovers with Audiolab  
8000P amp (for the bass) £1000.  
Audio Synthesis early bitstream  
DAC with power supply £200.  
XLO RS type 4 dedicated digital  
cable £50.  
Tel 0235 850393 (Eves & w.e)

MARANTZ CD6SII SE CD player,  
Mission 700 speakers with sand  
filled target stands. All in  
immaculate condition. £200 (New  
£550). Can be heard.  
Tel 0403 267311 (Evenings)

MUSICAL FIDELITY PREAMP 8.  
6 months old, chrome, MM/MC  
£200. Denon DRM 710 3 head  
cassette, 6 months old mint £200.  
Both hardly used.  
Tel Paul 0533 553176

ION SYSTEMS OBELISK 300 pre  
amp and power amp 100/200WVPC  
into 8/4 ohms MC or MM input,  
beautiful condition £425.  
Tel 0829 733 756 evenings.

## TRADE

## WANTED

SLATE AUDIO are looking  
for Garrard 301s and 401s.  
Fair prices paid for fair  
examples, better prices paid  
for fine examples. We can  
arrange collection if  
necessary.  
Telephone Peter Soper on  
0525 384 174

FOR ALL CLASSIFIED ADS  
QUERIES PLEASE CONTACT  
RICHARD ON 071 289 3533



# Advertisers Index

## MAIN ISSUE

ACOUSTIC ARTS	124	KIMBERLEY HI-FI	114	SOUNDCRAFT	105
AERIAL SHOP	116	L.F.D.	108	SPALDINGS	80
ALCHEMIST	46	LEICESTER HI-FI	30	SPEAKER CO.	106, 124
ALEMA U.K.	114	LISTEN INN	31	SPEAKERS CORNER	115
AMADEUS S&V	102	LISTENING ROOMS	102	T.R.C.	112
ANDY'S AERIALS	116	LORICRAFT	30	TRY ME & SEE	38
ART AUDIO	126	M.J.S.	126	TUBE TECHNOLOGY	30, 101
AUDIBLE DIFFERENCE	118	MAX TOWNSEND	114	V'AUDIO	106
AUDIO CLASSICS	103	MAY AUDIO MARKETING	120	VISION AERIALS	116
AUDIO TECHNICA	46	MERSEYSIDE SATELLITE	116	WEST MIDS. RADIO	
AUDIOCRAFT	100	MOORGATE HI-FI	60	SUPPLIES	126
AUDIOLAB	88	MUSIC MATTERS	109	WILMSLOW AUDIO	95
AVONDALE AUDIO	107	MUSICAL APPROACH	103, 105	WOLLATON AUDIO	15
BABBER ELECTRONICS	126	MUSICAL IMAGES	6, 7	YAMAHA	
BASICALLY SOUND	95	NAD	4	COMPONENTS	IBC
BILL HUTCHINSON	40	NAIM AUDIO	IFC		
BRENTWOOD HI-FI	102	NORTHWOOD AUDIO	108		
BRYANTS HI-FI	99	ORTOFON	14, 15		
BURDON ELECTRONICS	103	OXFORD AUDIO			
BURY AUDIO	126	CONSULTANTS	100		
CAM AUDIO	31	P.R. SOUNDS	104		
CAMBS. HI-FI	46	PARTINGTON & CO.	106, 108		
CAMPAIGN AUDIO		PENTACHORD	112		
DESIGN	112	PETER ELLIS AUDIO	104		
CHELSTON HI-FI	122	POWER PLANT	104		
CLEAR CRYSTAL SYSTEMS	105	PRECISION CABLES	116		
CONGLETON HI-FI	48	PROGRESSIVE AUDIO	95		
COURT & SPARK	85	PYRAMID	94		
DEFINATIVE AUDIO	124	QED	94		
DIVA	10	R.S. AUDIO	114		
DOUG BRADY	31, 72	RADFORD HI-FI	118		
DPA DIGITAL	8	READING HI-FI	95		
E.A.R.	72	REFERENCE IMPORTS	104, 122		
E.M.F.	107	RICHARD ALLAN			
EPOS	BC	LOUDSPEAKERS	120		
F&S	100	ROOM ACOUSTIC			
G.T. AUDIO	107	SERVICES	104		
HEATHERDALE AUDIO	118	S.R.G. DESIGN	122		
IAN EDWARDS	94	SCARBOROUGH HI-FI	113		
IAN HARRISON	126	SELECT SYSTEMS	85		
J.E. SUGDEN	14	SEVENOAKS	24, 25		
JOHN SHEARNE	26, 27	SLATE AUDIO	115		
K.J. LEISURE	122	SON ET LUMIERE	113, 115		
KEF	12	SOUND DEALS	112		
		SOUND GALLERY	22		
		SOUND ILLUSION	103		

## SUPPLEMENT

A.P. ELECTRONICS	24
AUDIO COMPONENTS	22
AUDIO NOTE	10, 11
AUDIO SYNTHESIS	30
BADGER BOARDS	30
BANDOR	30
BILLINGTON EXPORTS	30
CHELMER VALVE CO.	IBC
DBS AUDIO	20
FALCON DIY	30
HALCYON ELECTRONICS	4
HART ELECTRONICS	6
HEATHERLEY'S	18
IPL ACOUSTICS	24
LANGREX	22
LORICRAFT	20
LYNWOOD ELECTRONICS	4
P.M. COMPONENTS	14
QED	20
RUSS ANDREWS	OBC
SOWTER TRANSFORMERS	20
TABULA RASA	4
SPEAKER CO.	8
TELNET	18
WILMSLOW AUDIO	18
WOLLATON AUDIO	4
YAMAHA	
COMPONENTS	IFC

# YAMAHA LSI

*Semiconductors for Sound Synthesis and Sound Signal Processing Applications*



**G**ive your P.C., not just one, but twenty four voices with the Yamaha OPL4 Wavetable Synthesiser.

Yamaha Sound Synthesis Products are Distributed in the U.K. by the Polar PLC Group of companies.

For further information on the OPL4 Wavetable Synthesiser, please contact: Mr. Richard 'TT' Bethell or complete and fax/post the reply slip below.

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

Position: \_\_\_\_\_ Tel: \_\_\_\_\_

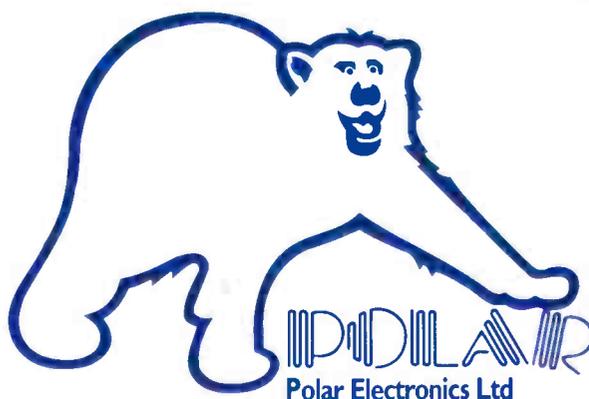
Company: \_\_\_\_\_

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

Postcode: \_\_\_\_\_

## **Polar Electronics Ltd**

Cherrycourt Way, Leighton Buzzard, Bedfordshire LU7 8YY. ENGLAND  
Telephone: 44 (0) 525 377093 • Fax: 44 (0) 525 378367  
Polar Support Tel: 44 (0) 525 853071 • Fax: 44 (0) 525 853070





Reposed