

**£2.00
180 PAGES!**

HI-FI WORLD

NOVEMBER 1995 £2.00 *For the love of music*

**A SAD FAILURE!
SONY'S ELCASET**

SCOOP!

**A FUTURE SUCCESS?
SONY'S SBM DAT
RECORDER**

TECHNICS' SB-M300 LOUDSPEAKER - A REAL ROCKER

**SUPPLEMENT NO. 18
(overseas - inside)
free with this issue.**

**MISSION'S
GREAT NEW
731LE 'SPEAKER**

**QUAD'S NEW
77 CD PLAYER**

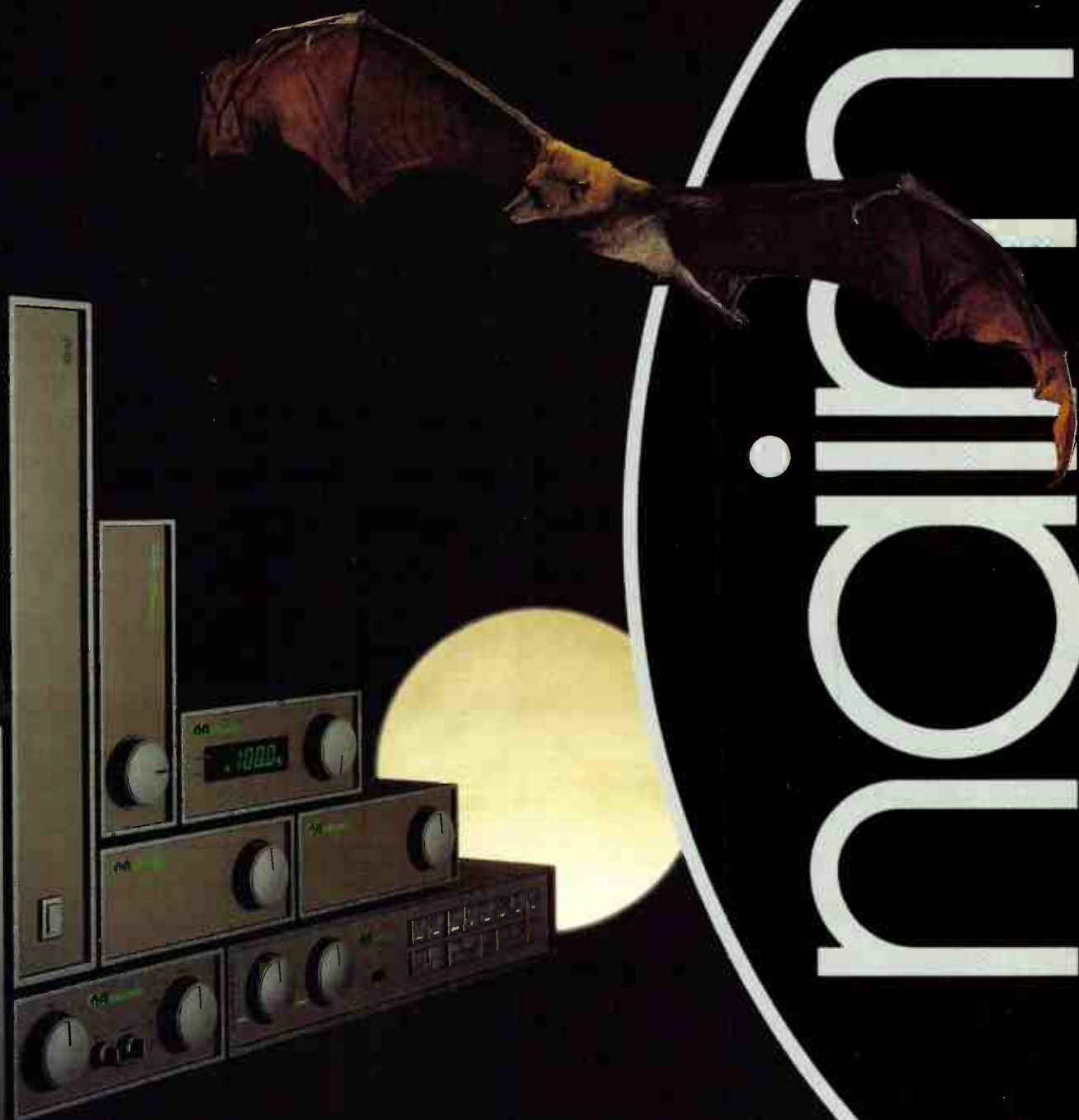


**SIX PAGES
OF BARGAIN
USED HI-FI**

**COMPETITION - WIN ONE OF 15 PAIRS
OF WHARFEDALE VALDUS 'SPEAKERS**



Trust your instincts.



 naim audio
FOR NATURAL LISTENERS

HI-FI CD PLAYERS AMPLIFIERS
TUNERS TONEARMS LOUDSPEAKERS

FOR FURTHER INFORMATION, A COLOUR BROCHURE OR THE NAME OF YOUR NEAREST STOCKIST PLEASE RING 01722 332266.
NAIM AUDIO LTD, SOUTHAMPTON ROAD, SALISBURY SP1 2LN.

This Month's World

● Japanese loudspeakers are a joke! Not any more. At last, they have successfully got to grips with the peculiar problem of national tastes in sound. For years, this barrier has spared Britain's loudspeaker manufacturers competition from Japan. Looks like all that's about to change. Read our Technics SB-M300 review on p57.

● National taste has a lot to do with the success of Linn's Tukan loudspeakers. Developed from the infamous Kan, a loudspeaker that in its early days was idiosyncratic yet often adored, the Tukan retains its fast, punchy character. Britons are as likely to love the Tukan as much as the Kan. See p26.

● Sony's Elcaset appeared in the late Seventies, only to sink quietly from view a few years later. What went wrong? We look at the format and its faults, finding it a metaphor for later failures. Elcaset led the way in many respects, not all wanted! See p36.

● Quad have just released a partner for their recently introduced 77 amplifier: the 77 CD player. Separates are moving away from being separate these days, which solves matching problems. Does this remove the magic too? Read our view on p13.

Latest BPI figures show Britain's music business is doing better than ever. They've just sold an all-time record of 177million albums at home and have earned more than the car industry in exports. So we've got a great music biz and, perhaps not unsurprisingly, we love music too.

But wait. If hi-fi is about getting enjoyment from music, in a market like this there should be no problem selling a hi-fi magazine. So why do the latest ABC figures show that, now, all circulations except ours have gone into decline? They should be rising.

My view is that readers have had enough of being baffled and confused. They're turning away, instead buying a no hassle midi-system. I started Hi-Fi World because I was fed up with the mags too. I wasn't alone! My heartfelt thanks to all our readers.

(See ABC figures on page 69.)

Noel Keywood, Editor

... and don't forget **THE SCOTTISH HI-FI EXHIBITION** at the **ROYAL SCOT HOTEL, EDINBURGH, NOV. 3rd, 4th. AND 5th.**
CONTACT HI-FI CORNER ON 0131 556 7901

TEST EQUIPMENT



● Hi-Fi World has its own advanced test laboratory and acoustically treated listening room. No other hi-fi magazine has the benefit of such facilities.

● Hi-Fi World has a dedicated in-house team of experienced listeners, and uses selected freelance professionals. We review thoroughly by extensive auditioning, rather than by quick-fire group listening tests.

● Hi-Fi World's engineering team designs a wide range of products in-house. We export kits, parts and built-up products around the world, delighting buyers in far flung corners of the globe. No other hi-fi magazine is so expert and dedicated.

LISTENING ROOM (TREATED BY RPG ACOUSTIC TOOLS)



Distributed by:
COMAG, Tavistock Road, West
Drayton, Middlesex, UB7 7QE
Tel: 01895 444055

Origination by:
Ashford Scanning, 2 Norfolk Drive,
Fairwood Industrial Park,
Asford, Kent TN23 2FB
Tel: 01233 622042

Printed by:
Southernprint, Poole, Dorset.
Tel: 01202 622226

All unsolicited submissions are made at the owners risk. We accept no responsibility for such submissions, nor do we undertake to return them.

No material may be reproduced from this magazine without the publisher's written permission.
© Audio Publishing Ltd

EDITORIAL
Editor
Noel Keywood
Assistant Editor
Dominic Baker
Editorial Assistant
David Price

PRODUCTION
Production Editor
Ferewini T. Michael
Production Assistant
Laura Martin

ADVERTISING
Advertising Manager
Caroline Knott
Tel: 01245 443555

Advertising Executive
Rosalind Day

MARKETING
Marketing Manager
Jon Dolan

Technical Assistant
Nick Lucas

Contributors
Eric Braithwaite
Douglas Floyd-Douglass
Andy Grove
Dominic Todd

Music Reviewers
Peter Herring
Simon Hopkins
Giovanni Dadomo
Jon Clarke

Publisher
Karen Roberts

CONTACT NUMBERS

10 am - 6pm
Tel: 0171-289 3533
Fax: 0171-289 5620
Individual queries cannot be answered by telephone.

MAIL ORDER

Tel: 0171-266 0461
(24 hour answerphone)

SUBSCRIPTIONS

see page 68 for details

AUDIO PUBLISHING LTD

64 CASTELLAIN ROAD,
MAIDA VALE,
LONDON W9 1EX.



THIS MONTH'S REVIEWS

VINYL

VIRTUAL REALITY Resonance I 20
Dominic Todd gets the black stuff out to audition Virtual Reality's extensively reworked Systemdek and tweaked Goldring 1042.

COMPACT DISC

QUAD 77 CD PLAYER 13
It was only a matter of time before Quad did the decent thing and produced another silver disc player. Eric Braithwaite connects up.



DPA LITTLE BIT III 29
David Price is well impressed with DPA Digital's new £300 convertor, the Little Bit III. A Marantz rival at last!

ORELLE CDI100 49
Dominic Todd auditions Orelle's latest digital confection, the attractively priced CDI100 CD player.

PROS AUDIO 65
Beautifully made with looks to kill, how does Pros Audio's new convertor stack up against the opposition? Eric Braithwaite finds out.

LOUDSPEAKERS

KEF REFERENCE SERIES 3 18
Dominic Baker enjoys KEF's latest behemoth, the very big, very heavy and very good Reference Series 3.

GLL ICT100 26
Dominic Baker finds innovation at Goodmans, in the shape of their interesting new budget 'speaker, the ICT100.

MISSION 731LE 33
David Price listens to the superb new LE version of Mission's popular 731 standmounters.

TECHNICS SB-M300 41
Douglas Floyd-Douglass discovers that beauty is more than skin deep in this complex four-driver 'speaker from Technics.

AMPLIFIERS

GALACTRON PRE/POWER 50
Dominic Baker goes back to the Seventies with Galactron's retro styled high-end pre/power combination.



DIGITAL AUDIO TAPE

SONY TC-D7 57
Douglas Floyd-Douglass is impressed by Sony's amazing DAT sound sweetener - an outboard SBM coder for their miniature TC-D7 recorder. Here's a mini-studio!



TUNER

PIONEER F-504RDS 23
Pioneer's mid-price tuner may be all singing and all dancing with RDS EON, but how does it sound? Noel Keywood listens in.



WORLD VERDICT



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



GOOD - Has strong merit. Well worth an audition.



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



POOR - Seriously flawed. Not worth considering.

NEWS

A wealth of new products appears as the next model year ushers forth.

LETTERS

The postbag quivers as the postman shivers...

QUERIES

In-depth trouble-shooting service for sonically-challenged readers.

COLUMNS

63, 69, 71, 72

Noel, David and two Dominics attack their Apple Macs to bring you November's musings.

NEXT ISSUE

Kate Bush was obviously referring to next month's *Hi-Fi World* when she once said "December will be magic".

COMPETITION

66

Penury no longer need be a problem when you can win your way to audio nirvana.

SUBSCRIPTIONS

68

As one Taoist monk said to the other, "the only thing better than heaven is heaven delivered to your door, grasshopper."

SPECIALIST HI-FI DEALERS

77

These real hi-fi dealers give expert advice and service.

MEET YOUR MAKER

Who makes what and how to get in touch.

7 WORLD AUDIO DESIGN

82

High performance kits for those of a solder-and-AVO meter persuasion.

39 DIAL-A-DEALER

89

Who sells what, and how to get in touch.

52 HI-FI WORLD LIBRARY

99

It's growing so fast that the British Library will soon pale by comparison!

MEASURED PERFORMANCE SECTION 113

The test bench treatise.

READERS' CLASSIFIEDS

134

The place with all the hi-fi you ever wanted, and some you didn't.

ADVERTISERS INDEX

146

FEATURES

ELCASET

36

David Price looks at Sony's remarkable format for hi-fi recording that disappeared almost overnight.

DIY SUPPLEMENT

In this month's FREE DIY Supplement you'll find a unique design for a 35watt integrated amplifier, a feature on headphone amplifiers and we'll show you how to finish your DIY loudspeaker cabinets.

MUSIC

Some excellent new releases for your perusal.

ROCK RECORD OF THE MONTH:

Black Grape: It's Great When You're Straight Yeah

CLASSICAL RECORD OF THE MONTH:

Sergei Rachmaninov: The Liturgy of St John Chrysostom Op31

ROCK AND POP

73

JAZZ

86

CLASSICAL

93

COMPETITION

Win one of fifteen pairs of Wharfedale Valdus loudspeakers worth over £2000 in total. 66



STREETMENTS

Four audio legends.



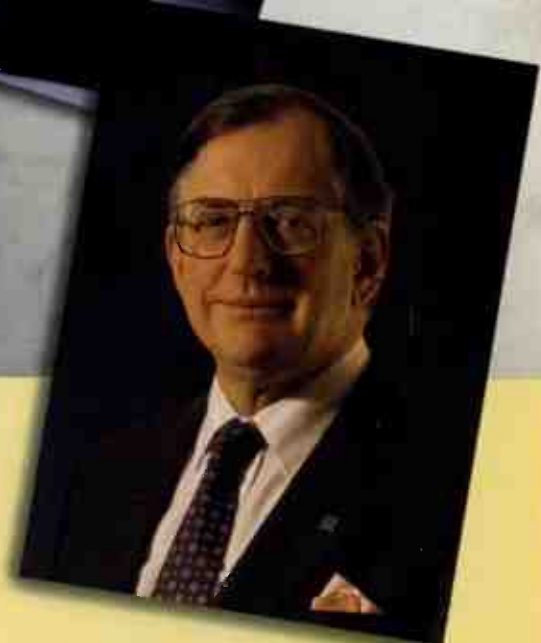
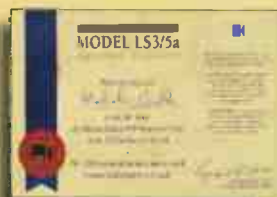
KEF® Raymond Cooke Series

In the early 1970's, KEF founder, Raymond Cooke, and his team devised an entirely new way of designing evaluating and manufacturing loudspeakers. He couldn't have known it at the time, but he'd begun to build

legends and in the process became one, himself. Using digital computer techniques to evaluate performance, together with radical improvements

in design and technology, Raymond Cooke started a process that set the Reference standard for KEF and along the way became the standard for an industry - the Reference by which all others would be judged.

Now, in celebration of those achievements, we are proud to offer the discerning audiophile three of the most acclaimed speakers from the KEF Reference Series. Everything about the KEF Model LS3/5a, Model 104/2 and



Model 107/2 proclaims 'classic Hi-Fi' experience, from their impressive technical heritage to their luxuriously finished cabinets - and the ultimate finishing touch, a gold plated limited edition plaque engraved with the signature of KEF's founder, Raymond Cooke.

The name of these very special loudspeakers? There was only one possible choice.

Raymond Cooke Series.



The experience of sound

Raymond P. Cooke

MODELS SHOWN FROM LEFT TO RIGHT ARE THE LS3/5A, 104/2 AND 107/2. KEF IS A REGISTERED TRADEMARK. FOR DETAILS ON THE KEF RAYMOND COOKE SERIES PLEASE CLIP THE COUPON AND SEND IT TO: KEF AUDIO (UK) LIMITED, FREEPOST MA 1332, ECCLESTON ROAD, TOVIL, MAIDSTONE, Kent, ME15 5DE. TELEPHONE (01622) 672261.

PLEASE SEND ME DETAILS ON THE KEF RAYMOND COOKE SERIES
 NAME _____
 ADDRESS _____
 TEL _____

November 1995 trade winds

NEW AND IMPROVED AMPLIFIERS FROM ARCAM...

Arcam is billing its new family of integrated amplifiers as their "best ever". The Alpha 5 Plus and 6 Plus replace the two year old 5 and 6 models, but by using the same casework, Arcam have been able to concentrate on the electronics inside. Improvements include revised toroidal mains transformers with extra screening and higher quality coupling capacitors. The Alpha 5 Plus cost retails at £239.90 and the Alpha 6 Plus £349.90.

AND AN ALL NEW CD PLAYER

Extending their range of CD players, Arcam have introduced the new Alpha 6. It uses Philips' CDM9 transport and an NPC 20-bit digital filter with a PWM DAC. The DAC has balanced outputs, and the first stages of the analogue filter are also balanced, which improves noise rejection. The audio outputs are direct coupled for a simple and clean signal path.

Owners of Alpha 5 and 5 Plus CD players can take heart though, because Arcam are continuing their upgrade policy with the new 6. By taking your Alpha 5 or 5 Plus player to an Arcam authorised dealer, you can upgrade to the Alpha 6 for £150 or £120 respectively.



A & R Cambridge Ltd, Pembroke Avenue, Denny Industrial Centre, Waterbeach, Cambridge, CB5 9PR ☎ 01223 861550

NEW CASSETTE DECKS FROM NAD

NAD have announced the launch of two new cassette decks. The £229.95 613 features an electronic tape counter, Dolby HX pro, Dolby B & C noise reduction, a variable bias control and can be linked to other NAD equipment for use in a fully remote control system. In true NAD style it is a simple, no frills deck.

A first for NAD, the £319.95 616 is a double transport deck with normal and high speed dubbing. Both transports are auto reverse and can play sequentially to give up to three hours of uninterrupted music.

Both decks feature NAD's Play Trim system, which can be used to brighten up dull recordings.



Audio Club, 401-405 Nether Street, London, N3 1QG ☎ 0181 343 3240

UPGRADED MORDAUNT-SHORT LOUSPEAKERS GET THE MIDAS TOUCH

Mordaunt-Short have upgraded their Music Series range of loudspeakers. The new models carry the suffix 'i' - apparently standing for injection. The key boost to their performance comes from a new gold-anodised aluminium dome tweeter, a rare feature on loudspeakers at this price. Other improvements include an improved cone surround on the bass drivers, more rigidly braced cabinets and hardwired crossovers. Recommended retail prices are £140, £200 and £275 for the MS10i, MS20i and MS30i respectively.



Mordaunt-Short Ltd, 3 Ridgway, Havant, Hampshire. PO9 1JS ☎ 01705 407722



*Reverend Brown trembled with anticipation
as dark cellos entered the room.*

THE FINEST SYSTEMS BRING MUSIC TO LIFE. CALL 0500 888909 TO EXPERIENCE IT.

LINN HI-FI
music for life®

World Radio History

November 1995 trade winds

B&W LAUNCH ENTIRE NEW LOUDSPEAKER RANGE

There are seven models in B&W's new 600 series line up, ranging in price from £199 to £999. One of the most significant changes is the use of Kevlar drivers throughout the range, normally only seen in their premium models. Matched with this unit B&W are using a gold-anodised, aluminium dome tweeter and all of the range feature bi-wire terminals.



The £199 DM601s use a 6.5" bass unit and are a small, two-way standmounter. The £279 DM602s, again a two way standmounter, use the same Kevlar driver that B&W employ in their Silver Signature series, with a high claimed sensitivity of 90dB. Above this there are two floorstanders, the 603 a two-way reflex design priced at £499, and the £999 604 which has a dedicated midrange driver and two Cobex bass drivers for a powerful sound. B&W also supply foam plugs so that the damping of the reflex ports can be tuned for best results by the end user, something we feel is essential to get best results in your own listening room and system.

There is also a new active subwoofer, the £499 AS6. You can expect powerful lows from the 12" driver and 100W MOSFET amplifier. The crossover point can be tuned to match your existing loudspeakers.

**B&W UK, Marlborough Road, Lancing, West Sussex.
BN515 8TR ☎ 01903 750750**

A WORLD FIRST FOR GLL: ICT LOUDSPEAKERS

After several years of research, Goodmans Loudspeakers Limited have produced the first ever range of domestic hi-fi loudspeakers to use ICT (Inductive Coupling Technology). The IMAGIO Series is a range of four models - a bookshelf/standmounting model and three floorstanders. The aim of these products is to bring enhanced stereo imaging, robustness and greater reliability to hi-fi.

All of the models feature a single 165mm toughened polymer cone bass/mid unit which incorporates a 25mm time aligned ICT coupled, aluminium dome tweeter. They are bass reflex designs, featuring front firing ports, and the cabinets are fully braced internally. The IC100 retails at £169.95 and the floorstanders range from £299.95 to £529.95.

**Goodmans Loudspeakers Ltd, 3
Ridgway, Havant, Hampshire.
PO9 1JS ☎ 01705 492777**



DIGITAL DELIGHT FROM MERIDIAN

Meridian's new 518 Digital Audio Processor is a consumer product based directly on the technology employed by their professional 618 mastering processor. The hardware provides digital input selection, advanced de-jittering with crystal-controlled twin phase-lock-loop, and a DSP engine. The supplied user programs make the 518 effectively three products in one: a preamplifier, a de-jittering resolution enhancement box for cleaning up the signal between CD transport and DAC, and a mastering processor. It retails at £895.00, an attractive price considering the range of features offered.

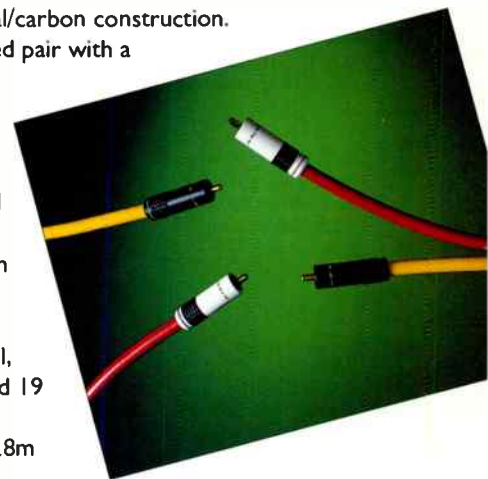


**Meridian Audio Ltd, Stonehill, Stukeley Meadow,
Huntingdon, Cambridgeshire. PE18 6ED ☎ 01480 52144**

MORE CARBON FROM VAN DEN HUL

Specialist cable manufacturer van den Hul have announced that their popular D102 and Thunderline interconnect cables are both to adopt their hybrid metal/carbon construction. The D102III is a balanced twisted pair with a triple shield. Linear Structured Carbon (LSC) is held as a matrix in a conductive polymer and appears as a layer over the centre conductors and as the centre layer of the triple shield. Price is £90.40 for a 0.8m stereo pair.

Thunderline is similar in construction to the new D102III, but uses a composite of LSC and 19 strands of 0.24mm silver plated copper. Price is £109.99 for a 0.8m stereo set.



**Van den Hul UK, Unit 12, Imex House, 6 Wadsworth Road,
Perivale, Middlesex. UB6 7JJ ☎ 0181 959 6827**

ALL ACTION FROM EPOS

Epos have just announced the launch of a new loudspeaker called the ES22. Slotting in below the flagship ES25 at £1185, it features many of the same design features in a slimmer floorstanding package suited to smaller rooms. In true Epos tradition it is a minimalist design, using high quality drivers and a simple crossover.

**Epos Acoustics, 3, Ridgway, Havent,
Hampshire, PO9 1JS ☎ 01705 407722**

The TEAC VRDS Range

The One System You Can't Beat!

Everybody is aware of the huge success of the VRDS range of integrated CD Players and Transports. Now the VRDS players are complemented by a range of components which share the same outstanding build, engineering and sonic qualities

Everyone knows that the VRDS mechanism is the best CD transport in the world - Now there's no need to compromise with the rest of your system!



VRDS T-1 CD TRANSPORT
 With the acclaimed VRDS mechanism, Highly rigid chassis and remote control - the TEAC ethos of sonic performance, build quality and ease of use are typified in the T-1

D-T1 D/A CONVERTER
 The matching DAC for the T-1 uses Bitstream Conversion* in dual differential operation, a copper chassis to minimise RF interference and offers 4 digital inputs

V-8030S Cassette Deck
 The latest example of TEAC's expertise in tape engineering features a 3-Head Dual -Capstan drive transport, Dolby S Noise Reduction and separate Bias and Level controls - proof indeed that the cassette is still a viable source. Also available is the V-6030S

A-BX10 INTEGRATED AMPLIFIER
 An Audiophile amplifier which gives superb dynamic power and performance. Featuring a balanced stereo input and a fully balanced circuit configuration, the A-BX10 offers 100 Watts per channel and an optional phono board for MM and MC cartridges

Please send me information on the TEAC VRDS range

Name _____

Address _____

TEAC 5 Marlin House, The Croxley Centre, Watford, Herts
 WD1 8YA TEL: 01923 819630 FAX: 01923 236290

Bitstream Conversion is a trademark of the Philips Corporation.

November 1995 trade winds

GOLD MEDAL PERFORMANCE FROM JBL

Drawing on technology developed on their professional side, JBL's S2600 loudspeaker is the winner of Japan's prestigious Golden Awards prize for "Excellent Audio Products", the first

ever given to a loudspeaker. It uses variable coverage horn loading with a professional compression driver to deliver equal sound pressure level along a horizontal listening line, rather than an arc. JBL claim the two 'speakers have the same loudness as each other regardless of their positions, helping them to create a consistent stereo image. The custom designed 12" bass driver has a massive magnet, 3" voice coil and heat dissipation properties which provide a linear response.

Combined with the compression tweeter, sensitivity is a claimed 92dB. It retails at £3500.

Harman Audio, Harman International Industries Ltd, Unit 2, Borehamwood Industrial Park, Rowley Lane, Borehamwood, Herts. WD6 5PZ ☎ 0181 207 5050

NEW XTC RANGE FROM ORELLE

Orelle Hi-Fi has announced the launch of a new high-end range called XTC. The new range, scheduled to be available in Autumn, includes a transport, CD convertor, remote controlled preamplifier and 4-channel 150W power amplifier. The XTC CDT-1 LE transport retails at £1250, the DAC-1 LE convertor for £1000, the PRE-1 preamplifier cost £800 and the POW-1 power amplifier is priced at £2000.

Orelle Hi-Fi, Unit 11, I-MEX House, 6 Wadsworth Road, Perivale, Middx. UB6 7JD ☎ 081 810 9388

PROAC UPRATE RESPONSE TWO

ProAc have improved their Response Two loudspeaker. The new model, named Two S, has a new polypropylene bass driver loaded by a large reflex port. The Two S also has an updated crossover and is constructed using different panel thicknesses to reduce box resonance. The new Two S retails for £2000-2350 depending on finish.

**ProAc, 130-132 Thirsk Rd, Borehamwood, Herts.
☎ 01280 700147**



HARMAN EXPAND THEIR RANGE

Harman/Kardon have introduced several new models to their range of hi-fi components. There are two new CD players, HD 710 and 730, both using discrete output stages, an RDS equipped tuner, the TU 950 RDS, and a remote controlled, 65watt, 30 memory receiver, the HK 3250. All are expected to be available in late Autumn.

Harman Audio, Harman International Industries Ltd, Unit 2, Borehamwood Industrial Park, Rowley Lane, Borehamwood, Herts. WD6 5PZ ☎ 0181 207 5050



DEALER NEWS AND OTHER STUFF

Overture Hi-Fi are holding two free musical evenings in Banbury. Tickets are available through phoning 01295 272158. Also at Overture Hi-Fi, on the 24th October, Naim Audio are previewing their new CD2 compact disc player, remote controlled Nait amplifier and the 92 preamplifier at 19.30. Quad will be staging a demonstration of their 77 system on Tuesday 3rd October at 19.30.

CZECH TOP AUDIO HI-FI SHOW

The Top Audio Praha show is to be staged at the Prague Hotel, Olsanka, between the 16th and 18th of November '95. The exhibition focuses on high end audio equipment, with the emphasis on demonstrating the current state-of-the-art equipment and latest technology.

Hotel Olsanka, Taboritska 23, 130 87 Praha 3, Czech Republic. ☎: 0042 267092641

RECORD SALES NEWS

The BPI (British Phonographic Industry) have reported record sales revenue increases of 13% for the period April-June '95. Singles sales are strong, with annual growth currently running at almost 15%, and album sales rose 17% in the second quarter of '95. This was helped by many new releases, including those from Take That, Michael Jackson and Pink Floyd. But the leading album of the quarter was 'Now 30', the latest in a compilation series which began in 1983 - all of which apart from 'Now 4' have reached No.1 in the album charts.

Classical music sales are also on the up, with an increase in sales revenue of 8.5% between April-June. However, increase in unit sales was just 2.7%, indicating that full price albums took a larger proportion of sales during these three months. The most popular titles included Canto Gregoriano, The Three Tenors in Concert 1994, 100% Classics and The Piano.

NINE MINI-SEPARATES...

"...a superbly built package that has system convenience, gorgeous looks, and a separates style performance. And in keeping with the separates theme, each system component is individually powered and can be bought separately."



...MAKES YOUR OWN TAILOR MADE SYSTEM

Matched styling and more importantly, a super-slick jaw-dropping sound that adds another feather in Onkyo's cap."



ONKYO
3 YEAR
PARTS &
LABOUR
WARRANTY

AN ULTRA-COMPACT RANGE OF HI-FI SEPARATES WHICH INDIVIDUALLY CHOSEN, GIVES TOTAL FLEXIBILITY TO BUILD A SYSTEM EXACTLY AS YOU WANT IT, INCLUDING A PRO-LOGIC PROCESSOR TO ADD NOW, OR IN THE FUTURE.



C711 COMPACT DISC PLAYER



A911 INTEGRATED AMPLIFIER



T409 QUARTZ SYNTHESIZED FM/AM TUNER



K611 3 HEAD CASSETTE DECK



KR609 CASSETTE DECK



T411 RDS QUARTZ SYNTHESIZED FM/AM TUNER

INCLUDING A PRO-LOGIC PROCESSOR...

"The ONKYO keeps all the action intact and draws you into the film."



SR-21 PRO



R-811 RDS FM/AM RECEIVER



KW606 TWIN CASSETTE DECK

ONKYO UK LIMITED · 401-405 NETHER STREET · LONDON N3 1QG · TELEPHONE 0181-343-3240

CLIP THE COUPON TODAY OR TELEPHONE FOR MORE INFORMATION ON THIS, OR OTHER A/V AND AUDIO PRODUCTS FROM ONKYO

Name _____ Address _____

Quad's new 77 CD player caused a fair bit of head scratching. It had nothing to do with the sound quality. The question was what it sounded like by itself. The point is that this 77CD is a Siamese twin: the model designed to be

operated entirely on the 'Quadlink' system via the 77 amplifier. Power comes through a ribbon cable from the amplifier; the signal returns the same way to be controlled via Quad's responsive 'self-teaching' remote control. In this form it costs £595.

There are no analogue output sockets; these will be on the £850 'separate' mains-powered version, due October, for those with other amplifiers.

Impressive as this Delta Sigma 18-bit equipped CD player sounded through the amplifier it is linked to, it was hard

Making The Link

Quad's new CD player makes use of an innovative control system. Eric Braithwaite makes the right connections.



ANALOGUE/DIGITAL
DESIGN ENGINEERS

the Colour Pink

The SHAPE Triangle

the music Projects

the Competitors Limited

vital vinyl

POWER SUPPLY
DESIGNERS

made in britain made in

PINK TRIANGLE PROJECTS LTD.
THE BASEMENT, CAMBERWELL BUSINESS CENTRE
LOMOND GROVE, CAMBERWELL, LONDON. SE5 7HN.
TEL: 0171 703 5498 FAX: 0171 252 6746

PRODUCT
PARAPHERNALIA

to be sure the amplifier wasn't due half the credit. A partial solution came with using the Quad 77 as a pre-amplifier along with a very revealing Muse One Hundred power amplifier.

And very revealing it all was. Let's start with Dr John asking 'Why don't we watch more television?' in 'Television'. In the first few bars there was a nasty bit of pan-potting as some fool engineer moved the trumpet sharply to the left. Dr John is nothing without beat and rhythm, and the new Quad had a good measure of it.

Classical music depends more on accurate reproduction of rhythm than some people think. It was the Quad's excellence here that equalled more expensive players in making me sit up in a Mozart clarinet quintet, when I realised how close to Kurt Weill's blowsier pieces a few bars were. That is musical discrimination as against merely playing a tune.

Whether it is the lack of phono interconnects, or, as a fellow listener remarked, because, especially through the 77 amplifier, the 77CD sounded sometimes a little dry, a slight discontinuity in the timing of the bass as opposed to that of the midrange is now cured. Not that the bass will entirely convince House music players; it is not poorly defined, it is even quite strong, but it does have a softish aura. It could have more weight underpinning it, perhaps, but the 77 shares this attribute with a £1000+ D/A converter using the same chip I had recently.

Vocals are projected just a bit forward; it helps to give the 77CD a distinct crispness which was attractive in the 67, without exaggeration into an 'in your face' attitude. When this trait crosses over into music, it had the blazing brass at the beginning of the last movement of Bruckner's Sixth powering forth with amazing crispness and lifelike 'bigness'. Spot on with musical timing, here, too; if Klemperer had heard his recording through the

Quad, his notoriously vague beat would have tightened up no end. It had me conducting like a dervish.

There is a touch of 'slimness' about the sound of violins, again common to the aforementioned converter. It tends to be noticeable particularly alongside the richer, darker tones of woodwind, which were wonderful. There is nothing like hearing the true rasp of a sax or the ebony woodiness of a clarinet done so well.

No problems over imaging, either, which has always been a Quad strongpoint. The choir in Victoria's Missa da Requiem was very articulate, if not quite so much as the Meridian 500/563, which is exceptional. Boy trebles did not soar quite as freely, admittedly, with that range sounding a trifle constricted. There was, too, a slight underlying haze across the voices which obscured the ambience. In the Bruckner recording, although the orchestral perspective was good, the Kingsway Hall ambience was reduced. Having had the 77 amplifier for some time, however, that is probably more to do with the pre-out than the CD player itself.

Scalps may itch a bit over the Nintendo look-alike remote. Only ten per cent of the over-40s, it is said, can cope with computer-like menus. Youngsters, however, will take to the control like Mario took to plumbing. One 14-year-old, fresh from Sonic the Hedgehog, grabbed it and did: point proved!

It does take a little thought to switch to a menu that allows all the programming facilities (including the ability for the really obsessive to programme the same track over and over to play for up to 99 minutes) but I had it sorted in a few minutes after reading the instructions. These may look a bit daunting, but they work. The



only snag is that it takes the remote a second or two between 'asking' for track timing information and being told it by the player. If you are one of those people who simply must check that something is exactly 2m 11s into track 5, you will have to watch the player's display after all.

Quad's new 77 series is fascinating, not only in its innovative system control concept (which coped without any glitches), but in its expandability. In a way, it's a 'lifestyle' product, but it fully maintains Quad's fifty-year reputation for real hi-fi sound along with a sensible pricing policy. Winter music won't be dull with this Quad indoors; but we'll have enough aubergine and grey on the outside without it being inside on the hi-fi as well. Bring back the yellow bronze and brown colours of the old 44 or original 34, Quad, that's what I say ●

Quad 77 CD

£595

Quad Electroacoustics Ltd.,
St. Peters Road,
Huntingdon,
Cams. PE18 7DB
☎ 01480 52561

WORLD VERDICT



Competent, musical sound with neat styling and innovative remote control.

**Measured Performance
see p113-121**

*“It had me
conducting like a
dervish.”*

TRUE MUSICAL

quality hi fi products with style and value for

cyrus



PRE & PWR

With the introduction of their long awaited **PRE** and **POWER** amplifiers, Cyrus are able to offer a sophisticated ancillary combination.

From the exterior the **CYRUS PRE** looks like the **CYRUS III** integrated amplifier, complete with the familiar shoe box casing, microprocessor source selection and volume control. Both can be adjusted by the new Cyrus system controller. The **CYRUS POWER** offers outstanding performance, driving most loudspeaker's with ease. It can also be connected to the **PSX-R** power supply, improving performance still further as it becomes isolated from the mains, reducing the chances of extraneous noises and low level signals. This ensures that all music, from Classical to Rock is delivered with a close attention to detail.

For more information on the **CYRUS PRE & PWR**, **PSX-R**, **CYRUS III**, **DAD7** CD Player, **FM7** Digital Tuner, and **DISCMASTER & DACMASTER** CD transport and DAC, contact your local Sevenoaks Hi Fi - Cyrus stockist.

meridian



508

All Meridian components are designed to be operated by the touch of a single button on the **MSR** remote control. The **508** CD Player is no exception. It provides the levels of performance you expect from every model within the superb Meridian range. Utilising a high mass drawer mechanism and a steel chassis means that CD transportation is exceptional. With a recently upgraded 20 bit Delta Sigma conversion stage ensuring realistic reproduction of all music, the **508** is a very fine CD Player indeed.

However, the real benefits of the **508** are only realised when it is used with other Meridian components, like the **551** integrated amplifier and **504** digital tuner. Creating an advanced and flexible remote control system.

ruark



TEMPLAR

The **TEMPLAR's** unique visual appeal and refined musical presentation is the result of years of experience and dedication to design. Ruark are manufacturers that insist all of their products fall firmly into the category of excellence. As a member of the Guild of Master Craftsmen they refuse to accept compromise.

The **TEMPLAR's** are a two way, unobtrusive, compact floorstanding loudspeaker. A carefully matched Vifa tweeter and Seas bass/mid range driver combine to demonstrate superb control with a wide variety of musical styles. This ensures that Ruark's aim, to enhance music lovers enjoyment for years to come, is fulfilled.

To audition the Ruark range, including the **TALISMAN II**, **PALADIN**, **CRUSADER II** and the new **ICON**, contact your local Sevenoaks Hi Fi branch.

arcam



ALPHA 6 CD

Arcam's reputation has long been established for class leading performance with the remarkable **ALPHA 1** and **ALPHA 5+** CD Players. The new **ALPHA 6** carries on from these.

The secret is Arcam's new 20 bit digital audio board, which delivers a musical presentation with more detail, clarity and depth than ever before.

The **ALPHA 6** offers slimline styling and minimalist layout, ensuring ease of operation as well as making it an ideal aesthetic match for Arcam's Alpha series of amplifiers, especially the new **ALPHA 6+**. These two models combine to provide the convenience of remote control operation, as well as outstanding sound quality. However, the astounding sonic performance of the **ALPHA 6** means that it will also complement more expensive ancillary products like the superb Delta series from Arcam.

At Sevenoaks Hi Fi you will discover the new Alpha and Delta series.

audiolab



8000A

When the original **8000A** was launched in October 1983, it took the Hi Fi world by storm. It quickly earned a reputation for exceptional sound quality, elegant design and the ability to complement all types of modern loudspeaker's.

Over the years Audiolab have continued to develop the **8000A**, introducing new component materials and improving engineering techniques. Today it is still one of the finest and most flexible integrated amplifiers available.

The present **8000A** incorporates many of these developments. A new power supply and transformer configuration provides higher current delivery, enabling it to drive more loudspeaker's, with greater control. Audiolab also offer a logical upgrade path to increase the **8000A's** performance. Simply, use the pre-amp output to add an **8000P** power amplifier. This ability ensures the **8000A** will continue to perform for many years.

For more details on the Audiolab range contact your local Sevenoaks Hi Fi branch.

teac



VRDST1/DT1

authorised dealers for quality brands of hi fi separates

Sevenoaks Hi Fi have been at the forefront of Hi Fi retail in the UK for over 23 years. We sell quality products to discerning customers and we firmly believe in a meaningful demonstration and helpful unbiased advice.

All the products we sell are brand new, fully guaranteed and maintained by our own service department. We also offer **Peace of Mind** with our own 'No Quibble' extended warranty.

We are able to install the products you purchase, ensuring their optimum performance.

0%
finance

AVAILABLE ON A WIDE
RANGE OF HI FI SEPARATES

Spread the cost of buying your quality hi fi separates
over 6, 9 or 12 months - Details on request

EXPRESSION

hi fi connoisseurs and music lovers

At the heart of the **VRDST1** CD Transport, is Teac's world famous Vibration Free Rigid Disc Clamping system. The **VRDS** mechanism provides precise transportation of the CD, allowing accurate tracking and retrieval of the digital information stored.

When connected to the **DT1** DAC, via the digital or optical outputs, the two combine to deliver stunning mid range transparency and bass depth. The combination of the DT1's Bitstream conversion in Dual operation and the **VRDST1** represents state of the art performance and unparalleled build quality.

For more details on the outstanding Teac **VRDS** series of products contact your local Sevenoaks Hi Fi branch.



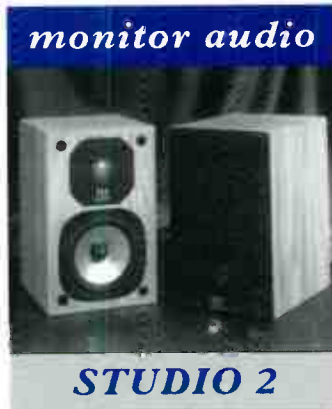
quad

77

The new **77** integrated amplifier embodies all of the hallmarks of quality you associate with Quad. Innovative styling and outstanding build quality are characteristics common to all their products.

These are the reasons why Quad have become such a well respected and successful manufacturer over the last fifty years.

Compared with many other integrated amplifiers, the **77** is revolutionary. With the addition of their new intelligent remote control, it has almost limitless expansion capabilities. Now that the **77CD** Player is available, and that a **77 TUNER** will shortly follow, this exciting family of components continues to represent the rare breed of performance and tradition that can only be found with Quad.



monitor audio

STUDIO 2

The compact **Studio 2** loudspeakers from Monitor Audio offer a no compromise approach to design and construction. This is obvious the very first moment that you see them. Whether they are finished in a standard satin veneer or a luscious grand piano lacquer, the **Studio 2's** are stunning.

All of the models within the new Studio series offer a combination of a gold anodized tweeter and an aluminium alloy bass/mid range driver. This means that when the remarkable **Studio 2's** are partnered with suitable amplification and placed on high mass stands, they deliver staggering bass and the necessary focus to reproduce complex passages of music with glorious accuracy to reference standards.

To experience the Monitor Audio **Studio** series of loudspeakers, including the breathtaking **Studio 12** and renowned **Studio 20SE**, just visit our branches in Sevenoaks, Chelsea, Croydon, Guildford, Watford and Witham (Essex).



marantz

CD63SE

Marantz are one of the dedicated manufacturers that enjoy making recorded sound as realistic as is possible. This development of pure hi fidelity has led the Hi Fi Press to bestow numerous Best Buys and Recommendations upon models within their range.

The **CD63SE** offers the kind of sparkling performance you associate with more expensive CD Players. With a high mass drawer mechanism and copper screening ensuring unrestricted CD Transportation and air flow, music is always reproduced faithfully.

The **CD63SE** also offers an easy upgrade path, via coaxial and digital outputs. With this pedigree, the **CD63SE** represents exceptional value for money.



rotel

RCD970BX

Designed and developed in the UK, like all of their products, the new **RCD970BX** offers the same solid build quality and traditionally uncluttered look of all Rotel equipment. Thus, making it an ideal partner for the **RA970BX** integrated amplifier, or **RC/RB970BXII** pre/power amplifier combination.

Utilising a toroidal power transformer, which is usually identified with amplifiers, and a Multibit Bitstream D/A converter ensures very low noise levels. All of the key components within the **RCD970BX** have been selected on the basis of their quality, guaranteeing the high performance levels associated with all Rotel products. For further details of the Rotel range visit your local Sevenoaks Hi Fi branch.



SEVENOAKS
01732 459555
109-113 London Road

new



ABERDEEN
01224 587070
491 Union Street

new



BARROW-IN-FURNESS
01229 838757
46 Cavendish Street



BRIGHTON
01273 733338
55 Preston Street

new



BURY ST EDMUNDS
01284 753776
47 Churchgate 5 Street



CANTERBURY
01227 462787
20a Lower Bridge St



CHATHAM
01634 846859
4 Railway Street



CHELSEA
0171 352 9466
403 Kings Road, 5W10



CHELTENHAM
01242 241171
24 Pittville Street



CROYDON
0181 665 1203
373 London Road



ENFIELD
0181 342 1973
7 Genotin Road



ESSEX 01376 501733
1 The Grove Centre
Witham



GUILDFORD
01483 36666
73b North Street



LEICESTER
0116 255 7518
94 Granby Street



OXFORD
01865 241773
41 St Clements



TUNBRIDGE WELLS
01892 531543
28-30 St Johns Rd



WATFORD-Open Sunday
01923 213533
478 St Albans Road



WOOLWICH
0181 855 8016
162 Powis Street



WORCESTER
01905 612929
2 Reindeer Court

MAIL ORDER 01732 458985

ring any one of our branches for a competitive quote

Simply ask your local branch for details.

If you thought this level of service might be expensive - then you would be wrong. We always try to ensure that our prices are competitive.

However, in the unlikely event a competitor within 30 miles advertises an identical product as available from stock at a lower price, even in a sale, we will **match that price!**

Added value offers not available on price match sales.

World Radio History



MODEL PERFORMER

**KEF's new Reference series
Model 3 loudspeaker delivers an
exemplary performance in large
rooms, finds Dominic Baker.**



KEF's Reference Model 3s use the same Uni-Q driver found in the Model 1s and 2s we reviewed earlier in the year. This driver incorporates a 5" midrange cone with a centrally located 25mm fabric dome tweeter, placing their acoustic centres together. It means that midrange and treble sounds both emanate from the same point in space, giving a more succinct and stable image. Combine this with good phase alignment and a flat frequency response, and you have what appears to be a near ideal transducer, capable of pin-point imaging and wide stereo separation.

The good news is that all this theory actually translates into practice to give the Reference 3s the kind of solid and precise imaging that few loudspeakers ever achieve. The two forward firing drivers are smoothly integrated into the plastic baffle moulding, which itself has smoothly rounded off edges, factors which help reduce surface reflections and aid dispersion.

P. J. Harvey's vocals in 'Tecló' came over as fulsome and smooth, and were positioned solidly between the 'speakers, lending a sense of realism to this track. Even more convincing was 'Down By The Water' where her vocals, now a couple of paces to the left, were joined by washboard just behind and 6ft to the right, and just outside this were additional backing vocals coolly echoing Polly's lyrics. These effects may well be electronically produced in the studio, but the 3s are so ordered in their approach they knew exactly where to position each part, as intended by the producer.

Based mainly around frantic percussion, the Sugarcubes' 'Stick Around For Joy' (Bjork's band before her solo career lifted off) gave the KEFs a chance to display their agility. 'I'm Hungry' had deep, firm bass lines, fine projection of keyboards and vocals and a brightly lit edge to cymbals that helped give a real sense of precision and insight to this track. The intricate drumming



was fast and dry, with crisp leading edges and soft decay; the Reference 3s demonstrate great poise and composure, remaining unflustered by anything thrown at them.

Joining the Uni-Q midrange/treble driver on the front baffle is a second conventional 5" driver, with the sole duty of smoothly filling in between upper midrange and low bass. Where the Model 1s and 2s could become a little too mellifluous, warming in the upper bass with the emphasis biased towards the lower octaves, this extra driver gives the 3s greater attack and speed with dynamic bass lines.

But it's not just with rock material that this extra driver makes itself known. Girolano Frescobaldi's *Recercar dopo il*

Credo, a 17th century religious piece written for organ and performed at St. Pietro, Rome, came over powerfully. Every note was clear, every instrument full bodied, bringing to this piece the clarity and scale it deserves. The Church's ambience was beautifully captured on this foné recording and the organ has a refreshingly light timbre, giving it the openness and clarity to project out into the wide, cool acoustic of the venue.

Coupled cavity bass loading is used in the Reference 3s to give a powerful, extended bottom end. This system comprises two 8" drivers firing into a reflex loaded chamber. The two drivers each have powerful magnets, to convey fast and precise bass. Because two are used there's plenty of cone area available to deliver power in the lowest octaves.

This translates into extremely taut and clean bass, but only in the right room. What you have to remember here is that the Reference 3s are a large

floorstander, standing 113cm tall, 38cm deep and 27cm wide. They can produce a lot of bass energy and really need a large room and plenty of free space. I used them 4ft away from boundaries in a room 24ft by 16ft, with a tall ceiling. They gave articulate and controlled bass along with a super sound staging. But on bass heavy tracks, they could still sound a bit much, and would welcome even more space to sound better balanced at low frequencies.

With good grip from the DPA power amplifier I used for the majority of my listening, the headache inducing subsonics on Senser's 'Peace' had a tighter, cleaner edge. The extra definition in the bass of the KEFs gave back to individual notes their identity, providing more of a tune than the normal grumble many floorstanders produce. And the explosive kick drum and bass guitar combo. on the long introduction to 'States of Mind' was enough to have my neighbours running for cover.

With very similar upper midrange and treble characteristics to the smaller Model 1s and 2s, the Reference 3s are a fine performer. They retain the superb resolution of detail and accurate imaging of their smaller brothers, but add extra kick to bass lines and generate deeper, more powerful lows to drive larger rooms. The Reference 3s are not cheap, but if you are lucky enough to own a room large enough to justify them, they will deliver a fine performance ●

KEF Reference Model 3
(Black Ash)

£1999

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

WORLD VERDICT

For superb reproduction within large rooms, the 3s are a force to be reckoned with.

Measured Performance
see p113-121



Reson d'être?

Simple! A lean but vibrant sound from L.P., says Dominic Todd, achieved by DNM's Reson rs1 turntable.

For those who really know their hi-fi, the name Virtual Reality means more than silly helmets and zapping computer images. They're a UK company responsible for the distribution of Crimson, Rehdeko, DNM and Thule. It's Virtual Reality we've got to thank for the excellent Ringmat product, amongst others. But until now, if you've wanted a turntable

from them you'd have to have forked out the best part of three grand for a DNM Reson Rota 1.

It was therefore with a great deal of interest that I sampled the company's new entry level Reson rs1 turntable at a far more obtainable £600. It comes from familiar ingredients, all spiced up, to produce something that's hopefully more than the sum of its parts.

First, take one Systemdek 1 turntable and fit with a hand-built Swiss motor and separate power supply. Then add a Reson felt mat (a Ringmat could also be added). Next add a Rega RB250 arm - with an isolated base and weight. The first of these features allows the user to tweak the sound by loosening or tightening the arm. It apparently sounds best loose. Finally, add what used to be




listener the impression of being there. The double bass was produced with quite sufficient body and weight, and violin had a wonderful natural resonance and woody timbre. Problems? With it being so revealing it did pick up a little more surface noise than usual, and anyone used to the latest crop of near-silent CD players could be put off by this.

That the Reson rs1 is an impressive turntable is without doubt. Be warned, though, the rs1 won't be to everyone's taste. If it works with your system, you'll enjoy first class transparency, seamless integration, a natural acoustic and excellent timing, whatever the style of music. If your system is forward you could find the rs1 wearing in the long term, especially with female vocalists. That said, refinement did improve as the arm was tightened, but this was to the detriment of the Reson's sheer impact; a DNM MC cartridge would probably help out. It's probably also not the best deck for real bass freaks, although a suitable amplifier and 'speakers will help alleviate this.

Needless to say, if you're looking for a turntable at this price point then do make sure you at least manage to get a listen to the rs1. If it's too expensive, then think of the summer we've just had and cancel next year's trip abroad!

Virtual Reality rs1 £600

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

WORLD VERDICT 
With fine detail resolution, transparency and a neutral balance the Reson rs1 represents super value.

**Measured Performance
see p113-121**

a Roksan Chorus Black cartridge, made by Goldring, fitted with a Gyger diamond stylus. Other DNM Moving Coil cartridges are also available. With the completed ingredients, hand over to DNM and Virtual Reality and stand back!

Michelle Shocked's 'Captain Swing' was the first disc to hit the felt. The rs1 immediately struck a chord. The punchy, fleet-of-foot sound leapt from the 'speakers with the alacrity this involving album requires. The Reson also proved extremely revealing. This did mean it could sound a little shrill at times. I could see some systems being rather phased by the alto saxophones which could sound simply overwhelming. But then again, the alto sax is a boisterous instrument that's supposed to penetrate, so the rs1 is merely reflecting this.

At other times the revealing, analytical nature of the deck was quite beguiling. During an untitled track at the end of the album there's a duo of electric and acoustic guitar. Most turntables would clearly separate these instruments, but the Reson actually made me aware of the severe contrasts between the wailing, sheering electric guitar and the acoustic version whose melodic strings glide through the air. Whilst all this was going on, there were the well projected, accurately

portrayed vocals vying for my attention. Like the alto saxophone though, vocals could prove a little raucous at times, with a slight edginess.

Paul Weller's 'Stanley Road' offered a complete change of mood, which the Reson readily adapted to. Although the pace was taken down a peg or two compared with Shocked, the rs1 still produced excellent rhythmic integrity that held the track together. It's a lean yet vibrant sound quality that really draws the listener in. The only shortcoming of such incisiveness was that the Reson seemed to lose out on the deepest bass notes. The lowest notes could be heard, but they were in the background, rather than underpinning the track. This didn't really get in the way of my enjoyment of the deck though, as the rest of the frequency range was so seamless that I rarely thought about the subjective merits of the bass, mid-range and treble performance.

An adaptation of Duke Ellington's 'Come Sunday' by Alec Dankworth and Nigel Kennedy, on double bass and violin respectively, changed the pace of things yet again. With just two instruments it's a rather sparse piece, but one full of intricate detail nonetheless. The rs1 had no trouble depicting this. It captured every breath, every stroke, and really gave the

Wharfedale

modus music

*senses
faculties
feelings
sensations
sensibilities
appreciation
atmosphere*

*awareness
consciousness
impressions
intuition
perception
sentiments*

Tear your senses apart

Music is about emotion. From rave to Ravel and symphony to soul, music fails if it does not stir your emotions and succeeds when it is capable of tearing your senses apart. With any form of recorded music, it is the loudspeakers which make the difference.

Wharfedale's Modus Music range of speakers has a powerful modern sound. The bass is explosive while the treble is precise. The elevated tweeter unit will rotate 120° for optimum performance. The moulded baffle provides excellent damping for acoustic deadness and the sculptured design gives Modus Music speakers a classic appearance. The moment you listen to them you will feel the difference.

Modus Music is one of Wharfedale's many speaker ranges. These also include the innovative new Modus Acumax sub/satellite system.

Modus Music from £159.95 - £439.95

Wharfedale International Limited, Crossgates, Leeds, LS15 8AL Tel: 0113 260 1222 Fax: 0113 260 0267



NEW-WORLD WIRELESS

Gone are the days of manual tuning. Pioneer's F-504RDS tuner is happier letting its brain take the strain, finds Noel Keywood.

It's not like the enormous silver TX-9500 I once used, more's the shame. However, some of Pioneer's skill is still alive in their new F-504RDS synthesiser tuner, fitted with the Radio Data System (RDS). Otherwise, uniformity has come to Japanese tuners, like so much else, making the F-504RDS similar in style and facilities to its rivals from Denon, Sony, Technics, et al.

Never mind though, it's still a good tuner.

My old Pioneer TX-9500 had a giant spin-wheel for tuning, and a pointer that fairly zipped along its scale. But manual

BOOTHROYD STUART

MERIDIAN



NEW – 20-BIT CD PLAYER

Always at the leading edge.

The Meridian 508 now features a new 20-bit D/A converter. Send or call for our brochure, it describes the pleasure of owning one of the world's finest Audio and Video systems.

Meridian Audio Ltd.

Stonehill Stukeley Meadows

Huntingdon Cambridge PE18 6ED

Tel 01480 434334 Fax 01480 432948

tuning is a thing of the past; the knob of the '504 initiates auto-tuning instead. You can sort of manually tune, but curiously this tuner stays mute until it has been put onto a station precisely. Seeing its signal strength meter resolutely stuck at zero, whilst I twiddled the knob energetically in manual-tune mode, I thought my aerial had blown down. Then I discovered that noise muting is slow to open, so manual tuning has to be slow and deliberate. This means that manual station searching isn't easy, although auto-tune stops at everything if noise muting is switched off by selecting Mono. Better to let the Pioneer find stations and then store them in a memory for push-button selection. This also avoids locking onto distant transmitters by mistake, which happened to me with Radio 1, 2 and 3, because of the large aerial we use. The impatient (that's me!) can punch in station frequency direct, using a 0-9 keypad strung out horizontally beneath the tuning display window.

Two wavebands are provided: VHF/FM and Medium Wave, covering the usual frequency band of 87.5-108MHz and 531-1602kHz respectively. I was pleased to see that on hitting the upper or lower limit the '504 would not just stop, but 'rotate' to the other end of the scale; this can save time.

Memory Scan recalls memorised stations, playing each for a few seconds so a choice can be made. Of course, RDS helps in all this by giving station name and, if you're lucky, frequency and other info, if this information is being transmitted that is.

Pioneer fit two aerial inputs (cable & terrestrial) with switching between them and an RF attenuator (for cable). There's a Narrow band IF selector, which our tests showed worked well. However, selectivity was so high that it would only be needed in extreme circumstances.

I suspect most users will never fully get to grips with the acronym-laden RDS system, where we are faced with obscurities like an Enhanced Other Network. To you or I, that translates into giving priority to Traffic Info. This gibberish isn't Pioneer's invention though; they merely implement the full system on the F-504. However, their handbook is no more enlightening than most - which is to say not much.

The F-504RDS was built and finished much like its rivals, its thin steel sleeve sounding a bit clanky. Nevertheless, all controls felt smooth enough. I was disappointed though that an effective 7-segment signal strength meter that reads right up

to 2mV and is therefore able to give a good indication of aerial performance, had been relegated to a small corner of the display window and was so small as to be barely decipherable. The handbook barely bothers to mention it either, yet an indicator like this can be invaluable in assessing aerial performance and therefore potential reception quality. On all the major stations our aerial lit six (0.8mV) or seven segments (2mV), showing we were getting optimum results.

Kiss FM came through loud and clear all right. Great to be told it's Kiss by RDS through the big, blue matrix display, even if it was pretty obvious from the music. No problems here though, except a little leanness in the bass and some obvious sheen in the treble, which emphasised detail. Otherwise, the Pioneer sounded clear, clean and concise. I noticed that at the weekend, reggae indies came over as a bit restrained in the bass and changing over to our resident Troughline emphasised the fact that whilst the '504 goes low and has dry, tight bass, it isn't as fulsome sounding as it should be. This is where NAD's great 402 tuner scores of course.

Studio discussions on Radio 3 and

News Radio can be the sort of thing to raise awkward questions about a tuner, but the F-504RDS showed just how quiet and hiss free it was on such material. Some muting of studio 'thum' - room acoustic - and ambience again made for dryness in the tuner's presentation, but it was crisp and insightful. Image positioning was good laterally, but depth perspectives were muted.

Strings on Radio 3 sounded pure and free of harshness or screech. Yet the F-504RDS still mimicked so many of its rivals by sounding overly bright and detailed, perhaps in an attempt to impress in a 'hi-fi' way. Cymbals, maracas, violins, or any instrument with a plentiful high frequency content was projected forward with enthusiasm, becoming a little obvious. So the 504 projects detail well and this gives it an insightful presentation, but it doesn't rasp or sound 'grey' in the process. But rockers might well object that their favourite station lacks balls; this is the trade-off.

The F-504RDS is a neatly engineered tuner, with bags of performance. It is however, much like its rivals, most of which I have tested and used. I was hoping for a little more of the individuality and appeal that my old TX-9500 possessed, but it is not to be found in the new Pioneer. It's well engineered for sure, but there's little to distinguish this model from others ●

Pioneer F-504RDS £349.95

**Pioneer Hi-Fidelity (GB) Ltd.,
Pioneer House,
Hollybush Hill,
Stock Poges, Slough,
Berks. SL2 4PQ
☎ 01753 789789**

WORLD VERDICT



Well engineered and competent tuner, but a little uninspiring.

**Measured Performance
see p113-121**

“ It was great to be told it's Kiss by RDS even if it was pretty obvious from the music. ”

The point of Induction

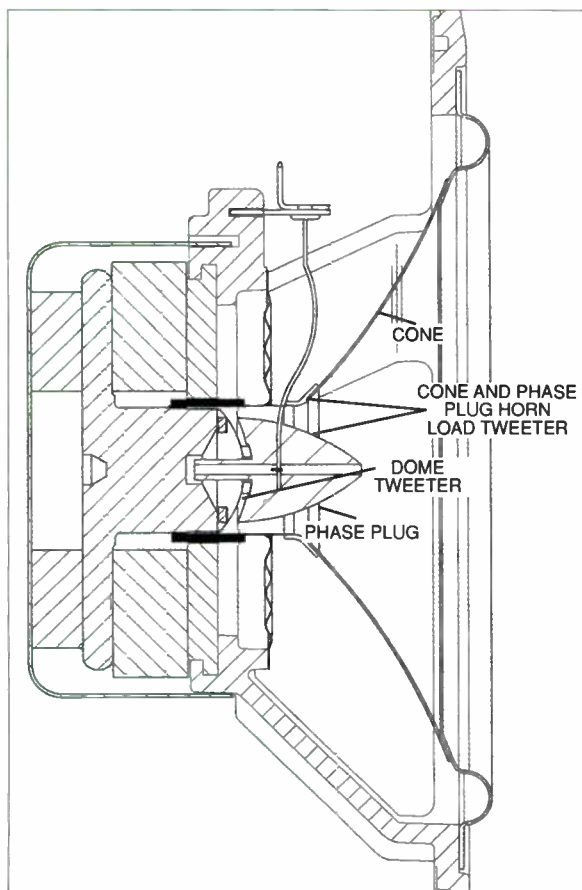
Dominic Baker listens to Goodmans' new point-source IC100 loudspeaker, with Inductively Coupled tweeter.

Just as we were harping on about lack of innovation in the UK loudspeaker industry, Goodmans

Loudspeakers Ltd launch their Imagio Series using British developed ICT technology. So keen were they to show us this that a pair of £170 IC100s were personally delivered by their loudspeaker engineer, Geoff Hill, just in time to squeeze into this issue.

So what is ICT and how will it benefit loudspeakers? ICT stands for Inductive Coupling Technology, and can be used to produce a single, full range drive unit that closely mimics a point source - good news for precise imaging. In the IC100s a 165mm polymer bass/midrange driver is used, in the centre of which is a metal skirted dome for treble, but it isn't electrically connected to the amplifier. This dome collects treble energy through inductive coupling, in a manner similar to a transformer.

Goodmans' ICT driver combines a few other interesting features.

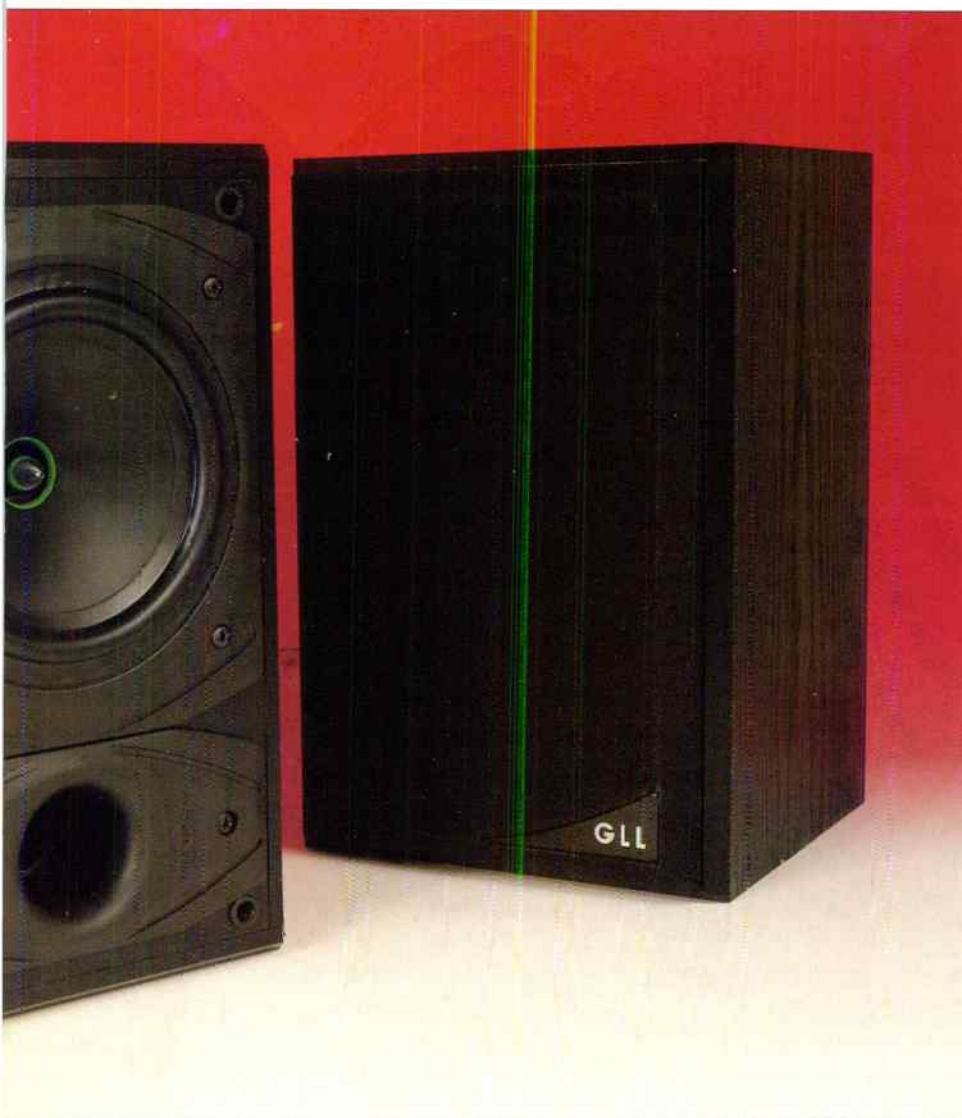


Goodmans' ICT drive unit.



The 165mm cone has a build ring, the green ring at the centre of the cone in our picture, which joins the voice coil to the cone to give a very smooth profile. The cone's profile, in combination with the centrally mounted phase plug, forms a horn that improves the sensitivity of the tweeter to match that of the bass/mid driver. Also aiding sensitivity, the voice coil of the main driver is wound from copper plated aluminium to keep weight down.

Entry into the Imagio Series of ICT loudspeakers starts with the £170 IC100s. They're small standmounters, reflex loaded and using single 165mm ICT drivers. It's recommended that IC100s are used within half a metre of a rear wall, angled in so their paths cross a metre in front of your listening position.



With a weighty, powerful sound and fine stage width, the IC100s are instantly impressive. Their direct, engaging nature pulls you into the music from the first few bars of a track. A slight forwardness in the upper midrange gives them plenty of insight and a sharply defined edge to transients. A dry, neutral midrange quality gave The The's 'Slow Emotion Replay', with its soaring harmonica and forward strings, real drive and attack. Highlighted by 'Helpline Operator' and its deep and dynamic bass line, the IC100s had a tendency to blur low frequencies, even when pulled away from the wall. Although solid and with good weight, bass was overly full and a touch slow, the precise, fast midrange and treble easily outstripping it.

Eerie and moody, the rhythmic

integrity of Portishead's 'Numb' was held together well by the IC100s. Beth Gibbons' vocals were clear, floating out in front of the mix; vocal projection was good. The background Hammond organ played a haunting melody behind her and the electronically processed percussion was held in a tightly defined space, as if captured in a bubble. Cymbals would occasionally explode outwards before dissipating, as if the bubble had burst. GLL's IC100s made a fine stab at this track. Although revealing the strongly electronic production for what it is, they gave a musical and rewarding experience.

With REM's 'Texarkana', their bass sounded drier; there was a stronger grip on proceedings. The instruments of this track were well separated, individual melodies and rhythms being

easy to follow. The whole integrated together well, giving a cohesive sound. This simple recording, with less electricravery, gave the IC100s a chance to demonstrate their abilities in terms of imaging. In similar fashion to the Uni-Q driver used by KEF in their Reference series, the ICT driver has a rightness about the way it presents a performance, instruments falling neatly into place across the sound stage. The ICT unit is close enough to being a Point Source - one point from which all sound radiates. This should - and did - produce fine image definition.

With solo violin, the IC100s had a neutral tone, a touch plasticky but not too rich or thick. Sustained upper notes did show a little early decay; upper harmonics didn't extend fully, but this is a criticism that can be levelled at many dome tweeters.

ICT certainly looks like something to keep a close eye on in future. It possesses some interesting qualities, namely a cohesive sound with precise and ordered imaging, and with the IC100s you get all this for five pence under £170. I felt the bass was a little obvious in character, not really melding with the tight and fast midrange and treble. But in free space positioning it was as good as that from many boxes this size. And remember that it can always be tightened up with the addition of a couple of foam bungs! Here is a piece of innovation worth listening to ●

IC100

£169.95

Goodmans Loudspeakers Ltd,
3 Ridgway,
Havant,
Hampshire PO9 1JS.
☎ 01705 492777

WORLD VERDICT



For the size and price GLL's IC100s offer some super qualities, especially stable imaging.

Measured Performance
see p113-121

ACOUSTIC ENERGY
 AIWA
 AKAI
 ALPHASON
 ARCAM
 ATC
 AUDIO ALCHEMY
 AUDIO
 INNOVATIONS
 AUDIOQUEST
 AUDIO TECHNICA
 AURA
 AVI
 B & W
 BEYER DYNAMIC
 BOSE
 BOSTON
 CABLETALK
 CANON
 CASTLE
 CELESTION
 CERWIN VEGA
 CHORD
 CREEK
 CYRUS
 DENON
 DPA
 DUAL
 EPOS
 EXPOSURE
 GLL
 GOLDRING
 HARMAN KARDON
 HEYBROOK
 INFINITY
 IXOS
 JAMO
 JBL
 JPW
 JVC
 KEF
 KENWOOD
 LASERDISCS
 LEXICON
 MARANTZ
 MAXELL
 MERIDIAN
 MICHELL
 MISSION



MITSUBISHI
 MONARCHY
 MONITOR AUDIO
 MONSTER CABLE
 MORDAUNT-SHORT
 MUSICAL FIDELITY
 NAD
 NAKAMICHI
 ORTOFON
 PANASONIC
 PHILIPS
 PINK TRIANGLE
 PIONEER
 PROAC
 PROJECT
 TURNTABLES
 QED
 QUAD
 REL
 RESTEK
 ROGERS
 ROKSAN
 ROTEL
 ROYD
 RUARK
 SD ACOUSTICS
 SENNHEISER
 SHARP PROJECTORS
 SME
 SONY
 SOUNDSTYLE
 STANDS UNIQUE
 STAX
 SYSTEMDEK
 TANNOY PRESTIGE
 TARGET
 TDK
 TDL
 TEAC
 TECHNICS
 THORENS
 TOSHIBA
 TRICHORD
 VAN DEN HUL
 WADIA
 WHARFEDALE
 XLO
 YAMAHA
 AND
 MANY MORE

The Power House of Choice

- Visit our showroom and decide what you want to buy
- Decide what you can afford to pay per month
- With 0% apr* INTEREST FREE credit you can suit your taste and your pocket

Cash Price
£800
 Deposit £80
 Balance £720
 18 mths
 @ **£40**

Cash Price
£3000
 Deposit £300
 Balance £2700
 27 mths
 @ **£100**

Open Sundays

Home Cinema Specialists

Main authorised dealers for over 100 manufacturers

Cash Price
£1400
 Deposit £200
 Balance £1200
 16 mths
 @ **£75**

Cash Price
£5000
 Deposit £500
 Balance £4500
 36 mths
 @ **£125**

You Decide - We Provide Anywhere in the U.K.

*Subject to Status. Ask for written details. E&OE. Offer not valid with any other promotions or offers.

**45 High Street,
 Hounslow,
 Middlesex TW3 1RH
 0181 569 5802**

**173 Station Road,
 Edgware,
 Middlesex HA8 7JX
 0181 952 5535**

**18 Monmouth St,
 Covent Gdn,
 London WC2H 9HB
 0171 497 1346**

the little bit three

dpa

dx 8
processorcd, cd-r, mp3
digital filter

David Price
finds DPA's new
Little Bit III has grown
up into a fine
sounding
budget
DAC.

BIT-TER SWEET

CD convertors have always been a popular way to instantly upgrade the performance of your budget CD player. Offering higher grade convertor chips and components, they can lift the standard of your £150 bargain basement player closer to top-end audiophile status. But recently the market for add-on convertor upgrades seems to have gone a little cold, doubtless due to the increasing number of affordable players offering high spec. audiophile components and up-market convertor chipsets, like the Marantz CD-63SE.

VAIC VALVE HI-END

Ultimate

Most Powerful

Power Amplifier

in the World



VAIC VALVE

V V 5 2 B

Pure class A single-ended
Mono block power amplifier
30W+30W (8Ω) Weight 50kg each
Vaic Valve VV52B Power tubes
Price US\$ 12,800 a pair



V V 5 2 B



V V 3 0 B

VAIC VALVE VV52B Worldwide Distributor
TRIODE SUPPLY JAPAN LTD.

1-23-1 Kitakoshigaya Koshigaya-shi Saitama-ken Japan. PO#343
TEL: 81 (JAPAN) -489-78-7109 FAX: 81 (JAPAN) -489-78-7309

TUBES PRICE

VV52B TUBES

US\$ 1200 a pair

VV30B TUBES

CALL US

Guaranteed by Vaic Valve and Triode Supply Japan Ltd.

Method of Payment

AMEX CARD / Bank Remittance / Postal Money Order

Indeed this particular machine has become the bane of many mid-price convertors, with an internal DAC the equal of most offboard units selling for the same money, or more. So it was a pleasant surprise to find that for once the Marantz was thoroughly outclassed, the honours going to DPA's new £300 Little Bit.

It's easier than you'd think to design an off-board DAC - in fact it's possible to buy most of the circuitry off the shelf complete with application notes from the chip manufacturer. So it's not unsurprising that many companies take this route, concentrating on tweaking or fine tuning an existing chip set. But DPA are different. The Little Bit III uses their own discrete digital filter and 1-bit convertor, first seen in a more sophisticated form on their top end convertors.

The Little Bit III, as its name cunningly suggests, is DPA's third budget convertor. In addition to its

performer, but compared to some more expensive designs it's a touch fluffy around the edges, with a silvery-smooth treble that lacks incisiveness, and rather over-polite bass. Add a general lack of dynamics and you've got the only reasons why the '63 isn't as good as the best thousand pound players - but now things are different.

SOUND QUALITY

On the end of a CD-63SE's coaxial output, first impressions were that DPA have engineered a phantom loudness button into the new Little Bit, as bass took a turn for the deeper and treble gained some much-needed bite. But further into Linton Kwesi Johnson's In Dub it was clear the DPA didn't just

mix better with the Little Bit, pushing the song along just as they're supposed

to. By comparison, the CD-63SE sounded airbrushed.

A NAXOS recording of Beethoven's Eroica sealed the Marantz's fate - the DPA thoroughly outclassed it

with a more dramatic, airy, open feel. Imaging, both left to right and fore and aft was better defined, while cellos had more body and drama to them. Despite the worrying distortion figures however, this convertor showed not a jot of grain with violins, confounding all apocalyptic predictions in this department. Indeed the only criticisms I could make, which seem rather churlish at the price, are over its slightly dry sound and lack of tonal colour. Then again, I have heard worse from DACs far more expensive than this.

For £300, I can think of no other DAC I'd rather have. There's nothing around at the price to beat it. Only when you start spending twice the money do the likes of Audio Alchemy's DDE1.1/PS3 begin to give it something to think about. Once again, DPA have done themselves proud ●

DPA Little Bit III

£300

DPA Digital Ltd.,

**Units 7&8, Willowbrook Lab Units
Crickenhowell Road, St. Melons.**

Cardiff CF3 0EF

☎ 01222 795621



discrete digital filter, it gains a new full-size case that makes it look good value from the word go. It's well finished, if not substantially built, looking purposeful with its switchable inputs for one optical and two coaxial digital sources.

Offboard DACs should be heard and not seen, and that's where Little Bit III really comes into its own. The new DPA's sound quality addresses all my reservations with the CD-63SE. Make no mistake, the Marantz is a formidable

add weight to the frequency extremes, it actually had a lot more grip too. Sequenced bass on Opus 3's 'It's a Fine Day' started and stopped more tightly, while cymbals and percussion detailing sounded brighter and more finely etched.

Ride's 'Twisterella' underlined the DPA's superiority. In its scale, the recorded acoustic was bigger and more dramatic, with better space between Mark Gardner's vocals and the frenetic backing guitars. Drums cut through the

“... offboard DACs should be heard and not seen, and that's where it really comes into its own.”

WORLD VERDICT

Don't be misled by the name - it's the budget CD convertor to have. Impossible to criticise for the money.

**Measured Performance
see p113-121**



SPECTRA
Dynamics

DEFLEX[®] acoustic PRODUCTS

The simplest & most cost effective way to upgrade your system

A. DEFLEX ACOUSTIC PANEL

You need at least 2 Deflex panels for a pair of small bookshelf speakers, 4 panels for a pair of Tannoy 6's, and at least 6 panels for larger cabinets. Deflex panels are re-usable and transferable.
Standard Panel 28cm x 21cm £7.95 each
Small Panel (LS3/5A) 24 x 13cm £5.95 each
Sub-woofer Panel 34cm dia. £14.95 each

B. FOCULPODS

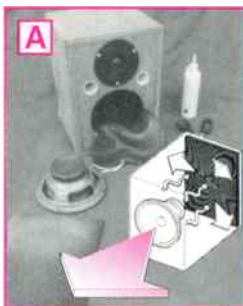
Foculpods are high performance vibration absorbing supports designed to be placed under Compact Disc Players, Turntables, Amplifiers, Loudspeakers and All other Audio, Video & Computer equipment. The spherical surface provides even contact and uniform energy distribution.
Foculpods £14.95 pack of 4

C. TURNTABLE ISOLATION MAT

This turntable mat has been carefully designed to incorporate 3 layers of Deflex material, all of differing hardness. Top layer 25% hardness (anti-static); Sandwich layer 0-1% hardness (shock absorbing); Base layer 15% hardness (support).

Turntable Mat 12" diameter £55.50 each
All prices inclusive of V.A.T.

**NOW AVAILABLE FROM MOST GOOD HI-FI SHOPS
PHONE FOR YOUR NEAREST STOCKIST**
(Prices may vary from those shown)



For a **FREE** information pack and details of all products from **SPECTRA DYNAMICS**

Tel (01745) 571600 Fax (01745) 570194

VISA • ACCESS • AMEX

(Please add £5.00 P&P on orders less than £50)

Spectra Dynamics Limited, Talargoch Trading Estate, Meliden Road, Dyserth, Clwyd LL18 6DD

Wonderful Range of High Quality Transmission Line Hi-Fi Loudspeakers



P82

P62

P52

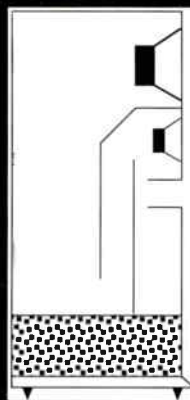


For other models and finishes phone:

Elvins Acoustic Technology
MANUFACTURERS OF HIGH QUALITY AUDIO PRODUCTS

12 BRETT ROAD LONDON E8 1JP UK
TEL/FAX 0181-985 7285

P52 Mahogany Veneered
P62 Mahogany Veneered
P82 Mahogany Veneered
Impedance 8 ohms
Systems Transmission Line Two Way Ported Reflex
Applications : Single-wired, Bi-wired, Bi-amplified
Binding post terminals two pairs Gold plated and colour coded
Bass / midrange driver Polypropylene cone
Treble soft dome tweeter
Crossover : 2nd order high and low pass at 4kHz
Enclosure ; 19mm MDF
As standard finish : Rich red Mahogany wood veneer or White Gloss



Internal details of transmission line and lead shots

made for music

Affordable, quality hi-fi equipment with no compromise on fidelity; that has been the consistent aim in designing the Deva range.

Through innovation, through art and through logic, this is now a reality.

A range of hi-fi amplifiers and digital source equipment, hand-built in England. Developed for the music lover without sacrificing the facilities needed in today's home entertainment music/video system.

Made for music....to hear is to believe.



deva

For further information please contact

Morgan Audio Systems Limited
137 Vauxhall Road, Liverpool, L3 6BP
Tel 0151 236 7667 Fax 0151 255 1194

Studio One

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

117-119 HAMMERSMITH ROAD
LONDON, W14 0QH.

Tel: 0171 371 3037

Fax: 0171 371 1790

We are open Mon-Sat 9.30 -6.30



Presents:
QUAD
CD's Tuners,
Integrated Amps and
Pre-Power Amps.



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

Agents for:- Alchemist, Audio Innovations, Audiolab, Aura, Alphason, Atacama, Audio Technica, Boston, B&W, Chord Company, Castle, Denon, Dynavector, Harmon-Kardon, JBL, Iecklin, Jamo Oriol, Orelle, Kinshaw, KEF, L.A. Audio, LFD, Michell, Moth, Musical Fidelity, Nakamichi, Ortofon, Pro-ject, S.M.E., Sequence, Stenford, Sugden, Teac, Thorens, Totem, Tannoy, Townshend, Tube Technology, Van - Den - Hul, TDL Electronics. Studio series and many more.

* Home Installations*
* Free Local Deliveries*

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

"Call Joseph or Ossie now for Free advice"
"Unique Offer" - The Last Musical Fidelity A1 F.E.
"Final Edition" **Hurry Now!!**

"Records cleaned and sleeved on Nagaoka antistatic for £1.50 per album"
Pay us a visit, we are near Olympia

Over the last few months something about the hi-fi scene has felt wrong. I couldn't pin it down at first, but the arrival of this pair of baby loudspeakers suddenly made me realise - for the first time in a very long time, Mission were no longer

the undisputed kings of budget loudspeakers. Much to their chagrin, the new KEF Coda 7 marched in and duly started walking away with sales. You could almost hear the gnashing of teeth from Huntingdon as discerning loudspeaker buyers rejected their baby

731s, turning instead to arch rivals KEF with their custom.

But Mission aren't the sort of company to relinquish sales success so easily. Enter the 731LE, a turbo-charged supermini sporting a doped-paper bass/mid-driver (rather than the

MERCI MISSION



Worried by KEF's Coda 7, Mission have improved their 731LE budget loudspeaker. "C'est bon!", says David Price.





For sounds that are
out-of-this-world call in at
your favourite Earth store...



 65 Castle Street, High Wycombe, Bucks HP13 6RN  01-494 531682

MIRAGE

BPS-Series BIPOLAR SUBWOOFERS



Explore the
high frontier of
low frequency
sound.

Mirage

The Original Bipolar Loudspeaker

Your Nearest Stockist:

Berkshire:
AUDIO ILLUSION
Langley, Nr Slough
(01753) 542761

Buckinghamshire:
HAZLEMERE AUDIO
High Wycombe
(01494) 437892

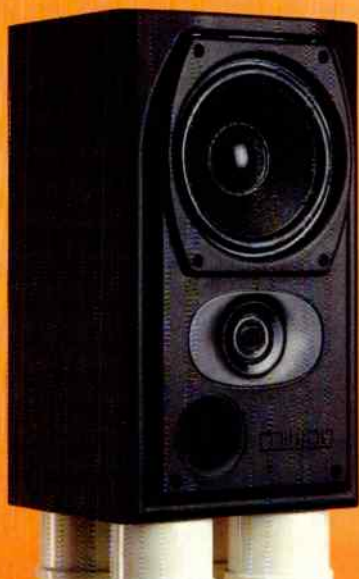
London:
KAMILA
251 Tottenham Crt Road
LONDON W1
0171 323 2747

SELECT AUDIO
164 Lower Clapton Road
LONDON E5
0181 986 8788

Staffordshire:
M.A.F. AUDIO
Burton-on-Trent
(01283) 530550/538882

Mirage

THE ORIGINAL BIPOLAR LOUDSPEAKER™ For Further Information Contact MIRAGE - (01753) 772532



standard model's polypropylene) with a larger magnet, a bi-wirable crossover with improved components and high quality OFC internal wiring. The cabinet gets a novel, patented redesign with the front baffle screwed to the rear by internal 'legs', effectively sandwiching the cabinet's four other sides to keep them rigid. Furthermore, the new beefier bass driver gets mounted on the rear moulding, rather than its conventional front baffle location with the tweeter. A tasteful ebony vinyl covering atop slightly thicker wood is the final improvement, resulting in a 'speaker that seems heavy for its size (the cooking 731 doesn't), and extremely rigid.

So, unlike Mission's SE upgrades of yesteryear, often little more than a bi-wirable crossover and a badge, the LE is an extensive reworking of their entry-level speaker, with some very original thinking. The £150 retail price, just £20 more than the original, is an unequivocal sign that Mission want blood spilled on dealer floors nationwide - to call the pricing 'competitive' is an understatement.

But most importantly, they sound great. Where the starter 731s were dynamically a little flat and prone to flap their polyprop cones at the slightest hint of volume, the LEs hold on tight, imparting transients in their full, uncompressed glory. Where the originals emitted a coarse grating noise on anything but the smoothest of program, the LEs show not a trace of grain. Where the originals had a tendency to 'one note bass' thanks to thin cabinet walls, the LEs are rock-solid, physically and musically. In short, everything wrong with the originals has been got right - so right that Mission's

rivals better start panicking.

On the end of a Marantz CD-63SE and NAD 302 amp the LEs worked superbly. Compared to my last fave-rave budget miniatures, Mission's own 760iSEs, they sounded brighter and tighter. But unlike the standard versions, the brightness wasn't gritty or distorted, but a result of their new-found transparency. Even the electronic doodlings of Orbital's 'Times Fly' failed to faze them, with a smooth crispness to cymbals that even the excellent 760iSEs dulled and smeared slightly. At the opposite end of the frequency scale, the newcomers were tighter and faster, yet no less impactful. Basslines flowed like water, with none of the cooking 731s' one-note boom.

Dynamically, the LEs are a dramatic improvement on the standard 731s too, with a confidence and poise unexpected at the bottom of the market.

Notes started and stopped tightly, with little break up on accents or peaks. Where the oldsters would charm through their euphonic warmth, the new

Missions grabbed the phrasing and dynamics of the song and belted them out with gusto. Images were accurately located, the 731LEs performing the magic stereo trick of disappearing into the soundstage with consummate ease.

With Art Blakey and the Jazz Messengers, the LEs made a surprisingly sophisticated job of 'Moanin', Blakey's cymbal work showing commendable finesse. Sharper than the old 760iSEs, so refined were they I found it hard to believe it's the same tweeter as in the cooking version. Mission agree that the improvement is "night and day", but point out that it's down to improved wiring, crossovers and mounting rather than any change to the tweeter itself.

Indeed, this transparency came to characterise the LEs throughout the frequency range, with an impressive lack of coloration in the midband or bloom

in the upper bass. So neutral were they that some may actually hanker after a bit of artificial warmth. Thanks to their super-rigid design the cabinet seems to all but disappear, losing that upper bass bloom that's a fact of life for most budget miniatures. This makes for a taut no-nonsense low frequency performance that's as extended as they've a right to be, considering their compact dimensions. It also means that using them on a bookshelf slammed against a wall is quite alright, a boon considering how many so-called 'bookshelf' designs need standmounting away from rear walls!

If you want to know what the rest of your system is doing, these are the only £150 loudspeakers that don't pull punches. They can be used on the end of exotic partnering equipment and won't add or subtract too much. But

this also means they're not going to make your cheapo CD player sound better than it has a right to - something to bear in mind when system building. Overall, I can think of no other speaker at this price I'd rather

“Everything wrong with the originals has been got right - so right that Mission's rivals better start panicking.”

have. Mission have come out with another classic and re-installed themselves at the top again. The ball's well and truly back in their rivals' court ●

Mission 731LE £149.95
Mission Electronics,
Stonehill, Huntingdon,
Cambridge PE18 8ED
☎ 01480 451777

WORLD VERDICT

Excellent sound puts the competitors in the shade. Well built and pretty too. What more could you ask for?

Measured Performance
see p113-121

TAPE FAILURE

David Price looks at one of Sony's heroically doomed attempts to give the public what they (should have) wanted, the Elcaset.



The dual-capstan EL7 recorder.

In Japan, Sony are regarded as one of the country's great innovating companies, and often dubbed the "guinea pig" of the electronics industry. Co-founder Akio Morita once pointed out that if Sony didn't invent a technology, they'd at least be the ones to translate it into something consumers would buy in droves. From the first

transistor TV to the first domestic video recorder from the original Walkman to the first DATman, from the CD to the MiniDisc, Sony have been there from the word "Go". But with Elcaset, they caught a cold.

As any marketing department will tell you, engineering excellence doesn't guarantee commercial success. People

won't buy consumer electronics items just because they're new and innovative, they will only invest if they can see how the new technology can improve their everyday lives. This lack of understanding was one prime reasons for the failure of Elcaset.

At the beginning of the 1970s, a group of Sony engineers decided what the world needed was a new cassette system. In awe of the enormous success their great European rival Philips was enjoying with Compact Cassette, yet thoroughly unimpressed - and rightly so - by its poor technical performance, they hatched a plan. What if they could take the serious home recordist's medium - open reel tape - and enclose it in a convenient cassette?

Sony duly came up with Elcaset. It was launched on April 12, 1976 and with a range comprising the EL-5 and EL-7 hi-fi separates and the EL-D8 portable. The EL-5 retailed at £370.00 and the EL-7 at £564.00, compared to Sony's stereo cassette decks which at the time ranged from £265.00 to £469.00. So Elcaset carried a price premium, albeit a small one. Doubtless Sony hoped to rob Philips of their dominant position in the immensely valuable global cassette market, so it had to be competitive against the cassette.

It was a format considerably larger than conventional cassettes, but far easier to use than open reel. The tape ran at 3 3/4 ips, twice that of cassette, and was the same width (6.3mm) as standard quarter track open-reel. This contrasted with the narrow 3.8mm cassette.

Running more tape at higher speed past the head gave Elcaset a great potential performance advantage over cassette, even if cost and bulk were the price to pay. With Elcaset, Sony placed performance above all else.

When used with Sony's own dual-layer Ferrichrome tape, Elcaset boasted superb performance. Sony claimed the top EL-7 deck attained a 20-27,000Hz

MEDIA HITS AND MISSES

HITS

COMPACT CASSETTE Philips, 1963

A dictation medium that became everybody's favourite format in the seventies and eighties. Pre-recorded cassette sales rose to outsell both LP and CD in 1989. Now its days look numbered.

VHS Japanese Victor Co., 1979

Heavy marketing ensured superior pre-recorded software availability, while hardware manufacture was licensed to the world and his wife, making it prevail over Sony's technically superior Betamax format.

CD Philips/Sony, 1983

Got off to a slow start. CD only began to succeed when player prices came down. Ruthless marketing and retailing practices, such as withdrawing less profitable alternatives like LP, underwrote its success.

MISSES

ELCASET Sony, 1976

Sony's first, but not last attempt at capturing the tape market. A naive piece of audio purism that failed after four dismal years. Possibly the only time Sony have introduced a format larger than its competitors, contributory to its failure.

BETAMAX Sony, 1979

Sony couldn't hide their consternation when their compact, high performance video format died so ingloriously, mainly due to early software availability problems. In Japan it is supported to this day.

V2000 Philips, 1980

Philips format for the millennium. They thought people would forgive its physical bulk for a long playing time, but got it wrong. Lacked the initial push that the Japanese manufacturers gave their formats; got squeezed out by VHS and Betamax.

(NAB) frequency response - no mean feat when their best cassette deck, the TC-229SD, could barely crawl past 16,000Hz!

The only machines ever built were the EL-5 and EL-7, over-engineered monsters using extremely high quality components throughout. Although not as big as open reel machines, they dwarf today's black boxes in size and weight - 13kgs of brushed aluminium, diecast transports, big ferrite heads and discrete components - and are not to be sneezed at.

The two machines differ mainly in transport and head layout. The EL-5 is a two motor, two head machine, while the EL-7 has three heads and a closed-loop, dual-capstan transport for greater speed stability. This said, even the cooking EL-5 boasted a 0.06% VWRMS wow and flutter, a figure that puts many expensive modern cassette decks to shame. High tape speed was the key to this performance.

MARKETING DISASTER

In an advertisement of the time the Elcaset was billed as the product "for those who expect big things from cassette". Considering how good aspects of Elcaset's performance are even today, it must have sounded awesome in the mid-seventies, so why did it fail? The sorry saga of Elcaset

looks strangely familiar. All the failed formats through the years show an alarming pattern - they've been fine engineering solutions to technological problems, but ill-conceived for commercial success. They've all been top-down, engineering-driven products 'let loose' on an unsuspecting public, rather than responses to genuine consumer demands.

As Sony supremo Akio Morita confessed in his book "Made in Japan", his company used to concentrate on technology for its own sake, and think about little details like marketing and consumer needs later.

Elcaset failed for many reasons. Hi-fi purists associated closed cassettes with lo-fi; they were not persuaded to give up open-reel machines, which could be run at 7 1/2ips for best quality, in favour of this new single-speed medium.

Sound quality was not a key issue in the minds of Compact Cassette users, so much as small size and portability. Elcaset satisfied neither criteria as adequately as existing formats. It would have been impossible to adapt to a Walkman format, as the ELD8 portable, launched in 1978, demonstrated. It was a bulky 'professional' machine with shoulder strap. The format was overly large for cars too - problems also suffered by the US tape cartridge which similarly fell to the cassette.

And finally, a blindness born from insularity caused Japanese Sony to entirely overlook the rising demand



The £370 EL5 model.

STILL STRUGGLING**DCC Philips, 1991**

A curious commercial decision from Philips, replacing an old format with a digital clone. The resultant compromise has made for the worst of both worlds; it's has 1963 access speed and looks. DCC is now impressive in sound quality - but so was Elcaset.

MINIDISC Sony, 1991

Modestly successful in its Japanese home market where prerecorded cassettes in any form have never really caught on. Has failed to make it in Europe, but survives in the States. Sony are far from giving up.

CD-R Philips, 1992

The first ever recordable CD. Trouble is, it is hideously expensive and a CDR disc can be recorded only once, not being erasable. Meant for professional use in compiling special CDs, masters, etc., although it is available for domestic use to those with deep pockets.

DAT Sony, 1986

The Serial Copy Management System (SCMS) fiasco at the time of its introduction, coupled with lack of pre-recorded software meant DAT was almost still-born. Like cassette, it's now found a use different to its intended one - it's de rigueur for mastering and small studio work.

world-wide for prerecorded tapes, which in Britain alone was worth 20 million cassettes per annum in 1978. Even though this trend was firmly in place, Sony failed to take account of it, a short-sightedness that was to return later to haunt DAT. Elcaset was offered only as a high quality recording medium; prerecorded never featured.

This lack of commercial focus plagued innovative research-and-development intensive companies like Sony and Philips for years. Only when they came together with Compact Disc did they truly get it right, and even then they had to fight tooth and claw. Bringing the public what you think they want is an extremely risky business,

especially in tape recorders it would seem. Elcaset was one of the first failures in a field fraught with danger, as Sony, Philips and many others would ruefully admit, even today. Sony were forced to admit defeat by mid-1979, withdrawing their domestic machines from sale. A little later, the ELD8 slid from sight too ●

ELCASET AFTER ALL THESE YEARS

In use, Elcaset is pretty foolproof, running smoothly and quietly. For a mid-seventies product, ergonomics are excellent, always a Sony forté. The only inconvenience is the manual setting of bias and equalisation, which is usually done automatically these days. With the deck still remarkably well aligned after all these years, there was little guesswork involved in recording, the only major unknown being the accuracy of the EL-5's quaint mechanical VU meters.

But how did it sound? Fuzzy? Foggy? Muddy? Blurred? No, not at all. Instead of the seventies mush I'd anticipated, recording from CD with Ferrichrome tape gave a bright, clear, confident sound with none of the nasties you associate with anything lower down the cassette evolutionary scale than a Nakamichi. Even the single capstan EL-5's pitch stability was excellent, with no cracking piano notes or wobbly violins. From vinyl the Sony obliged with that hard-to-define 'out of the speakers' quality that was so appealing about open-reel. Harmonics were remarkably well preserved, with an ease and natural quality that has always given cassette a hard time, and treble had real sparkle.

Indeed, it was all rather hard to believe from a deck designed when the Morris Marina was Britain's best selling car and Slade looked like the future of pop music. But there was a downside, bass wasn't the tightest I've heard, and was definitely outclassed by a Sony open-reel machine of a similar vintage running at the same speed. Ironically, I suspect much of this wasn't down to the Elcaset transport, but the deck's

audio electronics. The record and replay amps introduced a touch of grain and hardness to the sound through the tape monitor circuit which didn't quite give the sumptuous analogue sound I hoped for. Still, to my ears, Elcaset proved itself in no uncertain terms ●

BUYING ELCASET TAPES

Elcaset owners will be delighted to learn that Hi-Fi World has unearthed some brand new blank Elcaset, the last 10,000 remaining in the world! Sony sold their stock to a tape warehouse in Manchester, where they've stayed undiscovered for twenty years. It's like finding Drake's treasure!

So if you've got an original machine, and we know many people still have, all is not lost. Both normal and ferrichrome types are available. SLH 60s cost £1 each, with 90s at £1.50. FeCr 60s are £1.50 and 90s £2.99. The minimum order quantity is a box of 12, for which postage and packing is £4. Phone distributors Shadoos to confirm availability before ordering.

Shadoos

Unit 15, Ifco Centre,
24 Wilmslow Road, Rusholme.
Manchester M14 5TQ.
☎ 0161 224 4215.
Fax 0161 257 3530.

SPARES AND SERVICING

Some Elcaset spares are still available. Sony make key parts like pinch rollers and belts. For information write to:

Richard Webster,
Services Communications Officer,
Sony Consumer Products
Company UK, Piper's Way,
Thatcham, Newbury, Berkshire
RG13 4LZ

Also, regional Sony Service centres can help. Contact Sony on 01932 816000.



THE END OF A LONG SEARCH

About 3 years ago I wrote to yourselves regarding upgrading my system. In your reply you commented that "you are obviously out to scare the cat with this system". This set me thinking about what I really wanted to achieve and subsequently many more months than intended listening to various bits of kit.

Many of my problems in choosing to upgrade my Meridian 206B with a DAC were due entirely to lacklustre demonstrations of "very well regarded" products and looking back further I realise I experienced the same difficulties when looking to replace my Cambridge P40 with another integrated amp. On so many occasions in many different dealers, with often wildly varying partnering equipment, I left the ex-dem feeling totally underwhelmed by what I had heard. I think over the last 10 years I can count on the fingers of one hand the number of times I have heard systems at dealers that have actually moved me and conveyed the emotion of music in a satisfactory manner. After all, is that not what a good hi-fi system should do, regardless of playback medium?

I learned at school, when chosen to read a text in a competition, that half of the message is contained in the words, the other half in the manner in which the message is conveyed. The emotions conveyed by the speaker to the audience and the style of presentation is what initially captures the listener and I believe it to be the same

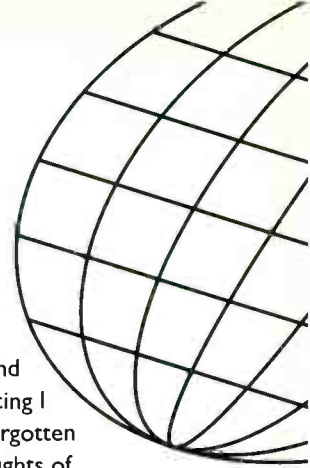
with music.

Recently fortune has smiled upon me in my search for a dedicated transport to replace the 206B. Despite having similar experiences to those of past years I eventually walked into Radlett Audio in St Albans with my Da Capo (the DAC I eventually settled on) tucked under my arm, where it was suggested I take to Audio Alchemy's Digital

Drive System III. Partnered by Audiolab's pre/power combination driving Ruark Talisman 2s it provided one of the most musical performances I have ever heard. Four days later I took home a DDS III of my own, plugged it in and went down the pub for a couple of hours whilst it warmed up a bit.

Over the last three days I have been rewarded with a sound that is so gloriously

open and entrancing I have forgotten all thoughts of changing my Tannoy DC2000s. The sound just hangs in the air apparently free from any constraints imposed by boxes. I realise that the DC2000s are coloured and not the most accurate speakers around, but for me they have always been musically involving and



Letter of

TWO TRIBES

Having only recently discovered the magic of valves, I'm amazed at the vast gulf between the two technologies, and the obvious superiority of valves over solid-state amplification. It manifests itself in many ways, all of which have been aired on your pages, but the most crucial difference is only obvious on extended listening - the total absence of listener fatigue with good valve amplification. I have found that the listening experience actually improves with each record during the evening. This is the exact opposite of all the solid-state amps I've owned. I'm aware listener fatigue is a well-known phenomenon, but it's surely one of many important issues for today's industry - possibly because it manifests itself after the sale has been made. I believe listeners

are often unaware they are being aggravated by solid-state electronics.

Since I bought my Copland CTA10/CTA15 amps I can only say "thank God" I didn't go back to the hi-fi shop for another well-reviewed budget wonder with a pair of half-pint mini monitors with metal dome tweeters (more fatigue) and no bass.

This all leads me to the conclusion that technological development over the last few decades has made no significant improvement to listening pleasure or overall sonic excellence - I'm listening to fifties amplifier technology through ten year old speakers and a belt-driven LP12. Today's industry can make the latest violent movie sound even more brutal on TV and produce finger-tip controllable sounds in every room, but there its talents end. It has singly failed to significantly

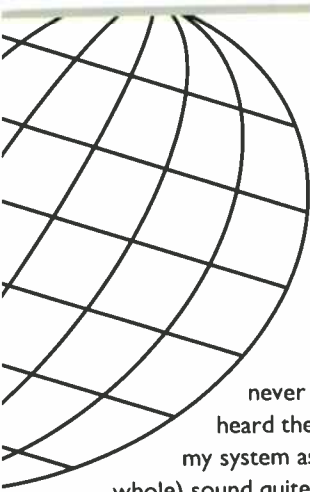
improve music reproduction except at the very limits of affordability. Hi-fi that most people can afford is a poor thing with an inherently low fatigue threshold which requires that its users be desensitised to poor sound quality. Even at its best it fails to inspire.

Technology based on convenience (of use, manufacture and marketing) is ultimately a blind alley for an industry that aspires to interpret art and present it to listeners. It is one which will lead to an even more divided industry - mainstream convenience and high end - an unrewarding situation for everybody as it keeps lower cost equipment unlistenable and high quality equipment unaffordable to all but an elite.

R. C. Edwards
London.

Send your letters to Hi-Fi World Letter Page,

writes



never have I heard them (or my system as a whole) sound quite so good as they do now.

Whether I listen to blues, soul, 70's rock or female vocalists, I am now enjoying the music more than at any time during the last 10 years.

Thank you Audio Alchemy, Patrick at Radlett Audio and Hi-Fi World for the best bit of unintended

advice ever! Yours currently being entertained by Jethro Tull.
Nick Davis
South Ockendon,
Essex.

P.S. A tweak for people who (like me) wear glasses. Take them off when you listen to music! (It works for me and is reversible! Maybe it is something to do with the weight pushing down on the

ears) Hey, I'm being serious here - maybe Dominic Todd can confirm this?

Thank you for your letter which helps underline something we always try to stress at Hi-Fi World - a proper audition at a good hi-fi dealer is worth its weight in gold. Even though it sounds as if it has taken you considerable time to find this service, your comments suggest that the wait was more than worth it, and you have been rewarded with exactly the sound you were after. DB

A VISIT TO FRANKFURT

It was very interesting and funny reading your story about "A visit to Frankfurt". One of the advantages of your magazine is that there is always a little bit of British humour inside, which makes it much more pleasant to

read than a typical (boring) German Hi-Fi magazine. At first I must say that the three shops you visited are, for the German Hi-Fi scene, about as typical as a meal in a Chinese restaurant compared with fish and chips.

During the re-birth of tube hi-fi in the eighties several manufactures of high quality (and expensive) tube equipment established in Germany: Klimo, Kebschul, Raphael Audio Workshop and Orange Audio for example. There is also a small market for vintage equipment, but the problem is not the availability, it is the price. For someone who only wants to enjoy the music it might not be useful to spend DM 2000 - (about £830) for an old Leak amplifier with four EL34s that looks like it's still suffering on weak electrolytics and/or carbon resistors of very bad quality.

Another problem is that most vintage equipment of

the Month

I also feel that there's something peculiarly yet deeply different between valves and solid-state, apart from the obvious differences of better air and space within the sound stage, richer instrument timbre and all the other properties most people identify. Like you, I find solid-state can seem unsettling over a period, yet this is difficult to pin down. Sometimes, on changing from my valve amps (monoblocked K5881s) I swear I can hear modulation noise from solid-state amps - a sort of grainy swishing sound accompanying the music. Then I listen again and it's gone. Was I imagining it? Your letter would suggest not. I suspect many other valve addicts would agree with your sentiments.

Andy Grove, our valve amp designer, has

highlighted the extreme differences between the two in areas rarely talked about, such as current density, dielectric, electron speed, etc. Viewed in this way, the valve is a radical amplifying device, rather than an interesting anachronism. I hope we'll be able to cover this better in the near future.

At present, mainstream manufacturers would appear incapable of moving away from solid-state, although I am pretty surprised to see two of the worlds larger C.E. companies - AT&T (American Telephone and Telegraph) and Philips/Marantz - entering the field, even if it is only at their own industrial margins. We might all be surprised at what the future brings.
NK

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

WIN HI-FI WORLD INTERCONNECT CABLES

OR PERFECT PITCH'S FRANCINSTIEN CD

ENHANCER

The writer of the most interesting or funniest letter will receive a choice of either: a free set of Hi-Fi World's silver plated copper interconnect cables, worth £69.95, or a Francinstien CD convertor enhancer worth £150.



BASS-IC INSTINCT



Douglas Floyd Douglas:
reaffirms Technics' new
SB-M100 loudspeakers *as*
music with real bass.

Critics will snigger at Placemore's latest promise: "Merely" music. But the new SB-M100 with DDB (Dynamic Drive) does. But music lovers will really judge high-performance hi-fi products. For the SB-M100 is a striking bookshelf

loudspeaker with impressive dynamic range and rendering bass that so often eludes larger British and American competition.

In this Japanese style, speakers are objective. What looks to be an already rownery bookshelf

loudspeaker is now a high-end hi-fi competitor. The new SB-M100 has bass that is not just loud but also deep. The tweeter is exposed, and the ports are visible inside the cabinet.

The two-way that sounds

WHO SAYS THE

BRITISH DON'T

PLAY BRILLIANTLY

IN EUROPE?

EUROPEAN LOUDSPEAKER OF THE YEAR



At B&W we've just scored another major success. Our CDM1 has now won European Speaker of the Year, which was judged by the Editors-in-Chief of leading photo, video and audio magazines from thirteen countries. High praise indeed. But with a winning team of engineers coming up with a hat trick of technological innovations: outside tweeter mounting, kevlar drive unit and contoured edges for reduced sound diffraction, it's not an entirely unexpected result. For more information call B&W UK on 01903 750750. And see that the best European players don't have to start at £8.5m



B&W

achieve the combined effective sound wave radiation area of a 25cm woofer in a compact unit, despite the conventional limitations of small cabinets and drivers. The aim of this complex technique is to squeeze more bass from a small cabinet.

However, Technics haven't forgotten about the higher regions either. The midrange and tweeter drivers have high performance mica diaphragms, a material which has suitable internal loss and elasticity, properties well suited to improved loudspeaker performance.

Of course this isn't the first time Japanese manufacturers have produced 'speakers with interesting design philosophies, internal configurations or drivers, so why should we be surprised by the SB-M300s? Well, they really are rather good. Bjork's Post album warmed to them immediately, sending sweeping synthesisers and dramatic samples in a typically impressive 'hi-fi shop demo' sort of way. There's no doubt, these babies have plenty of bass. On 'Hyper Ballad', bass tones of 120Hz and below were faithfully, albeit rather dramatically, reproduced. Further into the album it was evident that the SB-M300s have been designed with the next century in mind, where smaller living spaces and greater demand on high standards of music reproduction will be a growing reality.

Avid party goers and dance freaks can take heart that although they're small, these Technics boxes boast a genuinely big sound. With bass crossing over at 200Hz, there's plenty of space for vocals to be projected naturally, without the concerns of intermodulation distortion.

The SB-M300s are detailed, with a lot happening in the midrange and treble regions. Whilst not sibilant or offensive, these 'speakers may sound bright to many ears, but I suspect this would be regarded as tonal 'clarity' to our audio counterparts in the East.

Songhai 2, an eclectic mix of South American acoustic jazz and percussion also proved a good partner to the 300s. Male vocal was strong and well placed in a deep and focused soundstage. Backing vocals were particularly

impressive, rising up from behind the lead. Separation between the Spanish flamenco guitars was good and sounded natural, crisp and fast - every single note, whether strummed or picked, was captured. Subtle, plucked harmonics punctuated a soundstage filled with the rich dynamics and musical control of a superbly presented acoustic set.

Carl Orff's Carmina Burana played with the usual fervour, but this is where installation is crucial. The 300's need a wall behind them, as the only exposed

“Subtle, plucked harmonics punctuated a soundstage filled with the rich dynamics and musical control of a superbly presented acoustic set.”

bass unit is at the rear. The wall assists in literally firing the low frequencies back to the listener, rather than having them simply dissipate, which is what they'd do in a free-standing environment. Having found a suitable position, bass improved dramatically. Low strings were warm and resonant, and full choirs sounded large and powerful. The lead tenor however, sounded unfortunately thin, and on occasions the midrange, particularly in full accompaniment, would verge on harsh. The female alto in 'Ego sum Abbas' was controlled and beautifully presented, while the soprano in the finale, really showed what the mica drivers were capable of, with no evidence of strain or break up at all. Timpani, tuba and double-bass in particular were allowed to shine with measured ease, and this alone deserves commendation.

The SB-M300s are inefficient at 85dB and do need a reasonably powerful amplifier for best results. Simply Red's New Flame sounded really good, once a bit of Wellington wattage

had been thrown at it. Bass and drums were tight and attack was fast. Drum sound in general was solid and well placed in the stereo stage. Mick Hucknall's vocals were consistently clear, although at times his presence was more than I'd been accustomed to. 'If You Don't Know Me' demonstrates in the first few notes what the 300s can achieve on fretless bass. Definition between lead and backing vocals was notably good, as was the ability of the 300s to convey emotion.

Hendrix's 'All Along The Watchtower' sounded authentically sixties - heavily remixed and reminiscent of a wayward post-production session in 'Skysville'. The most experienced Stratocaster in rock history swept effortlessly through the muddy mix (no fault of the loudspeakers), confirming the little SB-M300s as serious contenders with the ability to relay passion extremely well. I could sense the smoke drifting out of those fried Marshall transistors.

Technics deserve considerable success with the SB-M300s. Any 'speaker combining thunderous deep bass with a clear, detailed midrange and treble deserves to succeed. But despite the interesting drivers and design, they still need 'musclesome' transistor amplifiers to give their best. If Technics can invent an acronym for that - and then successfully engineer it - the UK audio industry will have to start worrying ●

Technics SB-M300

£350

Panasonic UK Ltd.,
Panasonic House,
Willoughby Road,
Bracknell, Berks RG12 4PF
☎ 01344 862444

WORLD VERDICT 

A great sound with solid bass from a compact and well priced 'speaker.

Measured Performance
see p113-121

SHEARNE AUDIO

PO BOX 22 STEVENAGE HERTFORDSHIRE SG2 8HF ENGLAND
TELEPHONE 01438 - 740953 FAX 01438 - 740955

**WARMLY WELCOME YOU TO HEAR THE
NEW EXCITING RANGE OF AMPLIFIERS AT
THE RAMADA HI-FI SHOW HEATHROW 9th
& 10th SEPTEMBER 1995 BEING
DEMONSTRATED IN ROOM 1073**



- | | |
|-------------------------------------|--------------------------------|
| 1. PHASE 3 POWER AMP | 5. PHASE 5 MONO BLOCKS |
| 2. PHASE 3 POWER AMP BLACK FINISH | 7. PHASE 1 REFERENCE PRE AMP |
| 3. PHASE 2 INTERGRATED BLACK FINISH | 8. PHASE 1 REFERENCE POWER AMP |
| 4. PHASE 6 PRE AMPLIFIER | |

SEE THE REVIEW OF THE PHASE 2 INTERGRATED AND PHASE 3 POWER AMP IN NEXT MONTH'S HI-FI WORLD

UK DEALER LIST

Audio Suite Aberdeen	TEL 01224-625635	V Audio, Bristol	TEL 0117 9686005
Brentwood Hi-Fidelity,		Zen Audio, Hull	TEL 01482-587397
Brentwood	TEL 01277-221210	Zeus Audio, Belfast	TEL 01232-332522
English Audio, Hereford	TEL 01432-355081	Classic Hi-Fi, Kettering	TEL 01536-515766
Hi-Fi Experience, Darlington	TEL 01325-481418	Movement Audio, Poole	TEL 01202-730845
MJS Hi-Fi, Leicester	TEL 01455-846977	Sallsbury Hi-Fi, Sallsbury	TEL 01722-322169
Phase III Hi-Fi, Worthing,		Sevenoaks Hi-Fi, Witham,	
West Sussex	TEL 01903-507007	Essex	TEL 01376-501733
Sevenoaks Hi-Fi,		Serious K?!, Manchester	TEL 0161-707-4823
Tunbridge Wells, Kent	TEL 01892-531543	Studio 1, Hammersmith Road,	
Sevenoaks Hi-Fi, Guidford, Surrey	TEL 01483-36666	London	TEL 0171-371-3037
Southampton Audio,		Wilmslow Audio Knutsford,	
Southampton	TEL 01703-228434	Cheshire	TEL D1565-650605

SIREN

THE NEW CHORD COMPANY INTERCONNECT

sīr'en n. 1. (Gk Myth.)
creatures half woman,
half bird,
living on rocky
isle to which
they lured
seafarers with
enchancing
singing.
2. sweet singer.



RRP £65.00
AVAILABLE
NOW AT YOUR
CHORD
COMPANY
DEALER



SILVER-PLATED
COPPER
AIR FOAM
DIELECTRIC
SILVER-LAPPED
SCREEN

BRITAIN'S FAVOURITE CABLE COMPANY

Please send A/V info to:

NAME _____
ADDRESS _____



The Chord Company Ltd., 30 Sarum Business Park, Portway, Salisbury, SP4 6EA. Tel (01722) 331674 Fax (01722) 411388



...continued from page 40

polypropylene capacitor, the power supply types should be screw terminal high quality types. Cathode feedback can be taken from the output transformer, secondary and ultra-linear taps on the primary should be offered as an option.

All these alterations will raise cost and make the amplifier more difficult to build, but will also make for great advantage in performance. This is necessary because most modern loudspeakers need to be controlled by the amplifier - and not vice versa.

Finally 'World of Music' is a chain of similar shops, like the Virgin Mega Store; you will find them in every large city (Berlin, Hamburg, München, Stuttgart for example)

**Karl Stephan
Frankfurt,
Germany.**

(Note: the mods Karl Stephan suggests we summarised here. See DIY Letters this month for the full version and our reply)

Thank you for your comments on Hayden's visit to Frankfurt. We are aware that the shops he visited were not typical. From what I've seen of German high street retailers Bang & Olufsen and Sony are very popular. What we wanted to do though was show that the less well known world of vintage and DIY hi-fi exists around the world, including Germany, where it is strong. And the shops he visited were certainly interesting to read about.

The K5881 kit uses a simple, but very well engineered circuit, along with superb transformers in-house designed and optimised using state of the art equipment, and comes supplied with quality audio grade components. There are many things we could do to improve its performance, but they would all increase the price. As it is, we believe it to be one of the most reliable (the original is still running with the same valve set) and finest sounding amplifiers anywhere near the price.

Some of the points you make about K5881 are, however, open to argument. Because we use high grade electrolytic capacitors, bypassing each one would only make a small difference to sound quality and the design is kept simple and easy to build. In the kit K5881, the capacitors C12-15 of the original published circuit are replaced by a dual 50+50µF high grade LCR electrolytic with solder terminals (much better than screw terminals which leave bare wire open to oxidation), I believe the same one used by Marshall because of its excellent performance and longevity. The types you suggest would raise price significantly, and price is a very significant factor. Most requests we receive are for cheaper designs, not more expensive ones.

Our 300B amplifier shows that the best approach is to design a simple yet fundamentally linear amplifier, rather than one which needs feedback to correct its problems. K5881 follows our high voltage/high working impedance philosophy, which gives unusually linear behaviour. High quality

output transformers capitalise upon this. It does not need and would not benefit from more feedback in our view, from wherever it is taken. Out of interest, our original prototype had 'ultra-linear' feedback taps, but we abandoned them as unnecessary.

Of course, we are the last to discourage tweaking. K5881 is an excellent basic design offering fine sound quality to DIYers that would normally be out of the reach of their pockets. It is also an excellent base for those more experienced audiophiles wanting to experiment with different components and circuit arrangements. DB

KRAKEN LIVES

You seem to imply in the piece that the Axiom is a replacement for the Kraken Integrated. Not so. The Kraken is a very different (read quirky) product. It's also Class A and costs more, at £549.

We wouldn't want your readers to think that the Kraken is no longer available.

**Andy Light
Alchemist,
London.**

FRENCH PASSION

Being a convinced "analogue" electronics engineer I have always been strongly attracted to audio, so much so that it has become my only aim in electronics as a hobby. I design, conceive and build preamps, amplifiers, speakers just for the pleasure of creating and finding new ideas, or experimenting with new techniques. This appetite is, however, limited by the space of the flat that I share with an understanding British wife who appreciates the sound quality of my prototypes, and two young sons who like good music

when they are quiet enough to really listen to it.

My personal opinion, in terms of measured behaviour and reproduction of performances, is that the simplest circuit designs often are the best. Also, there is not one excellent active device, but they all have good and bad sides. The secret of getting close to a very good amp is to use different devices in their best operating domain.

Practice proved this to be quite true when I built mono-blocks based on a valve input driving a circuit with mosfets for the power stage. I demonstrated them to a "hard to convince" friend who is a hi-fi enthusiast too and whose system is based on 300B single-ended mono-blocks driving Lowther TPI speakers (folded horn with PM2C drive). After several listening and comparative tests, he told me they sounded just as good as his 300B mono-blocks, I had my reward for these hours spent in, what is called by my family, 'Papa's room'.

Sharing this passion of audio design with a British friend, (my father in law), our meetings always are filled with exchanges of ideas, tricks, circuit designs and listening tests from our respective experiments, although we do not have quite the same taste in speakers (he thinks Lowther and Tannoy are just good enough for public address! !).

Another fact is that, depending on the type of circuit, Class A is not always the royal way of amplification; I have found that it seems to only make a real difference with bipolar transistor amplifiers.

If you would like a personal hint, I suggest you include the following to your CD testings:

*'Pictures at an Mussorgsky-Exhibition', transcribed and

continued on page 47...

PERFECTION IS A PASSION

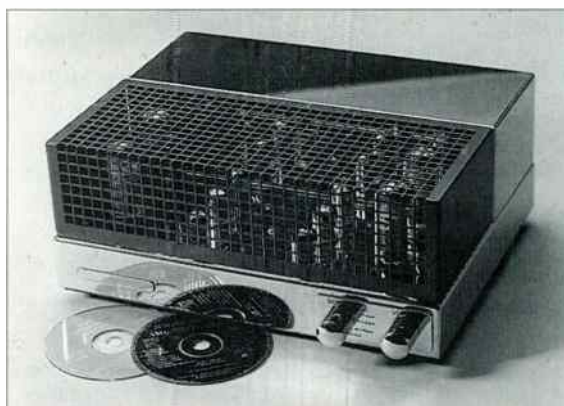


"...PASSION took over the reference position... substantially ahead of the best active line pre-amps. PASSION's switched, discrete attenuator is clearly more accurate, more dynamic and transparent than the pot alternative. When audio products are as good as this, there is little more to say, save to endorse them with a firm recommendation... Now better still in all Vishay mode with a record score of 37".

*Review of PASSION - Martin Colloms
HiFi News April '93 and November '94*

For further details, brochures and prices please contact:
Audio Synthesis P.O. Box 100, Ilkley, West Yorkshire. LS29 9XW.
Tel: +44 (0) 1943 600404 Fax: +44 (0) 1943 600383

Introducing the Riverside 4040 Valve Amplifier...



The Riverside 4040 brings high-end features - in kit form:

- Integrated amplifier with dual mono configuration with a generous 40W rms of valve sound per channel.
- Mirror finish stainless steel chassis with gold plated audio connectors.
- Quality British made transformers and tested valves.

The kit comes with a "guaranteed to work" promise and a full parts warranty.

Kit price £780 including delivery (in UK) and VAT; or send £3 for the 18 page construction manual.

The Riverside 4040 is also available fully assembled and tested, with a two year warranty, at £995 including delivery (in UK) and VAT.

**Phone or fax Cambridge (01223) 501997
(7 days, 24 hours) for further information.**

Technical specifications:

Dual mono construction, 40W rms per channel using McIntosh output topology, 8 Ω and 4 Ω outputs, 240/230V input, five line level inputs, monitor output, 13Hz to 20kHz bandwidth.

**Riverside Audio (Cambridge) Limited,
18 Riverside, Cambridge CB5 8HL.**

IT'S CURTAINS FOR THE COMPETITION



ALCHEMIST
AXIOM

RRP: £299.95

ELEMENTAL AUDIO

For full details of products and stockists, 'phone 0181-883 3008

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

SALE

**Only few units left!
Some prices negotiable**

AUDIO RESEARCH

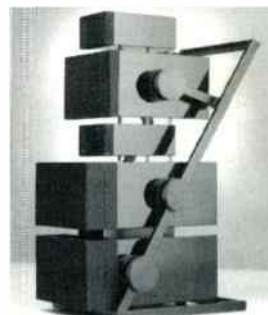
DAC1 D/A converter - LS1, SP15
preamplifiers - D250 MkIIS, M300
MkII, Classic150 power amplifiers

WELL TEMPERED

Record Player, Classic, Signature

export price from

£590



GOLDMUND

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

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

Call for catalogue!

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



... continued from page 45

performed by Jean Guillou at the Great Organ of the Tonhalle, Zurich. Dorian Recordings.

*'Sonatas for violoncello and basso continuo', Vivaldi & Geminiani, Roel Dieltens, Richte Van Der Meer, Anthony Woodrow, Robert Kohnen Accent.

*'Dresden Concerti', Johann David Heinichen. Musica Antica Köln, Reinhard Goebel. Archiv Produktion. Listening especially to track 1 of the first, track 9 of the second and track 1 of the third disc will show the weaknesses of a system.

For testing voice reproduction Handel's 'Messiah' by Christopher Hogwood and The Academy Of Ancient Music is most revealing, especially "For unto us a child is born"; Henry Purcell's 'Hail Bright Cecilia' by John Elliott Gardiner is also a good vocal response test.

Of course, it all depends on what we consider as the "closest to true" reference. I believe that even if the listening room cannot compare with a church nave, the organ should sound life like and not muffled or boxed-in. I have heard this before on very expensive speakers that I would not want even if they were given to me; the first CD mentioned above is merciless on this point.

The second CD reveals the ability of a system to reproduce musical details as well as making you feel the instrument is being played next to you, and the speakers will show their weak points and so will the amplifiers. The third CD makes a good

overall test since it combines various instruments and different players.

I find modern fabrics, (Kevlar, carbon fibre, fibre-glass) widely used for cones nowadays deceiving; I am not at all convinced that this kind of speaker is worth the expense and, so far, I have not found anything better than a well designed paper-cone speaker, not only for the efficiency they usually provide but most of all for their absence of colouration. This, of course, applies to bass and mid-range units and although I did build cabinets with a paper-cone tweeter, I must say that I certainly prefer ribbon tweeters. Full-range transducers (Lowther, Supravox, Audax, Sound-Lab, Fostex) providing they have a proper load. Folded-horn, TQWT, folded-line are excellent too and they usually are paper coned as well.

So my system mainly consists of equipment of my own design, apart from the CD player, a Philips CD 630. I have been thinking of building a separate converter with valves filter and output circuit and also wondering about the purchase of the Arcam Alpha 5, just to find out if all these differences between CD players or separated drives and converters I have been told or read about can really be heard and worth the bother and the expense.

Well, thanks again for your great magazine, its features, its reports and tests, the consulting and expert opinion and advice of the writers and journalists and the always interesting supplement; all this devoid of the "hi-fi nuts", naive jargon and equipment. Carry on, you are doing great!

**P. Fontaine
Evry,
France.**

CLEAR IMPROVEMENT

I managed to pick up an old

Kenwood P26 turntable for £45, a model they supplied with their midi systems. Even with the standard cartridge supplied, the sound quality was very smooth and richly textured compared to my Sony CD player, although the overall clarity was not so good. If this cheap turntable and cartridge could almost rival my CD player, then a Shure M75B (type 2) cartridge I found in a drawer could have great potential.

One slightly major problem that arose was of course that the Kenwood's supplied cartridge is held in by one small screw placed in the middle of the bracket on the end of the arm, unlike the Shure, which has the usual twin bolts. In the end I put a bracket across the top of the headshell, which secured the cartridge pretty well.

Then came the problem of weights. The Shure is considerably heavier than the cartridge supplied with the turntable, but I managed to find a weight from an old record player which was stuck on with blu-tack.

After cutting the automatic return system to pieces because it was cutting off before the end of the last track and slightly modifying the power supply I was ready for connection.

Amazing! I am aware that this is not exactly a high end cartridge but the sound compared to CD was brilliant. All the clarity of CD is present, yet with a sound that is not thrown at you so much but given to you in a smooth, refined way.

I am, as I mentioned earlier, only using budget equipment (NAD 3020A pre-amp section, home made MOSFET amplifier and Mordaunt-Short MS 5.50 loudspeakers) and feel that it would be daft to upgrade the mat the record sits on etc. when the upgrade compared to modern turntable may not sound so great, but then the upgrade cost me about 20 pence for two nuts and two

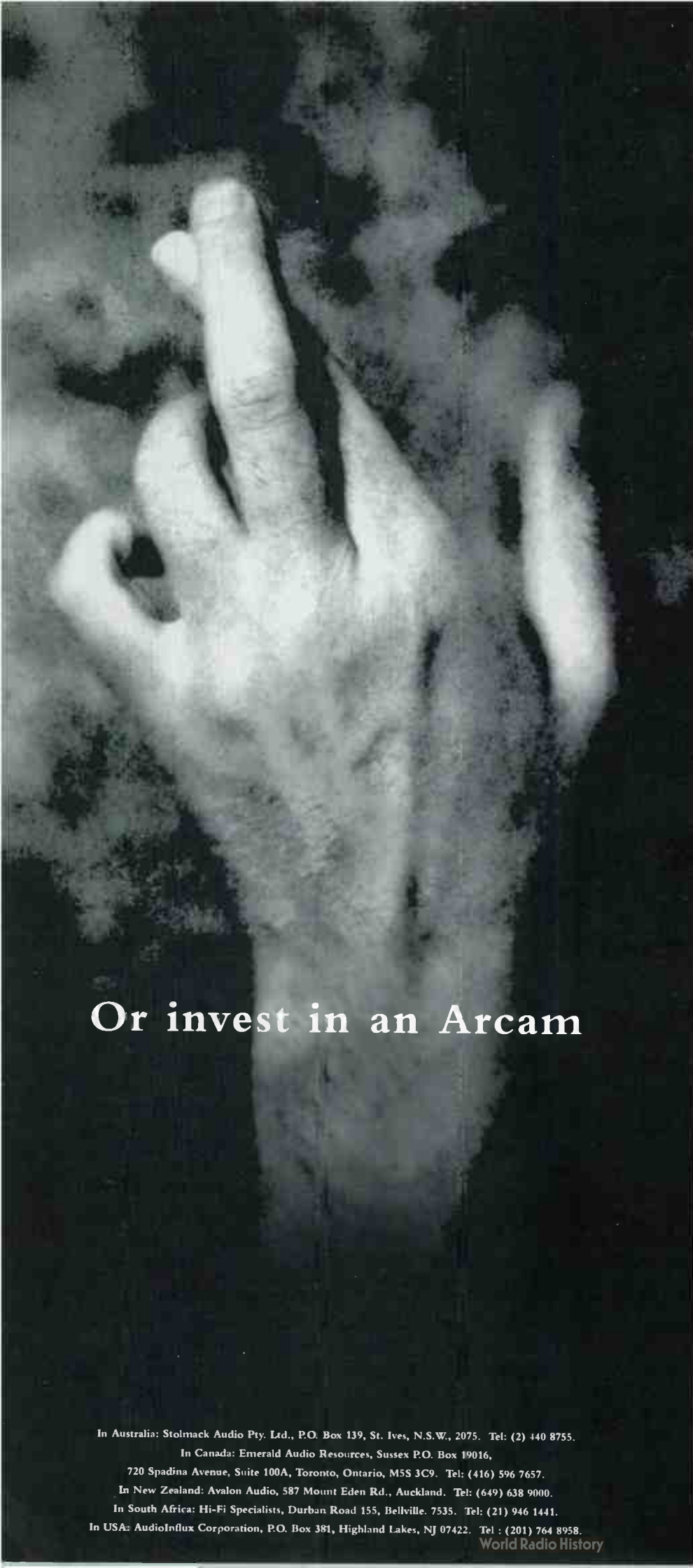
bolts and now sounds better than my Sony CDP-991 (costing £230).

Just to end on a lower note. I have been enjoying Hi-Fi World since April 1991 and have always liked the layout. Then the measured performances were all moved to the back of the magazine which is, I feel, a great shame. I always read the reviews with interest and then like to be able to have a look at the technical spec. I am aware this may seem trivial as the measured performance is still in the magazine, but I don't like having to fumble through the rear pages of the magazine to try and find the page with the measured performance on every time I have read a review.

**John Battersby
Teddington,
Middlesex.**

We weren't happy at this move either, but had to find more space up front in the colour section for pictures and copy. Test results do not need to occupy valuable colour space. Also, many readers don't like to see technicalities on the page. We've had complaints about "paying two quid for something I don't understand". We hope to be able to expand the magazine further in future and perhaps we will then be able recombine test results with the main review.

However, militating against this have been some huge increases in paper costs recently, roughly 30% in the first round at the end of 1994, with a further 20% threatened. This is putting a lot of pressure on magazine design and quality, at least if such costs are not to be passed on in raised cover price - something we've avoided ever since the magazine was started back in 1991.
NK



Or invest in an Arcam

You walk in to the Hi-Fi shop.

Across a crowded showroom, a Hi-Fi system catches your eye, then seduces your ear.

Infatuated, you pay your money.

Unfortunately, you also take your chances.

On the other hand, once the ear is wooed by the sumptuous sound quality unique to Arcam, a life-long love affair usually ensues.

Year after year, our dedication to sonic excellence is rewarded with top industry awards and, believe us, luck has nothing to do with it.

All of our Hi-Fi is produced at our Cambridge HQ, where it must pass the most rigorous set of tests, checks and double checks. Then, just when another quality Arcam product thinks it's safe to go into the loving arms of a new customer, we check it again.

We work hard to produce Hi-Fi separates of the highest quality, keeping construction simple and building in long service and reliability at every stage of production. So, if you're about to invest in Hi-Fi, invest in an Arcam. After all, we don't leave anything to chance.

Should you?



Return the coupon below to: Arcam, Pembroke Ave.
Waterbeach, Cambridge CB5 9PB, England.
Or telephone: (01223) 440964 (24 hours)

Please send me information on: (Please tick)

- Arcam amplifiers Arcam CD players
- Arcam tuners Arcam home cinema
- Arcam DACs all Arcam products

and the name of my nearest authorised dealer.

First Name(s).....

Surname.....

Address.....

Postcode.....

In Australia: Stolmack Audio Pty. Ltd., P.O. Box 139, St. Ives, N.S.W., 2075. Tel: (2) 440 8755.

In Canada: Emerald Audio Resources, Sussex P.O. Box 19016,

720 Spadina Avenue, Suite 100A, Toronto, Ontario, M5S 3C9. Tel: (416) 596 7657.

In New Zealand: Avalon Audio, 587 Mount Eden Rd., Auckland. Tel: (649) 638 9000.

In South Africa: Hi-Fi Specialists, Durban Road 155, Bellville. 7535. Tel: (21) 946 1441.

In USA: AudioInflux Corporation, P.O. Box 381, Highland Lakes, NJ 07422. Tel: (201) 764 8958.

World Radio History



PAST WITH A FUTURE?

**Dominic Todd compares Orelle's new
CD100 16-bit CD player to
1-bit competition.**

Orelle's latest entry level CD player, the CD100, follows on from the under-rated (and increasingly overtaken) CD480. It features the same new styling as Orelle's latest amplifiers, giving it a more distinctive appearance.

Internally, however, the CD100 shares much with its predecessor. The Philips 16-bit "Crown" chipset and swing-arm laser assembly were seen as passé when the CD480 was launched two years ago. There are no longer machines at this price range, that I'm aware of, still using the technology, making the Orelle unique. Despite this, it's a well proven formula and one that has produced some excellent results in the past. You can be sure that Orelle have retained their usual attention to detail in the power supply, output, filtering and screening.

Although its obvious rival will be Arcam, I selected a Marantz CD-63SE to play alongside the CD100. Although it's £150 cheaper, it goes without saying that

the Marantz has proved itself time and time again against machines of a supposedly much higher calibre.

From the first play of Andy White's 'Street Scenes' it was immediately apparent that this was a CD player from the "old school" of multi-bit design which isn't necessarily a bad thing. It was surprisingly smooth (more so than the CD480) and produced fine detail retrieval from the complex tracks too. Yet somehow it didn't manage to create the sense of space around instruments that the CD-635E does. The bass weight also didn't sound quite as authoritative as the Marantz.

Sound staging was a mixed bag. Vocals had excellent coherence, good projection and were free from the nasal harshness that can plague other multi-bit machines. But, overall, the sound seemed rather constrained, lacking the expansiveness of the Marantz and other more recent designs which defy the physical constraints of the 'speakers.

Suzanne Vega's 'Blood Makes Noise'

showed a slight veiling with the Orelle, highlighted by this female vocalist. There was good definition of the contrasting bass and electric guitar, although drums were not quite as incisive as they could have been. Again, the Orelle lacked the enveloping nature of the CD-63SE and wasn't quite as fulsome. Background noise was impressively low for a multi-bit machine, easily matching the Marantz here.

Vivaldi's 'Four Seasons' demonstrated most where improvements have been made over the CD480. Where the 480 could blur the lower bass notes, the CD100 was clean and precise. Violins also benefited from the Orelle's smooth, even nature. It made for a relaxing listen, yet despite good dynamics, the sound was once again constrained in terms of stage width. More's the pity, as the CD100 is capable of producing fine depth of sound.

There's much to be said for Orelle's evolutionary approach to developing their CD players (and hi-fi in general for that matter). The sound they've managed to squeeze out of supposedly redundant technology goes to show there's more to decent sound than the latest chipset. Yet despite this, and quite credible sound quality, it's not enough to put it ahead of the field. The Marantz CD-63SE and NAD 514 offer that bit more listener involvement for less money. Still, if you're next CD player has to be British, then the Orelle does offer a punchier alternative to the Arcam ●

Orelle CD100

£499

**Orelle Hi-Fi,
Unit 11, I-MEX House,
6 Wadsworth Road,
Perivale, Middx. UB6 7JD
☎ 0181 810 9388**

WORLD VERDICT



A smooth and punchy sound makes this British player one worth looking out for. Tough competition though.

**Measured Performance
see p113-121**

FLASH BACK



The retro styling of Galactron's pre/power amplifiers takes Dominic Baker on a trip back to the past.

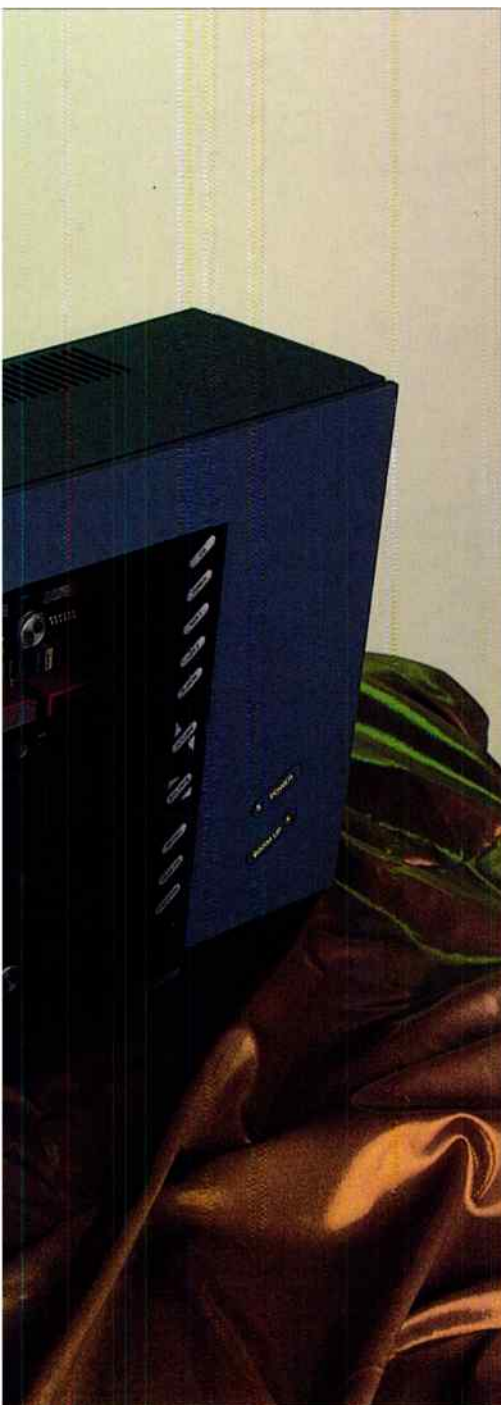
The Galactron MK 2016 preamplifier and MK 2121 power amplifier answer to that familiar styling cliché: 'love it or hate it'. I'm one of the latter and most friends felt the same. Set in a Seventies time warp, the Galactrons have a grey Nextel finish, red wood end cheeks and a perspex window through to a green LED lit circuit board. They are designed to stand upright, being taller than they are deep. Their saving grace is a full

feature remote control which allows them to be hidden from view.

It's hard to know where Galactron are coming from. Both preamplifier and power have balanced XLR connectors, and they do have a kind of 'professional' look about them. Indeed, they would fit in well next to an open reel recorder in a studio. But the remote control and literature both suggest that they have been aimed at domestic audiophiles.

The MK 2016 preamplifier has four

line level inputs, one with a facility for balanced connection, a tape monitor, headphone outputs in the form of two phono sockets and two sets of line outputs for power amplifiers. These are labelled high and low, corresponding to high-pass and low-pass filters for a bi-amplified system, but in the standard configuration our samples arrived in, both are wired as full bandwidth outputs. The power amplifier boasts 60watts output and both it and the pre-



amp have a flashing LED which stays on when warm-up is complete and they have reached optimum temperature.

One of the things that instantly characterises the sound of the Galactron MK 2016 preamplifier and MK 2121 power amplifier is a soft, warm balance. Whilst this can be most welcome with bright recordings or when partnered with less refined CD players, it was just a little too soft for my taste. Sheryl Crow's 'Strong

Enough', already quite a rich recording, verged on sounding dull; there was a loss of sparkle and extension in the treble. With mellow and smooth albums like this the Galactron makes the overall balance too laid back, softening transients and removing some of the sense of excitement from a performance.

On lighter, brighter material, like the Lightning Seeds' 'My Best Day' the Galactron was better balanced, but only marginally. Some of the sibilant edge to cymbals was usefully smoothed over to give a more rounded sound - good! Even here though, there was a noticeable lack of upper midrange and treble detail - bad! The bright upper harmonics of strings and cymbals were blurred and decay was over damped to give little real impression of acoustic space around performers - very bad!

To try and alleviate some of these shortcomings I decided a change of loudspeakers was in order. I had been using KEF's Reference 3s, which although sensitive enough to be driven by just a few watts of power, can present an awkward load to many amplifiers. Heybrook's Heylos, with their colder, more up-front balance fitted the bill nicely. Unfortunately, the improvement was only small and the Heylos highlighted other suspicions I'd started to form with the KEFs. Their forward midrange squeezed a little more projection and perceived detail out of the Galactrons, opening up the sound to a more satisfactory standard. Treble was still too soft and the bass was, well, curious.

With the KEFs, bass had sounded lumpy and indistinct, almost as if it was trailing behind the rest of the mix. With the Heylos it caught up a little, but bass notes remained ponderous and poorly defined. This was especially noticeable on the title track of Blur's Parklife. Here, where tempo and superstructure depend on the bass line, the Galactron

was far from convincing. Rather than the succinct, well timed piece of pop it should be, it became a rather dull mess.

Giving the Galactron another chance I moved to Suzanne Vega's simpler, and mainly acoustic first album. Here the it made a better stab at things. The acoustic guitar was clear and sounded tonally neutral, coming across as realistic. Vocals were improved, having a dryer, less muffled quality. Projection and detail could have been better, but on the whole I felt the performance seemed

to be more musical. The Galactron appeared to be confused by more complex music, favouring simple acoustic pieces where its shortcomings were less obvious.

If you like a warm sound and have a system that needs its treble taming, and if you can live with the styling, then the Galactron pre/power is worth seeking out. But personally, in a balanced system, I found the sound too dull and lacklustre to be inspiring - and I couldn't stand the styling! Seventies retro is not for me. I'm reminded that Aura's VA-80 is every bit as smooth, a little more balanced with it, has nearly as much power, and costs a fraction of the price. Galactron need to have a serious re-think if they are to be successful in the UK ●

Galactron MK2016	£1630
MK2121	£1200

MPI Electronics,
13 Weston Road,
Guildford, Surrey. GU2 6AU
☎ 01483 454993

WORLD VERDICT

Smooth, but dull balance makes the Galactron suitable for bright systems. Bettered by good integrations.

Measured Performance
 see p113-121

“too dull and lacklustre to be inspiring - and I couldn't stand the styling!”



readers' queries

SHURELY A CONNOISSEUR

I am lucky enough to live in the Derbyshire Dales, although the down-side of all the lovely scenery is that radio reception is rather difficult, which is compounded by the need to use an indoor aerial. Can you recommend a sub-£250 tuner that will give me the best chance of good reception?

My second question concerns a twenty year old Connoisseur BD1 turntable fitted with a Shure M75ED cartridge which needs replacing, and I was wondering what would be suitable. I find the M75ED too bright for my favourite modern jazz and classical music. Perhaps it would be better to replace the turntable with something more modern, or would it be worthwhile having the Connoisseur refurbished?

Finally, I recently bought a Musical Fidelity AI final edition, which I am thoroughly enjoying. However, neither the dealer or the manual proved very informative concerning the specification and history of the model. The manual specifies 40 watts per channel, but previous models were rated at 25 watts. Similarly, previous models were famous for running very

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.

hot, but mine only gets moderately warm. Do these changes indicate that the amplifier has been re-biased away from its original Class A to deliver the extra power? **Peter Cressbrook, Derbyshire.**

The NAD402 (£160) is as sensitive as anything we have measured recently and has super sound quality. In your predicament, this is the one I'd go for. Your closest transmitter is at Sutton Coldfield, about 25 miles away as the crow flies. There are relay stations at Chesterfield and Buxton, but these are much lower power (400W and 150W compared to the 250kW of

Sutton Coldfield) so I suspect you will be tuned to this main transmitter.

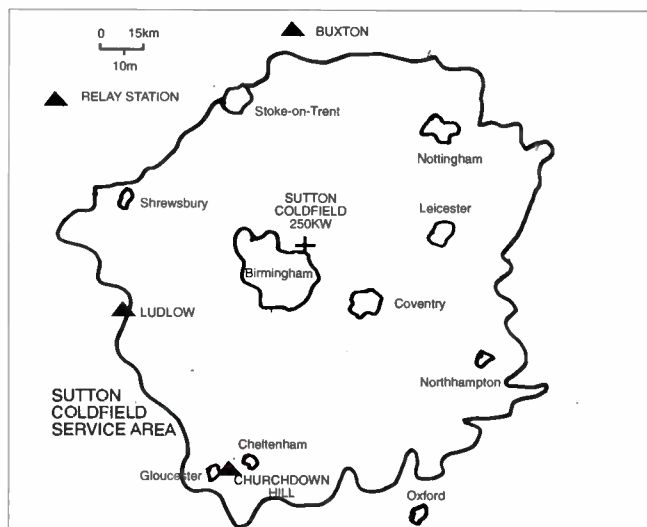
If it is possible, try a good 5-element aerial mounted in your loft. Ron Smith Aerials, Tel: 01582 36561, can supply a Galaxy 5-element aerial for around £49, which should give you more than enough signal. This will give the best results.

If you can't get an aerial in your loft, use a simple metal dipole aerial, which is best accommodated upstairs on top of a wardrobe, or in a stairwell, to gain height. There are many hi-tech indoor aerials around, but when we have tested them they come out no better than a simple dipole, the

only benefit being smaller size.

Also steer clear of aerial boosters. These are often misused, users expecting them to turn a weak distorted signal into a strong clean one. All they do is amplify the signal, so if it is weak and distorted on one side of the booster, it will appear strong but equally distorted on the other.

A warmer, smoother sounding cartridge for your Connoisseur, and one with super detail too, would be one of the Goldring 1000 series. These start with the 1006 at £49.95, and rise to £104.95 for the 1042GX. A good value and competent one to go for is the 1012GX at £64.95.



As your Musical Fidelity A1 final edition seems to run cooler than the original, and power has increased, it does suggest that it has been biased more toward Class B operation. However, we are not familiar with this product so your best bet is to contact Musical Fidelity direct. DB

VALVES IN S.O.H.O.

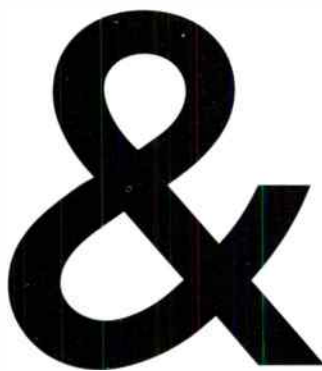
Your correspondence earlier this year concerning the venerable Mullard 3-3 amplifier prompted me to dust off and refurbish my own home-made example. I had forgotten what an easy, sweet sound was possible from so few, relatively low quality components. I would now like to re-install it as part of a

second system in my 13ft x 11ft home office /bedroom, linked to the Nakamichi DR3 robbed from my existing system.

What I would like to achieve is a low volume of high quality, mainly classical sound to serenade me as I pound away on the home computer during an evening (rather than room shaking,

wake the children levels). To this end, I would appreciate your advice on the selection of suitable speakers to meet this rather modest demand. As my desk looks out of a dormer window, the listening triangle is far from ideal. The speakers would probably have to be not so much bookshelf

Continued on page 55...



The writer of the most interesting system query will receive a free set of super Connections Jade interconnects.

o f t h e M o n t h

ON A WINNER

I was the lucky World reader who won the Epos ES25s from the July issue competition and very grateful I am. Thanks to all concerned with the competition.

I wonder if you could spare me ten minutes of your time to answer a few queries?

1. Can you tell me what equipment and cables were used to partner the ES25s.

2. Did you review them with spikes fitted or without, as I noticed the facility for spikes. If so, are the spikes unique to Epos and could I obtain them from Epos?

3. Why was there no 'World verdict on the ES25s, or is there one?

4. Do they have to be tri-wired and if so can you recommend a suitable cable to partner with my Quad 34-306, Meridian 206 with Roksan DAC-DAI.

I also sometimes use a Radford STA 15/III and SC22 pre-amp for amplification. Is the Radford capable of driving the 25s? My present speakers are Quad ESL-57s.

Brendan Woods
Tile Hill Village,
Coventry.

Sorry that the spikes were missing; we have posted you a set that will fit. The ES25s have super-tight, clean bass and the spikes are essential to exploit it fully.

I used the ES25s with a Deltec 50S power amplifier, which has its own special cables incorporating a feedback line. This is one of the cleanest and most transparent solid-state power amplifiers I've come across, but sadly it is no longer available. There is shortly to be a close replacement for the

50S, DPA Digital's 500S which will use a similar external feedback arrangement and DPA's unique hybrid op-amps. It may be well worth hanging on for this amplifier, which promises to be a cracker.

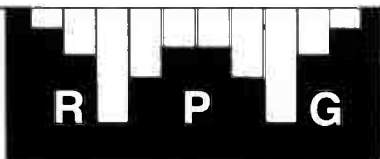
Your other option is Naim, which Epos use as a reference amplifier themselves. The NAP180 power amplifier has excellent dynamics and drive, and will control the ES25s, giving a powerful and dramatic presentation. If you can wait, audition this against the DPA 500S to see which you prefer.

There was no World Verdict on the ES25s because they were reviewed in the May '95 issue and this rating system wasn't introduced until July '95, but we'd give 'em Four (Globes, that is).

The ES25s don't have to be tri-wired, but if you do want to try this option, I'd recommend Ortofon SPK300 bi-wire cable for midrange and treble, and a single run of SPK500 for the bass. These are high purity copper cables that have a very clean and transparent balance. Remember though, if you do decide to use either the Naim or DPA amplifiers recommended above, they both have their own special cables.

The Radford wouldn't really drive the ES25s properly. It will sound OK at low volumes in a small room, but doesn't really have the power or control for higher levels in a larger room.

I hope this answers your questions, and allows you to continue enjoying your prize. DB



The music you hear in your Project Studio is distorted by interfering reflections and the room's low frequency modal response. Even the most sophisticated electronic equipment cannot overcome these acoustic problems. AcousticTools® is the first affordable integrated system which lets you realise the full potential of your hardware investment, Listen to the music not the room!

ACOUSTICTOOLS®

High-Performance, Affordable, Complete Room Solutions From
The Music Industry's Leading Acoustical Innovator

for PROJECT STUDIOS

Innovative Acoustics for the Digital Age

**RPG Europe Ltd.,
Unit G, Smarden Business Estate,
Monks Hill, Smarden, Kent TN25 8QJ
Tel: 01233 770291**

campaign audio design



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

We have Oxygen Free Copper interconnects (£12.48) up to Pure Silver cables (£120.00) and high definition

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

Valves, capacitors and transistors are all microphonic, they cannot perform optimally if vibrated. Our set of three Brass Isolation cones (£6.50) are worth their weight in gold - revealing low level resolution and dynamics hither to hidden beneath electronic noise. We also have a cure for your noisy fridge or central heating motor (£3.50), enabling you to throw away your big mains noise suppressor, which has been giving you that "sat upon sound" for years.

There's lots we can do to bring you closer to the emotion and energy of the performance. So confident are we, that we offer a 14 day money back guarantee.

Ring or write for details:-

**CAMPAIGN AUDIO DESIGN
Llandudno Road (HW)
Cardiff CF3 8PG
Tel:- 01222 779401**

Trade and International Enquiries Welcome.

RINGMAT

FOR RECORD LOVERS

First record support to be properly designed

"A carefully researched and innovative product which genuinely transforms analogue replay at nominal cost. The string bass was more dynamic, the separation cleaner and, more importantly, the phrasing of the music was more fluid - you heard the vocal line arch and fall." **Christopher Breunig (Hi-Fi News, September '93)**

"RINGMAT gave a sharper, cleaner, more solid sound, with better fine detail and clarity... RINGMAT 330 must be cost-effective, upgrades you can make to any turntable." **Jimmy Hughes (Audiophile, October '93)**

"All of a sudden, much more of the music, and the space in which it was performed, was evident. I'm sure that the legions of Linn and Rega owners out there who still play their LPs will want to make the modest investment required for a major improvement in vinyl play." **Andrew Marshall (Audio Ideas Guide, Winter 1993/94)**

"All theory aside, the RINGMAT really works." **Robert Deutsch (Stereophile, Vol.17 No.5 May '94)**

"Better than ever is what I have to report about the MkII.... Buy a RINGMAT and turn your AR into a killer table. It almost seems too good to be true." **Sam Tellig (Stereophile, Vol.18 No.1 January '95)**

"Essentially, RINGMAT helps give LPs the kind of firmness and stability normally only available from master tapes.... Given the excellence of the original RINGMAT, I was a bit sceptical about whether or not the MkII would provide a worthwhile improvement - it did!" **Jimmy Hughes (Hi-Fi Choice, February '95)**

"This product really does have to be heard to be believed. On most turntables the bass seems to instantly reach down an octave lower, with noticeably better control and extension too.... What's more, none of these improvements are ones you'd listen hard for and, as yet, I've found no adverse effects." **Dominic Todd (Hi-Fi World, January '95)**



RINGMAT continues to provide music lovers around the world with significant improvements in LP sound quality.

Have you tried RINGMAT yet?

But be warned; if you let your best friend borrow it, you will finish up buying another!

Prices

For nearly all turntables with tonearm height adjustment or a moderately thick mat: **RINGMAT 330 MkII £40.00**

For turntables without tonearm height adjustment and either no mat or only a very thin mat:

RINGMAT 200 (raising the record by about 1.8mm) **£27.50**

RINGMAT 250 (raising the record by about 2.4mm) **£30.00**

RINGMATS can be obtained through good Hi-Fi retailers.

There is an exchange and upgrade scheme for original RINGMATS.

For further information on the above or on the product generally, or for mail order (including VISA/MasterCard), contact:

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

... Continued from page 53

as corner of desk unless they were mounted on the walls to either side, or behind, firing back into the alcove! Is it possible to buy or build ultra miniature, possibly single cone, boxes to meet this requirement?

Also, do I have a potential RFI problem generated from the computer or screen? As I wish to move my cassette deck between systems as required, I would imagine this action might eventually weaken and degrade the output sockets. Would it be worth while constructing a "sacrificial" connector box in each system to take the strain of repeatedly plugging and unplugging interconnects?

David Smith
Twickenham,
Surrey.

In the UK's hyper competitive loudspeaker industry, it makes little sense to build your own budget miniature 'speaker. KEF Coda 7s, Mission's 760s, 731s etc are all small, high quality miniatures which are sensitive, which means you'll get reasonable levels in your office. For £120 or so these miniatures offer super sound.

The magnets from the drive units will interfere

with your monitor screen if they are too close; keep them around 18inches away to be on the safe side. If you are going to move your cassette deck around regularly, it may well be a wise idea to have a connection box as you suggest, I would. DB

RETIRE HEATH ROBINSON

Over the past few months I have been moving towards a decision to construct a valve amplifier such as the K5881 featured in Supplement 13, as part of a major effort to upgrade my old Heath-Robinson system that I currently enjoy (endure?)

As part of the upgrade programme I also wish to change my speakers to something that will offer a better level of sensitivity. In your second ever issue (April 1991) you published an offer for a horn loudspeaker kit (pages 96 & 97) that would be ideal for my needs. Could you please inform me whether full construction details of the design are available (or even if it is still possible to obtain a kit). Failing this, are there any suppliers who offer similar kits?

Dr Gareth Taylor
Gosforth,
Newcastle upon Tyne.

The kit featured in the

April 1991 issue of Hi-Fi World is no longer available, neither are the plans. It was in fact a truncated horn. Your best bet is to contact IPL Acoustics on Tel: 01373 823333 who have a range of modern, floorstanding TL designs available to the home constructor. DB

BASS-O-MATIC

I am searching for an active subwoofer with a frequency control and an electronic crossover that can create at 24dB per octave high-pass slope, if it exists! I would be happy to know if such a product exists. I am not a purist but am still keen for advice on how to obtain deep sub-bass. Should you suggest I have the thing built to spec., please advise me on companies with a mature knowledge and experience of building and tuning active hi-fi subwoofers.

Zygmund Balinski
Fulham,
London.

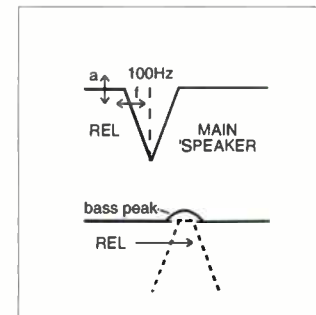
The closest thing I could find that looks like it might suit your needs, is REL's Strata subwoofer. You can vary the point where the subwoofer comes in between 30Hz and 120Hz, allowing it to be matched to a wide range of loudspeakers. This subwoofer also has a high pass filter, to limit the bass getting to your main loudspeakers and improve power handling. This is set though, and not variable.

Generally, to get the best results from a subwoofer you would use it in the following way. Move your main loudspeakers out into the room a little where they will create a greater sound stage and better images. Bass will also be cleaner and faster here, if a little weaker, which is where the subwoofer comes in. With the Strata you can tune the

crossover frequency and level until it blends harmoniously with your main loudspeakers. This may take some time, and you will probably still be tweaking the settings after a couple of days, but once set right, you should get terrific bass depth and power along with near seamless integration between the subwoofer and main loudspeakers.

Contact the Listening Room, Old Brompton Rd, Chelsea, who are the closest dealers to Fulham on Tel: 0171 244 7750. They normally have a REL Strata subwoofer in stock and will be able to demonstrate it and answer any queries you may have. DB

I can't emphasise how diligent you need to be about tuning, which is difficult. Start with lowest output from the REL, as well as lowest band pass

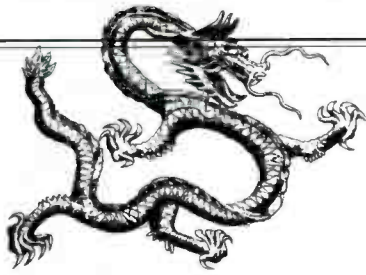


frequency, increasing both slowly. The REL will give you real bass straight away, but what you are aiming for is to integrate it seamlessly with the main speaker, which is the difficult bit. If frequency (f) is set too low, there'll be a gap between REL bass and main speaker bass, which will give "detached" sounding bass. If you tune the REL up in frequency too far though you'll get a heavy one-note thud. It's best to keep level (a) down

Continued on page 61...



MULLARD'S ORIGINAL 3W CIRCUIT PROTOTYPE



Golden Dragon

RETAIL PRICE LIST

Golden Dragon Pre-Amplifier Tubes		Singles
6AQ8/ECC85		£6.50
12AT7A/E81CC/ECC81		£6.95
12AU7A/E82CC/ECC82		£6.95
12AX7A/E88CC/ECC83		£6.95
6DJ8/E88CC/ECC88		£10.95
6SN7GT/ECC33		£8.95

Special Quality Golden Dragon Pre-Amplifier Tubes

Singles	
E81CC-01 Gold Pins Low Microphony Low Noise	£10.50
E82CC-01 Gold Pins Low Microphony Low Noise	£10.50
E83CC-01 Gold Pins Low Microphony Low Noise	£9.50
E88CC-01 Gold Pins Low Microphony Low Noise	£14.50

Golden Dragon Triodes

	Singles	Pairs	Quads
2A3 4PIN	£22.50	£50.00	£100.00
2A3 OCTAL	£22.50	£50.00	£100.00
211	£28.50	£60.00	£120.00
811A	£11.50	£25.00	£50.00
845	£36.50	£75.00	£150.00
805	£36.50	£75.00	£150.00

Golden Dragon 300B Range

	Singles	Pairs	Quads
300B Super	£79.00	£160.00	£320.00
4.300B	£84.00	£170.00	£340.00
4.300BLX Super	£124.00	£250.00	£500.00

Please enquire of any tube types not listed. We have an inventory of over 2,500 different types in stock.

Golden Dragon Power Tubes

	Pairs	Quads	Octets
EL34/6CA7	£25.00	£50.00	£100.00
E34L	£29.95	£60.00	£120.00
EL84	£8.95	£19.00	£38.00
E84L	£12.50	£25.00	£50.00
6L6WGB/5881	£25.00	£50.00	£100.00
KT66	£25.95	£52.00	£104.00
KT88 (New Design)	£57.95	£116.00	£232.00
KT88 Super (Laminated)	£67.95	£136.00	£272.00
6L6GC	£19.95	£40.00	£80.00
6550A	£42.95	£86.00	£172.00
6550A Special (Gold Plated)	£64.95	£130.00	£260.00
50CA10	£84.95	£170.00	£340.00
807	£25.00	£50.00	£100.00
KT66 Super	£65.00	£130.00	£260.00
KT90	£65.00	£130.00	£260.00
KT90 LX	£75.00	£150.00	£300.00

Ceramic Sockets and Hardware

	Standard	Gold Plated
Locking 4 Pin (300B etc.)	£6.95	£15.00
4 Pin UX4 (300B etc.)	£2.5	£3.50
Jumbo (211 etc.)	£12.50	£25.00
Octal Chassis (EL34 etc.)	£1.25	£3.50
Octal PCB (EL34 etc.)	£1.25	£3.50
B9A Chassis (pre amp)	£1.25	£2.50
B9A PCB (pre amp)	£1.25	£2.50
Screening Can & Skirt (pre amp)		£8.50
Damping Can (pre amp)		£4.50
Power Valve Retainer (EL34 etc.)		£5.50

NEW FROM

Golden		Dragon
274B		£14.50 each
350B		£29.95 pair
EL156 Octal		£75.00 pair
EL34 Super		£25.00 pair
EL34M		£25.00 pair

Carriage charge £2.50 on any U.K. order. Cash with order or Visa - Mastercard accepted. 24 Hour Answerphone Service.

We have a vast range of tubes available from manufacturers all over the world including rare and vintage types. A 70 page booklet of valves available is updated monthly and can be provided at a cost of £2.50 per copy including U.K. postage or you may telephone our Sales Desk for a prompt quotation. Prices exclude

A selection from our stock of over 2,500 different audio quality valves. Please enquire for items not listed

ECC81	BRIMAR	4.50	M8162/ECC81	MULLARD	8.50	12AT6	BRIMAR	2.50
ECC81	TEONEX	3.50	M8137/ECC83	MULLARD	24.00	12AV6	RCA	2.50
ECC82	TEONEX	3.50	0A2WA	TEONEX	4.50	12BA6	WESTINGHOUSE	3.50
ECC83	TEONEX	3.50	PCC88	BRIMAR	3.50	12BH7A	USA	12.00
ECC85	TEONEX	3.50	PL36	MAZDA	3.50	12E1	STC	15.00
ECC88	TEONEX	4.50	PL519	THORN	5.95	13D3	BRIMAR	6.50
ECC88	BRIMAR	4.50	TT100	GEC	65.00	85A2	MULLARD	6.50
ECF82	RCA	3.50	U19	GEC	8.50	300B	TEONEX	50.00
ECL86	TEONEX	3.50	UCC85	MULLARD	3.50	807	TEONEX	6.50
EF86	TEONEX	4.50	2A3	TEONEX	15.00	1625	RCA	6.50
EF804S	TELEFUNKEN	36.00	5Y3WGTA	SYLVANIA	4.50	5687	USA	6.50
EL34	TEONEX	6.50	5V4G	BRIMAR	3.50	5814A	GE	5.50
EL86	MULLARD	4.50	6AG7	RCA	3.50	5881	USSR	6.50
EL504	TEONEX	3.50	6A7G	RCA	8.50	6072A	USA	8.95
EL519	PHILIPS	15.00	6B4G	TEONEX	29.50	6146B	TEONEX	8.50
GZ32	MULLARD	8.50	6C8G	RCA	3.50	6158	BRIMAR	6.50
GZ37	MULLARD	4.50	6K7G	RCA	3.50	6189	SYLVANIA	4.95
GZ34	TEONEX	5.50	6L6GC	TEONEX	4.50	6189W	GE	5.95
G237	GEC	5.50	6SN7GT	TEONEX	4.50	6201	GE	6.50
KT66	TEONEX	6.50	6V6G	RCA	6.50	6463	USA	4.50
KT88	TEONEX	12.50	6V6GT	TEONEX	4.50	6550A	TEONEX	12.50
M8136/ECC82	MULLARD	8.50	6X4	TEONEX	4.50	6870	BRIMAR	11.50

**EXPORT WELCOME
CARRIAGE AT COST**

P.M. COMPONENTS LTD., Springhead Enterprise Park, Springhead Road, Gravesend, Kent DA11 8HD, England
Sales Desk Tel: 01474 560521. Fax: 01474 333762

FIELDING SBM

When the instruction manual turns out to be twice the size of the machine it describes, you know you've stumbled across a serious piece of kit. Such is the case with the Sony TCD-D7 portable DAT recorder. Designed to faithfully and noiselessly record speech and music in full blown 48kHz digital audio, the D7 is definitely not a toy.

Imagine the glee on my face when our gift bearing Editor presented me with not only this Walkman sized DAT, but also the *only* SBMI (portable Super Bit-Mapping processor) in the country. Armed to the teeth with a two track microstudio which could make Trevor Horn weep, I set out to do some serious recording.

My first stop off was on location in a large wheat field in rural Kent. I came away with a surprisingly transcendental recording of summer sounds: birds, insects and the obligatory drone of a distant tractor.

The second stop was a rehearsal session of the anti-fashion Reading band, Acoria. Eddie, the extremely talented Yamaha-endorsed guitarist, thrashed his wieldy axe, backed up by the thunderous drumming and bass of the ass-tight rhythm section. Karen's

Recording engineer Douglas Floyd-Douglass takes to the field(s) to test out Sony's latest amazing techno-toy, the portable SBMI processor. Does it improve the sound of DAT?

gripping vocal power dominates this really fresh outfit, the Sony D7 loving the outing. Partnered with the SBMI, near professional results



were a doddle. The functions are so straightforward, and once you set a sensible level it does the rest, with no noise or distortion to speak of.

Although recording on a rather limiting semi professional condenser microphone, the live sound and feel was extremely well preserved, and the music setting (which I presume has a roll-off at about 80-100Hz) worked

well. I had deliberately set the recording levels really low, to avoid any possible clipping and allow for maximum headroom. Acoria are not decibel shy, and despite the high levels, the D7 coped admirably.

Finally, I recorded an interview with the band in long play mode (operating at 32KHz). SBM does not work below 48kHz, but this is not of any real consequence when recording dialogue. Playback was vastly superior to the run of the mill Dictaphone, and I am sure

New at the S.O.

- ◆ **Naim CD2** the eagerly awaited replacement for the CDI. Plus the latest SBLs
- ◆ **Micromega Tempo** New upgradable amplifier series and the latest Drives and Dac
- ◆ **Densen Amplifiers** from Denmark. Powerful, musical and totally affordable
- ◆ **Audio-Research D-130** On demonstration with the LS7/VT60 and the LS3/D200
- ◆ **Martin Logan SL3.** Just over £3000. Superb sound from the latest hybrid Logan
- ◆ **Arcam Alpha 6** The new CD player PLUS the new 5+ and 6+ amplifier upgrades
- ◆ **Copland CSA14** Integrated amplifier. CSA303/CTA505 65 watt pre-power amps PLUS the first Copland CD Player
- ◆ **Project 6** With the Sumiko arm and Ortofon MC cartridge Simply the best turntable under £1000
- ◆ **Sonus Faber** The updated Amator. Minuetto, Electa and Minima Amator, all on demo
- ◆ **Floorstanding Speakers new on demonstration.** The Epos ES22, Heybrook Heylo, Neat Mystique, MT Kestrel PLUS the latest versions of the Rega Xcel, Heybrook Sextet and Castle Howard

Real Hi-Fi in the City

THE SOUND ORGANISATION
London Bridge

0171 403 2255



IT'S ALL HEAR!

WHATEVER YOUR
BUDGET YOU'LL FIND
THE BEST-SOUNDING,
BEST VALUE HI-FI TOWN
..... RIGHT HERE



94 BRISTOL STREET
BIRMINGHAM
B5 7AH

0121 692 1359

Tues-Sat 10am-6pm

Audioplus

Many of today's audio cables are simply not designed for true high fidelity performance. **M**any require an unlimited budget. **A**udioplus provides audiophiles with the best of both worlds.

Through ceaseless research we have arrived on new fundamentals silver plating OFC, balanced construction, noise reduction network, Even-Litz theory for offsetting skin effect, etc. **N**ow the most advanced technologies combined with a reasonable cost will draw the art of listening into a brave and new pioneering world.

Exclusive Sole European Countries' Distributors Wanted. No Huge Quantity Needed!

Worldwide Exclusive Sole-Agent:

Nation Electronics

39, Genting Road, Singapore 1334. Republic of Singapore.
Tel: 65-841-2122 (4 Lines) Fax: 65-841-2022, 841-6602

every self respecting business person would want to encode their next meeting with the D7. Line recordings were acceptable, although not in the same league as the counterpart studio Sony DTC-60ES.

The portable SBMI proved

with a 120 minute tape. This is ideal for long conferences (and brilliant bootlegs, if you manage to discretely tuck the D7 into your sporran or bra!).

In standard mode, recording time is the usual two hours. All recording levels are operated manually, either in pre-set mode or

manual/variable.

The D7

the effect of an improved signal to noise ratio as well as a significantly improved dynamic range (Sony claim up to 10dB improvement!).

Sony's SBMI is a black box that really works. It is an effective recording tool and a perfect partner to the D7. This should make it a firm favourite among journalists, A&R people, recording engineers, bootleggers and even a few fortunate men in grey who need to decode digital minutes ●



an invaluable accessory, especially when recording music. The SBM results were vastly superior to an unprocessed comparison, which sounded dry, clinical and edgy. The SBM process, in a nutshell, really works -

adding life, warmth and musicality. There is no 'dithering' or masking in this process, and the sound is certainly superior to other '20 bit' processors I have heard.

The D7 has a cool, purplish back-lit LCD display which has all the functions clearly laid out in a sensible and practical fashion. Despite the compact size of the D7, I was pleased that the main function buttons were accessible and had a positive click-on/click-off response. The machine weighs in at just over 500grams, yet it conceals some pretty impressive electronics. The D7 can provide up to four hours of recording time in long play (LP) mode when used

provides a clot-proof 3-way selector to optimally set the mic eq and recording levels. There is a 20dB pad for attenuation of excessive levels (jumbo jets, bands called 'Acoria' etc.).

The anti roll mechanism works really well, and despite my best attempts at vigorous air drumming, the music programme remained intact. Perfect for those early morning jogs through Regent's Park, without the cumbersome weight of a 48 channel recording studio - but with all the sound!

The SBM process moves unpleasant digital 'quantising' noise out of the audible spectrum, so you can, in effect, no longer hear it. The effects are quite dramatic and most effective. The perceived benefits are that the wave appears to have been 'rounded off', giving a more analogue, musical feel. Low frequency noise disappears, giving

Sony TCD-D7 £410.00
SBMI £399.99

Sony UK Ltd.,
The Heights, Brooklands, Weybridge,
Surrey KT13 0XW
☎ 01932 816000

WORLD VERDICT 🌐🌐🌐🌐

An affordable wonder-toy that successfully brings a more analogue sound to DAT.

Measured Performance
see p113-121

IN THE DECEMBER ISSUE

Bursting at the seams with tasty equipment, the December issue shouldn't be missed by any serious audiophile or music lover. As always, there'll be plenty of features and useful advice to guide you towards the right choices. Here's what we hope to bring you in the next instalment of *Hi-Fi World*:

McINTOSH CDM7009 CD PLAYER

Another scoop for *Hi-Fi World*, we bring you the first review of this impressive £2395 integrated CD player from American giants McIntosh. Eric was grinning from ear to ear after listening to this one, so it's well worth watching out for.

KEF CODA 8

The second loudspeaker to join the smaller 7 in KEF's Coda range is the Coda 8. At £179.95 this one is a bigger, beefier version of the miniature 7, with a larger bass driver and cabinet for more extended bass. Claimed sensitivity is a very high 91dB, so we're hoping for a fast and detailed sound.

SUGDEN OPTIMA SYSTEM/CASTLE SEVERN LOUDSPEAKERS

A classic British system comprising Sugden's Optima CD player, Optima 140 power amplifier and Castle's Severn loudspeakers. A simple, stylish system for the dedicated audiophile, it promises top notch sound quality.

VAN DEN HUL GRASSHOPPER IV MC CARTRIDGE

A legend amongst cartridges, the £3450 van den Hul Grasshopper IV is regarded by many analogue aficionados as the best

cartridge ever made. We've finally managed to get the UK importers to put one into our eager hands and will bring you our verdict in the next issue.

CHARIO ACADEMY ONE LOUDSPEAKERS

Using super quality drive units and solid walnut cabinets, the Chario Academy Ones certainly look the part. We take a long listen to these luxury miniatures from Italy.



ROKSAN SYSTEM

Roksan's latest line up of hi-fi separates form a top class one-name system. The system comprises the latest Radius turntable, Atessa CD player, L2.5 preamplifier, S1.5 stereo power amplifier and Ojan 3X loudspeakers.

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

.... Continued from page 55

a bit and tune up and down (f) until integration occurs subjectively. Then set bass level afterwards. NK

78s - DIE SCHALLPLATTEN PROFII!

My Technics SE-A7 power amp delivers 2x90watts/4 ohms or 2x66watts/8 ohms. In the eighties, it was one of the darlings of the German hi-fi press. Maybe I shall look for a used counterpart, as the SE-A7 can be bridged for use in pairs. I'm looking for a turntable with 78rpm, because I have a lot of shellacs collected by my parents from the thirties to the early fifties! What do I want?

(1) A phono amp with correct equalisation for both a shellac cartridge and for a normal MM/MC pickup.

(2) A preamp without phono amp and headphone socket, but with defeatable tone controls.

Naturally, this preamp should match my power amp, which I hope you are familiar with.

**Ralf Lauer
Idstein,
Germany.**

Unless you are prepared to build a phono preamplifier yourself, you are going to be limited in choice. There are many circuits available for designs that incorporate the correct e.q. but most of them are valve designs from the sixties. If you are interested, books with such circuits include *Mullard Tube Circuits for Audio*, and *Audio Anthology Volume One*, which has a circuit for variable e.q. control allowing you to balance each record you play, however it was recorded. A simpler approach would be to purchase a Quad 22 preamplifier. These were manufactured between 1959 and 1967 and can still be

repaired and restored by Quad. Call Quad on Tel: 01480 52561.

As far as we know there are no modern commercial designs around that offer both normal RIAA e.q. for LPs, and correct e.q. for 78s. *Michell Engineering* may be able to supply a version of their Iso phono preamplifier set for 78s, but you won't be able to switch to RIAA e.q. for your LPs. If you are interested though, give *Michell* a call on Tel: 0181 953 0771. DB

Mullard said, in their 1959 book *Circuits for Audio Amplifiers*, "The recording characteristics used by the different recording companies before 1955 followed an approximate constant-amplitude curve, but the differences were large enough to make equalisation a matter depending greatly on the records to be played. Examples of the playback characteristics of the major recording companies are shown in the diagram. In 1955, however, the majority of these companies agreed to adopt the characteristics of the Recording Industries Association of America (RIAA)."

The companies listed are Decca, EMI and RCA, as well as the AES (Audio Engineering Society) and NAB (North American Broadcast association). You may well find German record companies used their own recording curves for 78s. One of these published curves should give approximately correct results though. NK

ISLAND LIFE

I am looking to purchase an amplifier and speakers for about £4000 and have considered the AVI, LFD PA2 & passive, Sugden S1, Audio Synthesis Passion (and suitable power amp), and Ruark

Equinox or ProAc Response One speakers. My existing front-end is a Pink Triangle Cardinal/Da Capo (1307). What do you think the most synergistic combination would be?

I would prefer stand-mounting speakers though I would consider compact floorstanders if need be. The room is 27' by 17' but because it's open plan, the listening area is a relatively compact 14' by 12', and so the speakers need to be positioned close to the wall. I will shortly be visiting York and Edinburgh where I'll try to do some auditioning, so your advice would be appreciated.

**Mark Coles
St. Helier,
Jersey.**

£4000 is a considerable amount of money to spend, so what ever you do make sure you get an audition and listen carefully. You appear to be looking at solid-state amplification, in which case an audition with *Michell's Alecto* stereo is essential. It has a very smooth, rich sound with fantastic sound stage depth and width which will compliment the *Da Capo* well, allowing it to show its true potential.

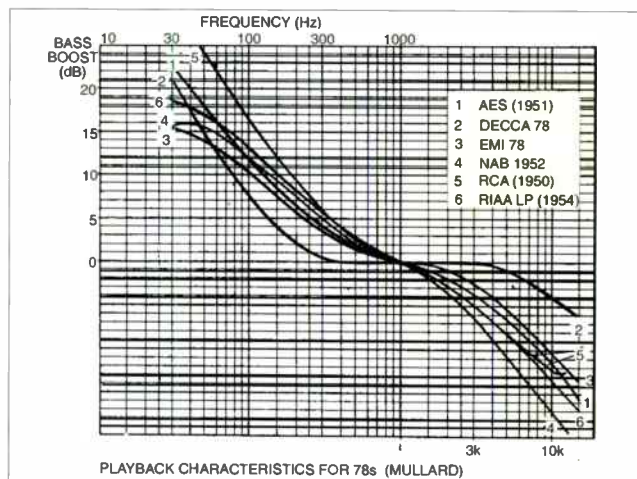
If you are only going to use CD, your choice of *Audio Synthesis Passion* is ideal, having a very transparent sound that imparts virtually no colouration of its own. If

you are also going to be using a tuner or tape deck with lower output, the *Alecto's* 600mV input sensitivity may cause a problem; in this case audition *Michell's Argo* preamplifier.

There are several loudspeakers to recommend, but which one really gels with your system and room can only be found by home audition. The *ProAc's* are well engineered, having a fast, detailed and open presentation. Also worth a serious audition at this price level are *Spendor's SP7/1s*, which have a coherent and focused sound. Their tight, dry bass favours near-wall placement which should suit your situation well.

Because you are in Jersey, I'd listen long and carefully first in a dealer's demonstration room and decide which combination you prefer. Then arrange for a home trial period so that you can check that the 'speakers match well with your room, giving you the option to re-think if they don't.

Whilst we're on the subject of matching a loudspeaker to a room, you would be well advised to read up on the tips we've given on room acoustics over the last year. The difference this makes can be worth thousands on an upgrade. DB



Audiolab 8000C Pre-amplifier

Audiolab 8000P Stereo Power Amplifier



With the introduction of Z⁹ TECHNOLOGY Audiolab is revolutionising conventionally accepted standards for sound quality and performance.

Through the innovative application of advanced technology we have created two remarkable new designs – the Audiolab 8000Q Pre-amplifier and the 8000PPA Phono Pre-amplifier.

They represent the most significant advance in Hi-Fi amplifiers since the original Audiolab 8000A Integrated Amplifier took the Hi-Fi market by storm nearly 10 years ago.

Ask your Audiolab dealer for a demonstration.



- 8000A Integrated Amplifier
- 8000C Pre-amplifier
- 8000P Stereo Power Amplifier
- 8000M Monobloc Power Amplifier
- 8000T Tuner
- 8000Q Pre-amplifier
- 8000PPA Phono Pre-amplifier
- 8000CDM Compact Disc Transport
- 8000DAC Digital-Analogue Converter



For more information about Audiolab products and details of your Audiolab dealer, call or write.

AUDIOLAB

Cambridge Systems Technology Ltd
Spitfire Close, Ermine Business Park
Huntingdon, Cambs PE18 6XY

Telephone 01480 52521
Fax 01480 52159

We've felt for some time that loudspeakers - meaning British loudspeakers - were becoming progressively less attractive. Not only that, but new model improvements have been shrinking to insignificance. A good shake up in ideas and outlook is needed, a return to more imaginative engineering. Competition is supposed to elevate standards across the board and it has arrived from Japan, courtesy of Technics with their new SB-M300s, reviewed in this issue. Will this 'speaker, and others in Technics' range, provide the sort of stimulus needed? Let's see what Technics have done.

kaleidoscope

Reflections
from Noel
Keywood

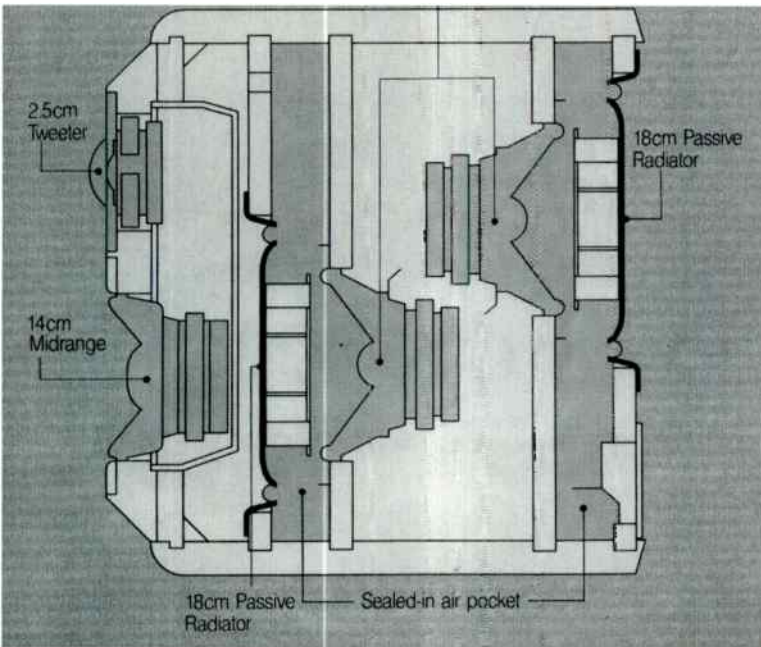


cabinet behind. But there's a lot hidden inside its 220mm wide, 365 high by 335mm deep dimensions. In fact, this is a three-way loudspeaker

cleverly reversed coupled-cavity arrangement. "I worked on this principle when I first came to KEF, back in 1979," he told me. "I believe Elipson of

point: here's a way of meeting an explicit market demand, with great sales potential in the Far East. Granted, Harbeth, Rogers, Systemdek and ProAc all make high quality miniatures that sell like Smarties overseas, but at home they are priced above the SB-M300s (with one exception) and it's arguable as to whether they have the bass quality - depth in particular - of the Technics 'speakers.

British speakers are, by way of contrast, always simple two-way designs, whether aimed at overseas markets, or the cost-conscious home market. I suspect habit and the availability of prodigious computer power for conventional box design has something to do with this inertia too. It will have taken a lot of effort by Technics to get the SB-M300 working properly and they may well have written their own computer design software to juggle with all the parameters, likely working from Laurie Fincham's 1979 research paper. Manpower is the key here and a company the size of Technics has vast resources; I'll never forget visiting their anechoic chamber in Japan. It was big enough to take an orchestra - and sometimes it does! That's what lies behind a product like the SB-M300.



Technics' cut-away diagram gives a glimpse of the SB-M300s' complex construction.

The current formula of a box with two drivers is now standard fare in Britain. It's as cost-effective as possible, a fact that I'm sure won't surprise you. The arrangement is simple and it's been tied down tight in terms of understanding through weight of research.

You might think Technics SB-M300 is no different, having two drivers on a small front baffle, with a tubby

with two bass units hidden internally.

Technics' cutaway diagram, reproduced here, shows that the midrange unit has a small rear chamber around it. Behind it lie no less than two Auxiliary Bass Radiators (ABRs), each one the equivalent of a port, and two bass drive units. Intrigued by what Technics could possibly be up to here, I asked KEF. Designer Ric Ceconi identified immediately a

Technics have sought to fulfil a perceived market requirement with this design, one I've been ruminating about over the last year or so. It is to produce a small loudspeaker with a large performance, which means generous bass. Far East markets in particular have a voracious appetite for such a beast. I have a solution to this problem too, which is why Technics' 'speaker was so interesting to me.

It illustrates my first

Continued on page 69...

SUMO

The Power of Music.



THE ARTEMIS

Sumo presents the Artemis, a totally new concept in preamp design featuring :

ANNOUNCING THE GOLD VALVE AMP RANGE.

THE GOLD PRE-AMP
THE GOLD MONOBLOCK POWER AMPS

other SUMO solid state power amps

THE FIVE

ANDROMEDA III
POLARIS III

other SUMO solid state preamps

ATHENA II

SUMO digital equipment

AXIOM

THEOREM II



The new Ten/M monoblock, featuring the most advanced Class A balanced circuitry in Sumo history.

Electrostatic
Research

AUDUSA & Co.

L A T INTERNATIONAL
World Class Cables Made in U.S.A

Loricraft Audio

Specialists in Garrard, Thorens and SME.

• New 1995 catalogue available •

Fax /
Ansaphone: **01488 72267**

Suppliers of Art Audio Amplifiers, Goldring, Ortofon, & SME

PSU II Power Supply

Now in its second year of production PSU II mkII is a power supply that mimics a perfect mains supply, allowing Garrard 301/401 TD124 to be used anywhere in the world, and was developed as a result of our more technically minded customers requiring a more advanced PSU over our successful active PSU I. Whilst PSU I cleans and reshapes the incoming wave form PSU II generates a low distortion wave form which is both voltage and frequency stable. PSU II can also be used with CD players pre amps and tuners .

PSU I £149.00 PSU II £400.00

Supply and service of Garrard, Thorens, and other high

quality turntables using genuine and newly manufactured parts to original specifications.

Also manufacturers of the world's finest Plinth for Garrard 301/401 Thorens TD124 now with 5mm covers and finest hinges if required.

Loricraft PRC 1 Record Cleaning machine as used by the professionals. Please send for details.

Loricraft Garrard 401s with SME arms and record cleaning machines are in use with recording studios and record dealers.

T.M. O'Sullivan

4 Big Lane, Goose Green Lambourn,
Berks RG17 8XQ



HEYBROOK

HEYLO - £389

"They have a level of clarity in their sound and a quality of finish that few match at this price level."

Hi-Fi World October '95

Please send me details of the Heybrook Heylo

Name Address

.....

HEYBROOK HI-FI LTD, ESTOVER INDUSTRIAL ESTATE, PLYMOUTH PL6 7PL
TEL: 01752 731313 FAX: 01752 733954





DACcomplished

Eric Braithwaite finds himself an instant convert to Prosody's new high-end DAC.

Digital-analogue convertors appear to be aligning themselves on either side of a sonic fence these days. The choice is between the visceral and the elegant: either grab 'em in the guts and twist, or lay 'em back and seduce 'em with wine and soft back lighting. The Prosody DAC is of the former tendency, though not as markedly as DPA.

Try The Cranberries, for example, and Dolores' voice flowed right out of the speakers into the living room, with the band following hard and rhythmically on her heels in a concert-stage performance. The unashamed viscerality, albeit moderately judged, was a decided benefit on PM Dawn's 'So On and So On', which punched well out of the speakers. The Prosody put emphasis on the rhythm and the flow of the music. While it made the mix sound like three cohesive tracks, the Audiolab 8000DAC concentrated on unravelling the multitrack recording like a kitten does knitting.

There is enough elegance for the subtleties of classical music as well. In the Adagio of Mahler's Ninth, the orchestra was extremely well spread across the soundstage, second violins a touch forward, but with a good impression of dynamic strength from the bandmen behind as well. There

was a good warm feeling from the bass, too, like adding Bisto to the gravy on a cold Sunday. Double basses and timps were not as cleanly defined as the Audiolab, but the bassoon, often hardly noticeable in the more academic DAC, came over with just enough emphasis to recognise that composers do ask the poor man to play more than the occasional raspberry.

Only two minor niggles accompanied an otherwise excellent tonality and timbre. The BPO second violins had a slightly non-stick silicon paperiness of tone, not very distracting, but more evident on a solo violin's transition to top notes, while the firsts didn't quite rise to the climax eight minutes into the Adagio.

It was Dylan's folksy 'Good As I Been To You' which rather gave the game away about some very attractive sonic tweaking. In this he is more afflicted with sore tonsils than ever, and the Prosody had his voice just a touch too croaky and nasal, but on the plus side, with the guitar splendidly tight and melodic and acoustically warm. Commendably lucid and clear, the Prosody is among the best in its class. It gently bends a few rules in the pursuit of musical pleasure, yet is among the most adept at its price.

One rule it breaks. It has a whacking

great 3.88V output. The brochure, says it will 'reproduce the most dynamic sound with the best transitory response'. Well possibly, but Philips' Red Book standard says the output ought to be 2V. Can we stick to it? One more grumble. If the single selector knob is supposed to switch only between a single coaxial and a single optical input, why should it click round ten positions? This is not the least frustrating way to travel to a sound. At least when we did, it was well worth the journey ●

Pros Audio DAC

£699

**Pros Audio,
14 Montague Drive,
Coulsdon Road, Caterham,
Surrey. CR3 5BY
☎ 01883 3419351**

WORLD VERDICT



A fine musical performance makes this idiosyncratic CD convertor worth searching out.

Measured Performance
see p113-111

WIN ONE OF 15 PAIRS OF WHARFEDALE VALDUS LOUDSPEAKERS!



Yes, the headline does say 15 (that's fifteen) pairs of loudspeakers, worth over £2000 in total, are up for grabs in this month's competition. Wharfedale, based in Leeds is one of the best known loudspeaker manufacturers, and has recently launched an entirely new line up of five loudspeakers dubbed the Valdus range. All use light, and sensitive paper drivers and soft dome tweeters for a fast and detailed sound.

THE PRIZES

- 1st Prize - A pair of Wharfedale Valdus 500 loudspeakers worth £299.95. These three-way floorstanders use three 8" drivers, two for powerful bass and one for clean and open midrange. They are super sensitive, so will give a loud and powerful sound with just a few watts.
- 2nd/3rd Prizes - Wharfedale Valdus 400 loudspeakers worth £199.95. Again a powerful floorstander, the 400s are a three-way design using an 8" bass driver,

- 8" midrange and a soft dome tweeter mounted in an elliptical horn to improve dispersion and stereo imaging.
- 4th-6th Prizes - Standmounting Wharfedale Valdus 300 loudspeakers worth £149.95. These medium size standmounters use an 8" bass driver in a two-way reflex design, for a powerful sound from a compact enclosure.
- 7th-10th Prizes - Wharfedale Valdus 200 loudspeakers worth £109.95. This compact two-way design is great for use on a stand near a wall or on a shelf. It

uses a 7" bass driver reflex loaded for good, solid bass.

● 11th-15th Prizes - Miniature Wharfedale Valdus 100 loudspeakers worth £89.95. Designed for use on a bookshelf, the Valdus 100 uses a 5" bass driver. As with all of the Valdus range, the 100s are very efficient for their size, so can easily be matched to low power amplifiers.

All of the Valdus range of loudspeakers are aimed at producing a big, powerful sound from budget, low power amplifiers. Because of the light and efficient bass drivers and elliptical horn loaded soft dome tweeters, they are 'fast' and will help to bring any system to life. The tweeter is also electronically protected.

With so many prizes on offer your chances of winning are high, so make sure you enter this competition. All you have to do is simply complete the questions and tie breaker opposite.

Please send your entry on a POSTCARD, or the back of a SEALED ENVELOPE, and completed in block capitals, to arrive no later than 6th NOVEMBER 1995 to ●

WHARFEDALE VALDUS COMPETITION
Hi-Fi World Magazine,
64 Castellain Road, Maida Vale,
London. W9 1EX

**SEPTEMBER ISSUE
COMPETITION - WIN
REL SUBWOOFERS
WORTH £1500**

In the September issue of Hi-Fi World we were offering two REL subwoofers, a Stadium II for the winner and a Strata for 2nd place.

The lucky winners are

1st prize Louise Andros-Patton of Newcastle-on-Tyne

2st prize Alan Lewis of High Wycombe, Bucks.

Congratulations.

COMPETITION ENTRY QUESTIONS

Cut out and affix to the back of a sealed envelope

- 1) Where are Wharfedale based?

A. London	B. Leicester
C. Leeds	D. Lincoln

- 2) Which is not a feature of the Wharfedale Valdus range?

A. Light paper drivers	B. Need a lot of power to drive
C. Soft dome tweeters	D. Tweeter Electronic protection

- 3) The Wharfedale Valdus range are all very sensitive. This means?

A. They need to be treated gently	B. They will go loud with few watts
C. They are easily upset	D. They need a lot of power to drive

- 4) How many drive units are there in total in the fifteen pairs of Wharfedale Valdus loudspeakers offered for this month's competition?

A. 34	B. 38
C. 60	D. 68

TIE BREAKER (obligatory)

Wharfedale's new Valdus loudspeakers

Use elliptical horn loaded tweeters

With bass drivers light

They'll give you a fright

So powerful are these transducers

Compose a second verse to follow on in a similar style.

.....

Name:

Address:

.....

.....

Post Code: Tel No.

Please do not add my name to your mailing list.

COMPETITION RULES AND CONDITIONS OF ENTRY

- [1] Only one entry per household will be accepted. Multiple entries will be automatically disqualified.
- [2] In the event of more than one entrant submitting all correct answers, the winner will be picked from the tie-breaker by the editor. We will endeavour to publish the results in the January 1996 issue. Purchase of the magazine is not a precondition to entry.
- [3] No correspondence about this competition will be entered into and the editor's decision is final.
- [4] No employees of Audio Publishing Ltd. or any companies associated with production or distribution of the prizes may enter.

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

Your name and address may be added to our mailing list only.
 If you would prefer not to receive details of new products or special offers from us alone please tick the box. Hi-Fi World magazine is published by Audio Publishing Ltd.

Reflections from Noel Keywood

So this 'speaker is complex and clever. Whilst talking about driver-count, let's look at its marketing. Technics' product brochure says it all: this speaker has abundant USPs (Unique Selling Points). Not only is it small(ish) but cutaway shots in their colour sales brochure show an intriguingly complicated internal assembly, around which the Japanese weave all sorts of tales, as well as hatching up yet another acronym: DDD, short for Dual Dynamic Drive (I'd love to know which marketing manual - probably from America - states that every product must have an acronym!). Some Brits may squeal: "we can do as well with less!", but that isn't the point. More means better to the uninitiated buyer and this speaker quite obviously has lots more. Dual Dynamic Drive means nothing in itself of course, but I've learnt that Japanese acronyms rarely do. Here, it seems to be a smoke screen for Coupled Cavity working, but

methinks Technics are hardly going to admit to this by using CCC (Copied Coupled Cavity), for example. If I'm wrong, the squeals from Tokyo will surely be heard in London!

Finally, I see Technics have adopted exactly the same view as us in driver cone material selection. We've been saying for years that better synthetic materials are needed and that the drivers should share use of the same, or similar materials to prevent discontinuity in the sound giving a subjectively incohesive final result. Technics say the SB-M300 contains "midrange and tweeter units featuring high performance mica diaphragms which contribute to coherent imaging". I was impressed by the sound of these drivers and Technics claims are not specious. My ears told me they are high quality units having a very similar "voice".

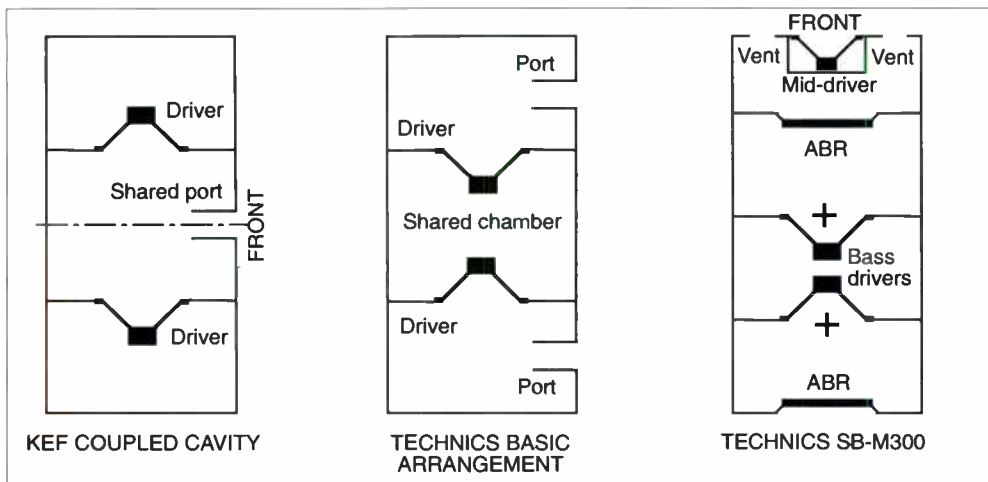
But the SB-M300s are not all perfection. Their most obvious drawback is low sensitivity. All those drivers draw power, making sensitivity a mediocre 85dB, with a

measured 7Ω nominal overall impedance. But a 60W amplifier can cope well enough. This is better than British high quality miniatures like the LS3/5a (82dB) and Harbeth P-3 (83dB), although it is matched by the excellent Systemdek Systym 931s (85.5db/12.5Ω nominal), priced at £330 (now you

“So this 'speaker is complex and clever.”

know what to compare the SB-M300s to! Let us know what you think if you do so).

So there you are. Technics' SB-M300s are a fascinating loudspeaker. They're real competition - let's hope they spur us Brits on to better things. My final observation is that universal one: never buy on spec, listen first if you are interested. The SB-M300s do, inevitably, have their own character and impressive as they may be, they might well not be to your taste. I just hope that Britain's manufacturers don't think this is the escape clause they would so love it to be ● **NK**



1. Today's KEF Reference Series 'speakers use Coupled Cavity working for deep bass, the front firing port being shared by twin internal drivers.

2. Technics use a shared rear chamber and separate ports. The bass driver still sees front and rear tuned cavities though, making it a Coupled Cavity bandpass system.

3. The SB-M300 uses ABRs (a form of port) which fire forwards and backwards, in-phase. The front ABR radiates through front baffle vents. The midrange driver sits in its own small chamber. Structurally, it's a very complex arrangement, but it works and buyers are likely to be impressed

dB on the
level

Dominic
Baker

opinion

Latest Audit Bureau of Circulation figures have come as a pleasant surprise to us. *Hi-Fi World* is now THE ONLY HI-FI MAGAZINE IN THE UK TO HAVE A RISING NEWS STAND CIRCULATION over the last six months. This calls for a big "Thank You" to all our readers.

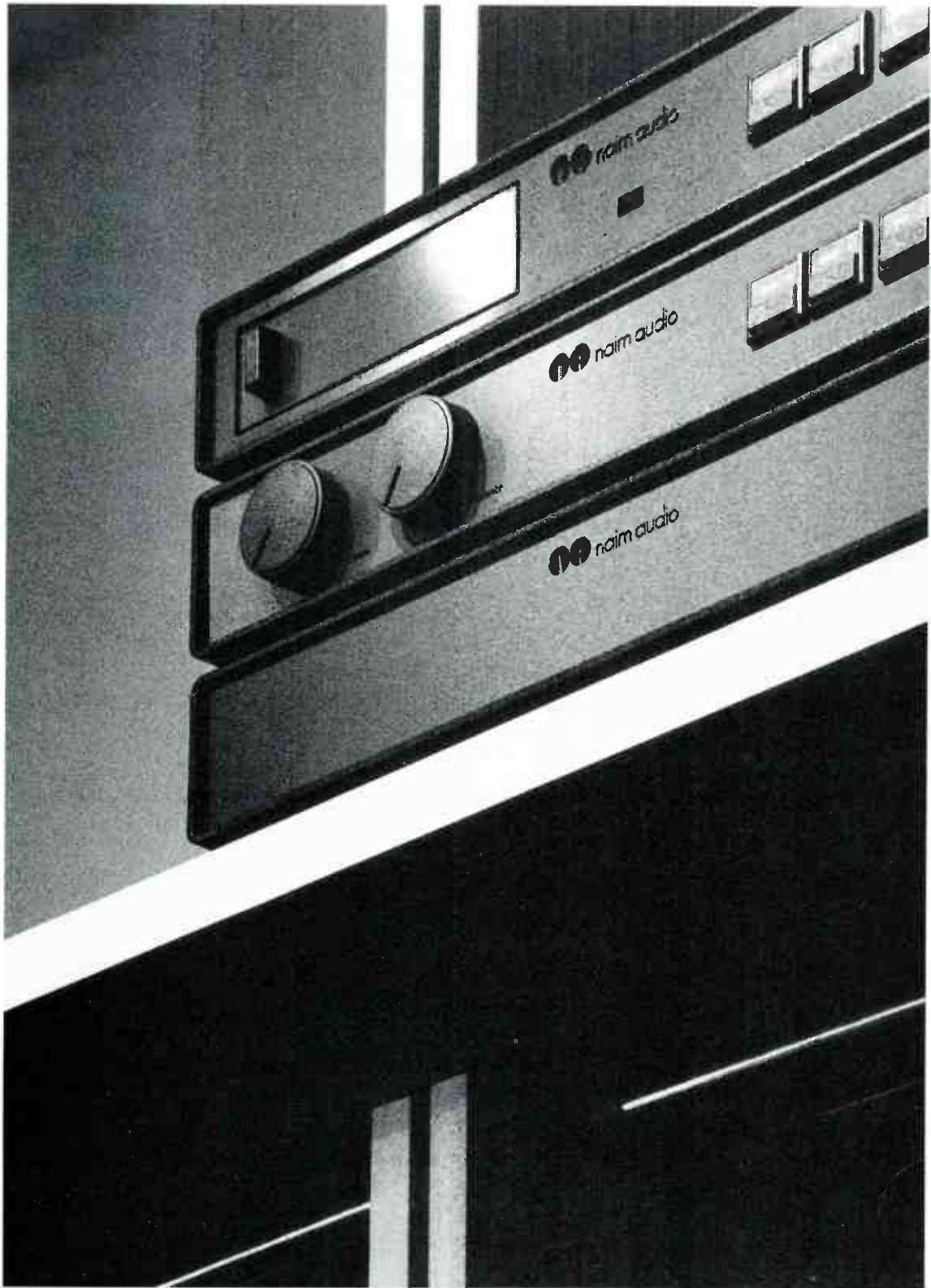
This year, as always, the big publishers followed traditional wisdom, cutting back pages, features and costs through the summer months. In contrast, we continued our ongoing quest to expand and improve *Hi-Fi World*, last month publishing our biggest ever issue. We've done it again this month, hitting 180pages including the DIY Supplement. **DB**

Here are the latest ABC figures for the period from the 1st January '95 to the end of June '95.

UK & Eire Newstrade and single copy sales.

<i>Hi-Fi World</i>	14,133	+3.6%
<i>Hi-Fi Choice</i>	14,537	-20%
* <i>Hi-Fi News</i>	12,704	-1.9%
<i>What Hi-Fi</i>	61,607	-1.4%

*for 1994. *Hi-Fi News* audits yearly.



THOMAS HEINITZ

NAIM • CYRUS • B&O • REGA • DENON ETC.

Thomas Heinitz Ltd. 35 Moscow Rd, (Off Queensway) Bayswater, London W2 4AH

0171 229 2077

It happens every year. Sure as day follows night, one or two hi-fi products receive such rave reviews that they are somehow lifted above greatness and on to a plane where to merely mention competition seems churlish. In many cases these are fine products, but due to a desire to perhaps stimulate the hi-fi market, certain publications hype particular products to an absurd extent. This can have serious side effects. For one, it jeopardises the long term credibility of not only the magazine responsible, but also that of other more balanced publications.

The main aggravation is not felt by magazines, but by the dealers and customers who have to suffer the aftermath. Inevitably, a product that has recently been the recipient of such acclaim will be newly released and supplies will be limited. This, combined

“...endless headaches for customers led to believe that this particular product is the be-all and end-all.”

with a huge stoked up demand, causes immediate short supplies and endless headaches for customers led to believe that this particular product is the be-all and end-all. Dealers are left to pacify such customers who can end up waiting months.

I put pen to paper on the subject because it is happening again. It seems the industry just doesn't learn. This time there are shortages of the Kenwood KA 3020SE amplifier. In previous years we've seen exactly the same problems with the Sony Dolby-S cassette decks, the Cyrus Three amplifier, Mission 753 'speakers, Tannoy 609 and 611 'speakers and

Pioneer A-400 amplifiers, amongst others.

In most cases these are fine products that do offer above average performance. However, what the impulsive reviews often fail to point out is that there are often equally good competing products that may be more suitable for an individual's taste and needs in music and

sound quality. That's not counting the fact that some products which initially sound impressive can begin to grate as time goes by. And yet we are still decisively told that this is the product we must buy, even if prepared to consider a model costing three times as much!

For an example, look no further than the small ad pages awash with second-hand Mission 753 'speakers. Now, the 753 is a fine 'speaker that does sound impressive in a large room with similarly large scale music and many owners will be rightly proud of their purchase. But others, carried along on a wave of hysteria, will

*- from Dominic
Todd, our man in
retailing*



have later found that even though the 753 is a good 'speaker, it's not really right for their small flat listening to folk music. Likewise, as much as I respect the Pioneer A-400, it can be quite a difficult amplifier to match 'speakers with. With budget 'speakers and even 'speakers costing as much as the amp' itself, it can quite easily sound like just another Japanese amplifier. Once again, just look at how many clutter up the Classified Ads in the back pages, doubtless in many cases due to disappointment caused by incompatibility.

Similarly, I can well remember the stream of Tannoy 609 and 611 'speakers that left the shop because of their fine reviews and impressive initial sound, only to come back again in about a third of cases. The reason for this was that some customers were finding the distinctive dual-concentric sound difficult to live with over time, and not really the sort of thing they were after.

So, how do you avoid falling foul yourself? Well, the first step is often to read a variety of magazines. When there's general agreement amongst two or three, then the chances are that the product in question is genuinely worthy of praise. If, however, a

recommendation is not reiterated in other magazines, it may be worth exercising a little caution. In one such case I remember a worthy amplifier receiving a five star review, only to be relegated to two stars during a group test in the following month's issue. Of course, there is an element of differing individual taste within magazines, but this inconsistency confused readers and jeopardised their future credibility. Clearly, it's up to the magazines to be responsible in the first place, and to point out any compatibility problems and personal preferences too, in so far as possible.

The second way of avoiding making a mistake is to find a dealer who you can trust. Actually listen to the product before you buy it, and find out if it's exchangeable after two weeks if you don't like it (most hi-fi shops will do this for you). Above all, go into the process with an open mind. You may find yourself with equipment you'd never even thought about and avoid weeks of delays and ultimate disappointment in the process. So if you've spent frustrating weeks over the summer waiting for your new "super hi-fi", take a little time to reflect. A change of tack may not be such a bad move after all ●

As the scorched summer earth returns to its normal damp green, I've been reflecting on the summer's events. One happening in particular has special bearing on the pages of this magazine, more profound even than Robbie leaving Take That. It was instigated by one of the richest men in the world, sometimes described unflatteringly as a jeans'n'T-shirt-wearing computer nerd. Flummoxed? The man is Microsoft president Bill Gates, and the event is the launch of Windows 95.

Okay, this magazine isn't *What Computer?*, so what has this got to do with hi-fi? Well, anyone who's had the pleasure of using Microsoft's first half-decent operating system will have discovered that it's got a software 'CD player' built in. True, when Windows 3.1 got a video player, we didn't all suddenly discard our

“ Windows 95 could change the rarefied world of specialist hi-fi irrevocably. ”

ageing Saishos, but this latest addition shows in no uncertain terms where Mr. Gates' corporate gaze is focused. Is this the first attempt at creating a domestic Multimedia leviathan, a centre that will hold our attention and control our lives more than TV ever did? And is this the beginning of the end of the separate CD player?

Windows 95 marks a significant move away from cold technology to friendly, application-orientated computing for PC users. It could start to change the rarefied world of specialist hi-fi irrevocably. The key is the information superhighway, a criminally over-talked about phenomenon, but a vital one nevertheless. Think about it: today, if we want the new Blur album, we get into our car, drive into town, park the old

audiophilia

heap and trudge to the local megastore. In a decade's time, it's likely we'll just need to hit the 'short cut to Music' legend in Windows 2005, and automatically connect up via a phone line to an enormous file-server offering every published piece of music for sale. Using your trusty 986 DX64 with its built in

modem, you can browse around, listen to samples, watch videos, read sleeve notes, and then if you want to buy anything, press a button. Your bank account is debited and down comes *Now 65* onto your computer's 10,000 Gigabyte hard disk, complete with the artwork and documentation for your colour laser printer to print out.

Because your PC is no longer a large white box with a noisy fan inside, to use your 'software CD player' just point your intelligent remote at a Linn Knekt-style wall-mounted receiver and the remote computer's soundcard will play your new purchase directly into your antique Quad 606 and Mission 752s in your listening room.

Want to play it in the car or on the move? Simple. Because you've

David Price



bought the album, just hit 'copy', stick a MiniDisc in your main computer unit, and it's now transportable. MiniDisc? Well, it's durable, portable and very compact. Data reduction will be a thing of the past - new high power lasers will get far more data on a disc, obviating the need for massacring your music with nasty bit-removal processes.

Sound quality? Another problem solved. When you buy your software, specify 'Standard' or 'Hi-Fi' before you download it. Choose the former, and dull old 16-bit comes down the line, taking up less space on your hard disk and giving longer playing times on your car MiniDisc player. Choose Hi-Fi, and you've got the latest chart opus in glorious 24-bit stereo. Played through your Linn Komputer PC soundcard, it sounds superb. Because all files are in the software domain, your enormous music software collection can be catalogued and organised just how you like it. Your old CDs can be read in from the CD-ROM drive onto your hard drive where they'll never suffer a dropout again, and vinyl can be transcribed from your ageing Roksan TMS through the Komputer's ADCs.

Downloading music down your phone and storing it in your own personally configured software environment will prove quicker, cheaper

and far more flexible than you'd think. People will look back nostalgically at skipping CD players and those quaint old 16-bit discs. 'How did we ever manage?', they'll say.

This isn't all pie-in-the-sky. Strictly speaking it can be done now. 'Video on near-demand', working on similar principles, is already up and running in this country, hampered only by governmental dragging of heels (what a surprise). Modems are getting faster, and new delivery systems are appearing - ISDN (Integrated Services Digital Network) makes high speed data transfer a breeze, albeit an expensive one at present. Difficulties, I imagine, will come from the Recording Industry, who'll doubtless turn the idea of an integrated music software site into an horrifically complicated practical proposition faster than you can say "software piracy" or "music business lawyer". High volume storage systems are under constant development and we already have the technology, if not their methods of production.

Still, where there's a will there's a way. Bill Gates, who last year confessed, "I'm on the lunatic fringe of believers in this stuff - it'll certainly change everything", has the vision. Separates CD players, take cover, the microchip has your number and is coming for you bit by bit!

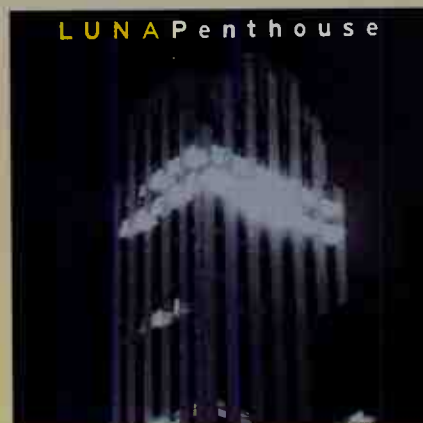
The Music Days

Giovanni Dadomo



LIQUORICE
Listening Cap
4AD CAD 5008

delicacy which makes truly pleasant listening. Head for the nearest listening post, pronto.



LUNA
Penthouse
BEGGARS BANQUET BBCD 178

INDEX

RECORD REVIEWS

ROCK & POP73

Giovanni Dadomo
Jon Clarke
David Price

JAZZ36

Simon Hopkins
Simon Cooke

CLASSICAL93

Peter Herring

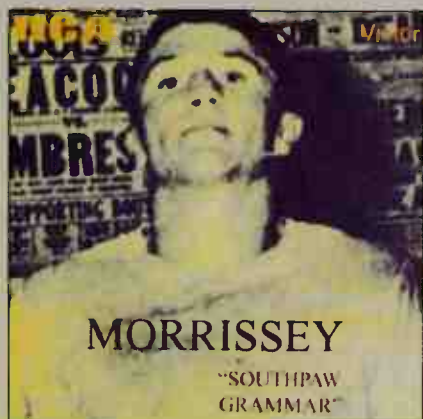
● Remember The Cowboy Junkies? I do, with plentiful fondness. Well, there's a certain affinity between this group and those subtle Canucks - and I don't mean just in the crystalline vocal of one Jenny Toomey. This is nothing if not minimalist, all stark arrangements outside of the odd Feelies-style, post-Velvets guitar strangling. But this band make what Jimmy the M. called "a very gentle sound", and it's a treat to the ear. For the record, the group is no way devoid of pedigree. It includes Danny Littleton (ex-Hated, late of Ida) Trey and the aforementioned Ms Toomey, who's previously filled slots with the likes of Tsunami, Grenadine and Simple Machines. The proof of the pudding however, is that Liquorice have made a record of amiable charm and

● Remember Television (I think we're getting déjà vu but what the heck)? Do think back if you can - or snap up their back catalogue otherwise, particularly Marquee Moon and the recent live compilation. Anyhow, if you're drawn to that frail but delicate drawl that is singer Tom Verlaine's greatest asset, not to mention some of the most glorious guitar parts this side of nineteen ninety-four, then you'll love this band. Neat wordplay too; just taste this one - "You're out all night, chasing girlie, you're late to work, so you go home early". All this fading on a blissful series of "baum,

baum, baum" works like a dream.

But thankfully there's more to Luna than Television revisited. "Side-show By The Seashore" is as delicately fragile a song as Lloyd Cole ever wrote. If the guitar is distinctively Richard Lloyd, it's still as fine and subtle a tune as you'll hear all season. To be totally honest though, weediness (*à la* the wimps in *Dennis The Menace* strips) is always bare millimetres away with this type of heartfelt agonising. However, if Luna tend to skip the odd rail, as on the rather maudlin 'Moon Palace', they bounce back with some real sizzlers. 'Double Feature' swings like Christie at the end of the hangman's rope.

I confess that '23 Minutes In B' does sound like that awful last Velvet Underground LP without Lou Reed on it, but there are still plenty of treats. These range from the perky 'Rhythm King' to the moving 'Kalamazoo', or the aptly spiky 'Hedgehog'. The closing 'Freakin' And Peaking' just has to be the finest Television song Tom Verlaine and Richard Hell never wrote. Oh, and speaking of Television, Tom Verlaine actually makes a guest appearance on one cut. Work it out - I had to.



MORRISSEY
Southpaw Grammar
RCA VICTOR 74321 29953Z

● Having given such short shrift to Master Morrissey's previous disc Vauxhall & I, I've given Southpaw Grammar as much time as I can humanly spare. For all its supposed frailties, some tracks here are as long as Bob Dylan at his most rambling and wordy. Even the opening cut weighs in at some twelve minutes - it seems boxing analogies are compulsory with the Mozzer's latest incarnation. But for all that, the arrangement of 'The Teachers Are Afraid Of The Pupils' is so deftly brisk and subtly lush that it feels like it runs a third of that time. Still, *mea culpa mea culpa, mea maxima*

culpa (Latin for 'I was an idiot that month, but who isn't sometimes?')

The only real fault I find is Morrissey's continual play on his sexual ambiguity. This emerges in the video of the title cut where he replaces Dave's girlfriend's name for "Moz" on a tacky windshield sticker - those stickers are illegal now anyway. It's Stephen Fry all over again. Come on Moz! Either come out or shut up. I mean, celibacy's OK for nuns, monks and the odd Catholic priest but it's hardly a good example for young boys and girls of any age. Role model? More like a role over and pretend to snore model.

But this isn't to say there aren't some great lines here. Take "Books don't stay, but books aren't Stanley knives". Own up, there's brains under that baret - even if I've never had any problem distinguishing a Stanley knife from a Penguin Modern Classic. Petty cavils aside, there's a breadth of arrangement and musical texture here many miles away from recent efforts. In fact, it's probably as broad a canvas as Morrissey's tackled to date. It's a nice surprise when you hit a slimline, hardnose rocker like 'Boy Racer', a three pints-too-many bruiser. Let's face it, even idiots get it right sometimes. Otherwise there'd be no Pet Shop Boys, would there?

Jon Clarke



VARIOUS ARTISTS
Jazzmatazz II
7243 8 34820 2 3

● One man's crusade against mediocrity has with Jazzmatazz brought about one of the year's most intriguing albums. Guru, of New York rapsters Gangstarr, is the man in question. Not happy just to stay faithful to the ever-growing and lucrative rap scene, with

Jazzmatazz I and II he has done his very best to fuse a new music scene through crossing rap with jazz - the two strongest urban musical idioms black people have created.

Call it be-bop, cool, or just jazz rap, it's a mellow and compulsive scene to listen to. It takes rap to refreshing new boundaries or, as Guru likes to think, away from the unhealthy gangster rap vibe that has struck the States over the last couple of years.

There's no doubt Guru is an ambitious being, who with Jazzman Donald Byrd as his mentor has worked incredibly hard to bring some of the greatest Jazz stars onto this record. Despite the presence of Byrd himself, Marsalis, Courtney Pine and Freddie Hubbard, this is no jazz album - it merely takes some of the best licks and fuses them with soul, rap and funk. And that is where Guru has cleverly gone to work. On this the second Jazzmatazz effort he has brought into the studio not just the Jazzmen but an amazing range of modern day talent from other types of music. Hence on these tracks we find Chaka Khan, Ini Kamoze and DC Lee jamming along with Mica Paris, Shara Nelson and Me'shell Ndgeocello. And there are many more.

The 'Watch What You Say' track, has a hardcore rap breakbeat and cleverly mixes delightful trumpet licks with the still deeply soulful voice of Chaka Khan. It has been playing in the clubs all summer long, a fact which best sums up this album.



BLUR
The Great Escape
FOOD CD I 4

● Cor blimey, jellied eels and candy floss. Before you can say "Barnet Horse Fair" Blur are back with a new album. And what better timing after the - dare I say it - stage-managed Great Battle of Pop with Oasis last month?

No one can possibly ignore The

BLACK GRAPE It's Great When You're Straight... Yeah!

J.V. RAD | 1224

● Lauded 'The Greatest Comeback for Years', to me it sounds like Sean Ryder's merely been round the block, losing a smack habit on the way, and come back with some new mates, a spliff and a six pack. Whatever, the scuzzball of pop has returned with Black Grape and a brilliant new album. It's everything expected - an inimitable mix of rap and dance fused with that Happy Mondayish indie-punk slant, lumped in with a barrage of lairy, uncouth but always funny lyrics.

Last time we heard about Sean it was rumoured that his heavy heroin habit had played a part in the downfall of the world respected Factory label - the home of New Order. It was said that the cost of the Happy Mondays' final album - being recorded in the Caribbean with slices of severe indulgence - was the straw that finally broke the ailing label's back. And after the fuss and stories it was far from a masterpiece.

Here, a few years on, the main parts of the Mondays stay intact, with

Sean Ryder, the cocky Manc sitting at the helm, and Bez - as the album sleeve puts it - "on vibes". What Bez does apart from shake a castanet and dance like an idiot is debatable, but he's as much a part of Black Grape as he was of the Mondays. He sums up their image and he is their soul.

Ryder and Bez are joined by Kermit and Jed from Manchester's



best known rap band the Ruthless Rap Assassins and guitarist Wags from the Paris Angels. The team had apparently come together weeks after the Mondays split and according to Ryder

set out to record an album like Bowie's Pin Ups. One with as many different styles as you could fit on an album. "If anything sounded straight, it would get scrapped," asserts Ryder. The result is ten songs of such variety that they all hustle for space and it's consequently hard to pick out the best.

Of course 'Reverend Black Grape' was the single that first drew everyone's attention back to Ryder and the band and it kicks off the album with style. But the next nine tracks are easily as good. 'Tamazi Parti', a singalong chant based on the fashionable but dangerous drug Tamazapan, is the perfect Oasis/Blur cross. 'Kelly's Heroes' with its excellent "Jesus was a black man, no Jesus was Batman, no that was Bruce Wayne" chorus, is an hysterical rife at heroes, who to Ryder all "seem like serfs". And final track 'Little Bob' is a funky little number which has one of the best outros of anything I've heard.

It's certainly the best Ryder's done since the bagged-up Thrills, Pills and Bellyaches. Buy it's Great When You're Straight, whack up the volume, act like the lad and try to remember when music was ever such fun before.

Great Escape - the fourth of a series of albums from Colchester's (or would they prefer London's) finest. Who, after all, would have expected Britain's two top bands to have thousand word features lavished on them not only in the stuffy old *Times*, but also in *Time* - the earnest US current affairs magazine.

So the scene is set. 'Top British band brings out new album' - and that's how it should be judged. What a pity then that Oasis, Blur's protagonists from Manchester, couldn't rush out their new album to be judged in the same ring. Then we really would've have had a classic scrap - one of more than just one round.

On the first few listens of The Great Escape the smart money might have been on the Northerners just sneaking in a couple of extra shots to pip the Cockney louts to a marginal points win.

But this album is too good to knock and by itself is easily worthy of the Number One slot. While the truth is that there are only a few really great tracks on it, there were only the same amount on Parklife. And with all its critical acclaim it should have easily won last year's Mercury Music Prize. Everyone knew M People were lucky to walk off with the best album of the year award.

Great Escape is an all round more downbeat, less bubbly and cheerful LP than Parklife. It has more feeling and tinges of honesty. Have the paparazzi, the hectic London scene and the tabloid headlines taken their toll? Have the band just grown up and matured or have they gone for bigger bucks? Everything, from the obvious sentiments of the single 'Country House' to the up-yours speedboat on the cover, seems to suggest that cushy W11 nightlife has

made Damon - after all an Essex boy - more reflective about life and seemingly one for the quieter side of it. 'Best Days' and 'The Universal' clearly show this.

But there's still a good old bite in Blur and five or six of the fifteen tracks have that Bank Holiday boys at the beach feel about them. 'Mr Robinson's 'Quango', 'Stereotypes' and 'Charmless Man' are much more up tempo and all round jolly good stuff. But best of all is the short and sweet 'Globe Alone', a thrashy tune, reminiscent of the Cardiacs - no doubt Britain's weirdest band of the last ten years.

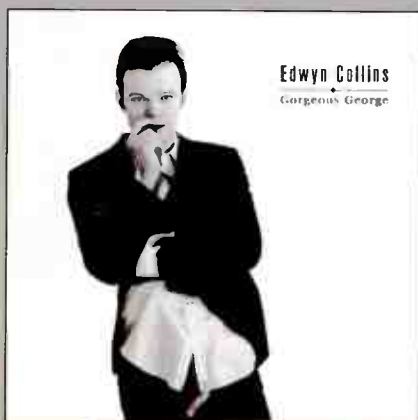
Similarities with Madness and Adam Ant are too obvious to ignore. After some hard, sharp cutting edge singles and albums they went softer and more pensive. Musically both lend their influence to The Great Escape, along with the Stranglers. There are also social

and psychological parallels to be drawn.

Blur have moved into the big time, record sales and sell out stadium concerts testify to that. Where they used to get lads in Parkas and target T-shirts pogo-ing around on The Big City, they now get teenage girls jumping on stage to kiss Damon on *Top of the Pops*. That's life.

The Great Escape is where "Cor Blimey, let's go down the boozier", meets "shall we go for a quiet drink and a spot of lunch". Not a bad mix really.

David Price



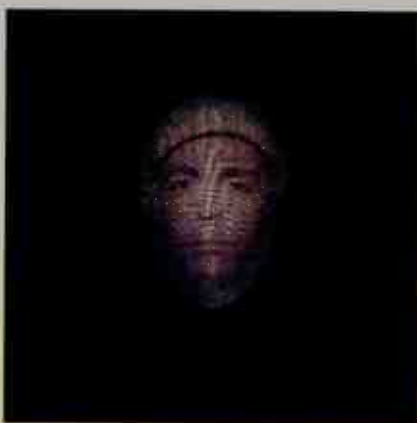
EDWYN COLLINS
Gorgeous George
SENTANTA SET CD14

● In a world where the knowing cynicism of The Beautiful South can install itself at the top of the charts for (what feels like) years, you'd think Paul Heaton and Co. invented the pop song with a sting in the tail almost single-handedly. But cast your mind back to the days of foppish fringes a decade and a half ago and remember Orange Juice, who under the stewardship of Motown junkie Edwyn Collins, made themselves a small-but-perfectly-formed part of pop history.

Many years later, who'd have thought he'd be back with a collection of charming tunes married to that audacious, acid wit? Gorgeous George is reminiscent of OJ's parting long-player in its lilting, summery guitar funk and gentle trumpet and pedal steel embellishments, occasionally sent into disarray by the odd lick of Ed's hallmark guitar noise. And as you'd expect, no lyrical punches are pulled, with just enough space made for the odd lovelorn croon between the gratuitous lyrical doing down of others.

Grunge is the first against the wall, its contrivance slammed in 'The Campaign for Real Rock' ("Her idea of counter-culture is Mama's charge account at Sears/Yes, yes, yes it's a summer festival/A truly detestable summer festival") and 'A Girl Like You' ("Too many protest singers/Not enough protest songs"). The title track sees the knives out for ageing Soho media luvvies, while the parting 'Subsidence' ("This music won't take you higher unless you're a moron/And that's what bothers me") sees techno music summarily dealt with.

But despite Collins' propensity to polemicise, never does Gorgeous George hang heavy in the air. Full of the seriousness and silliness of it all, it's a naive but knowing hike through the world of someone who's been sadly overlooked for too many years. Happily 'A Girl Like You's permanent summer seat in wonderful Radio Fab's playlist has put an end to that. Long may he carry on up the charts.



PET SHOP BOYS
Alternative
PARLOPHONE PCS CD166

● When the go-getting, hard workin', big talkin' Eighties were young, you couldn't move for pale and interesting synthi-bands singing songs of kitchen sink hope and despair. All looked (for a moment at least) remarkably stylish and poised for great things, but no one - not even the Human League - achieved anything more than fleeting fame and fortune.

But by summer 1985, when the likes of Blancmange and Yazoo were nothing more than Woolworth's bargain bin fodder, Britain finally got itself an electro-pop duo sensation. Neil Tennant, one-time editor of that august teenybop journal *Smash Hits*, drew up a plan to storm the charts with Chris Lowe, a sultry looking Manchester architecture student. 'Opportunities' was the result, as tongue-in-cheek as it

was self-referential, it failed to make an impression, leaving the subsequent 'West End Girls' to do that. But the Petties' career that was to see them notch up a staggering 23 Top 30 hits and 4 UK number ones, had begun.

From the word go, Neil and Chris' pop prescription was resolutely 'fun, love and money', with no time for the burgeoning indie scene's catalogue of jingly-jangly doom and gloom. But Tennant's penchant for intellectualising about music allied to his passion for throwaway disco led them to be branded 'the Smiths you can dance to'. Naturally this raised the heckles of any self-respecting daffodil-wearing vegetarian of the day, especially when Tennant's early lyrical sloppiness ("Tonight is forever, tell me now you don't disagree...", perlease) was hardly up to the Salford's Shakespeare's most miserable of out-takes. Still, one thing both bands had in common was a respect for the flip side of the humble pop single. And if you ever doubted it, Alternative is the proof.

A collection of no less than thirty songs, it chronicles their shift from early hi-NRG to their mid-period Ibithan house fixation and their subsequent pop classicism. En route we get an eclectic mix of melancholy and madness - 'In The Night' (AKA 'that song from The Clothes Show') explores the world of beatniks in occupied wartime France(!), 'Paninaro' the mid-Eighties Italian casual-fashion scene. 'It Must be Obvious' is Tennant artfully swiping back at those who'd wished to out him, while 'Miserablism' is an irreverent two fingered salute at humourless critics.

Although nowhere near as classy as Very, the last Petties album proper, Alternative still makes a great case for itself for those after choice snippets of pure pop. Who cares if Tennant's lyrics make your average Eurovision fodder look like high art? Those majestic tunes, irreverent quips and silly poses are capable of - if not raising the dead - at least waking the Human League from their slumbers.



Specialist Hi-Fi Dealers

SOUTH



BUCKINGHAMSHIRE'S PREMIER HI-FI DEALER

Arcam, Denon, Linn Products, Naim Audio, Meridian, Rotel, Yamaha, NAD, Quad, Tripod, Nakamichi, Rega, Creek, Epos, Mordaunt Short, Celestion, Marantz, Mission, Cyrus, etc. ...

65 Castle Street, High Wycombe, Buckinghamshire.
Open Monday - Saturday
0494 531682 / 464670



ROKSAN J NAIM J REGA J MICROMEGA J ARCAM J CREEK
J ROTEL J MARANTZ J DENON J RUARK J EPOS J
SYSTEMDEK J AUDIOLAB J NEAT J SHAHINIEN J SOUND
ORGANISATION J SOUND FACTORY J CHORD COMPANY J
AUDIO TECHNICA J MANA ACOUSTICS J

Records also available
PRO MUSICA
6 Vineyard St., Colchester, Essex
01206 577519

For the great sound of sound :

The Comflake Shop
37 Windmill Street London W1P 1HH
071 631 0472 Fax. 071 436 7165

We stock ATC, Arcam, Meridian, Naim, Rega, Royde, Roksan, AVI, Monitor Audio, DNM; as well as offering a marvellous mail-order worldwide service • Crunch •

SOUTH



READING HI-FI CENTRE
4 Queens Walk, Broad St. Mall, Reading, Berks RG1 7QF
Tel: (01734) 585463

QUALITY HI-FI AND HOME CINEMA SOUND AT IT'S VERY BEST.
Agencies held: Arcam: Audiolab: Beyer: B&W: Celestion: Denon:
Exposure: Meridian: Michell: Nakamichi: Quad: Rega: Rotel:
Royd: Sennheiser: S.M.E.: Sony: Stax: Yamaha.

Times of Opening: Tues - Sat 9.30 am - 5.30 pm. Thurs Only 10am to 7pm. Lunch 2pm - 3pm except Saturday. Closed Mondays.
We are a BADA Dealer



STOCKIST OF: HEYBROOK, NAD, ROTEL, PHILIPS, MARANTZ, QUAD, PINK TRIANGLE, ACOUSTIC ENERGY, JPW, CELESTION, MUSICAL FIDELITY, TANNON, TDL, NAKAMICHI, YAMAHA, KEF, SONY, AURA, PIONEER, AND MANY MORE...

38 WALNUT ROAD, CHELSTON,
TORQUAY, DEVON TQ2 6HS
TELEPHONE: (01803) 606863

Come join us for the largest selection of surround sound systems in the South West

LONDON & SOUTH EAST

HI-FI EXPERIENCE

Arcam • Audiolab • Audioquest • Bang & Olufsen • Chord • Cyrus • Denon • KEF • Marantz • Meridian • Mission • MF • NAD • Quad • REL • Rotel • Spondor • Tannoy • TDL • Yamaha • Sony.

Award Winning Hi-Fi from stock - Sales or Service - WE CAN HELP

Tel: (0171) 580 3535
Fax: (0171) 436 4733

Britain's Top Specialist Hi-Fi Stores
227 Tottenham Court Road,
London, W1P 0HX.

Send or call for your FREE Magazine and Catalogue. BADA Bonded

STATION SOUNDS

WORTHING
FOR A SELECTION OF VALVE AMPLIFIERS
AND OTHER OLDER QUALITY EQUIPMENT

Valve amplifiers (combos and hi-fi) overhauled at sensible rates.
Audio Note speakers and used
Audio Innovations amplifiers stocked
Valve and other equipment always wanted.

Mike Pointer 0903 239980 (including Fax)

DOWN PLATFORM WORTHING STATION SUSSEX

AUDIO CONCEPT

27 BOND STREET, EALING
LONDON W5 5AS
TEL. 081 - 567 8703

AMC, Acoustic Energy, Aura, Audiolab, Audio Innovations, B&O, B&W, Cannon, Castle, Cyrus, Denon, Dual, Evolution, JPW, KEF, Marantz, Micromega, Mission, Monitor audio, Musical Fidelity, NAD, Nakamichi, Onkyo, Quad, REL, Rogers, Rotel, Systemdek, Target, Teac, Thorens, Van den Hul.

10 - 6 pm Mon., Tues., Friday, & Sat.
Late night Thur., closed Wed.

Two demonstration rooms.
Free local delivery and installation.
Repairs and Services

WORTHING AUDIO

20 Treville Gate, W.Sussex. BN11 1UA
(01903) 212133

The friendly shop with the best sound system in the South, Friendly advice

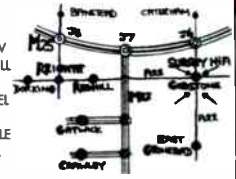
• 3yr guarantees • easy parking
Open Mon.-Sat. 10am-6pm Late night Wed. 7.30pm
Agencies include: Arcam, Exposure, Kinshaw, Naim Audio, Marantz, Ruark, Audio Technica, Target, Tripod, IPW, TDL, Orrelle, and many more.....

LONDON & SOUTH EAST



HOME CINEMA ON DEMONSTRATION
SURREY HI-FI
43 HIGH STREET GOODSTONE SURREY RH9 8LS
GODSTONE (01883) 744755

ATACAMA STANDS •
AUDIOLAB • BEYER
HEADPHONES • BOSE •
CABLETALK • DENON • JPW
• KEF • MARANTZ • MICHELL
• MUSICAL FIDELITY •
NAKAMICHI • QUAD • REL
• SEISMIC SINK •
SENNHEISER • SOUND STYLE
• TANNON • TARGET • TDL
• THORENS • TUBE
TECHNOLOGY • VAN DEN
HUL CABLES • YAMAHA •



79/81 Fairfax Road
Swiss Cottage
London NW6 4DY
071 624 8855/6
Mon-Fri 10-7 Sat 10-6



THE INNOVATIVE
AUDIO AND VISUAL
HI-FI RETAILER
SERVING LONDON
FROM BATTERSEA
ORANGES
& LEMONS
071- 924 2040/3665
61/63 WEBBS ROAD, SW11



7 ST. PANCRAS,
CHICHESTER,
WEST SUSSEX
CLOSED ALL DAY
MONDAY
Tel: (0243) 776402

Appointed stockists of: A+R Cambridge, Castle Acoustic, Creek, Dual, Goldring, Linn Products, Monitor Audio, Naim, Nakamichi, Quad, Rega, Rogers, Royd Audio, Spondor

audio innovator: audion audio note: audioquest chord company: compingh
audio design: densen: ead: helix: heybrook: impulse: ipswich: ipswich: ipswich
research: kinshaw: lya: michell: morell: moth: musical: technical: ipswich: ipswich
ment: erloton: p-n-r: luma: audiomeca: project: qed: royd: ipswich: ipswich
tripod: prokret: mat: sound: organisation: target: ophson: ipswich: ipswich
sugden: sunika: teac: triangle: trinchard: van den: hul: voyd: ipswich: ipswich
trends: audion: audio: note: audio: note: ipswich: ipswich: ipswich: ipswich
densen: ead: helix: heybrook: impulse: ipswich: ipswich: ipswich: ipswich
kinshaw: lya: naim: naim: ipswich: ipswich: ipswich: ipswich: ipswich: ipswich
pierre: luma: ipswich: ipswich: ipswich: ipswich: ipswich: ipswich: ipswich: ipswich

ipswich
01473 622866

signals
hi-fi for grown-ups

Stockists of: ARCAM • CREEK • EPOS
HEYBROOK • MICROMEGA • NAIM AUDIO
NEAT • REGA • ROKSAN • ROTEL • ROYD
TEAC • YAMAHA

Infidelity

indecently good hi-fi

9 High Street, Hampton Wick, Kingston upon
Thames, Surrey KT1 4DA. Tel: 081-943 3530
Open Tues - Sat 10.30am - 7.00pm.

Front End Problem?

contact -
The Cartridge Man

It doesn't have to cost an arm and a leg to get the best - listen to my koetsu - and Decca - eater.

Also agents for croft, sugden, Thorens, Pentachord Speakers & Nottingham Analogue.

plus cartridge re-tipping service
081 - 688 6565

Lockwood Audio

THE
Authorized **TANNOY** Specialist

SPARES AND REPAIRS

DEALERS IN VINTAGE AND USED EQUIPMENT AND RECORDS

Callers welcome by appointment
Imperial Studios Maxwell Road
Borehamwood Herts. WD6 1WE
Phone: +44(0)181 - 207 4472
Fax: +44(0)181 - 207 5283

Specialist Hi-Fi Dealers

LONDON & SOUTH EAST

Near Norwich Norfolk
Tel. (0508) 570829



Basically Sound of Norfolk
STOCKISTS OF LEADING HI-FI

Arcam, Naim, Audiolab, Audio Innovations, Epos, Denon, Nakamichi, Acoustic Energy, Heybrook, Micromega, Rotel, Royd, TDL, The Chord Company, Sound Style etc...

hi-fi in the CITY THE CITY

Auditorium

ARCAM CYRUS
BANG & OLUFSEN
DENON EPOS KEF
DYNAVECTOR
REL MICROMEGA
NAIM MISSION
NEAT WTT XLO
SHANINIAN
SYSTEM AUDIO

119 Middlesex Street, Bishopsgate, London E1 7JF
Telephone 0171 247 5000
Facsimile 0171 247 0990
TWO MINS WALK FROM LIVERPOOL STREET STATION

"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

HI-FI & COMPONENTS LTD

Established Over 30 Years

- All Leading Makes Of Equipment
- Hi-Fi & Video Repairs & Servicing
- Stockists Of All Accessories & Those Hard To Find Ones
- Large Range Of Chassis Spkrs
- AUTHORISED DEALERS

FOR... NAD DENON JAMO TANNAY KENWOOD
(To Name But A Few)

Switch and major credit cards accepted.

0171 223 1110
84 Battersea Rise, London, SW11

Open Mon - Sat 10-6pm.

the powerplant

BRIGHTON'S LEADING HI-FI SHOP

Cyrus, Roksan, Micromega, Audionote, Audiolab, Rega, Arcam, Exposure, Aura, Epos, Thiel, Ryark, Rotel, Marantz and other fine equipment.

66 Upper North Street, Brighton
Telephone 0273 775978

LONDON & SOUTH EAST

UNILET
sound & vision

Best place in town for Hi-Fi and Home Cinema


- Six superb demonstration rooms
- Interest Free Credit
- all LEADING BRANDS
- OPEN SUNDAYS

UNILET SOUND & VISION
35 High Street, New Malden, Surrey KT3 4BN
Tel 0181 942 9567 Fax: 0181 336 0820

The Hi-Fi Shop

GUILDFORD'S SPECIALIST SINCE 1950

We are at:
3 BRIDGE STREET, GUILDFORD
(By the traffic lights - next door to Mired Music)
0483 504801 • 0483 304756
Access • Visa • Switch
Open Monday-Saturday 9am-6pm (later by appointment)



Spaldings

ESTABLISHED IN SOUND

☎ 081-654 1231/2040
352/4 LOWER ADDISCOMBE RD.,
CROYDON, SURREY

MIDLANDS

WELL ENGINEERED PRODUCTS FOR ACCURATE SOUND REPRODUCTION FROM:

Arcam, ATC, Audioquest, Audio Technica, AVI, Beyer, Cable Talk, Castle, Chord, CRD (Valve), Denon, Dual, Klipsch, Michell, Nakamichi, Ortofon, QED, Quad, Revox, Sennheiser, Sequence Design, S.M.E., Spendor, Target, TDK, TDL, Thorens, Trilogy (valve) etc., Keith Monks Record Cleaning Machine.

FIVE WAYS HI-FIDELITY LTD (Est. 1972)
12 Islington Row Edgbaston, Birmingham B15 1LD
0121-455 0667 (closed Mondays)

Branches at:

- 363 Hagley Road, Edgbaston, Birmingham Tel: 0121 429 2811
- 93-95 Hobs Moat Road, Solihull Tel: 0121 742 0254
- 156/157 Lower High Street, Stourbridge Tel 01384 444184

- DEMONSTRATIONS BY APPOINTMENT -

MUSIC MATTERS



JUST ARRIVED....

DPA RENAISSANCE CD + ENLIGHTENMENT DAC, TEAC VRDS-T1 + T1 DAC, B&W CDM1 & 2 & P SERIES, CYRUS PRE-POWER DENSEN DM10 & BEAT, HEYBROOK QUARTET & SEXTET'S, AUDIOLAB 8000Q, RUARK EQUINOX, PINK TRIANGLE CARDINAL, DACAPO & ANNIVERSARY TURNTABLE, etc...

INTEREST FREE (for Ltd period)
APR 0% Written details on request.
Licensed Credit Broker. Switch Card accepted.

OPENING TIMES
TUESDAY TO SATURDAY
10.30 TO 6PM, LATE NIGHT FRIDAYS
TILL 8PM.
CLOSED MONDAY.

EX-DEN AND SECOND-HAND CLEARANCE SALE AT EDGBASTON STORE

Peter Ellis Audio

A wide range audio products always in stock including: Denon, Marantz, Arcam, Sugden, Tannoy, Castle, Nakamichi, Yamaha, TDL, Jamo, Musical Fidelity, JVC, Kenwood, Pioneer.

- Dolby ProLogic & Cinema in stock
- Demonstration Room
- Free delivery & installation

29, KIRKGATE, NEWARK, NOTTINGHAMSHIRE NG24 1AD
01636 704 571

FRANK HARVEY

Hi-Fi EXCELLENCE


163 Spoa Street, Coventry, CV1 3BB Tel : 0203 525200
Mon to Sat 9.30 till 5.30. Closed Thursday

MUCH MORE THAN HI-FI
WE ARE A **BADA DEALER**

Audiolab - Audio Alchemy - Arcam - Alphason - Bose - Bang & Olufsen - Celestion - Cyrus - Denon - Dual - Foundation - Kel - Marantz - Monitor Audio - Mission - Musical Fidelity - Nakamichi - Nad - Quad - Rega - Rogers - Rotel - Target - Tripod - Tannoy - Thorens - Van Den Hul - Yamaha

MAILORDER - EXPORT - HOME TRAILS

3 Floors, 3 Dem rooms, 3000 sq feet in the pursuit of Hi-Fi Excellence



SOUND ACADEMY


Audio Equipment from leading and specialist brands for you to listen to and choose from.

Tel: 01922 493499/473499

Hi-Fi for those with an eye for Quality

- 3 Hi-Fi Studios
- Home Trials
- Home Cinema Theatre
- Audio Visual Equipment
- Inhouse Service Department
- Mail order available
- Interest Free Credit (On Selected Items. APR0%-written details on request)

BADA



WE ARE HERE

Sharing the ASDA Carpark with ample free parking, Off High Street, Blisworth, Nr. Walsall, West Midlands
Open 6 Days, 9am - 6pm
Late night Friday

ARCAM AUDIO LAB CHORD NAIM KESWICK AUDIO RESEARCH ALSO: APOLLO A.T. AUDIO ALCHEMY AUDIO QUEST B&W BOSE BEYER CABLE TALK CHORD COMPANY CYRUS CELESTION DPA EPOS EXPOSURE KEF REFERENCE KENWOOD MARANTZ MICHELL MORDAUNT SHORT MERIDIAN MICROMEGA MISSION MOTH MUSICAL FIDELITY NAKAMICHI ORTOFON QUAD ROKSAN ROGERS ROTEL SENNHEISER SONY SUMKO SYSTEMEK TARGET TDL TUBE TECHNOLOGY VAN DEN HUL YAMAHA

Specialist Hi-Fi Dealers

MIDLANDS

CREATIVE AUDIO

9 DOGPOLE, SHREWSBURY,
SHROPSHIRE
Tel: (01743) 241924
Closed Mondays

- Comfortable listening rooms
- Home demonstrations available
- Part exchange welcome
- Free home installation
- Interest free credit

Authorised retailer for:
A&R ARCAM, AUDIOLAB,
CELESTION, CYRUS, DENON, DUAL,
MERIDIAN, MISSION, MONITOR AUDIO,
QUAD, REVOLVER, ROKSAN, ROTEL,
YAMAHA, EPOS, NAIM, KEF, NAD

STEVE
HANNAH
AUDIO
— of —
WALSALL

neat
j m lab
slate audio
stemfoort
sugden
01922 640300

WEST & WALES

audio excellence

THE ULTIMATE IN SOUND ADVICE

WHERE THE MUSIC MATTERS

Bristol

65 Park Street
Bristol BS1 5PB
(01179) 264975

Cardiff

134/6 Crwys Road
Cardiff CF2 4NR
(01222) 228565

Gloucester

58 Bristol Road
Gloucester GL1 5SD
(01452) 300046

Swansea

9 High Street
Swansea SA1 1LE
(01792) 474608

TUESDAY - SATURDAY 9.00 - 5.30
CLOSED MONDAY

ACTION GATE AUDIO

4 Ruabon Road, Wrexham, Clwyd LL13 7PB
Tel: (01978) 364500
Yamaha Cinema DSP Specialist

AMC, MARANTZ, MISSION, MUSICAL
FIDELITY, QUAD, REGA, ROTEL, TANNOY,
ETC.

Family business ask for Chris or Mike.

THE BEST ON TEST

DENON DCD315 CD PLAYER	£149.99
ROTEL RA 930 AX mkII AMP.	£149.95
TDL RTL2 SPEAKERS	£299.99
QED QUDV5 SPEAKERS CABLE MET.	£2.00
CHORD CO. COBRA INTERCONNECT	£49.00

ALL WITH 5 STAR RATINGS AND ON DEMONSTRATION AT

THE AUDIO SHOP

6, HILL STREET, RAUNDS, NORTHANTS. NN9 6NN
TEL: 01933 622325


WEST & WALES

V AUDIO

Tel: 0117 9686005

36 Druid Hill
Stoke Bishop
Bristol BS9 1EJ

ATC, AVI, Acoustic Energy, Aanalysis, Alon,
Audiomeca, Audio Technica, AMC, Analogue
Electronics, Cadence Valve, Chord Amps,
Electrocompaniet, Exposure, Goldring, Harman
Kardon, Heybrook, Jamo, LFD, Lyra, Ortofon,
Perception, Pink Triangle, Ruark, Michell, REL,
Sansui, SME (inc. 20A), Sonic Link, Stax,
Sugden, Sumiko, Townshend, Triangle, Wadia.

Demos by appointment only. Home trial facilities.
Free installations. Servicing facilities. 
We are not a shop

ENGLISH

audio



CYRUS CENTRE

PINK TRIANGLE-AUDION-SYSTEMDEK-HEYBROOK-
MICH-KEF-REFERENCE-MICROMEGA-NAKAMICHI-
CHORD ARCAM-ROGERS-NAD-ROTEL-DENON-
TANNOY-MARANTZ-MISSION-STAX-DUAL-TDL-JPW-
EXPOSURE-YAMAHA-JOHN SHEARNE-AND OTHERS

Free installation. Credit facilities. Service department

Mon - Sat 9.30 - 5.30

37 Whitecross Road, Hereford. HR4 0DE

Technics

AUTHORISED HI-FI SPECIALIST

BUDD WISER HI-FI

Probably the best Hi Fi shop in the World!

104 ALBANY ROAD CARDIFF TEL 01222 493535

NORTH

HI-FI EXPERIENCE

• Arcam • Audiolab • Audioquest • Bang & Olufsen • Chord • Cyrus
• Denon • KEF • Marantz • Meridian • Mission • MF • NAD • Quad
• REL • Rotel • Spondor • Tannoy • TDL • Yamaha • Sony.

Award Winning Hi-Fi from stock - Sales or Service - WE CAN HELP

Tel: (01325) 481418

Fax: (01325) 382982



Britain's Top Specialist Hi-Fi Stores

17 Coniscliffe Road,
Darlington DL3 7EE.

Send or call for your FREE Magazine and Catalogue.  BADA Bonded

HI-FI YOU
CAN'T
AFFORD
not to listen to

EQUIPMENT BY ABSOLUTE SOUNDS,
AUDIO INNOVATIONS, SUGDEN, IMPULSE, MICHELL, ROKSAN,
PINK TRIANGLE, ACCUPHASE, THIEL, COUNTERPOINT, SONIC
FRONTIERS, TRICHORD RESEARCH ETC.
By appointment only

SERIOUS KIT

061-707 4823

• SOUNDS AROUND •

NEW & USED HIFI

Professional Service Repairs and
Accessories

146A Clarendon Park Road, Leicester
Telephone : 0533 702442

SCOTLAND

ANCRUM ELECTRONICS

YOUR LOCAL HI-FI SHOP

PIONEER, TECHNICS, PROLOGIC AMPS + LASER

DISC FOR HOME ENTERTAINMENT

TEL: (01382) 480030

39 GRAY ST., BROUGHTY FERRY DUNDEE

EIRE

• REL • Audiolab • Arcam • B&W •

A Passion for Excellence

CLONEY
Audio
for those who demand the best

55 Main St Blackrock

Tel: 2889449 • 288477

Open: Tue-Sat 10AM-6PM. Thur/Fri 'till 9PM

• Naim • Castle • Epos • Technics • Audioquest • Pink Triangle • Rega •

• REL • Audiolab • Arcam • B&W •

• EAR • Classé • Meridian • TDL •

OVERSEAS



Get on our list -
to get closer to this list.

• MIT MultiCap • Wonder Cap • Kimber Kap • Solo • Howland MusiCap
• Solen • Siemens • Wima • Holco • Rel-Cap • Draloric • IRC • Allen-Bradley
• Jensen • Resista • Vishay • Caddock • Mills • Matsushita • TKD • Noble
• Cardas • Kimber Kable • van den Hul • Discovery • Audioquest • MIT
• Alps • Boms • Shalco • Elma • Electroswitch • Nichicon • Gold Aero • RAM
• Malory • Panasonic HFO • Nichicon • Elna • New Old Stock • Ruby Tubes
• UltraAnalog • Burr-Brown • Crystal • Linear Technology • Analog Devices
• Edison Price • International Rectifier • Hitachi • Motorola • UCC
• MagneQuest • Sonic Frontiers • Pearl • Tube Sockets • WBT • Neutrik
• Sound Coat • Curcio Audio Engineering • Assemblage and other kits

And it's growing and growing. To order The Parts Connection
1995 Catalog & Resource Guide, send £7* and mailing information.
You'll also receive a Discount Coupon worth \$10 off a purchase
over \$100 or \$25 off a purchase over \$250* as well as
The Breadboard bulletin to keep you updated on our latest
news, information and growth spurts.

*or \$10 US, or credit card information
*discount coupon values are in US Dollars



THE PARTS CONNECTION®

A DIVISION OF SONIC FRONTIERS INC

2790 Brighton Road, Oakville
Ontario, Canada L6H 5T4

Toll Free Order Line

1-800-769-0747
(U.S. & Canada only)

Tel (905) 829-5858

Fax (905) 829-5388



Specialist Hi-Fi Dealers

REPAIRS/DIY

G T AUDIO

Fully guaranteed top quality repairs, servicing & upgrading carried out to all types of audio equipment (including valve). Also agents for:- Unison Research, UKD Opera, Croft, Nottingham Analogue, and Posselt. Contact Graham Tricker for details on
01895 833099

THE Service Specialists

From early VALVES [we'll happily re-align your HRO!] to the latest DIGITAL LASERDISC REVOX • TEAC • QUAD • ROGERS • RADFORD • TRESHAM • KENWOOD • ALTOBASS • TASCAM • PIONEER (LASERDISC & HI-FI) YAMAHA etc. Our facilities are already used by Broadcasters, Recording Studios & leading Manufacturers. If you've a quality-equipment problem call us today

AUDIO LABORATORIES (LEEDS)
0113 2440378



Russ Andrews Ltd.
Edge Bank House, Skelsmergh, Kendal,
Westmorland, LA8 9AS, ENGLAND
Tel: 01539 823247 Fax: 01539 823317

If you like the Hi-Fi equipment you have but want a better performance, don't change it -

UPGRADE IT!

You can build better than you can buy and we offer kits, parts and instructions for anything from simple component upgrades to complete rebuilds, plus kits to build high end equipment from scratch.

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 Nytech, Pioneer, Quad, Leak, Radford, Rotel etc....

To receive your copy of our 1994/95 catalogue, just Mail, Phone or Fax the address above.

RESTORATION OF CLASSIC EQUIPMENT

SUITABLY QUALIFIED ELECTRONICS ENGINEER (DEGREE/MAES) WITH OVER 40 YEARS EXPERIENCE AND SPECIALIST KNOWLEDGE OF QUAD, RADFORD, LEAK, ROGERS, AND ARMSTRONG, ETC. EXTENSIVE WORKSHOP FACILITIES ENABLE ORIGINAL STANDARDS ACCOMPANIED BY DETAILED REPORTS OF WORK CARRIED OUT. CLIENTS WILL HEAR THEIR APPARATUS DEMONSTRATED PRIOR TO THEIR DEPARTURE. AVAILABLE 7 DAYS PER WEEK

CIRCUIT DATA ON OFFER (SEND SAE FOR LIST)
TEL 0181 504 5467 WOODFORD, ESSEX

Sowter Transformers
EA Sowters Ltd
PO Box 36
Ipswich IP1 2EL
0473 219390/252794

Output and mains transformers for GEC KT88 circuits. Can also make any other transformer to order. Send SA for lists and data.

REPAIRS/DIY

TECHNICAL & GENERAL

THE ORIGINAL TURNTABLE SPECIALIST for the Great Classical Turntable, Arms, Cartridges, Styli
CONNOISSEUR • GARRARD • GOLDRING • Lenco • ORTOFON • SHURE • S.M.E • THORENS • WATTS

All available Genuine spares and our own re-manufacture obsolete parts
Servicing and Overhuls, to original technical specifications.

NO ILLUSORY 'IMPROVEMENT' NO DUBIOUS OR HARMFUL 'MODIFICATIONS'
Remedial Services available

Cartridge and styli, correct radius diamond, for early recording - 78s & Lps

TECHNICAL & GENERAL

P.O.Box 53 Crowborough, East Sussex TN6 2BY
Tel: 0892 65 45 34

VALVES/TUBES



Chelmer Valve Company
for
Audio Valves

Buy CVC PREMIUM Hi-Fi valves direct from us. All valves processed for improved performance. We also have Stock of MAJOR BRAND types including MULLARD, GEC, BRIMAR, RCA, GE, etc
130, New London Road, Chelmsford, Essex, CM2 0RG
Tel: 01245 265865 Fax: 01245 490064

SOVTEK VALVES

6550WA, 6L6WGC/5881, 6L34C,
12AX7WB/7025, EF86/6267

Over 1000 different types of valves stocked S.A.F. for list
DEPT. HFV

Wilson Valves, 28 Banks Ave, Golcar,
Huddersfield, West Yorks, HD7 4LZ
Tel: 0484 654650/420774 Fax: 0484 655699

Mail order only, Visa etc.

MUSIC

CD SELECTIONS

The UK's leading suppliers of bargain CDs and music for your free catalogue contact

CD SELECTIONS
PO BOX 1011
DORCHESTER DORSET D12 7YG
Tel. 0305 848 725

SERVICES & CONSULTANTS

LORICRAFT AUDIO

Required Garrard 301/401, Thorens TD124, Goldring GL75 any condition or any parts from new to completely used

Tel/Fax/Answer phone -
01488 72267

SPECIAL ANNOUNCEMENTS

AUDIO FAIR

THE SALE OF AUDIO EQUIPMENT OLD AND NEW, ELECTRONIC COMPONENTS, RECORDS, IN FACT ANYTHING TO DO WITH AUDIO REPRODUCTION.

VENUE:
THE EGHAM YOUTH CENTRE
18 HIGH STREET, EGHAM, SURREY
(5 MINUTES FROM JUNCTION 13 M25)

SUNDAY 1ST OCTOBER 1995

10:30AM - 4PM

ADMISSION £1.00

STALLHOLDERS £15.00

LIGHT REFRESHMENTS WILL BE AVAILABLE

CONTACT
GRAHAM TRICKER
ON
TELEPHONE/FAX:- 01895 833099

SERVICES & CONSULTANTS

REVOX SERVICE

A77, B77 PR99

For fully guaranteed professional service and repairs, call RamTek.

Tel: (081) 207 6159. Fax: (081) 953 1118
Suite 33, Kinetic Centre, Theobald Street,
Borehamwood, Herts WD6 4SE

R. J. F.

AUDIO-VISUAL

Tel: 01209 612260 Fax: 01209 710777

A.K.G., Audio Innovations, Audio Analysis, Atacama, Audio Mech, Audionote, Audioquest, Audio Technica, Beyer, Cable Talk, Denon, Foundation, Goldring, Harman Kardon, Impluse, JBL, JPW, Klipsch, Micromega, Monitor Audio, Musical Fidelity, NAD, Nakamichi, Onkyo, Ortofon, Preception, Project, QED, S.D. Acoustics, SME, Sonic Link, Soundstyle, Sugden, Target, TDL, Teac, Triangle, Trichord, Vivanco

TO ADVERTISE IN THIS SECTION PLEASE CALL HI-FI WORLD

ADVERTISING SALES ON 0171 289 3533 01245 443555

A reference guide to Britain's Manufacturers and Distributors.

M
e
e
t
-
Y
O
U
R
-
M
a
k
e
r

ACOUSTIC ENERGY 3a Alexandra Road, London W13 0NP. Tel: 0181 840 6305. 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.

ACOUSTIC SOLUTIONS is a bespoke manufacturing and design company. We specialise in tailor made loud speakers and interconnects. We have ongoing development projects in loudspeaker design. All products are continually reviewed in order to maintain an unequivocal service. Phone us for a chat or advice on 0973 149392. ASL, 18 Tamar Rise, Chelmsford, Essex.

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 Tel: 0181 883 3008

ALEMA UK LTD., 25 Montifore Road, Hove, BN3 1RD. Tel: 01273 202637. Audion "Edison" Andersons "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 Tel: 0121 520 5070. Fax: 0121 522 2055. All export trade enquiries welcome.

ARCAM, Pembroke Ave, Denny Industrial Centre, Waterbeach, Cambridge, CB5 9PB. Tel: 01223 440964 or Fax: 01223 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 clout" - 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!

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.

AUDIONOTE CO. Unit 1, Block C, Hove Business Ctr. Fonthill Road, Hove BN3 6HA. Tel: 01273 220511. Audionote supply a range of very high quality and very expensive audiophile components including valve output transformers.

AUDIOPHONICS - The Art of Sound Reproduction. Bespoke design and manufacture of audio systems including: Loudspeakers with metal cone drivers; CASO spheroidal speakers in hand carved marble with matching FBX150 Bass. New Athens range coming soon. Amplification: Zeus semiconductor zero feedback push-pull or single ended output transformer monoblock power amplifiers and pre-amplifiers.

3 Meldone Close, Surbiton, Surrey KT5 9HD. 0181 390 6480. Email: info@apnixon.com.uk

CABLE TALK PO Box 413, Woking, Surrey, GU22 8YZ. Telephone 01483 750667. Fax 01344 360866. Designers and manufacturers of British made high quality, value for money, interconnect and speaker cables. Phone or fax for a free full colour brochure on our What Hi-Fi? 5 star rated products.

CAMPAIGN AUDIO DESIGN, Llandudno Road, Cardiff CF3 8PG. Tel: 01222 779 401. Supplies / manufactures mailorder, high purity silver interconnects, loudspeaker cables, internal wires and bespoke mains cables. Generic two week trial period.

CANFORD AUDIO PLC, Crowther Road, Washington, Tyne & Wear, NE38 0BW. UK Sales 091 415 0205. Admin 0191 417 0057. Fax 0191 416 0392. UK's leading manufacturer and distributor of professional audio equipment 9000+ products are detailed in a bi-annual catalogue which is available free of charge to professional users. Next day deliveries when possible.

CHORD ELECTRONICS LIMITED, 3 Bower Mount Road, Maidstone, Kent ME16 8AX. Telephone: 01622-764874 Fax: 01622-688480. We have recently complemented our highly acclaimed SPM range of power amplifiers with 2 superb pre-

amps - the CPA 2800 + CPA 4000as well as the BBC qualified L55/12A loudspeaker & L5/12 bass extension system. Call us for copies of reviews that will leave you wanting details of your nearest retailer.

CREEK AUDIO LTD 2 Bellevue Road, Friern Barnet, London N11 3ES. Tel: 0181 361 4133. Fax: 0181 361 4136. Manufacturers of the 4240 Integrated Amp, P42 and A42 Pre/Power Amps, CD42 CD Player. Please write for further details. The Exultant Power Amp fitted to Quad II Hardware.

CONNECTIONS U.K. Custom made interconnects direct the manufacturer, all individually made in our Cambridgeshire workshop. Range includes the five star rated 'Jade' (£21 inc.p+p) and new updated 'Jade Ultra' (£28 inc.p+p). To order send cheque/P.O. payable to Connections U.K. to 49 Bishops Road, Peterborough PE1 5AP Tel/Fax 01733 897379. Orders normally dispatched within 10 working days.

DBS AUDIO, P.O. Box 91, Bury St Edmunds, Suffolk, IP30 0NF. Tel: 01284 828 926 Fax 01284 828 026. DBS Audio supply quality loudspeaker kits designed by Dave Berriman. The DBS 6, features a custom-built 8-inch cast-chassis woofer with high-power voice coil, Morel high-power tweeter, and ready-assembled crossover with Van den Hul cable ICW 630V polypropylene capacitors and bi-wired with gold-plated terminals. By popular demand DBS4II is now upgraded to MkIII (upgrade kit available). New designs are planned. Also, UK distributor for the CLIO professional quality (but easy to use) PC-based audio measuring system. Access/Visa accepted

D H M DESIGN, - BUNDEE CD REPAIR PROTECTION SYSTEM- Tried and tested on Tomorrow's World. Repairs and protects over 50 CD's, even those scrubbed with steel wool. Effective for all laser disc formats including CD ROM, MiniDisc and CDr. RRP £14.95. Why buy a new one when you can clean, repair and protect fifty? Contact David Mather for details of your nearest stockist or distributor. Export enquiries welcome. DHM Design Ltd, Studio 6, Bentinck Court, Bentinck Road, West Drayton, Middlesex. UB7 7RG Tel: 01895 449559 Fax: 01895 420540

ECA DISTRIBUTION: For the "naturally neutral" chain. Nothing added; nothing taken away. The VISTA line-amp. The LECTERN S power-amp (Awarded Best Buy - Hi-Fi Choice August 95) and the SERVO A.2 speakers. Resulting from their own Research and Development, the ECA Design Team provides a "super-symmetry" circuit with the barest minimum of wiring in the amps vacuum impregnated air-coils in the custom-made midrange unit for the speakers. P.O.Box 3023 London NW2 7RW Tel: 0181 830 5128

ELECTROFLUIDICS, 27 Fournier Street Spitalfields London E1 6QE Tel: 0171 247 0813. Makers of the acclaimed Sonolith loudspeaker series and Monolith 20/20 cable. Mineral polymer enclosures, controlled - flexure alloy - coned drive units, ultra - low impedance wide - band feeds: extraordinary clarity, control and resolution.

ELYTON ELECTRONICS (Yutone), c/o Don Fordy Ltd., 4 Abertawe House, Ystrad Road, Swansea, SA5 4JS. Tel: 01792 - 588862 or Fax: 01792 - 588865. Elytone Electronics (formerly Yutone Industrial) are Taiwanese OEM manufacturers of high quality Loudspeaker, Crossover Networks and associated components. Don Fordy Ltd. are the UK agents for Elytone.

EMF, 2a Bellevue Road, Friern, Barnet, N11 3ES. Tel: 0181 361 6734. Manufacturer of Sequel 50w integrated amplifier and the Crystal D2A converter Amplifier and DAC. Please write in for details.

FALCON ACOUSTICS LTD., Tabor House, Norwich Road, Mulbarton, Norwich, Norfolk, NR14 8JT. Tel: (01508) 78272. U.K. distributors of FDCAL 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. "Everything but the wood"

FULLERS AUDIO, 20 Tunbridge Road, Southend on Sea, Essex SS2 6LT. Tel: 01702 612116. Fuller's audio produce a range of innovative products. Amplification - a10 a single ended class A semiconductor power amplifier - £1200, b70 a mosfet power amplifier of high standard - £599. pre1 and pre2 + matching pre-amplifiers - £599/£649, geni phono stage for mm and mc cartridges £299. Loudspeakers - Pharoah system, upgradeable from 1 pair of cabinets to 3 pairs for

truly extended bass, passive/active options £649-£2499, Sphinx a 3 way floor standing unit £849, Sultan H.E., 98dB sensitivity £439, matching Sub Woofer £559, Sultan, 91.5dB sensitivity £309.

IAN EDWARDS, The Did Chapel, 282 Skipton Road, Harrogate, Yorks. Tel: 01423 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.

JORDAN WATTS ACOUSTICS LTD. Cyntia Place, 201 Mare Street, Hackney, London E8 3QE. Tel: 0181 985 1646. Jordan Watts Acoustics for Sight AND Sound.

KESWICK AUDIO RESEARCH, 54 Coach Road, Outwood, Wakefield, W Yorks, WF1 3EX. Tel/Fax 01924 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.

KRDONS DISTRIBUTION, 35 Furlough Road, Dunganon, N. Ireland. BT714 DU. Tel: 01868 748632. Fax: 01868 448281. Kronos is the UK distributor of some of the finest Hi Fi products in Europe. These include Audiomeca digital products and turntables; Lieder silver speaker and interconnect cables; Pro-ject turn-tables and amplifiers; Triangle speakers and electronics; and YBA amplifiers. We also handle Frameworks equipment tables; Arion valve amplifiers and mains filters and Essex Audio digital products from the UK. Please telephone or write for product details and dealer lists.

LANGREX SUPPLIES LTD., 1, Mayo Road, Croyden, Surrey, CR0 2DP. Tel: 0181 684 1166. Fax: 0181 684 3056. We are one of the largest stockists and distributors of electronic valves, tubes and semiconductors in the UK. Over 6,000 types in stock. We specialise in obsolete types including original UK and USA made audio valves. Telephone or fax for an immediate quotation.

LINN PRODUCTS LTD, Floors Road, Waterfoot, Glasgow G76 0EP, Scotland. Customer Helpline 0500 888909. LINN HI-FI faithfully captures the source signal, nurturing and protecting it through every stage of the playback chain. All you have to do is listen to decide for yourself how good a sound you want. Call the LINN Customer Helpline free for further information on LINN HI-FI and LINN RECORDS, or to find your nearest retailer.

LORICRAFT AUDIO, 4 Big Lane, Goose Green, Lambourn, Berks RG16 7SQ. Tel: 01488 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.

MAY AUDIO MARKETING U.K. LTD. 83 Main Street, Burley in Wharfedale, North Yorkshire LS21 7BU. Tel: 01943 864930. Distributors of High Quality audio products from Duson Electronics. Totem Loudspeakers, Jecklin Float Headphones and quality recordings from Proprius, Prophone, Opus, MAP and Swedish Society. IF ITS MUSIC YOU LOVE, TELEPHONE OR WRITE FOR LITERATURE.

MICHELL, 2 Theobold 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 0181 953 0771. Michell - Symbol of Precision

MONITOR DIRECT, Unit 80, Woolmer Trading Estate, Bordon, Hants, GU35 9QF. MONITOR, the best in home Hi-Fi cables and connections is now available direct (mail order only). Call 01420 476767 or fax 01420 477137 for your free catalogue. Cable prices vary from 0.35p to £14.50. We are now offering a "try before you buy" service for our more expensive cables.

NOTTINGHAM ANALOGUE STUDIO, Tel: 01773 762947. Design and manufacture of quality analogue audio. We're in the business because we realise how important music is. Our turntable arms and cartridges sell the world over a commitment to providing all our customer's with the best of analogue. We love music.

PLATFORM 7. High density marble ISOLATION PLATFORMS for all makes of equipment RACKS/STANDS. An elegant way to UPGRADE. Improves clarity; better BASS control. 3 Abbots Drive, North Wembley, Middlesex HA0 3SB. Tel: 0181 904 2646. Also NEALGAR DISTRIBUTION Tel/Fax 01296 24756.

QUANTUM AUDIO LTD. PO Box 26, 1 Oliphant Drive, Kilmarnock KA3 7JA. Tel: 01563 71122

Fax 0563 71133. Quantum's craftsmen produce the £899.99 MINSTREL 30 Watt, Ultra Linear, zero feedback correction, integrated, line level, valve amplifier. Don't buy any old fashioned valve amplifier before hearing the unique improvements modern technology provides to valve sounds. AAn audition will immediately convince the listener of the Minstrel's superiority.

SELECT SYSTEMS (PERFECT PITCH MUSIC), Hanworth Trading Estate, Hampton Road West, Feltham, Middlesex, TW13 6DH. Tel: 0181 893 8662. Fax: 0181 893 4318. We manufacture the Franciscan 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. Trade enquiries welcome.

J E SUGDEN & CO LTD., Valley Works, Station Lane, Heckmondwike, West Yorkshire, WF16 0NF. Tel: 01924 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-1 CD Player, A21a Class "A" Amplifier, A25B Intergrated Amplifier, A48 Intergrated Amplifier, Au51c Pre Amplifier, Au51p Power Amplifier and more.

REL ACOUSTICS, Unit 2, New Street, Bridgend Ind Est. Bridgend, Mid Glamorgan, CF31 3UD. UK. Tel: 01656 768 777, international +44 656 768 777. Fax: 01656 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.

REL HARMAN AUDIO, Unit 2, Borehamwood Ind. Park, Rowley Lane, Borehamwood, Herts. WD6 5PZ. Tel: 0181 207 5050, Fax 0181 207 4572. Sub Base Systems - Rel Strata, Stadium, Stentor, Studio

RICHARD ALLAN AUDIO, Bradford Road, Gomersal, Cleckheaton, W Yorks. BD19 4AZ. Tel: 01274 872442. Fax 01274 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 £70 reviewed Minette 2 at £120.

SEQUENCE DESIGN LTD. 83 Main Street, Burley-in-Wharfedale, Yorkshire. LS29 7BU. Tel: 071 495 0775. Fax 0171 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 P O BOX 22. Stevenage, Hertfordshire SG2 8HF, England Tel: 01438 740953. New from Shearne Audio the Phase 3 power amplifier A50 watts per channel designed as an upgradeable path for the Phase 2 integrated. Owners of the Phase 2 can bi amp via the pre outs on the back of both units connecting the Phase 2 to the tweeters of both speakers and Phase 3 to the bass units. The Phase can also be used to complement different systems.

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.

TRICHORD RESEARCH LIMITED Following on from the highly acclaimed CD clock oscillator modifications the Pulsar Series One digital to analogue converter. This unique design is part multibit and part bitstream to give absolute linearity over an extremely wide dynamic range. Switchable between 18 or 20 bit resolution this converter will become the standard for CD replay. For details telephone (0684) 573524

WILMSLOW AUDIO LTD, Wellington Close, Parkgate Trading Est. Knutsford, Cheshire, WA16 8DX. Tel: 01565 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.

REPAIRS & DIY

SOUNDS AROUND. 146A Clarendon Park Road, Leicester. Tel: 01533 702442. New and used Hi-Fi. Professional service repairs and accessories.

KITS HAVE NEVER BEEN SO GOOD!

NEW - K6L6 35W INTEGRATED £295

K6L6 - A high performance 35watt integrated valve amplifier using 6L6 beam tetrode valves. It has four line inputs and a tape output. It is a compact design that will fit into any system bringing valve transparency, warmth and detail. See P. 7 in this month's supplement for further details.



NOW £339!

4W SINGLE-ENDED VALVE AMP KIT £385

The 4W Single-Ended amplifier kit is a line level integrated amplifier. It comes with three line level inputs and a tape output. High quality components are used throughout, including polypropylene signal capacitors, Alps volume control, custom C&K gold plated selector switch etc. Valves are included.

PRE-SEASON SALE DISCOUNTS ON K5881, K5881PSE AND 4WSE VALVE AMPLIFIER KITS FOR ORDERS PLACED BETWEEN 1/9/95 - 31/10/95



NOW £549!

K5881PSE KIT £650

An audiophile parallel-single-ended valve amplifier at an affordable price. K5881PSE uses the reliable Russian 5881 output valve in parallel-single-ended mode for outstanding detail and atmosphere. It produces 17watts, enough to drive most loudspeakers, making high-end sound quality and design available to everyone. Can be easily monoblocked to give 32watts.

K5881 KIT £395

A superb, Class A, 20watt stereo power amplifier that uses the Russian 5881 output valve, a military version of the American 6L6, designed for low distortion audio work.

Designed for long life, low running costs and excellent sound quality, K5881 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.

NOW £349!



World Audio
design

Tel: 0171 289 3533

WARNING

THESE ARE EXPERT KITS, NOT FOR THE INEXPERIENCED. World Radio History



300B VALVE AMP KIT £850

This is a specialised 28watt amplifier based on the highly linear 300B triode valve. Our 300B runs in Class A, giving one of the most sweet, open and neutral sounds possible today. Matched with good loudspeakers, it is unsurpassed. All parts are included in the kit, except valves since different 300B makes are available.

KLS3 THREE WAY CARBON-FIBRE DRIVER LOUDSPEAKER

KLS3 uses extremely light and stiff carbon fibre cone drive units for a fast and accurate sound. A dedicated 4inch carbon fibre midrange drive unit provides the cleanest, smoothest and most detailed midrange characterised by superb projection. Its high 90dB sensitivity and near flat 8Ω impedance make it one of the easiest loudspeakers to drive.

Drive Unit & Crossover kit etc £350
Drive Unit Pack £230

KLS4 TWO WAY CARBON-FIBRE DRIVER LOUDSPEAKER

A two way standmounter using stagger-tuned reflex loading for good bass and light and fast carbon fibre drivers.

Drive Unit & Crossover kit etc £230
Drive Unit Pack £120

KLS6 ADVANCED TECHNOLOGY THREE WAY LOUDSPEAKER

KLS6 is our most advanced loudspeaker to date using a combination of Audax's HD-3P gold piezo-electric dome tweeter and High Definition Aerogel (HDA) midrange and bass drivers. To provide super bass depth and dynamics, an 8" HDA bass driver is used in a large, efficient reflex enclosure. With 89dB sensitivity, and a smooth impedance curve, KLS6 can be easily driven with amplifiers capable of producing 20watts or more.

Drive Unit Pack £640
Drive Units & Crossover kit etc. £825

KLS 7 TWO WAY CARBON FIBRE DRIVER FLOORSTANDER

A compact and affordable two way reflex loudspeaker. KLS7's slim dimensions make it easy to accomodate, but it uses light and fast carbon fibre drivers, so performance isn't compromised. An audiophile bargain.

Drive Unit Pack £110
Drive Units & Crossover kit etc. £195



KLP1/KLPP1 PREAMPLIFIERS



KLPI VALVE LINE PREAMPLIFIER £345

The KLPI line level preamplifier uses one of the simplest and most elegant circuits to give a sound with remarkable clarity and detail. The components are all high quality and include Military Spec. Russian valves, Alps potentiometer, polypropylene signal capacitors, silver plated copper wire etc.

KLPP1 VALVE PHONO PREAMPLIFIER £495

KLPP1 has five line inputs, a tape input with monitor, and a unique low noise valve MM/MC phono stage. There is a switchable subsonic filter to prevent output transformers of valve amplifiers saturating. The line stage has gain, so it will drive any power amplifier. Audio grade components are used and many parts are custom made for highest quality.

KLPP1 has a super clear sound, sweet and detailed through line and phono inputs.

HIGH TECH AUDAX DRIVE UNITS

This range of Audax drive units sees many modern high tech materials and technologies that would normally be unavailable to the home constructor. We offer a small range of the highest quality drivers, including High Definition Aerogel (HDA) units, carbon fibre and three superb soft dome tweeters.

CAST CHASSIS UNITS

	3inch mid	4 inch mid	6.5inch bass/mid	
8inch bass				
HDA	HMI100Z0	HMI130Z0	HMI170Z0	HM210Z0
CARBON FIBRE		HMI130C0	HMI170C0	HM210C0

FABRIC DOME TWEETERS

- TW025M0 (25mm 92dB suitable for 2-way systems)
- TW025M1 (25mm 92dB suitable for 3-way systems)
- TW034X0 (34mm 93dB a large dome with powerful sound)
- OVAL GOLD DOME TWEETER HD-3P (complete with crossover. Works extremely well with HMI100Z0 - ultra flat response from 400Hz to 20kHz.)

DEMONSTRATIONS!!

Selected World Audio Design Products are on demonstration at:

2nd Audio
17 Maritime Court,
Harboro Rd,
Sale.
Tel: Andy on
0161-969-0460

Horsham Hi-Fi
28 Queensway,
Horsham,
W. Sussex.
Tel: Jeff on
01403-251587

Please 'phone before you visit



World Audio
design

Tel: 0171 289 3533

WARNING

THESE ARE EXPERT KITS, NOT FOR THE INEXPERIENCED

See page 85 for order form...

LINN RECORDS

MERRY CHRISTMAS FROM LINN RECORDS!

LINN RECORDS

CAROL KIDD
STEPHANE GRAPPELLI
MARTIN TAYLOR
DAVID NEWTON

linn Jazz
1995

CLAIRE MARTIN
TOMMY SMITH
RAY GELATO GIANTS

For a taste of the Linn Records Jazz catalogue why not try

LINN JAZZ 1995

CD SAMPLER : PRICE ONLY £4.99

CALL US NOW FOR A FREE CATALOGUE OF ALL LINN RECORDINGS

tel: 0141 303 5029 or fax: 0141 644 4262

Linn Records, Floors Road, Waterfoot, Eaglesham, Glasgow G76 0EP

TOP QUALITY VINYL SPECIAL OFFER!

The following top quality titles are available to HiFi World customers at the special price of **ONLY £7** including postage and packing

Classical

- | | | |
|---------|-------------------------------------|---------------------------------|
| CKH 007 | NEW LONDON CONSORT | Columbus |
| CKH 011 | NEW LONDON CONSORT | Elizabethan & Jacobean |
| CKH 010 | PALLADIAN ENSEMBLE | An Excess of Pleasure |
| CKH 013 | NIGEL NORTH | Bach on the Lute Vol 1 |
| CKH 029 | NIGEL NORTH | Bach on the Lute Vol 2 |
| CKH 006 | NIGEL NORTH | The Baroque Lute |
| CKH 001 | POLISH CHAMBER ORCHESTRA | Live Concert |
| CKH 002 | WILLIAM CONWAY / PETER EVANS | Poulenc Cello Sonatas |
| CKH 003 | ENGLISH CLASSICAL PLAYERS | Mozart Symphony 40 |
| CKH 004 | LENINGRAD SYMPH ORCHESTRA | Shostakovich Symphony No 5 |
| CKH 005 | JILL FELDMAN | 17th Century Italian Love Songs |

Jazz

- | | | |
|---------|--------------------------|------------------------------|
| AKH 030 | MARTIN TAYLOR | Spirit of Django |
| AKH 020 | MARTIN TAYLOR | Artistry |
| AKH 022 | MARTIN TAYLOR | Reunion |
| AKH 016 | MARTIN TAYLOR | Change of Heart |
| AKH 014 | MARTIN TAYLOR | Don't Fret |
| AKH 006 | CAROL KIDD | Nice Work |
| AKH 007 | CAROL KIDD | The Night We Called it a Day |
| AKH 017 | CAROL KIDD | I'm Glad We Met |
| AKH 026 | CAROL KIDD | Crazy for Gershwin |
| AKH 018 | CLAIRE MARTIN | The Waiting Game |
| AKH 021 | CLAIRE MARTIN | Devil May Care |
| AKH 028 | CLAIRE MARTIN | Old Boyfriends |
| AKH 024 | TOMMY SMITH | Reminiscence |
| AKH 040 | TOMMY SMITH | Misty Morning & No Time |
| AKH 013 | DAVID NEWTON | Victim of Circumstance |
| AKH 015 | DAVID NEWTON | Eye Witness |
| AKH 025 | DAVID NEWTON | Return Journey |
| AKH 019 | STEVE GIBBONS | Birmingham to Memphis |
| AKH 023 | JON STRONG | Follow Me |
| AKH 034 | RAY GELATO GIANTS | The Full Flavour |

All these titles and many more are also available on CD - price **£13** including postage and packing

MI HELL GYR DEC AND QC POWER SUPPLY



A SYMBOL OF PRECISION

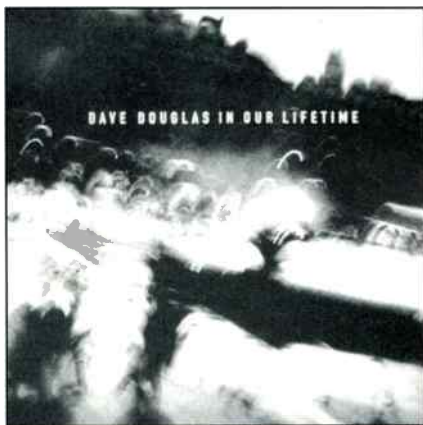


"THE MOST DESIRABLE DECK BELOW £1500"
Ken Kessler - Hi-Fi News & Record Review August '94

Michell Engineering, 2 Theobold Street, Borehamwood, Herts WD6 4SE
Tel:- 081 953 0771



Simon Hopkins



DAVE DOUGLAS
In Our Lifetime
 NEW WORLD COUNTERCURRENTS
 80471-2

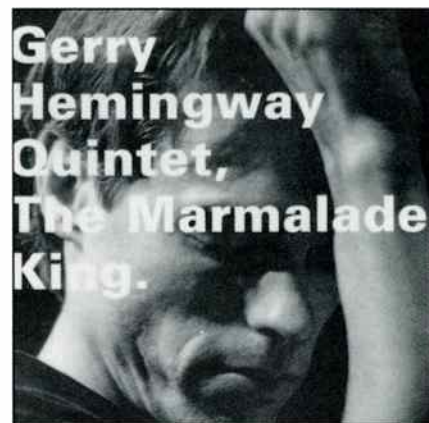
● A nice place to start a quick romp through some of the more interesting and enjoyable releases which have stacked up this summer, which I

affectionately think of as “straight” jazz. Trumpeter Dave Douglas is unknown to me aside from his sterling contributions to John Zorn’s Masada group, but given his leadership of this group, that’s my loss. On *In Our Lifetime* he’s joined by clarinetist and tenor saxist Chris Speed, trombonist Josh Roseman, pianist Uri Caine, bassist James Genus and guest bass clarinetist Marty Ehrlich. Joey Baron, Douglas’ colleague in Masada, Zorn cohort in *naked city* and co-leader of the highly underrated *Miniatures*, also joins as the man I’m sick to death of describing as the most exciting drummer working in contemporary jazz. Period.

Now this kind of all-acoustic post-bop, going on hard-bop, going on free jazz, is one that doesn’t generally feature in this column. This music has been done to death for thirty years now, and one’s generally tempted to ask, “what’s the point?” But, these musicians bring such a cracking blend of grace, enthusiasm, (for once) highly focused virtuosity and visceral energy to a set of pieces written by either Douglas or Booker Little, that the music often transcends itself; a rare, and highly prized thing, indeed. Ripping stuff.

GERRY HEMINGWAY
QUINTET
The Marmalade King
 HAT ART CD6164

● Having raved back there for an instant about Joey Baron, I have to say that another young drummer, albeit a very different player indeed, has ranked



up there with him in terms of the last decade or so’s most exciting skin-bashing; Gerry Hemingway. On *The Marmalade King*, a nigh-on hour long five part suite, Hemingway gets to lead a quintet of some of the more adept and considerate young improvisors working in contemporary jazz; saxist/clarinetist Michael Moore, bassist Mark Dresser (for my money just about the best jazz double bassist to have emerged in the last decade), trombonist Walter Wierbos and the stunning and highly mercurial Dutch cellist Ernst Reijseger.

Now to some extent, we’re talking a similar territory here to the Dave Douglas album, highly energetic acoustic post-bop, but there’s an altogether different sense of musical order at work on this set. The suite Hemingway has composed (and why is it that jazz drummers have often turned out to be such good-composers, from Max Roach and Paul Motian through to Baron, Hemingway and Bobby Previte currently? There’s something to ponder over a swift half) is a densely structured, polyrhythmic affair with tightly written

parts. While its central program, a children's fantasy story, is not really entirely evident, its deep architecture emerges and it's perhaps the complexity of the composition here which coaxes such searching and intense solos from its performers.

Cracking playing all round, but definitely a special mention for Reijseger, whom I've meant to get round to talking about before. Given that it's surely an instrument capable of perhaps one of the most gorgeously expressive sounds created by man, it's sad that the cello is largely absent from the essentially post-military instrumentation of jazz. Sure, bassist after bassist has tried to capture the cello's warmth by playing arco, but nothing comes close. Reijseger, in all kinds of stellar company, has taken the instrument into new worlds and shines here throughought.



STEVE LACY QUARTET
Revenue

SOUL NOTE 121234-2

● Now as far as this kind of searching, complex acoustic jazz goes, American-born, European resident soprano saxophonist Steve Lacy must be regarded as a really key figure. A musician with a daunting discography, he's simultaneously one of the most revered and unknown innovators to have graced jazz over the last thirty years. Throughout a career that includes collaborations with some of the very earliest pioneers of avant garde jazz - Thelonius Monk, Cecil Taylor, Jimmy Giuffre - and some of Europe's most dauntingly experimental improvisors -

Derek Bailey, Evan Parker - his playing has nonetheless always retained some spark from his initial love of Dixieland. His exclusive playing of the soprano (an instrument he apocryphally inspired John Coltrane to use, with pretty staggering consequences for three subsequent generations of jazz saxists) has always retained the unerasable cry of the blues.

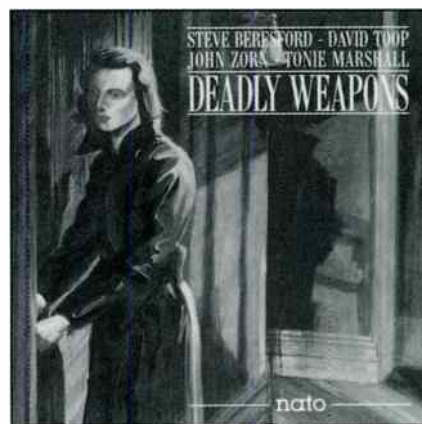
That said, like the sheer size of his catalogue, Lacy's music is daunting stuff. Revenue captures him with a quartet scaled down from his regular sextet: alto and soprano saxist Steve Potts (a great player himself), bassist Jean-Jacques Avenel and bassist John Betsch. Together the music they play ranges from the intensity of the Hendrix tribute 'The Uh Uh Uh', to the delicacy of the Johnny Hodges portrait 'Esteem'. To all this music the group brings a level of spontaneity that's a tribute to the years they've spent playing together, and an object lesson to those gigging jazzers who simply throw groups together at a moment's notice expecting sparks to fly.



TOMASZ STANKO
Music For K

POWER BROS 00131

● Meanwhile, reissue label Power Bros seems to be hell-bent on rediscovering some forgotten gems in the small but generally highly captivating world of Polish jazz. Trumpeter Stanko is perhaps the best known of Polish contemporary jazz musicians, and with good reason. His body of work takes in free jazz, a typically north or east European folk-tinged hard-bop, and solo recordings of an almost proto-New Age plangency. 1970's Music for K, a tribute to the phenomenal Polish pianist Krzysztof Komeda, who died tragically young the year before, sees Stanko lead an all-Polish quintet through a breathtaking, blistering hard-bop/free jazz set. Highly recommended.



STEVE BERESFORD, DAVID TOOP, JOHN ZORN, TONIE MARSHALL

Deadly Weapons
NATO DK018 53021 2

● And finally, away from all this acoustic jazz mayhem, a timely CD reissue of a 1986 recording (I've no really accurate idea when the French record label did reissue this, but I've certainly only recently come across it in the UK) which, though flawed, offered paths forward for both improvised music and that area of environmental or imaginary soundtrack, or soundscaping or whatever, which would later get tagged "ambient". These terms emerged in the considerable wake of rave's rediscovery of producer, musician and musico-cultural theorist Brian Eno's original conception of a music which could simultaneously exist as background and deep listening material.

A quick run through the shared backgrounds of these musicians reveals some of the depth of musical knowledge and vision at work here. John Zorn, of course, has featured so regularly here as to make most of you yawn, I'm sure; over the last decade and a half the jazz alto saxophonist, multi-reed improviser, post-Cagean composer, arranger, producer, and record label mastermind, has been responsible for the most exhilarating - and often most shocking - music offered up anywhere, regardless of genre.

British improviser and multi instrumentalist Steve Beresford is certainly a mercurial figure, whose CV stretches from radical weirdo improv to this year's highly recommended Signals For Tea. This is a collection of melded tricky little songs with the odd, momentary dash of be-bop thrown in for good measure.

Meanwhile David Toop remains unquestionably one of the most important musicians currently working in England. He is known now by the post-rave electronica community for

Jazz

last year's *Buried Dreams*, a beautiful and terrifying collaboration with fellow improviser and sculptor Max Eastley. Toop was best known through the 80s as a music journalist whose writing brought together thoughts about music as diverse as disco, improv, rap, jazz and salsa - to pick some at random. What Toop has demonstrated on the all-too-few occasions he's appeared on record is that he possesses a thorough-going understanding of - and awe for - the arcane and hidden rites which the finest and deepest music can either illustrate or reveal.

Vocalist Tonie Marshall, I'm sad to report, is otherwise unknown to this hack, and her beautifully sung and spoken contributions to the material, highlight what a shame that is.

There's something special at work here, some theme or agenda which my woefully limited knowledge of either French or the cinema prevents me from accessing, but who gives a flying one. This music leaps from atmosphere to atmosphere, from genre to genre, from theme to theme with a seductive ease, and while it's thoroughly picaresque nature will alienate some listeners, it would take stone ears not to be aware of the level of mutual understanding happening here, and a stone heart not to be charmed by it.

Simon Cooke



THE ORIGINAL AMERICAN DECCA RECORDINGS
Billie Holiday
 GRP 16532

● Just about everyone has a favourite Billie Holiday song, maybe 'God Bless the Child', probably 'That Ole Devil Called Love', and what about 'Solitude',

or perhaps the slowly-waning 'Lover come back'? If you do, and if you want to hear more of that proud, frail voice, then this compilation is definitely worth considering.

Like the American Decca releases I've reviewed before, this is a passable - even comprehensive - slice of her work, and almost all of the originals are still in acceptable condition, making it a purchase worth considering for the Billie Holiday fan of today. Recommended.



SPEED OF LIGHT
Flora Purim
 BW044

● The names of Flora Purim and her husband Airtio Moreira are, to many, synonymous with Latin American music and although there is a growing awareness of South American music in this country, they remain among the best-known names. 'Speed of light' - Purim's first project in five years - shows that they deserve this relatively exalted status.

Heavily layered with percussion, vibrant with syncopation, and showcasing Purim's sparkling vocals, this is even more of a family project than usual as Diana Moreira adds backing vocals to her parents' fire.

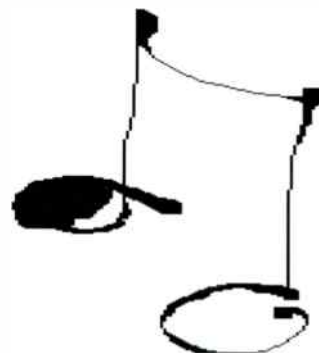
The list of musicians on this CD is liberally dotted with names like Giovanni Hidalgo (percussion), Jose Neto (Guitars) and Alphonso Johnson (bass); all players who can provide the quality of music demanded by the stars. The technical teams from both Santa Barbara and Real World Studios have conscientiously and fastidiously translated the performances into an exhilarating and enjoyable disc which simply drives energy through the 'speakers and into the room, and although I have to say that I consider Purim a 'safe bet' for this kind of quality, I still raise my hat to B&W for producing another cracker.



SOUND ADVICE
Byron Wallen
 BW063

● Staying with Airtio Moreira, who guided the production of, and provides much of the percussion on this album, which is headed by London-based trumpeter Byron Wallen, we come across an offering which is noticeably more rough and rumbustious than *Speed of Light*, whilst treading a similar - but less Latin influenced - path.

Again, impressive reputations lend weight to this recording. Ed Jones on soprano sax, Gary Crosby on bass, Jose Neto again, and the inimitable Orphy Robinson on vibes, all make their mark, but it doesn't really hang together the way that 'Speed of Light' does. It is difficult to actually pinpoint the fault since the musicians play well and the recording is much more than merely workmanlike, yet I still feel that this is a lesser recording than Purim's. Perhaps Wallen's arrangements are at fault, or possibly he does not have the reputation, charisma, or sheer bloody-mindedness necessary to weld these musicians into a coherent whole. It is possible that the intention behind this project was to create a less structured, more competitive and raunchy product than Purim aimed for. Unfortunately, I find it a less engaging CD than *Speed of Light* and so my verdict must be that it's a good recording of Wallen's band, but whether you will like it or not is not for me to say.



AVON

AUDIO EXCELLENCE 65 Park Street, Bristol BS1 5PB. Tel. 01179 264975 Fax 01179 251327. All that's best in hi-fi carefully selected and demonstrated by friendly knowledgeable staff, at prices to suit all budgets. Delivery and installation, home dems, part exchange, in house workshops, full credit facilities with interest free on selected items. Tuesday - Saturday 9.00 - 5.30. Closed Monday.

PAUL GREEN HI-FI LTD. Kensington Showrooms, London Road, Bath. Tel. (01225) 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. 01272 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, Sansul, Sonic Link, Stax, Townsend, Audio Technica, Goldring, Ltra, Ortofon, Sumiko. Demos by appt only. home trial facilities, free install. service facilities.

THE RIGHT NOTE, We specialise throughout the West Country and Wales in giving advice and demonstrations in your own home, where you can best judge the benefits. Your long-term satisfaction is our aim. Brands stocked for their excellent sound (not just a passing review), their reliability and suppliers' back-up: Lumley Reference (amps and speakers), Michell, Orelle, CAT, Stratosphere, Graaham, Magnum Dynalab, Transfiguration, NEAT, Sequence, Cogan Hall, Silver sounds, MAF, Atacama Air Pods etc ... Tel: 01225 874728 and 01426 315092

BEDFORDSHIRE

TECHNOSOUND LTD., 79 West Street, Dunstable, Beds. Tel: 01582 663297 - See our main entry under Bucks.

RICHARD'S AUDIO VISUAL, 4 Greyfries Bedford. Tel: 01234 365165. Stockists of: Arcam, Audio Innovations, Audioquest Aura, Beyer, B&W, Bose, Celestion, Cyrus Denon, Heybrook, Marantz, Mission, Moth, Musical Fidelity Nakamichi, Ortofon, Pioneer, Pro-Ject, Rotel, Royd, Ruark, Sennheiser, Systemdek, Target, Thorens, Van den Hul & more! Expert friendly service : Listening room. Pioneer Reference Point. Visa / Access.

BERKSHIRE

NEWBURY AUDIO, 2 Weavers Walk, Northbrook Street, Newbury, Berks, RG13 1A1. Tel. 01635 33929. Linn, Creek, Epos, Denon, Nakamichi, Shahinian, 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.

ASTLEY AUDIO, Wallingford, 01491 839305. See our entry under OXFORDSHIRE

AUDIO ILLUSION 23 Langley Broom, Langley, Berks, SL3 8NB. (2 mins. Junc 5 off the M4). Ample free parking. Tel. (01753) 542761; Fax. (01753) 772532. Air Tangent: Apogee: Audio Alchemy: Audio Research: Classe: Copland: Davidson Roth: Densen: Earmax: Jadis: Koetsu: Kora: Krell: Lineaum: Martin Logan: Micro Seiki: Mirage: Musical Fidelity: PS Audio: Sonus Faber: Sumiko: Target: Theta: Wilson: Puresonic, Siltech and Transparent Cables: WBT. 10.00AM-10.00PM Monday - Saturday (by appointment). Dedicated listening room, Home demonstrations, Free installations, Part exchange, Mail order service, All major credit cards accepted, We can tailor a system at a price you can afford - for friendly expert advice give us a call. For a current list of Second hand and Ex. Demo bargains see our monthly ad.

BUCKS

O.L. CHITTENDEN LIMITED, 59-61 The Broadway, Chesham, Bucks, HP5 1BX. (Opposite Boots). Tel: 01494 784441. Phillips, Denon, Kenwood, Canon Audio, Koss, Wharfedale, Mitsubishi, Target, Grandio, QED, Mordaunt-Short, Toshiba, Dolby Pro-logic Systems, Nicaam TV and Video, Surround Sound, AV Systems. Showroom Demonstrations from expert and friendly staff. No appointments necessary. Service Department. Credit facilities available. Open 8.30 to 5.30 Mon-Sat.

AUDIO INSIGHT 53 Wolverton Rd, Stony Stratford, Milton Keynes, Bucks - 01908 561551 - See our main entry under Technosound.

DEJAC HI-FI Consultants, 21 the Broadway, Old Amersham, Bucks, HP7 0HL. Tel. (01494) 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.

NORTHWOOD AUDIO II, 98 Cambridge St, Aylesbury, Bucks HP20 1BA. Tel. 01296 28790 (A/P). Selected sounds from Alchemist, Aura, Boston, B & W, Cabletalk, Castle, Celestion, Denon, Exposure, Gyrodek, Harman Kardon, Heybrook, Marantz, Micromega, Monitor Audio, Moth, NAD, Nakamichi, Rose, Rotel, Royd, Ruark, Systemdek, Tannoy, TDL, Thorens etc ect. Export orders welcome. 2 Dem rooms. Credit facilities available.

TECHNOSOUND LTD., 7 Granville Square, Willen, Milton Keynes. MK15 9JL. Tel: 01908 604949. Audiophile Hi-Fi Specialists. All major brands stocked from Arcam to Yamaha. Demonstration facilities and expert advice. Mon-Sat 9.30 - 5.30 late night Friday. Credit Cards accepted. Finance available.

CAMBRIDGE

CAMBRIDGE HI-FI, 1-3 Hawthorne Way, Chesterton, Cambs. CB4 1AT. Tel. 01223 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.

UNIVERSITY AUDIO, 1-2 Peas Hill, Cambridge. 01223 354237. Mission-Cyrus, Arcam, Rotel, Denon, Meridian, Ruark, ATC, AVI, Quad, Linn. 8 dems, 1 single speaker. Home trial, free install, Service Dept. VISA, ACCESS, AMEX, Credit Terms. Open 9-5.30

CHESHIRE

CONGLETON HI-FI, 1/1A Duke St, Congleton, Cheshire CW12 1AP. (01260) 297544. Arcam, B&W, Denon, Epos, Kef Reference, Linn, NAD, Nakamichi, Onix, Royd, Target, Yamaha, etc. Superbly appointed single speaker demo facilities. No appointment necessary, home trials, free installation. 2 year guarantee on all equipment. Access, Visa, Amex, all usual credit facilities. Open Mon-Sat 9.30-6pm.

SWIFT HI-FI, St. Annes Parade, Wilmslow. 01625 526213. Aura, B&W, Denon, Kenwood, Marantz, Nad, Pioneer, Rotel, Systemdek, Tannoy, Revolver, J.P.W., M. Short, Mission, Celestion, Technics, Audiobab, Castle. Open 9.30-6. Dem room. No pressure. BADA member.

THE HI-FI SHOWROOMS, 12A West Str, Congleton, Cheshire (01260) 280017. 1 Stanley St, Leek (01533) 383780, Celestion, Creek, Exposure, Royd, Naim Audio, Musical Fidelity, Project, Rotel, Ruark, Tannoy, Technics. 5 Dem Rooms, No appts necc, Home trial, Free install, Service dept, Access, Visa, Lombard Tricity. Open 9-5.30, Closed Wed.

HALE HI-FI, 2 Bold St, Hale Road, Altrincham, Cheshire WA14 2ER. Tel: 0161 929 0834. Open Mon - Sat 10am-6pm & later by appointment. Specialising in equipment by: Naim, Quad, Royd, Nad, Denon plus selected others. Large range of quality accessories. On site service department. Installation & delivery. Home demonstrations a pleasure

ASTON AUDIO, 4 West Street, Alderley Edge, Cheshire. Tel. 01625 582704. Products include: Bang & Olufsen, Arcam, Audiobab, B&W, Cyrus, Denon, Epos, Meridian, Micromega, MF Mission, Nakamichi, Quad, Rotel, TDL & other leading brands. Demonstration Rooms, Installation Service, Interest Free Credit. Access, Visa. Open Mon-Sat

CHRIS BROOKS AUDIO, 29 Gaskell Street, Stockton Heath, Warrington, Cheshire, WA4 2UN. Tel (01925) 261212. Tues-Sat 10.00-6.00. 2 dem-rooms. credit facilities. All credit cards. Established 1978. Total absence of bulls'**. Linn Specialist.

PRACTICAL HI-FI, 88 Bridge Street, Warrington, WA1 2RF. Tel: 01925 632179. See our main entry under Preston, Lancs.

THE AUDIO COUNSEL, 14 Stockport Road, Cheadle, Cheshire. Tel (0161) 428 7887 and 12 Shaw Road, Oldham, Manchester OL1 3LQ Tel (0161) 633 2602. Linn, Arcam, Naim, Audio Research, Martin Logan, Yamaha, Creek, Nakamichi, Denon, JPW, Marantz, Royd, Lexicon. 3 dem rooms, free install, VISA/ACCESS Full multi-room and A.V. installation 10:00 - 5:30pm Mon-Sat, till 8:00 Thursday.

NORMAN AUDIO LTD. 106 Victoria Street Crewe CW1 2JT Tel. 01270 211091 Fax. 01270 250794 See main ad also under Lancs. for our agencies

CHRIS BROOKS AUDIO, 29 Gaskell Street, Stockton Heath, Warrington, Cheshire, WA4 2UN. Tel (01925) 261212. Tues-Sat 10.00-6.00. 2 dem-rooms. credit facilities. All credit cards. Established 1978. Total absence of bulls'**.t

AUDIO EXCELLENCE, 86/90 Boughton, Chester, CH3 5AQ. Tel. 01244 345576. All that's best in hi-fi carefully selected and demonstrated by friendly knowledgeable staff, at prices to suit all budgets. Delivery and installation, home dems, part exchange, in house workshops, full credit facilities with interest free on selected items. Tuesday - Saturday 9.00 - 5.30. Closed Monday.

CLEVELAND

GILSON AUDIO LTD., 172 Borough Rd., Middlesbrough. (01642) 248793. Micromega, Exposure, Arcam, Mission, Cyrus, Denon, Marantz, Rotel, Pioneer, Audiobab, 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

RJF AUDIO VISUAL, 84 Pendarves Street, Tucking Mill, Camborne, Cornwall. TR14 8NJ. 01209 710777/612260. Audio Analysis, Audio Innovations, JBL, Teac, TDL, Monitor Audio, Musical Fidelity, NAD, Nacacmichi, B&W, SME, Micromega, Pink Triangle, Project, Perception, Sugden, Harman Kardon, Triangle. Integral dem/showroom and special home dems. Appts nec, home trial, free install, service dept. All cards Switch and Transax. Open Mon-Sat 9.30-5.30.

CUMBRIA

MISONS SOUND & VISION, Viaduct House, Victoria Viaduct, Carlisle, CA3 8EZ. Tel (01228) 22620. Bang & Olufson, B & W, Castle, Sonic Link, Quad, NAD, Yamaha, Sony. Rotel. Demo Suite. No appts nec. Home trial facilities. Free installation. Service Department 9 - 5.30 Mon - Frid, Thurs 9-1, Sat 9 - 5.

PETER TYSON, 6 Abbey Street, Carlisle, Cumbria, CA3 8TX. 'Cumbria's premiere hi-fi centre'. Part exchange welcome. (01228) 46756. Linn, Musical Fidelity, Cyrus, Marantz, Denon, Philips, Nakamichi, Technics, Pioneer, Creek and more. Dem Rooms. Demos without obligation. Home trial. Free installation. In-house service dept. Access, Visa, HP. 9-5.30pm

PRACTICAL HI-FI, 106 English Street, Carlisle, CA3 8ND Tel: 01228 44792 See our main entry under Lancaster.

DEVON

THE HI-FI ATTIC, 58 New George St., Plymouth, Devon. PL1 1RR. 01752 669511. We stock most leading brands including Linn, Arcam, Denon, Pioneer, Musical Fidelity amongst others, and have an expert enthusiastic staff. Premises include attractive hi-fi and home cinema demonstration rooms. We offer free installation and credit facilities (written details on request) also a fully equipped service department. We can also provide a mail order service for all your LaserDisc requirements. We accept Visa, Access, Amex.

UPTON ELECTRONICS, 31 Torquay Road, Paignton, Devon TQ3 3DT Tel- 01803 551329. Pioneer Reference Point Dealer, Sony, Technics, Harmon-

Kardon, Orelle, Kinshaw, Creek, Quad, NAD, Target, Alphason, Tannoy, Mordant-Short, Castle, TDL, JPW, Royd, Sequence, Canon, Monitor-Audio, Micromega, Project, Chord, Van Den Hul, Jamo. Full range of accessories etc. Demonstration room, Home dems, Free delivery and installation. PX available. Own In-house service dept, Compact Discs, Access, Visa, Amex. Credit facilities. 9.00-5.30 9.00-1.00 Wed.

DERBY

STRAD TRADITIONAL AUDIO, 29 Meadowfield, Whaleybridge, nr Buxton, Derbyshire. SK12 7AX. Tel. 01663 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, Osmaston Street, The Spot, Derby. Tel: 01332 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.

DORSET

SUTTONS HI-FI, 18 Westover Road, Bournemouth, Hants. Tel. 01202 555512. Arcam, Audiobab, Audiotechnica, Chord, Celestion, Denon, Infinity, Kef Reference, Linn, Mission, NAD, Qed, Rotel Rel, Sennheiser, Sony, Target, Yamaha and others. 2 listening rooms. Home Cinema Free delivery and installation. Home demonstrations. Open Mon-Sat 9.00-5.30. BADA Member. Two year guarantee on Hi-Fi.

ESSEX

AUDIO T, 442-444 Cranbrook Road, Gants Hill, Ilford. (0181) 518-0915. Great Value on Aiwa, Arcam, Audiobab, Cyrus, Denon, Kenwood, Li-n., Marantz, Meridian, Mission, Micromega, Rotel, Sony, Technics, Yamaha & more. Tues/Thur/Fri 10-7. Wed/Sat 9.30-5.30. 3 year Hi-Fi guarantee. 30 day free upgrades. PX. Selected Interest Free Credit. 2 listening rooms. Home Cinema. BADA Bonded.

BRENTWOOD HI FIDELITY, 2 Ingrave Road, Brentwood, Essex. CM15 8AT. Tel: 01277 221210. Aura, Audio Innovations, Castle, Chord, Crimson, Denon, DNM, E.A.R., Impulse, Marantz, Mission, Micromega, NAD, Pink Triangle, Project, QUAD, Ruark, Rehdero, Shearman Audio, Systemdek, Tannoy, TDL, Thule Audio Single speaker dem rooms, home trials, dems and installations. Mon-Sat 9.30-5.30. Access, Visa, service facilities. Simply THE place to visit if you're serious about music.

RAYLEIGH HI-FI, Chelmsford, 216 Mou'sham St. 01245 265245. RAYLEIGH HI-FI, Rayleigh, 44a High Street. 01268 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, Audiobab, Cyrus, Denon, Epos, Linn, Meridian, Mission, Naim, Nakamichi, Quad, Rega, Roksan, etc. etc. 3 years guarantee on Hi-Fi systems. 0% credit facilities.

COLVILLE HI-FI - RHYTHMS 8, Market Square, South Woodham Ferrers, Chelmsford, Essex, CM3 5XA. Tel: (01245) 325125/Fax: (01245) 328748 Products: Yamaha/Marantz/Musical Fidelity /Tannoy/Mordant

PAGE 89

AVON, BEDFORDSHIRE, BERKSHIRE, BUCKS, CAMBRIDGE, CHESHIRE, CLEVELAND, CORNWALL, COUNTY DURHAM, CUMBRIA, DEVON, DERBY, DORSET, ESSEX

PAGE 90

GLOUCESTERSHIRE, HAMPSHIRE, HEREFORDSHIRE, HERTFORDSHIRE, HUMBERSIDE, KENT, LANCASHIRE, LEICESTER, LINCOLNSHIRE

PAGE 91

LONDON, GREATER MANCHESTER, MERSEYSIDE, MIDDLESEX, NORFOLK, NORTHAMPTON, NOTTINGHAMSHIRE, OXFORDSHIRE

PAGE 92

SHROPSHIRE, SOMERSET, STAFFORDSHIRE, SUFFOLK, SURREY, SUSSEX (EAST), SUSSEX (WEST), TYNE & WEAR, WARWICKSHIRE, WEST MIDLANDS, WILTSHIRE,

WORCESTERSHIRE

PAGE 97

WEST MIDLANDS, YORKSHIRE (SOUTH), YORKSHIRE (WEST), SCOTLAND, EDINBURGH, ABERDEEN, AYRSHIRE, GLASGOW, INVERNESS, TAYSIDE, IRELAND, DUBLIN, BELFAST, COUNTY DOWN, NORTHERN DERRY, WALES, LONDON WALES, GLAMORGAN (SOUTH), GLAMORGAN (WEST), GWYNEDD

Dealers

Short/Tdl/Toshiba/Cable Talk/Ixos/ Alphason/Sennheiser/Pioneer & More. Tv,Video, Cinema Sound. Friendly Advice. Dem Rooms. See It Hear It And Believe It At Rhythms - For Beautiful Sound & Vision Without The Blues!

SEVENOAKS HI-FI 1 The Grove Centre, Witham, Essex, Tel 01376 501733. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Denon, KEF, Marantz, *Meridian, Michell, Mission, Monitor Audio, Musical Fidelity, Quad, Rotel, Ruark, TEAC, and Yamaha.

GLOUCESTERSHIRE

AUDIO EXCELLENCE, 58 Bristol Road, Gloucester, GL1 5SD. Tel. 01452 300046 Fax. 0452 310680. All that's best in hi-fi carefully selected and presented by the friendliest knowledgeable staff, at prices to suit all budgets. Delivery and installation, home dems, part exchange, in house workshops, full credit facilities with interest free on selected items. Tuesday - Saturday 9.00 - 5.30. Closed Monday.

AUDIO T, 40-42 Albion Street, Cheltenham. (01242) 583960. Great Hi-Fi on Aiwa, Arcam, Audiolab, Denon, Linn, Marantz, Meridian, Micromega, Mission, NAD, Nakamichi, Pioneer, Quad, Rotel, Sony, Technics, Yamaha & many more. Tues-Fri 9.30-6. Sat 9.30-5.30. 3 year Hi-Fi guarantee. 30 day free upgrades. Home demonstrations. Part exchange. Selected Interest Free Credit. Listening room. BADA Bonded.

SEVENOAKS HI-FI 24 Pitville Street, Cheltenham, Gloucs. Tel 01242 241171. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, Epos, KEF, Marantz, Meridian, Mission, Monitor Audio, Quad, Rotel, Ruark, TEAC and Yamaha.

THE RIGHT NOTE - Bath for specialist advice and home demonstrations. See Avon.

HAMPSHIRE

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. 01705 822 155, Fax 0705 830 753

AUDIO T, 4 Feathers Lane, Basingstoke. (01256) 24311. Great Value on Aiwa, Arcam, Audiolab, Cyrus, Denon, Linn, Marantz, Micromega, Mission, Naim, Nakamichi, Sony, Technics, Yamaha & many more. Tues-Sat 9-5.30. 3 year Hi-Fi guarantee. Free delivery & installation. 30 day free upgrades. Home demonstrations. PX. Selected Interest Free Credit. Listening room. BADA Bonded.

HAMPSHIRE AUDIO LIMITED, 2-12 Hursley Road, Chandlers Ford, Hants, SO53 2FU. Tel Southampton (01703) 252827/265232. 3 Hi-Fi and 2 Home Cinema/Dolby Surround Sound Demonstration Rooms, one with Projection TV and an 8' wide screen. Brands stocked include ARCAM (incl. Xeta), Audiolab, Audioquest, Celestion, Cyrus, Denon, Gradient, Infinity, KEF, Marantz, Meridian, Mission, Polk, Quad, Rotel, Seleco, Sennheiser, Soundstyle, Tannoy, Target Audio, Thorens, & Yamaha. Established 1969, we offer a 2-year Guarantee covered by our own well-equipped Service Dept. We have a large FREE car parking facility and we are located within 3 miles from Junction 14 (M3/M27 Interchange) and Junctions 13 (M3) and 5 (M27). Closed Mondays, except in December. Late Night: Thurs to 8pm. BADA Founder Member. All deposits fully covered by BADA Bonding.

HEREFORDSHIRE

ENGLISH AUDIO, 37 Whitecross Road, Hereford, HR4 0DG. (01432) 355081. Arcam, Audion, Audio Technica, Castle, Celestion, Cyrus, Denon, Exposure, Heybrook, JPW, Kar, Kef, Marantz, Michi, Micromega, Mission, Moth, NAD, Nakamichi, Pink Triangle, Polk, Rel, Rogers, Rotel, Ruark, John Shearman, SME, Stax, Sudden, Systemdek, Tannoy, TDL, Yamaha. Single

speaker dem room, home trial facilities, free installation, service dept. Access/Visa, Credit arranged. Open Mon-Sat, 9.30-5.30pm. BADA members.

SEVENOAKS HI-FI 478 St Albans Road, Watford, Herts. Tel 01923 213533. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Michell, Mission, Monitor Audio, Musical Fidelity, Quad, Rotel, Ruark, TEAC and Yamaha.

HERTFORDSHIRE

DAVID ORTON AUDIO VISUAL. 6-8 Bancroft, Hitchin, Herts. Tel: 01462 - 452248. Mission, Cyrus, Denon, Pioneer, Marantz, Aura, Kenwood, Rotel, Ruark, Celestion, JVC, Polk and many more. Open Mon-Sat 9.30-5.30. All major credit cards accepted. Finance available. (See our main advert pg 106).

DYNAMICS, Welwyn, Herts - Europe's largest stockist of ex-dem and second hand equipment. High End Audio - Bought, Sold or Exchanged. Many items in stock. (see our main ad pg. 128). Efficient servicing Dept. All items guaranteed. All major credit cards accepted. Please telephone 01438 - 714038 for appointment.

GOSPEL MUSIC AUDIO, 32a High Street, Kington, Herefordshire, HR5 3BJ.(01544) 230254. Alphason, Allison, Revolver, Luxman, Yamaha, QED Audio, Systemline.

STUDIO 82, 82 High Street, Harpenden, Herts AL5 2SP. 01582 764246. Fax 0582 467022. ATC, AVI, Arcam, Aura, Audiolab, B&O, Denon, Epos, Mission, Cyrus, Naim Audio, Nakamichi, Quad, NAD etc. Quiet single speaker dem room. Appts nec. Home trial, free installation. Service dept. Visa, Access and finance terms. 9-5.30 Mon-Sat.

THE AUDIO FILE, 27 Hockerill St., Bishop's Stortford, Herts, CM23 2DH. Tel 01279 506576. Fax 0279 506638. Linn, Naim, Roksan, Quad, Rega, Mission, Arcam, ProAc, Marantz, Sony etc. 4 dem rooms, installation service. Min 3 year warranty, 0%, BADA.

REVOX Service & Repairs, Suite 10, Smuogak Business Centre, Lye Lane, Bricketwood, Herts. AL2 3UG. Tel 01923 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: 01923 893711.

RADLET AUDIO, 9 Holywell Hill, St. Albans, Herts, AL1 1EU. Tel. 01727 855577. Mark Levinson, Proceed, Proac, Tube Technology, Teac, Audiolab, Stax, ATC, Audio Alchemy, EAR, Sumiko, Quad, JBL, Denon, Creek, Michell, Micromega, XLO, Alchemist, B&W, Ruark, LFD and many others. Home trial facilities, free installation. Service Dept., Visa/Access, Open 9.30 - 5.30 Mon - Sat.

HUMBERSIDE

Zen Audio George Street Hull Tel. 01482 587397. "Comfortable listening rooms. Home dems. Free installations. Agencies include: Audiolab, Audio Innovations, Aura, Audion, Denon, DNM, D.P.A., Cable Talk, Heybrook, JPW, Kar, Neat Petite, Micromega, Michell, Harmon Kardon, Impulse, Ruark, Rotel, Royd, Sugden and many more."

KENT

JOHN MARLEY HI-FI CENTRES, 2 Station Road, West Canterbury. (01227)769329. Also at Dover - 01304 207562. Arcam, Audiolab, Aura, B&W, Heybrook, JPW, Proac, Pioneer, Rotel, Ruark, Tannoy, Technics. Dem rooms and home trial facilities. Mon-Sat, 9-5.30 clos. Thurs. Free install. Credit to £1,000. Access, Visa and credit charge. Service Dept.

KIMBERLEY HI-FI, 193 Broadway, Bexleyheath, Kent. Tel 0181 3043272. Pioneer, Technics, Kenwood, Marantz, Denon, NAD, Aiwa, Tannoy, Mission, Rotel, Wharfedale, Castle. Separate dem room, no appt necessary. free installation, service dept, instant credit facilities. no early closing.

V.J. HI-FI, 29 Guildhall St. Folkstone Kent Tel: 01303-256860. Stockists of: Mission, Tannoy, J.B.L., Pioneer, Philips, Aiwa, Marantz, Musical Fidelity, Quad, Yamaha, Denon and much more besides. Full audio and home cinema demonstration facilities. Fully bonded BADA members. Interest free credit available (subject to status). Open Mon-Sat 9:00-6:00

V.J. HI-FI, 119 High St Margate Kent Tel: 01843-226977. Stockists of: Mission, Cyrus, Quad, Tannoy, J.B.L. Sound Effects Range, Musical Fidelity Yamaha, Denon Meridian, Sound style and Target Equipment Racks. Full audio and home cinema demonstration facilities. Fully bonded BADA members. Interest free credit available (subject to status) Open Mon-Sat 9:00-5:30

THE WESTGATE HI-FI, 2 Station Road West, Canterbury, Kent. 01227 769329. Suppliers of quality hi-fi equipment including: Arcam, Akai, Aura, B&W, Denon, Jamo, JPW, Mordaunt Short, NAD, Panasonic, ProAc, Quad, Rotel, RuArk, TDL, Technics, Tannoy. Part exchange. Listening room. Service and repairs. Credit facilities. Access/Visa. Open 6 days 9-5.30.

DOVER HI-FI, 43 High Street, Dover. Tel: Dover 207562. Suppliers of quality hi-fi equipment including: Arcam, Akai, Aura, B&W, Denon, Jamo, JPW, Mordaunt Short, NAD, Panasonic, ProAc, Quad, Rotel, RuArk, TDL, Technics, Tannoy. Part exchange. Listening room. Service and repairs. Credit facilities. Access/Visa. Open 6 days 9-5.30.

ELECTRICAL DISCOUNT CENTRE, EDC, 138 pelham Road Gravesend, Kent DA11 0JH. Tel: 01474 569601. Pioneer, Marantz, Technics, Akai, JVC, Jamo.

ELECTRICAL DISCOUNT CENTRE, EDC, 109 The Broadway Bexley Heath Kent DA6 7JH. TEL: 0181 298 7880. Pioneer, Marantz, Technics, Akai, JVC, Jamo.

SEVENOAKS HI-FI 28 St Johns Road, Tunbridge Wells, Kent. Tel 01892 531543. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Denon, KEF, Marantz, Meridian, Mission, Monitor Audio, Quad, Rotel, Ruark, TEAC, and Yamaha.

SEVENOAKS HI-FI 4 Railway Street, Chatham, Kent. Tel 01634 846859. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Denon, KEF, Marantz, Mission, NAD, Pioneer, Quad, Rotel, Ruark, TEAC, and Yamaha.

SEVENOAKS HI-FI 20a Lower Bridge Street, Canterbury, Kent. Tel 01227 462787. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Denon, KEF, Marantz, Mission, NAD, Pioneer, Quad, Rotel, Ruark, TEAC, and Yamaha.

SEVENOAKS HI-FI 109-113 London Road, Sevenoaks, Kent. Tel 01732 459555. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with four dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Michell, Mission, Monitor Audio, Musical Fidelity, Quad, Rotel, Ruark, TEAC and Yamaha.

LANCASHIRE

MARTON MUSIC, 5 Masterson Ave, Read, Burnley BB12 7PL. Tel: 01282 773198. Demonstrations of stereo and A/V systems in large comfortable lounge using equipment from AVI, ATC, RUARK, YAMAHA, MARANTZ, SEQUENCE, plus a range of custom built speakers, including Transmission Lines; home demo's encouraged before buying, free installation when required. Agent for

LIBERTY INSTRUMENTS IMP/m and AUDIOSUITE loudspeaker testing systems. Ring anytime for appointment, free advice or chat... we never close.

ORPHEUS AUDIO ... Less between you and the music ... Arion Acoustics • Audiomeca (Pierre Lourné) • Audio Alchemy • Burmester • E.A.R. • Cabasse • Kinshaw • Lieder • Ortofon • Project • Teac • Triangle • YBA • Boulder • Acarian Systems • Sonic Link • Beyer • Sennheiser • Audio Quest • Demonstrations by arrangement in Standish, Lancs. or in your own home without obligation Tel: 01257 473175 (evening calls welcome)

PRACTIAL HI-FI, 43 Friargate, Preston. Tel: 01772 883958. The audio visual specialist, expert advice, instant demonstrations, best prices, instant free credit, part exchange welcome. Extended warranty. Stockists of Yamaha, Kenwood, Denon, Sony, Technics, Onkyo, Marantz, Pioneer, Mission, Kef, Jamo, Celestion, B&W. Also stockists of LaserDiscs.

PRACTICAL HI-FI, 84 Penny Street, Lancaster, LA1 1XN Tel: 01524 39657 - See our main entry under Lancaster.

PRACTICAL HI-FI, 33/35 Knowsley Street, Bolton, Lancs Tel: 01204 395789 - See our main entry under Lancaster.

PRACTICAL HI-FI, 10 Preston New Road, Blackburn, BB2 1AW Tel: 01254 691104. See our main entry under Lancaster

PRACTICAL HI-FI, 81 Whitegate Drive, Blackpool, FY3 9DA Tel: 01253 300599. See our main entry under Lancaster.

NORMAN AUDIO, 131 Friargate, Preston, Lancashire, PR1 2EE. Tel. 0772 253057. Fax. 0772 562731. Marantz, Pioneer, Yamaha, Audiolab, Arcam, Mission, Cyrus, B & W, Kef. Send for your catalogue. Home cinema dem room plus three sales areas. No appt necessary, free install. service dept. instant credit subject to status. Open 9.30-5.30. late night Wed-8pm.

WIRRAL HI-FI (Audio Consultants) 17 Shore Bank, Wirral, L62 1DB Tel/Fax: 0151 645 4621. We believe in value for money. That's why we only stock audio equipment that has been carefully selected for its price, build, & most important excellent sound quality. The following manufacturers offer all this: DPA, MAGNUM, MOTH, ORELLE, ROSE, TEAC, AUDIO SYNTHESIS, AUDIO ALCHEMY, BASE, CASTLE. For friendly advice, free local delivery, & installation, demonstration facilities by appointment.

LEICESTER

LISTENING INN, 6 Hotel Street, Leicester. Tel. 01162 623754. fax. 01162 623758. Arcam, Audiolab, Cable Talk, Chord Co, Creek, Denon, Epos, Heybrook, Kef, Linn, Micromega, Nakamichi, Onix, Rotel, Royd. 4 Dem Rooms. Open 10.00-5.30 (Six days.)

ENCORE! Nr. Melton Mowbray. Tel. 01664 823282. Sugden, Densen, Union, Tube Technology, Ruark, UKD Opera, Keswick Audio Research and Fi-Rax. As you can see from our agencies, we are open-minded and able to present diverse options for your appraisal. Unbiased and unhurried demonstrations by appointment incl. evenings and weekends.

SEVENOAKS HI-FI 94 Granby Street, Leicester. Tel 0116 255 7518. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Denon, KEF, Marantz, Meridian, Mission, Monitor Audio, Quad, Rotel, Ruark, TEAC, and Yamaha.

LINCOLNSHIRE

BOSTON HI-FI CENTRE, 65a Wide Bargate, John Adams Way, Boston, Lincs PE21 6SG. Tel: 01205 365477. Quad, Nakamichi, Arcam, Marantz, NAD, Castle, Tannoy, Rogers etc. Separate demonstration studio incl. home cinema. Free installation. Access, Visa, Tues-Sat 9-5 pm.

COTTAGE AUDIO, 17 Bridge Street, Saxilby, Nr Lincoln. LN1 2PZ. Tel: (01522) 702834. Evenings: (01522) 696708. ATC, AVI, Chord amplifiers, Harbeth, LFD, Michell, Origin Live, Kinshaw, QED, Royd, Sansui. Sequence, Something solid, Sonic Link, etc. Demonstration rooms. Home trial facilities. Free installations and above all a personal, friendly service.

STAMFORD HIFI CENTRE - 9 Red Lion Square, Stamford, Lincs. PE9 2AL. (01780) 62128. Pioneer, Technics, Cyrus-Mission, Rotel, NAD, Yamaha, Kenwood, Marantz, Quad plus all major speaker manufacturers. Expert Advice, Comparator demonstrations, part-exchange HiFi purchased for cash. No appts necessary. Home trial facility, free installation. Service Dept. Mastercard, Visa and credit charge. Mon-Sat 9-5.30 pm. Closed Thursdays.

LONDON

ANALOG AUDIO, 849 High Road, Finchly, N12. (0181) 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: (0181) 567 8703. Acoustic Energy, Audiolab, Aura, B&O, B&W, Boston Acoustics, Canon, Castle, Denon, Dual, Evolution, Infinity, JPW, KEF, Marantz, Mission, Monitor Audio, Musical Fidelity, NAD, Nakamichi, Onix, Quad, Revox, Rogers, Rotel, Systemdek, Target, Teac, Thorens, Van den Hul. Two dem rooms. Interest free credit, free local delivery & installation, service department. 'Hi-Fi Specialists without the attitude'

AUDIO T, 190 West End Lane, West Hampstead. (0171) 794-7848. Great Value on Aiwa, Arcam, Audiolab, B&W, Denon, Linn, Marantz, Meridian, Micromega, Mission, Nakamichi, Rotel, Sony, Technics, Yamaha & many more. Tues-Sat 10-6 Late Thurs until 8.00. 3 year Hi-Fi guarantee. 30 day free upgrades. Home demonstrations. PX. Selected Interest Free Credit. 2 listening rooms. BADA Bonded.

AUDITORIUM, 119 Middlesex Street, Bishopsgate, London E1 7JF. Tel: 0171 247 5000. Full range of equipment from Arcam, Bang & Olufsen, Cyrus, Denon, Dynavektor (amplifiers & cartridges), Epos, Kef, Micromega (including 3.1, 2.1, transports, 852, Pro2 DACs and Stage) Mission, Naim, Neat, REL, Shahinian, Well Tempered Turntables, and Xio. Open Monday to Friday 10.30am to 7.00pm and Saturday 11.00am to 4.00pm. Two minutes walk from Liverpool Street Station

GOLF ELECTRONICS, 311 Kentish Town Road. NW5 2TJ Tel 0171 482 2518. Fax 071 284 3381. Authorised dealers for: Sony, Panasonic, Aiwa, Akai, Mitsubishi, Philips, Grundig, Bose. We carry an extensive range of hardware from Walkmans to camcorders, including a wide range of TV and video equipment. Free local delivery & installation on selected items. Open 10-6 Mon-Sat. We regularly have special offers on different products. A visit to GOLF ELECTRONICS could save you £££s

HIFI & COMPONENTS, 84 Battersea Rise, London, SW11 1EH. (0171) 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. 0171 580 3535. Arcam, Audiolab, Mission, Cyrus, Quad, Celestion, Kef, Meridian, Rogers, Tannoy, Yamaha, TDL, Thorens, Marantz, Nakamichi, Musical Fidelity and many more. Open 10.00-7.00 Mon-Fri. 9-6 on Sat. Service dept, Credit facilities, delivery and free installation.

KAMLA ELECTRONICS, 251 Tottenham Court Road, London W1P 9AD. Telephone. 0171 323 2747. Fax. 071 637 2690. Acoustic Research, Aiwa, Akai, Albary, 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, Sansui, Stax, TDK, and many more!!

K J WEST ONE, 26 New Cavendish St., London W1M 7LH. 0171 486 8262/63. Fax 071 487 3452. Two hi-fi & two home cinema dem studios. Appts pref. Home trial. Installation by arrangement. Service dept. Major credit cards. Interest free credit on selected items. Major brands stocked: Arcam, Audio Alchemy, Audio Innovations, Audion, Aura, Audiolab, Audio Research, B&W, Chord, DPA, Epos, Harmon Kardon, Impulse, Krell, Martin Logan, Meridian, Michell, Musical Fidelity, Nakamichi, Nitty Gritty, Orelle, Pink, ProAc, Quad, Rel, Roksan, Sonus Faber, Stax, Tannoy, Theta, Trichord. Open 6 days.

CONNECTIONS, 13 John Prince's Street, London W1M 9AH. Tel. 0181 348 5676. Dealers in: Absolute, Audio Note, Audioquest, Deltac, Harmonic, Kimber, Mandrake, MIT, Siltech, Symo, Van den Hul, WBT and others.

THE LISTENING ROOMS, 161 Old Brompton Road, London SW5 0LJ. (0171) 244 7750/59. Fax (071) 370 0192. Linn, Quad, Meridian, Nakamichi, Arcam, Audiolab, Acoustic Energy, SME, Audio Research, Krell, Wadia, Theta, Apogee, Martin Logan, Pioneer, Tannoy, Systemdek, Stax, Pink Triangle, Michell, Monitor Audio, Yamaha, Marantz, Kef, Bose, Celestion, Epos, Mission, Denon, Neat Petite. Mon-Sat 10-6pm.

THE CORNFLAKE SHOP, 37 Windmill Street London W1P 1HH. Tel.(0171) 631 0472 Fax (0171) 436 7165. Tues-Sat 10-6, Thurs 10-7. The specialists for the highest quality of sound, for one room or many more. Full advice & installation service available. Multiroom specialists & worldwide mail order service. Brands carried include: ATC, AVI, Rega, Naim, Mark Levinson/Proceod Royd, and many more.....

MUSICAL IMAGES, 173 Station Road, Edgware, Middlesex. Tel. (0181) 952 5535. See advert under Middlesex for more information.

MUSICAL IMAGES, 45 High Street, Hounslow, Middlesex. Tel.(0181) 569 5802. See advert under Middlesex for more information.

AUDIO T, 190 West End Lane, West Hampstead, London, NW3 1SQ. (0171) 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.

ORANGES & LEMONS, 61-63 Webbs Road, Battersea, SW11. Tel: 0171-924 2040. Juicy fruit from London's newest, freshest Hi-Fi/Home Cinema retailer. Telephone demonstrations, or just pop in. All the usual ie. friendly and efficient service, free home installation, credit cards, 0% credit finance available, plus...all the very best from Audio Vector, Cable Talk, Chord Co, Denon, Epos, Mission, NAD, Naim, Quad, Rega, Roksan, Rotel, Royd, Ruark, Soundstyle, Stands Unique and more.

ZEBRA, 18-24 Brighton Road, South Croydon. Tel: 0181 - 688 2093. The UK's First and Finest Home Cinema Store. 3 Demonstration Rooms. Laser Disc CRT and Projection TV Centre. Many brands stocked including Arcam, Audiolab, Meridian, Lexicon, KEF, Pioneer, Rotel, Yamaha, REL and Panasonic. Mon-Sat 9.30-6.00pm. All major credit cards accepted. Finance available. Evening demonstrations by appointment.

SELECT AUDIO, London for Mirage, VPI, Ortofon cartridges, Mark Levinson, Jeff Rowland, Proceed, Sumiko Transfiguration, Magnepan, Lyra plus more, 3 single speakers Listening room by appointment only. Tel: 0181 986 8788, 10-7pm closed wednesday.

RECITAL, 289 New Kings Road, London SW6 4RE Tel 0171-731 0340. to unlock the potential in your music collection hear it through one of our carefully chosen hiFi systems. equipment by: Adyton, Alchemist, Arion, ATC, Audio Alchemy, Audiomeca, Audio Physics, AVI, Boulder, Cat, Celestion, Chario, Chord Co, CRD, Densen, Graham, Harman, Heybrook, Lumley, Michell, Micromega, Musical Fidelity, NAD, Orelle, Ortofon, Ruark, Triangle, Trilogy.

SEVENDOKS HIFI 403 Kings Road, Chelsea, London. Tel 0171 352 9466. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Michell, Mission, Monitor Audio, Musical Fidelity, Quad, Rotel, Ruark, TEAC, and Yamaha.

SEVENDOKS HIFI 162 Powis Street, Woolwich, London Tel 0181 855 8016. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Denon, KEF, Marantz, Meridian, Mission, Monitor Audio, Quad, Rotel, Ruark, TEAC and Yamaha.

GREATER MANCHESTER

THE AUDIO COUNSEL, 12 Shaw Road, Oldham, Manchester OL1 3LQ Tel (0161) 633 2602 and 14 Stockport Road, Cheadle, Cheshire. Tel (0161) 428 7887. Linn, Arcam, Naim, Audio Research, Martin Logan, Yamaha, Creek, Nakamichi, Denon, JPW, Marantz, Royd, Lexicon. 3 dem rooms, free install, VISA/ACCESS Full multi-room and A.V. installation 10:00 - 5:30pm Mon-Sat, till 8:00 Thursday.

ORPHEUS AUDIO, Less between you and the music ... Arion Acoustics • Audiomeca (Pierre Lourné) • Audio Alchemy • Burmester • E.A.R. • Cabasse • Kinshaw • Lieder • Ortofon • Project • Teac • Triangle • YBA • Boulder • Acarian Systems • Sonic Link • Beyer • Sennheiser • Audio Quest • Demonstrations by arrangement in Standish, Lancs. or in your own home without obligation Tel: 01257 473175 (evening calls welcome)

PRACTICAL HI-FI 65 Bridge Street, Manchester M3 3BQ Tel: 0161 839 8869 See our main entry under Lancaster

BILL HUTCHINSON HIFI, 50-52 Deansgate, Manchester M3 2FE. (0161) 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.

MIDDLESEX

PURE SOUND/ THE AUDIO ROOM, We specialise in high quality valve and solid state amplification, with matching quality speakers and signal source components, and we cover London and the South East. Call us for a personnel demonstration of some of the finest equipment around. We offer too many brands to list here but they include Audio Note, Arion Acoustics, Audio Innovations, Lumley, Impulse, Townshend, Pink Triangle, Audiomeca, XLO, Micromega, Frameworks... 01784 458176/ 0181 893 4485

AUDIO T, 159A Chase Side, Enfield. (0181) 367-3132. Great Hi-Fi from Arcam, Audiolab, Cyrus, Denon, Linn, Marantz, Meridian, Micromega, Mission, Rotel, Yamaha and many more. Mon-Fri 10-6. Sat 9.30-5.30. 3 year Hi-Fi guarantee. Free delivery & installation. 30 day free upgrades. Home demonstrations. PX. Selected Interest Free. 2 Listening Rooms. Home Cinema Specialists. BADA Bonded.

MUSICAL IMAGES, 45 High Street, Hounslow, Middlesex. Tel.(0181) 569 5802. Fax. (081) 569 6353.

MUSICAL IMAGES, 173 Station Road, Edgware, Middlesex. Tel. (0181) 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.

AUDIO T, 159a Chase Side, Enfield. (0181) 367-3132. Great Value on Aiwa, Arcam, Audiolab, Celestion, Cyrus, Denon, Linn, Marantz, Meridian, Micromega, Mission, NAD, Nakamichi, Rotel, Sony, Yamaha & many more. Tues-Fri 9.30-6. Sat 9.30-5.30. 3 year Hi-Fi guarantee. 30 day free upgrades. PX. Selected Interest Free. 2 listening rooms. Home Cinema specialists. BADA Bonded.

SEVENDOKS HIFI 7 Genotin Road, Enfield, Middlesex. Tel 0181 342 1793. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Denon, KEF, Marantz, Michell, Mission, Monitor Audio, Quad, Rotel, Ruark, TEAC and Yamaha.

NORFOLK

PROTECT-A-DISC, Unit 4, Elvin Way, Sweetbriar Industrial Estate, Norwich, NR3 288. Tel: 01603 482193. Producers and suppliers of finest quality card record and CD sleeves with taped edges, poly-lined or unlined, mailers and cruciforms etc. Please send SAE for full current price list. Trade enquiries welcomed. Tel: 01603 482193.

NORTHAMPTON

THE AUDIO SHOP, 6 Hill Street, Raunds, Northants, NN9 6NN. Tel: 01933 622325. Rotel, Denon, Marantz, Philips, Kinshaw, Moth, Pro-ject, Royd, TDL, JPW, Bose, Wharfedale, Goldring, Ortofon, Chord Co., Van Den Hul, Audioquest, QED, Sound Org., Beyer, Sennheiser, etc. Service dept., Home Demos., Free Installation, Easy Parking, Open 9:30am to 5:30pm (closed Wednesdays).

LISTEN INN, 32 Gold Street, Northants NAIN 1RS. Tel. 01604 37871. Fax 0604 601430. Naim, Linn, Rega, Audolab, Arcam, Cyrus, Royd, Nakamichi, Mission, Denon, Rotel, Nad, Heybrook, Marantz, Chord Co. etc. etc., Open 10.00 - 5.30 (Closed Thurs)

THE AUDIO SHOP, Hi-Fi Specialists. Appointed stockists of: Arison, Creek, Denon, Dual, Goodmans, JPW, Mordaunt-Short, Rotel, Royd, Tannoy. 6 Hill Street, Raunds, Northamptonshire. Tel.: 01933 622325

NOTTINGHAMSHIRE

PETER ELLIS AUDIO, 29 KIRKGATE NEWARK NOTTS NG24 1AD TEL 01636 704571. Castle, Arcam, Sugden, Tannoy, T.D.L., Musical Fidelity, Heybrook, Mordaunt Short, Teac, Marantz, Stermfort, Yamaha, Denon, + more - Demo room, P-ex, Service Dept, free installation. Access, Visa, Amex, Switch. Mon - Sat 9.00-5.30 closed Thu pm.

CHANTRY AUDIO, 18-18a Eldon Street, Tuxford, Nr Newark, Notts, NG22 0LH. Tel. 01777 870372. Pink Triangle, Absolute Sounds, Micromega, DPA, Alchemist, CD developments, SME, Meridian, Ruark, Rotel/Michi, Audion, Monitor Audio + much more. Three demo rooms inc. Home Cinema, home trial, free installation, service dept. Access, visa, credit facilities. Mail order, Mon-Sat 9.30-6.00, Sun and evenings by appointment.

NOTTINGHAM HI-FI CENTRE, 120-122 Alfreton Road, Nottingham. Tel: 01602 786919. Over 25 years experience, superb demo rooms, extensive range, free parking. Mon-Sat 9-5.30

OXFORDSHIRE

AUDIO T, 19 Old High Street, Headington, Oxford (01865) 65961. Great Value on Aiwa, Arcam, Audiolab, Cyrus, Denon, Linn, Marantz, Meridian, Micromega, Mission, NAD, Pioneer, Rotel, Sony, Technics, Yamaha & more. Tues-Fri 10-6. Sat 9.30-5.30. Thurs until 8.00. 3 year Hi-Fi guarantee. 30 day free upgrades. PX. Selected Interest Free. 2 listening rooms. Home Cinema. BADA Bonded.

OVERTURE HIFI, 3 Church Lane, Banbury, Oxfordshire. Tel: 01295 272158. Consult the experts for the best advice on matters Audio. Choose from Arcam, Audioquest, Bose, Denon, Epos, Heybrook, Kef, Linn, Mission, Naim, Nakamichi, Quad, Yamaha. 2 to 5 year warranty. Installation specialists. Superb demonstration facilities. Open six days. Members of the Guild of Master Craftsmen and BADA.

WESTWOOD & MASON, 46 George Street, Oxford. Tel. 01865 247783. Creek, Marantz, Naim, Arcam, Rotel, Rega, Epos, Tannoy, Mission, Nakamichi, Denon, Aiwa, Quad, Yamaha, Monitor Audio. Open 9.30-5.00pm. Dem room. Closed Thursdays.

ASTLEY AUDIO LTD, 3 Marketplace, Wallingford (3 miles from Berkshire border). 01491 839305. Aura, B&W, Technics, Panasonic, Pioneer, Kenwood, Sony, Yamaha, Denon, Dual, Marantz, Mission, Tannoy. 1 listening room. Home trial, free installation. Service department. Access, Visa, Amex, Diners. Instant credit. Tues-Fri 9-5.30, Sat 9-5. Records & CDs stocked.

SEVENDOKS HIFI 41 St Clements, Oxford. Tel 01865 241773. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Denon, KEF, Marantz, Mission, Monitor Audio, Musical Fidelity, Quad, Rotel, Ruark, TEAC and Yamaha.

SHROPSHIRE

AVON HI-FI, 12 Barker Street, Shrewsbury, Shropshire, SY1 1QJ. Tel. 01743 355166. Aiwa, Beyer-Dynamic, NAD, Quad, B&W, Mordaunt-Short, Kenwood, Bose, Nakamichi, Onkyo, Teac, Sennheiser. Dem room. Home trial. Free install. Service dept. Access/Visa. £1,000 instant credit. Mon, Tues, Wed, Fri, Sat 9-5.30.

SHROPSHIRE HI-FI, St Michael Street, Shrewsbury, Shrops. SY1 2ES. Tel. 01743 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.

W. Owen Est 1901 58 Market Street Oakengates Telford Shropshire Tel. 01952 613818. "Audio/Video specialists. Pioneer, Reference Piont, Kenwood, Sony, Akai, B & W, Bose. Dolby Pro-Logic Specialist-16.9 screens in stock. Free installations and home deliveries."

STAFFORDSHIRE

ACTIVE AUDIO, 95, Stafford Street, Hanley, Stoke-on-Trent, Staffs. Tel: 01782 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.

ACTIVE AUDIO, 29, Market Street, Tamworth, Staffs. Tel: 01827 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

AUDIO IMAGES, 7 All Saints Road, Pakefield, South Lowestoft, Suffolk, NR33 6JL. Tel/fax: 01502 582853. Quad, Triangle, Arcam, Castle, Rotel, Moth, JPW, Sugden, Mission, Project, Denon, Yamaha surround sound. Audio Innovations, plus the amazing ROTHWELL range. Separate dem room, no appts nec. 10-6.30 Tues-Thurs, 7pm Fri. 6pm Sat.

SIGNALS Martlesham Heath, Ipswich, Tel: (01473) 622866 see display advertisement for brands. Turntables, high end CD drives/DAC's as well as integrated players, valve and solid state amplification, wide range of cables and loudspeakers. Home demonstrations/equipment trial service. Please telephone for directions and to book appointment.

BURY AUDIO, 47 Churchgate Street, Bury St Edmunds, Suffolk, IP33 1RG. Tel. 01284 724337. Arcam, Audio Alchemy, Heybrook, Marantz, Michell, Meridian, Nakamichi, Pink Triangle, Quad, Rotel, Sonus Faber, Stax, Tube Technology. Single speaker dem room. Free inst. Credit facilities. Mon-Sat 9.30-6.00, closed Wed. Evening dems by appointment.

EASTERN AUDIO, 41 Bramford Road, Ipswich, Tel. 01473 217 217. 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. usual credit facilities. A BADA dealer.

ANGLIA AUDIO Dedicated to top quality HiFi since 1971. Neaar Beyton Bury St Edmunds IP30 9AZ. Quality systems built to your specification. Telephone (01359)270212. Open 9-6 closed Thursday. Open other times by appointment and evening dems can be arranged.

SURREY

SPALDINGS HI-FI, 352-4 Lower Addiscombe Rd., Croydon, Surrey. 0181 654 1231/2040. 3 dem rooms and home dem. Free installation/credit. Linn, Naim, Quad, Arcam, Audiolab, Mission, Denon, Tannoy, Marantz, Ruark. Mon-Sat 9-6, Tues 9-8, Closed Wed. Service Dept.

PJ HI-FI, The HiFi Shop, 3 Bridge Street, Guildford, Surrey GU1 4RY. Tel. (01483) 504801. 9-6 Mon-Sat. Linn, Meridian, Rega, Arcam, Quad, Revox, Musical Fidelity, Rotel, NAD, Nakamichi, Marantz, KEF, Reference etc.

ROGERS HI-FI, 13 Bridge Street, Guildford, Surrey, (01483)61049. Aiwa, Creek, Denon, Dual, JPW, 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.

SURREY HI-FI, 45 High Street, Godstone, Surrey, RH9 8LS. (01883) 744755. Specialist HiFi outlet, demonstration room and parking available. Quad, Audiolab, TDL, Tube Technology, Rel Acoustics, Nakamichi, Kef, Thorens, Musical Fidelity, Van Den Hul cables, Bose, Sennheiser, Beyer headphones, Marantz, Denon, Michell, Van den Hul, Musical Fidelity, Tannoy, Target, JPW. Single speaker dem rooms. Free installation service dept. Access /Visa /Mastercard. Open 9-6pm. Closed all day Wednesday.

SEVENOAKS HI-FI 369-373 London Road, Croydon, Surrey. Tel 0181 665 1203. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, KEF, Marantz, Meridian, Michell, Mission, Monitor Audio, Musical Fidelity, Quad, Rotel, Ruark, TEAC, and Yamaha.

SEVENOAKS HI-FI 73b North Street, Guildford, Surrey. Tel 01483 36666. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Denon, KEF, Marantz, Michell, Mission, Monitor Audio, Musical Fidelity, Quad, Rotel, Ruark, TEAC and Yamaha.

SUSSEX (EAST)

THE POWERPLANT "Brighton's Leading HiFi Shop", 66 North Street, Brighton, Tel. 01273 775978. Comfortable listening rooms. Knowledgeable and approachable staff. Roksan, Micromega, Exposure, Audiolab, Epos, Rotel, Marantz, Cyrus, Regal, Arcam, Mission and more.

WORTHING AUDIO, 20 Treville Gate, W Sussex, BN11 1VA. Tel 01903 212133. "The friendly shop with the best sound systems in the South". Friendly advice, 3 yr guarantees, easy parking, open Mon-Sat 9-6pm. Late night Wed. Arcam, Exposure, Naim Audio, Marantz, Ruark, Restek, Clear Audio, Audio Technica, Target, Tripod, Sennheiser, AR and many more.

CHURCHERS HI-FI, 154 Montague St. Worthing, Sussex. BN11 3HH. Tel. 01903 821595. All major well know brands of Hi-Fi stocked. Please call for details.

ADAMS & JARRETT, Hi-Fi and Home Cinema Specialist. Phone or visit us at 6-18, Norman Road, St. Leonards-on-Sea, E.Sussex. (01424) 437165/432398. Stockist of quality equipment including: Audio Innovations, Meridian, KEF, Ruark, Marantz, NAD, JBL, Royd, Dali, Jamo, Onkyo, Rel, Target, Cable Talk, Technics, Yamaha, Kenwood. Air conditioned listening rooms, on site service and repair facilities.

SEVENOAKS HI-FI 55 Preston Street, Brighton, Sussex. Tel 01273 733338. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Denon, KEF, Marantz, Meridian, Mission, Monitor Audio, Musical Fidelity, Quad, Rotel, Ruark, TEAC, and Yamaha.

SUSSEX (WEST)

CHICHESTER HI-FI, 7 St Panchras, Chichester, W Sussex. PO19 1SJ. Tel. 01243 776402. Linn, Naim, Rega, Creek Nakamichi, A&R, Denon, Roksa, Epos, JPW, Ruark, Rotel, Quad, Sendor. Evening appts available.

CRAWLEY AUDIO, 1 Silkin, Dalton Close, Broadfield, Crawley, West Sussex. Tel: 01293 531190, Mob: 01860-911640. RCA "Living Voice" Recordings, Alchemist, Burmester, Manhattan Acustik, German Physiks, Chord Co, Cable Talk, Systemdek, Gravis

Subwoofer, WAD, Apollo, CAD, Ortofon, Fullers Audio, Loricraft (Garrard) SME, Denon cartridges, Polk Audio, Atacama, Magneplanar. Purpose Built Dem Rooms, Home Dems available. Part Exchange, Credit Cards Accepted.

HORSHAM HI-FI, 28 Queensway, Horsham, West Sussex RH13 5AY. Tel 01403 251587/0831 418619. Suppliers of quality audio equipment including:- Magneplanar Loudspeakers, TEAC, Michell, Opera Loudspeakers, Unison Research, S.D. Acoustics, Fanfare Tuners, World Audio Design products, Vintage Radio Restoration Valve Amps, Gravis Subwoofers, Audio Technica, Target, Alchemist Products. Large comfortable demonstration room, home trial facility. Free installation. Part exchanges welcome. Servicing and repairs. Open mon-sat 10am - 7pm.

HEATHERDALE AUDIO LTD, 202 Findon Road, Worthing, Sussex. Tel:- 01903 872288 or 01860 660001 eves. Three comfortable demonstration lounges where you can audition; Audionote, Krell, Audio Research, Klipsch, Martin Logan, Apogee, Sonus Faber, Theta, S.M.E. Copland, Voyd, Magneplanar, E.M.F., Lumley Reference, Creek, Rotel, Heybrook, Clearaudio. Phone for used stock list. "We are the South Coast's Premier Hi-Fi Specialist"

TYNE & WEAR

BILL HUTCHINSON HI-FI, 87a, Castle Street, Newcastle-Upon-Tyne, (0191) 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

SOUNDS EXPENSIVE 12 Regent St, Rugby, Warwks CV21 2QF. Tel: 01788 540772. Agents for: Arcam, Audiolab, Aiwa, Castle, Celestion, Cyrus, Denon, Dual, Kef, Heybrook, Mission, Marantz, Meridian, Mordaunt-Short, NAD, Quad, Rotel, Tannoy, TDL, Yamaha & many more. @ year warranty on all hi-fi separates. 2 Demonstration rooms, Home Trials, All Major Credit Cards Accepted, Mail Order Welcome. Ring Now For Keenest Prices. Open Monday - Saturday 9-5.30. If We Haven't Got It It's Probably Not Worth Having.

WEST MIDLANDS

MIDLAND VALVE HI-FI, Specialising in true fidelity systems built around valve amplification:- Audio 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 0121 722 2317.

MUSIC MATTERS, 351 Hagley Road, Edgbaston, Birmingham, B17 8DL. Tel 0121 429 2811. Roksan, Nakamichi, Arcam, Audiolab, Kenwood, DPA, Tannoy, Royd, Heybrook, Michell, Pansonic, Aura, Celestion, Musical Fidelity, Mission/Cyrus, Meridian, Kef, Monitor Audio, Pink Triangle, Ruark, Epos, Exposure, Pioneer and many, many more! 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. Check out the new branch in Solihul - Phil works there so it can't be bad! 0121 742 0254

COVENTRY HI-FI, 126, Church Lane (off Walsgrave Road), Coventry. CV2 4AJ. Tel: 01203 440529. Quad sales & service agent, Pioneer Reference Point. Kenwood, Aiwa, T.D.L. B&W, Tannoy etc. Private listening room. 2 year guarantee on all new hi-fi. Open 9.30-5.30 Mon-Sat Closed Thursday.

ELMDON AUDIO, Tel 0121 784 8765. Reference Imports Lumley, Alon etc. Esoteric Audio Research 834 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. 0121 4550667. Arcam, ATC, Audioquest, Audio Technica, AVI, Beyer, Cable Talk, Castle, Chord, CRD (Valve), Denon, Dual, Klipsch, Michell, Nakamichi, Ortofon, QED, Quad, Revox, Sennheiser, Sequence Design, SME, Sendor, Target, TDK, TDL, Thorens, Trilogy (Valve) etc. Keith Monks Record Cleaning Machine. Closed Mondays.

SOUND ACADEMY, The ultimate experience for those seeking HiFi. Ac. En., Arcam, Audiolab, AudioQuest, B&W, Bose, Chord, Cyrus, Cable talk, DPA, Epos, Kef ref, Marantz, Meridian, Mission, Mus. Fid, Nakamichi, Ortofon, Project, Quad, Roksan, Tube Tech, Rotel, Micromega, KAR, Kenwood, Lexicon, Cannon, Celestion, Beyer & more. 3 Single speaker dem. room on two floors incl. A/V Cinema. Open 6 days a week. Mon-Sat. All major credit cards taken. Part exchange, enquires welcome. Just off the high Street, Bloxwich, Walsall, W. Midlands. Tel. 01922 493499. (ample free parking)

AMADEUS SOUND & VISION, 10 Boldmere Road, Sutton Coldfield, West Midlands, Tel. 0121 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, 91 Bristol St., Birmingham, Tel. 0121 622 2230/0121 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, Shahinian, Quad, Arcam, Rega, Denon, Marantz, Rotel.

ELECTRO CENTRE, 244 Soho Rd, Handsworth, Birmingham. Tel 0121 554 1878. Full range of HiFi: Pioneer, Technics, Kenwood, JVC, Sony, Aiwa, Akai, "Guaranteed the lowest prices in the UK". 24hr Mail Order facility available.

FRANK HARVEY HI FI CENTRE, 163 Spon Street Coventry Tel: 01203 525200 Fax: 01203 631403 Audiolab - Audio Alchemy-Atacama Aura - Arcam - Audio Quest - Alphonson - Apollo - Bang & Olufson - Bose - Castle - Canon - Cable Talk - Celestion - Chord - Cyrus - Denon - Dual Foundation - Heybrook - IXDS - Kef Reference - JBL - JPW - Jamo - Kenwood - Laser Disc Marantz - Meridian - Monitor Audio - Micromega - Mission - Michell Gyrodek Monster - Mordaunt Short - Musical Fidelity - Nakamichi - NAD - Ortofon - Onkyo - Panasonic - Pioneer - Polk Audio - Quad - QED - REL - Rega - Revolver - Rogers - Rotel - Royd - Sennheiser - Systemdek - Target - Teac - Technics - Tannoy - Thorens - TDL - Van Den Hul - Wessex - Yamaha Much Much More In Store on 3 Floors 4000 SQ foot with 3 Dedicated Hi Fi Demo Rooms of the very Best Hi Fi Plus 2 A/V Demo Rooms. Nice staff Nice coffee. Appts Nec. Service Dept. Free Install & Home Trial. All Credit Facilities. Plus Interest Free Credit. Open 9.30am to 5.30pm Monday to Saturday.

WILTSHIRE

AUDIO T, 60 Fleet Street, Swindon. (01793) 538222. Great Value from Aiwa, Arcam, Audiolab, Denon, Linn, Marantz, Meridian, Micromega, Mission, NAD, Naim, Nakamichi, Rotel, Sony, Technics, Yamaha & many more. Tues-Sat 9.30-6. 3 year Hi-Fi guarantee. Free delivery & installation. 30 day free upgrades. Home demonstrations. PX. Selected Interest Free Credit. 2 listening rooms. Home Cinema specialists. BADA Bonded.

P.R. SOUNDS 58 Castle Street, Trowbridge, Wilts BA14 8AU Tel:- 01225 777799. Authorised dealer for Pioneer, Technics, Marantz, Kenwood, Mission, Jamo and many more. Cinema Sound Specialists with Listening Room. "For all that's best in Hi-Fi at a Price you can afford" Open Mon-Sat 9-6 Credit Cards accepted. Finance available.

WORCESTERSHIRE

LYNDEN AUDIO, 01527-873766. Exclusive Midlands Audio Synthesis Dealer, Audio Physic, Adyton, Essex Audio, LFD, Sequence Design Wall Speakers, Harman Kerdon, JBL, REL, etc. Specialist Engineering Dept. offers Custom Design and Upgrades, all Kits etc., built to Customers requirements. Open Tues.-Sat. 10am-5pm. Evenings by appointment. Tel: 0121 4455057

SPAINS HI-FI 2 & 2a New rd, Bromsgrove Worc's Tel: 01527 872460. Aura, Apollo, Audioquest, B&W, Denon, Harmon Kardon, JBL, JVC, Kef, Kenwood, Marantz, Mission, NAD, Nakamichi, Onkyo, Pioneer, QED, REL, Revolver, Rotel, Sennheiser, Sony, Tannoy, Thorens, etc. 2 Demonstration Rooms, Home Cinema Specialists, 0% Finance available on selected products. Part Exchange welcome, on site service dept; wide range of television, video, mini systems etc. in stock.

Continued on page 97...

Classica

Peter Herring

Two times Eighth Symphonies, by Bruckner and Mahler, four times quartets by Schubert, and a Brahms Second that remains first in the field, bring a numerological link to this month's reviews. And the combination of the Corydon Singers and the 'Orthodox' Rachmaninov add up to another winner for Hyperion

JOHANNES BRAHMS
Piano Concerto No2 in B flat Major Op83*/Ballades Op10
Emil Gilels, piano;
 Berlin Philharmonic Orchestra*;
 conductor, Eugen Jochum Deutsche Grammophon
CLASSIKON 439 466-2 (ADD/76.50)

● No one is better than DG at recycling back catalogue and the appearance of Gilels' Brahms in the Classikon series - one hundred CDs approximating to a basic classical library - must represent its third or fourth incarnation since the original 1972 issue. Not that the performance doesn't deserve its continued place in the catalogue and, at its present bargain price, it still sweeps the board.

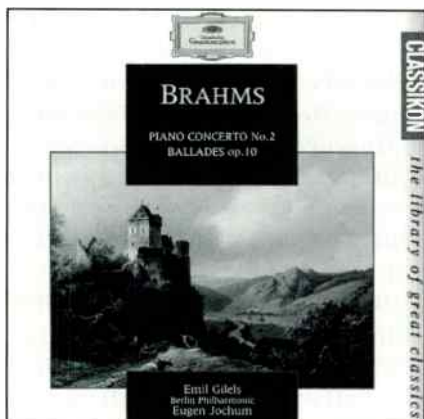
It's curious how certain works by an otherwise much-loved composer prove elusive. For me, Brahms' Second Piano Concerto is a prime example; it was many years before, as the vernacular has it, I 'got a handle' on the piece. This may have had something to do with its quite different nature in comparison to the intensely dramatic First Concerto, for which I felt an empathy the instant I heard the plunging chords of the opening of the first movement. Brahms himself predicted, after the unenthusiastic response to the first performances of the First Piano Concerto in 1859 that the Second would "sound quite different".

There is an equanimity, a loftiness, in the Op83 concerto which is in sharp contrast to the turbulence of its predecessor. The first movement is filled with a benign grandeur that may reflect that fact that Brahms wrote it

surrounded by magnificent Alpine scenery in the town of Portschach. But it is difficult not to feel that it also mirrors a composer at ease with himself and with the world. The structure is writ large, but the detail has the translucency and delicacy of chamber music, and - amidst the calm - there are moments when Brahms seems to recall the fiery anger of his First Piano Concerto.

The second movement contains much trenchant writing, for both soloist and strings yet it is all sublimated to the trio, scored largamente, which spans the movement's energetic outer sections and restores the mood of contemplative repose. The Andante is quite magical - how could I have resisted its charms for so long? It is enhanced by some wonderful writing for solo cello, played here by Ottomar Borwitzky. The concerto concludes in playful mood, aptly enough for a work written, for the most part, at a time which Brahms' biographer, Karl Geiringer, described as "amongst the happiest [periods] of his life".

With its breadth, nobility and unforced pacing, Gilels' and Jochum's performance of the Brahms Second captures the character of the work as few others. Gilels' Brahms always was special, as the 'fill-up' to the concerto testifies. His 1976 recording of the Op10 Ballades, youthful and impassioned 'piano narratives' in the style of Chopin are unsurpassed. Remastering has served the recordings well, especially the concerto, where the balance between soloist and orchestra seems to have been improved. And the acoustic of the Jesus-Christus-Kirche in Berlin is ideal. Late to appreciate Brahms' Second as I may have been, I am in now in accord with DG's reissue specialists in placing the work and this performance in the 'essential' category.



A couple of years ago, I conducted an interview with Robert King the director of the King's Singers and responsible for a host of fine recordings on the Hyperion label, most significantly of Purcell's church music. I asked him how he had persuaded a record company to tackle repertoire that many would regard as far too specialised. "With Hyperion," responded Robert King, "it was simple: you called Ted Perry, the founder and managing director, and told him what you would like to record. Ted would ponder a while and then give you a 'yes' or 'no'. And that was that: no long programming discussions, no tedious meetings trying to convince A&R people to back your idea. It's a wonderful system, but of course it can only work if you are dealing with someone of the experience, judgement and instinct of Ted Perry. Ted's track record speaks for itself; it was he, after all, who first recorded the unaccompanied sacred music of an eleventh-century German abbess, Hildegard of Bingen. This apparently arcane repertoire has gone on to become one of the biggest-selling classical recordings of all time.

Like Robert King, one of Ted Perry's prize catches of recent times has been the conductor, Matthew Best, and his Corydon Singers. He has

recorded them in award-winning CDs of Bruckner's choral music, and in some outstanding interpretations of Vaughan Williams, but I wonder how Ted responded when Matthew Best mentioned Rachmaninov to him. Hyperion has issued the solo piano music, in fine recordings by Howard Shelley, but has wisely given the symphonies and concertos a wide berth. Ted Perry would see no merit in issuing yet another performance of the Second Piano Concerto (the 'Brief Encounter' one!) or the Paganini Rhapsody, unless of course he could find performers who had something original and worthwhile to say about the works.

But when Matthew Best put forward the name of Sergei Rachmaninov it was not in connection with the piano music for which he is best known, but a proposal to record his setting of the All-Night Vigil of the Eastern Orthodox church, the Vespers of 1915. Now this is truly wonderful music, but the general assumption has always been that it could only ever be sung by Russian voices: they had the colour, the timbre, the range, and it was pointless for a western choir to tackle the piece. Well, Matthew Best and the Corydon Singers triumphantly put the lie to that notion - in Radio 3's 'Record Review', their version of the

Vespers beat off all competition from Eastern Europe in the 'Building a Library' slot. Even Matthew Best was astonished by the accolade!

On the strength of that success, I wonder how much persuasion Ted Perry needed to tackle Rachmaninov's other great choral masterpiece, the Liturgy of St John Chrysostom? I would guess his instinct told him that this was another potential winner, and another fascinating addition to what I still believe is the most attractive, interesting and collectable record label of them all.

SERGEI RACHMANINOV The Liturgy of St John Chrysostom Op31.

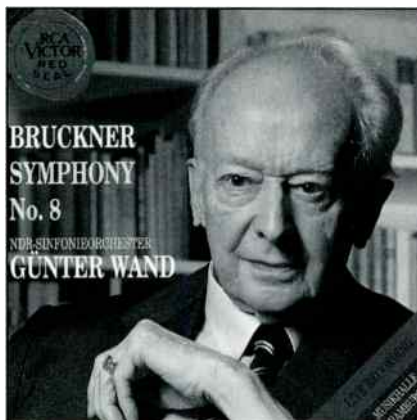
Corydon Singers; Peter Scorer, deacon; conductor, Matthew Best
CDA66703

● At the turn of the last century, there was a move within the Russian Orthodox Church to rid its sacred music of what were regarded as corrupting foreign influences, principally German and Italian, and return to music based on the traditional, pure roots of Russian chant. The crucible for this change was the Moscow Synodal School and a number of composers became closely

ANTON BRUCKNER Symphony No.8 North German Radio Symphony Orchestra;

conductor, Günter Wand
RCA VICTOR RED SEAL 09026 68047 2
(DDD/87.52)

● All being well, just six days after writing this review, I shall be at the Royal Albert Hall to hear Günter Wand conduct in person. According to the Proms programme, he was to have conducted the BBC Symphony Orchestra in a Mozart and Tchaikovsky. This would doubtless have been an enjoyable experience; but, to use a culinary analogy, such programming is rather akin to employing the world's best fish chef and then asking him to cook roast beef. Of course, the result would be more than edible, but you could have had something so much better. Yes, the octogenarian Wand is a fine conductor of Mozart and Tchaikovsky, but he is an even better



interpreter of Brahms, Schubert and Schumann; and - above all - he is arguably the greatest living conductor of the symphonies of Anton Bruckner. This is why, when a friend called to say he was sure he'd seen something saying that Günter Wand was performing, not Mozart and Tchaikovsky, but Bruckner's Eighth, and a 'phone call to the Albert Hall confirmed that the great man himself had indeed changed the programme, my cheque was in the post.

Three years ago, at roughly the same point in the Proms season, Wand gave a performance of this Colossus among Bruckner's colossal symphonies that will have lived on with all those who heard it. It was one of the great musical experiences and I'm sure many will be hoping to hear it repeated this September. However, a more permanent reminder of what Günter Wand brings to this symphony comes from RCA Victor Red Seal, the second of his live recordings of Bruckner's Eighth to be issued on this label.

The first recording took place in Lübeck Cathedral during the 1987 Schleswig-Holstein Music Festival and it remains a memorable performance, although clarity is not helped by the over-rich acoustic. This second live taping took place at concerts given by Wand, again with the North German Radio Symphony Orchestra, during December 1993, and in a much more suitable venue, the Musikhalle in Hamburg. On this occasion, the sound has all the scale

connected with the School and its campaign, including Kastalsky. And it was Kastalsky's chant-based style which influenced Rachmaninov when he came to set the Liturgy of St John Chrysostom, in a fashion that would reflect the search for 'authenticity'. The work was composed at Rachmaninov's uncle's country estate at Ivanova, some 300 miles Southeast of Moscow, and first performed by the Moscow Synodal Choir on November 25, 1910.

Writing to his friend, Nikita Morozov, Rachmaninov commented: "I have been thinking about the Liturgy for a long time and for a long time I was striving to complete it. I started work on it somehow by chance, and then suddenly became fascinated with it. And then I finished it very quickly. Not for a long time. . . have I written anything with such pleasure."

After hearing the work, Kastalsky criticised its 'subjectiveness', and the church authorities refused to sanction liturgical performance because of its 'spirit of modernism'. They missed out on music full of glowing beauty and haunting sonorities, and a work which is far from being merely a prelude to the better-known Vespers. Today, the suggestion of 'modernism' seems ludicrous: Rachmaninov's setting is

steeped in the archaic spirit of chant, even if the sumptuousness of its scoring hints at the operatic rather than the ascetic.

Another drawback as far as the Church was concerned is that the work is, in many places, technically difficult and would have been beyond



the capabilities of the average choir. But the Corydon Singers, as in their recording of the Vespers, take these difficulties in their stride and adapt to the Russian idiom confidently and convincingly. Peter Scorer is magnificent as the Deacon, intoning the texts with commanding gravity.

But what exactly is the Liturgy in the context of the Eastern Orthodox

Church? Specifically, it is the eucharistic service - quite simply the equivalent of the Roman Catholic Mass, with which it shares several points of reference: the Introit, Creed, Lord's Prayer and Sanctus, for example. Four forms of the Liturgy remain in use today, St John Chrysostom's version being the most frequently heard. It is sung on Sundays and during the week; the Liturgy of St Basil the Great, however, is employed just ten times a year, while that of St James, the Brother of the Lord is sung only on St James' Day, 23rd October. The fourth Liturgy, that of the Presanctified, is employed on the first three days of Holy Week and throughout Lent.

But while such background knowledge is useful in appreciating this marvellous music, it is not a prerequisite. Rachmaninov's setting, and this Hyperion recording, can be enjoyed for the quality of the Corydon Singers' performance and the superlative sound, engineered by Mark Brown and Antony Howell in St Alban's Church, Holborn, London. It is music that, at first, intrigues and then becomes wholly absorbing, in an almost hypnotic way. As with so many Hyperion issues, it is a recording to refresh the most jaded ear.

and power that this work demands, but also allows the wealth of detail in the score to shine through - Wand rightly uses the Haas edition. Part of this, of course, is down to Günter Wand's sensitive balancing of the orchestral components; too often Bruckner's symphonies can sound like concertos for brass.

But what of this new Hamburg performance? I'd say it possesses all you could want from great Bruckner conducting. As ever with Wand, it is scrupulous to the score and attentive to every detail. It is also utterly independent in its approach - such playing needs no gimmicks - and commanding in its grasp of the structure, all of which may suggest a rather dry, unemotional interpretation. That couldn't be further from the truth, it is simply that Wand - like Furtwangler, Jochum, Giulini, Tennstedt and Karajan - reaches the spiritual and emotional heart of this work without any self-indulgent dallying en route. The

result is unerring in its vision, compelling in its inexorable progress, and overwhelming in its impact. You will hear, for example, how well Wand judges the climaxes in each movement, which comes through understanding where Bruckner is leading; other conductors make the mistake of over-playing their hand too early and the apocalyptic moments of the Adagio and Finale are diluted as a result. Günter Wand is too wise, too immersed in Bruckner's idiom to fall into that trap. Like that 1992 Proms performance, and I hope that of 1995, this is a great musical experience.

GUSTAV MAHLER
Symphony No8 in E flat Major
Ulla Gustafsson,
MariAnne Haggander,
Carolina Sandgren, sopranos;
Ulrika Tenstam, Anne
Gjervang, altos;
Seppo Ruohonen, tenor; Mats

Persson, baritone;
Johann Tilli, bass; Estonian
Boys' Choir;
Gothenburg Opera Chorus;
 Royal Stockholm Philharmonic Choir;
 Gothenburg Symphony Chorus;
 Gothenburg Opera Orchestra and
 Gothenburg Symphony Orchestra;
 conductor, Neeme Jarvi .
BIS CD-700 (DDD/70.16)

● Taped at concert performances given in Gothenburg during November 1994, the BIS label is donating all proceeds from sales of this CD to the Tallinn M/s Estonia Foundation which supports Estonian children orphaned by the sinking of the ferry M/s Estonia early last year. It is a cause to which all the musicians involved gave their services free of charge. It is pleasing to be able to report that this abundant generosity produced a result that is also worthy of your support.

In truth, Mahler's Eighth Symphony isn't a symphony in the true sense at all.



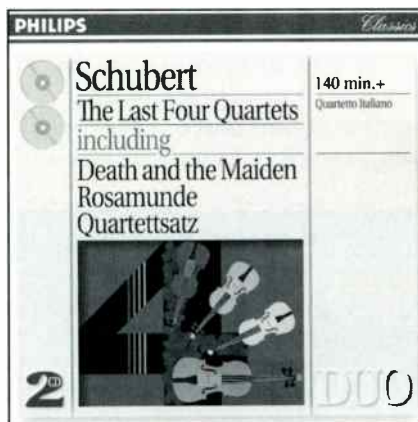
It belongs more to the world of large-scale oratorio, a hybrid of the sacred and the secular that perhaps reflects Mahler's pantheism - he was a Jew by race, not religion. It is a work in two movements (it was originally to have been four but Mahler, for reasons unknown, abandoned this scheme). The first movement, or part, is a setting of the medieval hymn *Veni Creator Spiritus* (Come, Holy Ghost); the second - the longest single span of music Mahler composed - is a setting of the closing scene from Goethe's *Faust*.

It is a symphony writ on the grandest imaginable scale, although the description appended by the manager of a concert agency - 'Symphony of a Thousand' - was made without Mahler's knowledge and to his annoyance. It has, however, stuck with the work ever since its first performances in 1910, the last time Mahler was to conduct in Europe - he died eight months later.

The Estonian-born conductor, Neeme Järvi, although not known as a Mahler conductor, produces a performance of compelling vitality, especially in the contrapuntal tour-de-force of the *Veni Creator Spiritus*. Given the live concert conditions, he achieves remarkable technical excellence. The Swedish forces may not be a match for those of Chicago, who are directed by Sir Georg Solti in a Decca studio recording which remains the first choice in Mahler's Eighth. However, there's no denying that they play and sing their hearts out in what must have been a highly-emotional atmosphere. Indeed, I have grown to appreciate the qualities of this performance with each hearing, which is not always the case with Järvi's recordings, where a superficial excitement cloaks a lack of inner substance.

Moreover, the BIS recording, with its thrilling range and weight, admirably captures the overwhelming scale of the symphony. The resolution of the inner detail is remarkable, even if at times it exposes some of the voices at full

stretch. A willingness to help the young sufferers of the Estonia disaster, is just one good reason to add this Eighth to your Mahler collection.



FRANZ SCHUBERT
String Quartets No.12 in C minor D703 'Quartettsatz' No.13 in A minor D804 'Rosamunde'/No.14 in D minor D81D 'Death and the Maiden'/No.15 in G Major D887

Quartetto Italiano
 PHILIPS DUO 446 163-2 (2 CD SET)
 (ADD/142.05)

● Some of the finest Schubert playing ever to be committed to tape makes a welcome return as part of Philips' excellent Duo series of bargain priced two-disc sets, neatly contained within single disc size boxes. It is astonishing to be reminded that the Quartetto Italiano made its legendary recording of the 'Death and the Maiden' quartet nearly thirty years ago, in December 1965 to be exact. At the time, it was by far the best stereo performance available, both in terms of playing and sound quality. And, on both counts, it remains among the top recommendations. At a time when other labels seemed to find it hard to balance two violins, a viola and a cello satisfactorily, the Philips engineers graced all of the Quartetto Italiano's recordings with a sound that became a benchmark for future chamber music productions. The acoustic - a Swiss chateau was the usual venue for the Quartet's recordings - is warmly natural without becoming over-reverberant; and the range and tonal quality of each instrument was perfectly preserved. Happily, none of these qualities have been lost in this most recent remastering, with three of the four works 'digitised' (Philips' term!). Why the fourth, the A minor quartet D804, was not similarly treated is not explained.

During his brief lifetime, Schubert had at least twenty attempts at mastering the demanding disciplines of the string quartet medium. Seven youthful efforts were left unfinished and, of the fifteen quartets listed in the catalogue, it is only in the last three that he can be said to have resolved the problems posed by the genre. But what 'solutions' each of these works presents: the poetry of the A minor D804; the poignancy of the D minor D810; and, at the apex of his achievement, the emotional roller-coaster of his last quartet, the G minor D887.

The first two works in this triptych have both earned nicknames from Schubert's use of other themes in their slow movements; in the case of the A minor an entr'acte from his incidental music to a long-forgotten play by Helmina von Chezy, 'Rosamunde'. Schubert seems to have had a special affection for this enchanting tune because he reworked it again for a piano impromptu. Better known is the link between the 'Death and the Maiden' quartet (D810) and the song of the same name, where Schubert set a text by Matthias Claudius which describes a dialogue between Death and the young woman he has come to 'collect'. Schubert maintains the mood of the song in the quartet through death the sweet comforter, a theme which is developed into an exquisite set of variations.

But how the atmosphere changes with the final two movements. Death is evoked with vivid terror in the song *Die Erlkönig* (The Elf King), to become wild, frenzied and demonic. The same disturbing, nightmarish world is inhabited for much of the course of the G minor quartet D887; a world ushered in on fearful tremolo strings and which, even in its lighter moments, still seems full of dread and uncertainty.

It is only in this last quartet that I feel the Italians do not fully penetrate its inner tensions and torments; their performance emphasises the work's lyrical beauty, its compassion rather than its passion. Perhaps they chose not to go further into this musical 'heart of darkness', as for example, the Alban Berg, Lindsay or Hungarian Quartets seem to do, taking the accompanying risks in the process. However, this by no means invalidates the Italians' interpretation, and their playing remains both inspired and compelling in what, for me, is some of the most deeply affecting music I know.

Classical

....Continued from page 92

COLORAMA HI-FI, 27 Kingfisher Walk, Kingsfisher Centre, Redditch, Worcs B97 4EY (0527) 597260. Aura, NAD, Onkyo, Kenwood, Denon, TDL, Polk Audio, B&W, Tannoy. Full Pro-logic products. In-store integrated dem facilities. No appts required, service dept. Access, Visa. Open 9-5.30, closed Thursdays.

SEVENOAKS HI-FI 2 Reindeer Court, Worcester. Tel 01905 612929. The UK's leading independent hi-fi and home cinema retailer, specialising in quality products for discerning customers. Open six days, with dedicated single speaker and audio visual demonstration rooms. Major credit cards accepted, 0% finance available (details upon request), home trial and installation by arrangement. Major brands stocked include Arcam, Audiolab, Castle, Cyrus, Denon, Epos, KEF, Marantz, Meridian, Mission, Monitor Audio, Quad, Rotel, Royd, Ruark, TEAC and Yamaha.

Midland Audio Exchange 181, Franche road, Kidderminster, Worcs, DY11 5AD. Tel. 01562 822236 Mobile. 0421 605966. Open seven days a week, 9.30am to 6.30pm. By appointment. Evening demos arranged. 2 demo rooms, home demos. Part exchange always welcome, service facility, free delivery. Analogue Hi-End specialist. Agencies include Rokan, Rega, NAD, KEF, Aura, Nakamichi, B+W + many more. Access and Visa finance on request.

WEST MIDLANDS

WEST MIDLANDS AUDIO, 158 Ombersley Road, Worcester WR3 7HA. Tel 01905 458046. Fax. 0905 457585. Naim, Rega, Rotel, Marantz, Nakamichi, NAD, Audiolab, Roksan, Meridian, B&W, Audio Research, Krell, Martin Logan, Arcam. 9-5.30 Mon-Sat, eve's by appt only. Free

YORKSHIRE (SOUTH)

HIFI STUDIOS DONCASTER TDL, Audio Alchemy, Sugden, Arcam, Proac, Ruark, Castle, Teac, Unison Valve Amps, Impulse Horns, Densen Amplifiers, Apogee, Stemsfort, Kinshaw Amps + Phono Stages, Pink Triangle, Morel Speakers, Heybrook, Monitor Audio, Harbeth, Keswick Audio Research Speakers, Michell Turntables, AMC (CD plus Valves), CR Developments (Valves), Art Audio (Valves), REL Subwoofers, Project T/T, Systemdek, Alphason, Target, Sonic Link, Cord, Audio Quest + Yamaha & Klipsch Pro Logic Home Cinema Demonstrations.

TRC HIFI, 3 Kings Cross Street, Halifax, HX1 (01422) 366832. Agents for Kenwood, Denon, Castle, Rotel. Demonstrations and advice a pleasure. Call at any time to audition some of the best HiFi 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. (01904) 646309. Revox- Qed- Audio Innovation-Allison-Celestion-Yamaha-Teac-Revolver-JPW-Kenwood-Bose-Thorens-Mission-Snell-B&W-Heco-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.

HARROGATE HI-FI 15 Commercial Str, Harrogate, N Yorks. (01423) 504274. One of the best ranges of quality hi-fi in the North of England including: Lumley valve amplification, Audio Research, Musical Fidelity, Martin Logan, Sonus Faber, Castle, Orelle, Michell, Ruark, Stax, Copland, Tannoy, NAD, Alchemist, Onkyo, Rotel, Marantz, Quad ESL, Lexicon, Project, Silversounds, Cogan Hall, DNM. Home cinemadems. Home dems (appts not always req'd). Service Dept. All major credit cards accepted. Credit facilities available. Open 10-6pm. Why? Because music matters.

THE SOUND ORGANISATION (YORK) 2b Gillygate, York, YO3 Tel. (01904)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. (01904) 629659. Audio Innovations, A, E, Audiolab, Beyer, Harmon Kardon, JBL, Kef, Kenwood, Marantz, Michell, Mission, Monitor Audio, Mordant Short, Pickering, Pink Triangle, Pioneer, Quad, Rogers, Systemdek, Tannoy, Technics, Heybrook, TDL, Thorens, Dual and lots more. Dem Rooms 4. (3 by appointment). Superb showrooms. 2 yr guarantee on all hi fi 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.

CLARITY HI-FI : PHONE MIKE ON 01723 503432. Friendly polite new business, free estimates / advice, no vat. All work guaranteed specialist in Repairs, Servicing, all makes including Valve Equipment. Audio upgrades V.C.R.S. All work considered. Plugs, sockets, tapes, headphones, microphones etc. Brand names like Q.E.D. / Goldring / Demion / Audio Quest / etc. To find out more feel free to phone between 9.00 am / 9.00 pm Mon to Sat.

YORKSHIRE (WEST)

BILL HUTCHINSON HIFI, 26-28 Woodhouse Lane, Leeds (01532) 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.

HUDDERSFIELD HI-FI CENTRE, 4 Cross Church St, Huddersfield. (01484) 544668. B&W, Cyrus, Kenwood, Denon, Rotel, Arcam, Musical Fidelity, Quad, Audio Lab, Marantz, Mission, ect. Dem facilities - appointment reqd. Mon-Sat 9-5.30, Thurs 9-8. Closed Wed. Free installation, credit facilities. Access, Visa.

AUDIO PROJECTS, 45 Headingley Lane, Leeds 6. Tel: (0113) 2304565. Linn, Arcam, Quad, Audiolab, Musical Technology, Teac etc. Installation. Home Trials. Home Cinema. Multi-room. Tues-Fri 9.30-6.00, Sat 10.00-5.00.

ASTON AUDIO, 19 Crossgate, Otley, Leeds. LS21 1AA 01943 467689. Products: Naim, Arcam, Audiolab, Cyrus, Denon, Epos, Meridian, Micromega, MF, Mission, Nakamichi, Quad, Rotel, TDL & other leading brands. Demonstration Rooms, Installation Service, Interest Free Credit. Access, Visa, Open Tues - Sat.

SCOTLAND

EDINBURGH

BILL HUTCHINSON HIFI, 43 South Clark Street, Edinburgh. (0131) 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.

MUSIC MILL - 72 Newhaven Road, Edinburgh EH6 5QG. Tel: 0131 555 3963. Stockists of Micromega, Proac, Audio Innovations, Lumley Reference, Tube Technology, DNM, B&W, Systemdek, Nottingham Analogue, Nakamichi, Rehdeko, Dali, Crimson, Harmon Kardon, Goldring, DPA, Royd, Alchemist, Beyer Dynamic. Mon-Sat 10-6.00 pm by appt. Closed Wednesdays. All Major Credit Cards Accepted. Contact Fraser or Mark

*ABERDEEN

HOLBURN HI-FI, 441 Holburn Street, Aberdeen. Tel: 01224 585713. Arcam, Audiolab, B&W, Celestion, Denon, Dual, Epos, Heybrook, ION, Kenwood, Creek, Marantz, Meridian, Mission, Cyrus, M.S., NAD, Nakamichi, Pioneer, QED, Quad, Revox, Rotel, Ruark, Tannoy, Technics, Wharfedale, Yamaha. 9.30-5.30 Mon-Sat.

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: 01224 322520

AYRSHIRE

LASER AUDIO, Now at new premises : 1 St Marnock Place, Kilmarnock KA1 1DT. Tel: 01563 40292. Audiolab, Aiwa, Celestion, Cyrus, Denon, Dual, Marantz, Mission, Philips, Pioneer Systemdek and Tannoy. 2 demonstration rooms, AV dem room. Appointments preferred, home trial facilities. Free installation, service facilities. Access, Visa and written credit. Open Tues- Fri 10-5.30 Sat 9.30-5.30.

THE SOUND FOUNDATION, 22 Nelson St., Kilmarnock, Ayrshire. KA1 1BA 01563 74185 Agents for Sugdon, Pink Triangle, Micromega, Audio Innovations, Harman Karnon, Castle, Revolver, Michell. Single speaker dem. room, Home dems. & delivery installation service available. Full credit facilities available. For more info. phone Kevin. Be Different Pay Us a Visit.

GLASGOW

HI-FI MATTERS, 272 St. Vincent Street, Glasgow G25RL. Call Garry or Ewan on 0141 226 2400 for unbiased advice based on over 25 years experience in tailoring systems to individuals needs. Agencies include: Audio Innovations, Arcam, Sheame, Roksan, JPW, Aura, Heybrook, Michell, Minstral, REL, Systemdek, Impulse, Marantz & Rogers. Open 10-6, six days a week.

STERED STERED, 278 St Vincent Street, Glasgow, Scotland. Tel 0141 248 4079. Closed Tuesday. Installations throughout Scotland. Credit facilities available.

BILL HUTCHINSON HIFI, 43 Hope Street, Glasgow, (0141) 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.

STERED STERED 278 St Vincent Street, Glasgow, Tel: 0140 248 4079 E mail Stereo @ cix. compulink.co.uk We will supply the most musical sound for your budget and if you take the time to visit us we will take the time to return the compliment with free installation of your chosen equipment. Open 10-6.00pm closed Sunday, Tuesday Installation Nationwide Interest free credit available

INVERNESS

THE MUSIC STATION, 49 Church Street, Inverness, IV 1DR. Tel: 01463 225523. Beyer Dynamic, Celestion, Denon, Jamo, Kef, Kenwood, Misson, Marantz, Musical Fidelity, Pioneer, Rotel, Sony. Listening room, service department, free local delivery, part exchange, full range of credit facilities.

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 'till 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.

BELFAST

LYRIC HIFI, 163 Stanmills Road, Belfast (01232) 381296. Linn, Naim, Rega, Arcam, Denon, Rotel and more. Mon-Sat. 10.00-6.00pm. Late night Thurs.

ZEUS AUDIO, 6 Hope Street, Belfast, (01232) 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. (01232) 402220. Akai, Technics, JVC, Samsung, Toshiba, Panasonic and many more. Demos. Open Mon-Frid 10-8pm Sat 10-5pm.

LONDONDERRY

ZEUS AUDIO, 23a Kingsgate Street, Coltraine, BT52 4LB. Tel. (01265) 56634. Marantz, Mission Cyrus, Aiwa, Akai, Alphason, Sony, Pink Triangle, Celestion, Rotel. Mon-Sat 10-5.30pm. Closed Thurs.

WALES

NORTH WALES

ACTON GATE AUDIO, 4 Ruabon Road, Wrexham, North Wales. Tel. 01978 364500. Audio Visual Specialists. Aiwa, Arcam, Aura, Bose, B&W, Beard, Canon, Celestion, Castle, Denon, Jamo, Marantz, Michell, Mission, Mordaunt Short, Pro-Ject, Musical Fidelity, NAD, Nacamichi, Micromega, QUAD, Radford, Rotel, Rega, Ruark, Tannoy, Thorens, UKD, Yamaha, DSP Club Member, Demo Room, installation service. Easy Parking and Motorway access. All major credit cards accepted. 9.30 - 5.30 daily. Closed Weds pm.

ELECTRO TRADER, 19 Colwyn Crescent, Rhos on Sea, Colwyn Bay, Clwyd, Wales, LL28 4RN. (01492) 548932. NOW APPOINTED SUGDEN DEALER FOR THE NORTH WEST. Rotel, Yamaha, NAD, Harman, Kardon, Teac, Alphason, Heco, Infinity, KEF, JBL, Sugden, Tannoy, Rotel Michi, Haybrook, Acoustic Research, RUarc 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.

GLAMORGAN (SOUTH)

AUDIO EXCELLENCE, 134-6 Crwys Road Cardiff CF2 4NR, Tel. 01222 228565 Fax. 0222398201. All that's best in hi-fi carefully selected and demonstrated by friendly knowledgeable staff, at prices to suit all budgets. Delivery and installation, home dems, part exchange, in house workshops, full credit facilities with interest free on selected items. Tuesday - saturday 9.00 - 5.30. Closed monday.

GLAMORGAN (WEST)

AUDIO EXCELLENCE, 9 High Street, Swansea, SA1 1LE. Tel. 01792 474608 Fax. 0792 645087. All that's best in hi-fi carefully selected and demonstrated by friendly knowledgeable staff, at prices to suit all budgets. Delivery and installation, home dems, part exchange, in house workshops, full credit facilities with interest free on selected items. Tuesday - saturday 9.00 - 5.30. Closed monday.

GWYNEDD

TOP TAPE, 1 Crystal Way, Elmgrove Road, Harrow, Middlesex, HA1 2RJ. Tel: 0181 427 1404. The UK's oldest and largest Tape Mail Order Service. TDK, Maxell, Sony, Ampex audio cassettes plus Fuji, JVC, Konica, Memorex, Scotch & TDK video tapes. Send for complete list of latest prices and offers including Video 8, VHS-C, S-VHS, DAT, MiniDisc and Open Reel and tape accessories including Allsop. Local Dealer Listing available. Telephone orders on 081 427 1404 Mastercard, Visa & Switch accepted.

TO ADVERTISE IN THIS SECTION FOR JUST £10.00 PER MONTH CALL HI-FI WORLD ADVERTISING SALES ON 0171 289 3533





sound investment

If you have invested expertise and money in building up a sound system to your own unique specifications, then why compromise with indifferent housing units?

Fi-Rax offers a new dimension in audio visual racking - from a range of standard designs to the flexibility to custom create a unit to suit your particular sound system and lifestyle.

- High quality aluminium construction.
- Finishes available to your choice.
- Fully adjustable 6mm glass shelving.
- Sound isolation on shelving/feet.
- Custom created to suit your system.
- Free delivery throughout the UK.

Fi-Rax - a sound investment for those who want the best from their equipment.



Audio Visual Furniture

For further information or a free brochure contact:
JEM Distribution, Springfield Mills, Spa Street,
Ossett Wakefield WF5 0HW.
Tel: 01924 277626 Fax: 01924 270759

...listen to the music.



DA-188

"The Orelle DA-188 digital-analog converter offers a taste of high-end performance at an affordable price."

Hi-Fi News & RR April '95

"The DA-188 will out-perform the on-board converter of most one-box machines...."

Gramophone March '95



CD-100

"It's superb with pop music such as The Beautiful South's Hold On To What and the Cranberries' I Can't Be With You. Its simple approach to this sort of material is mellow and very relaxing to listen to."

What Hi-Fi? August '95

"A smooth and punchy sound make this British player one worth looking out for."

Hi-Fi World November '95



SA-100

"...the SA-100 will deliver a sound that's direct attention-grabbing and detailed."

Sound quality * * * * * What Hi-Fi? March '95

"Orelle SA-100 is easily one of the best integrated amp currently available; it has the muscle one needs for rock, plus bags of finesse for classical. This is a very special amp!"

Hi-Fi Choice March '95

Orelle Audiophile Components

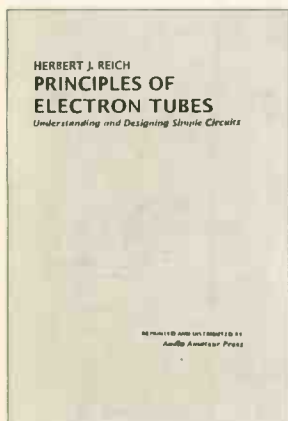
Orelle Hi-Fi
Unit 12, IMEX House
6 Wadsworth Road
Perivale, Middx UB6 7JJ
Tel: (0181) 810 9388
Fax: (0181) 810 9365

Hi-Fi World

WORLD LIBRARY

NEW VALVE BOOKS

PRINCIPLES OF ELECTRON TUBES, by **Herbert J. Reich**
£29.95

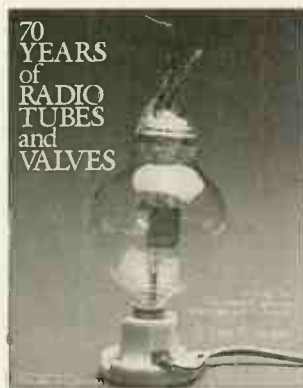


Principles of Electron Tubes first appeared in 1941 as a textbook for beginners studying valves for the first time. The book starts with the basics of how a vacuum tube actually works, including how construction and materials effect performance. Once this basic understanding is in place, Herbert Reich goes on to explain the principles of the simple diode valve, the triode and multi-grid valves. Familiar with the various valve types and their operating principles, the book continues to show how a simple circuit is designed and on to amplifiers, transformers and power supplies. A must for budding valve enthusiasts and an invaluable reference for hobbyists.

70 YEARS OF RADIO TUBES AND VALVES, by **John W. Stokes**
£19.95

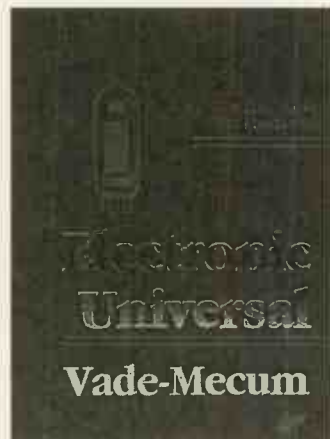
New Zealand author John Stokes, with over fifty years experience, outlines the evolution of radio receiving tubes and the part they played in the domestic radio

receiver in this beautifully illustrated (B&W) book. An ideal reference for those interested in the history and development of valves and for collectors alike.



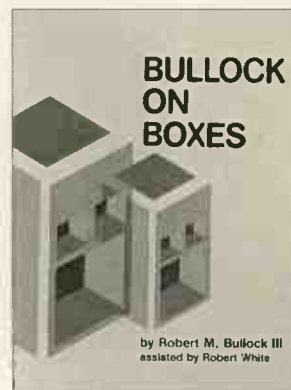
ELECTRONIC UNIVERSAL VADE-MECUM, by **Piotr Mikolajczyk & Bohdan Paszkowski**
£49.95

This sizeable data book contains no fewer than 5693 valves divided into 442 groups. It contains connection details, operating parameters, load lines, example circuits and more making it one of the most comprehensive reference books we've seen, although there are some omissions, such as 300B and 211 valves.



LOUDSPEAKER BOOKS

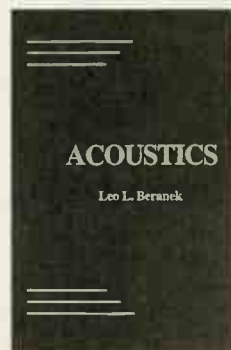
BULLOCK ON BOXES, by **Robert M. Bullock**
£12.95



This book relies on manipulation of Thiele-Small parameters (supplied with all drive units) to optimise reflex box design, but with a calculator and at high school level. With lots of helpful tables and graphs, this straightforward book is every beginners best bet for getting to grips with sizing the box and port of a reflex loudspeaker.

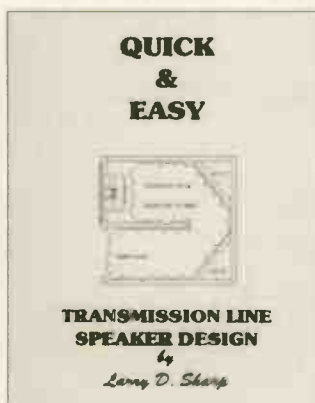
ACOUSTICS, by **Leo L. Beranek**
£39.95

From analogous electrical circuits important for modelling, the author moves through to microphones then loudspeakers. He covers design factors, showing how theory influences practice in drive units. Loudspeaker enclosure types covered include sealed, ported and horn. The behaviour of sound in rooms, very important for hi-fi, is also covered extremely well here.



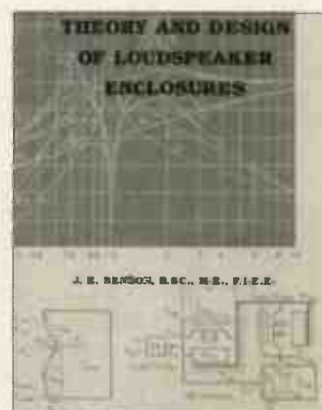
QUICK & EASY TRANSMISSION LINE SPEAKER DESIGN by **Larry D. Sharp**
£10.95

A practical approach to designing and building your own transmission line loudspeaker. Covers the background theory, but is very practical in approach. Design examples and equations, even a computer package to run under Lotus 123 which takes care of the maths.



THEORY AND DESIGN OF LOUDSPEAKER ENCLOSURES by **J. E. Benson**
£23.95

This book covers loudspeaker enclosure design; infinite baffle, reflex, passive radiator etc in great detail, with a highly mathematical approach, making it unsuitable for beginners, but highly authoritative to experienced designers with a good foundation in acoustics.



Hi-Fi World WORLD LIBRARY

SOLID STATE ELECTRONICS

THE ART OF ELECTRONICS, by P. Horowitz and W. Hill. £35

The definitive electronics book. The Art of Electronics is an ideal book for the beginner through to the engineer. Written in easy to understand English, each chapter takes you from basic first principles through to full design exercises and practical circuits.



THE ART OF LINEAR ELECTRONICS, by J. Linsley-Hood. £16.95

Concentrates specifically on analogue electronics for audio and goes into detail on obscure topics like the drawbacks of feedback, as well as its advantages. Covers mainly solid state but



also includes valves. A must for serious enthusiasts and budding designers.

AUDIO ANTHOLOGIES

Audio Anthologies - When Audio Was Young

There are five volumes of the Audio Anthologies, listed below with a brief description and guide to their contents. They cover one of the most exciting and important eras of hi-fi, from the end of the second world war, through the introduction of stereo, magnetic recording, binaural recording and the FM Multiplex decoder. They contain many ground breaking circuits and theory covering all aspects of hi-fi design. A must for valve enthusiasts.

Volume One - May 1947 to December 1949

The first new audio amplifiers, tuners and speakers designed after the long delays of the Great Depression and World War II.

Summary of Contents: 9.5watt, 5watt and 6.5 watt 6AS7G amplifiers, 30watt 300B amplifier, valve FM tuning indicator, 30watt 211 power amplifier, cathode follower amplifier using 6V6, an adaptation of the Williamson amplifier, valve phono preamplifier, several horn and reflex loudspeaker designs and much more.

Volume Two - January 1950 to July 1952

More great amplifiers, preamps, loudspeaker designs, and the first glimmer of the stereo revolution plus magnetic recording aids.

Summary of Contents: Ultra linear 6L6 design and operation of the Williamson, a direct coupled amplifier, Williamson type amplifier using 6A5s, 40watt 845 push-pull amplifier, valve phono and line preamps, valves and loudspeaker damping, design and construction of reflex and horn loudspeakers.

Volume Three - August 1952 to June 1955

Seven power amplifiers, eighteen preamps, twelve loudspeaker designs, including four horn types and binaural recording techniques.

Summary of Contents: Simple valve phono stage, transformerless amplifier using 6082, 20watt 5881 amplifier, 10watt 6V6 amplifier, stereo valve preamp, high quality valve phono stage, a preamp for the Williamson, low distortion tone control preamp, binaural or stereophonic?, transistor phono amp, corner horn loudspeaker, concrete horn loudspeaker.

Volume Four - July 1955 to December 1957

How to plan an audio system, twelve amplifiers and preamps, solid state techniques and circuits introduced and six loudspeaker designs.

Summary of Contents: 18watt 5881 amplifier, 4watt single-ended tweeter amplifier, budget 11 watt amplifier, versatile bass/treble control, transistor theory, transistor preamp, transistor techniques, battery powered transistor phono preamp, loudspeakers explained.

Volume Five - January 1958 to December 1959

Stereo comes to full flower with four FM Multiplex decoder designs, seven power amps, eleven preamps, a commercial killer, five loudspeakers, and theory articles by Olson, Crowhurst and McProud.

Summary of Contents: Stereo valve multiplex decoder, 7watt EL84 amplifier, valve active crossover and 20watt treble amp/50watt bass amp., monaural, binaural, monophonic and stereophonic explained,

heterodyne FM multiplex adapter, transistor preamp, 60watt EL34 amplifier, high power audio amplifiers, hi-fi loudspeaker enclosure.

Price
All five for

£14.95 each
£69.95



VALVE BOOKS

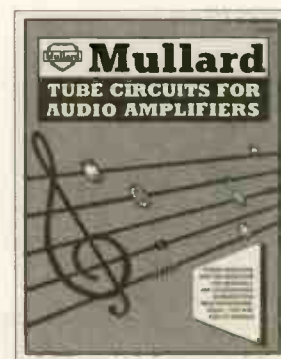
AN APPROACH TO AUDIO FREQUENCY AMPLIFIER DESIGN, seventeen circuits from 5 to 1100watts. General Electric Co. £19.95

Seventeen high quality amplifier designs from the Research Laboratories of the General Electric Company (UK). Designs range from 5 to 100watts, using KT66s, KT88s, DA100s, etc. Also includes two valve pre-amplifiers complete with valve phono stages.



MULLARD TUBE CIRCUITS FOR AUDIO AMPLIFIERS. £13.95

First published in 1959 by Mullard, this book includes full designs for eleven power and control amplifiers, including the 5-20, using valves. This book begins with a four-chapter tutorial on getting the best sound from valve amplifiers.



THE WILLIAMSON AMPLIFIER,

180

Audiophile International Presents

Pure Virgin Vinyl LP's

Pressings By Classic Records

Classic Records present landmark reissues of some of the best stereo classical and Verve jazz LPs ever made.

Original master tapes are used in the mastering and cutting of all lacquers. Focusing on being as faithful to the original master tapes as possible, these high quality heavy vinyl pressings are outstanding in every respect.

Pressings are made using HQ180gm virgin vinyl which produces a super-flat extra heavy disc of unmatched sound quality



LSC 2446 RIMSKY-KORSAKOV

Scheherzade

A personal favourite among the RCA living stereos. Fritz Reiner drives the Chicago Symphony Orchestra at a perfect pace throughout and the musicians rise to the occasion, most notably concertmaster Sidney Harth who's violin solo at the end of 'Festival in Baghdad' may bring tears to your eyes. Richard Mohr, in writing the original liner notes, said of the CSO "Under Dr. Reiner's direction (they) have achieved what can only be termed a musical revelation and that in the most literal sense"



LSC 2150 PROKOFIEV

Lt. Kije

Reiner leads the Chicago Symphony Orchestra here in this exceptional recording - bass is very deep and dynamic and strings have a marvellously delicate and detailed quality. There is a beautiful sense of hall ambience and reverb coupled with a natural soundstage which, when combined with maestro Reiner's interpretation, make this one of the most desirable of the RCAs.



LSC 2436 RESPIGHI

Pines Of Rome

For many years the only way to hear this LP was on the 1s / 1s pressing version which was almost unobtainable at any price (Higher pressing numbers were cut at much lower levels with a subsequent loss of dynamics, richness and ambience). Now Classic Records have come to the rescue with a remastering job that goes beyond even the 1s / 1s original, and does full justice to this remarkable performance by Reiner and the Chicago Symphony Orchestra, widely considered to be the best on record.

SPECIAL RETAIL OFFER:

Buy 2 or more RCA LSC LPs @ £25 each
(This offer does not apply to LSC 2313 & 6065)

Available Now From Audiophile International

To Order Visa / Access Call
24 Hour Fax

01276 855578

01276 855580

'Classic Records' Dealer inquiries welcome

01276 855530

- LSC 1817 OFFENBACH - Gaité Parisienne £28
- LSC 1900 BERLIOZ - Symphony Fantastique £28
- LSC 1934 BARTOK - Concerto For Orchestra £28
- LSC 2201 MUSSORGSKY - Pictures At An... £28
- LSC 2222 DEBUSSY - Iberia (Reiner) £28
- LSC 2225 WITCHES BREW (Gibson) £28
- LSC 2313 SOLTI - Venice (Royal Opera House) £37
- LSC 2449 GOUND - Faust/BIZET - Carmen £28
- LSC 2456 LALO - Symphonie Espagnole £28
- LSC 2285 WALTON - Facade £28
- LSC 2298 BORODIN - 2nd Symphony £28
- LSC 2343 REINER - Festival (Chicago S.O) £28
- LSC 2500 STRAUSS - Waltzes (Reiner, C.S.O) £28
- LSC 2541 LISZT - TODTENTANZ £28
- LSC 2436 RESPIGHI - Pines Of Rome (Reiner) £28

- LSC 1817 OFFENBACH - Gaité Parisienne £28
- LSC 2446 RIMSKY-KORSAKOV - Scheherzazde £28
- LSC 2134 OVERTURE! OVERTURE! £28
- LSC 2150 PROKOFIEV - Lt. Kije (Reiner, CSO) £28
- LSC 2183 THE REINER SOUND £28
- LSC 2418 ELGAR - Enigma Variations £28

CLASSIC RECORDS VERVE JAZZ

- ELLINGTON & HODGES - Back To Back £25
- COLEMAN HAWKINS ENCOUNTERS £25
- COLEMAN HAWKINS - Alive At The Village Gate £25
- BILLY HOLIDAY - Songs For Distingue Lovers £25
- ELLA FITZGERALD - Let No Man Write My... £25
- BILL EVANS - Live At Montreux £25
- ELLINGTON & HODGES - Side By Side £25

Audiophile International Ltd.

P.O. Box 303, Chobham, Surrey, GU24 8RX.

We are now the official importers for Classic Records - RCA classical, Verve jazz, as well as DCC Compact Classics, King Super Analogue, Analogue Audio Association, Edition Open Window and we now handle exclusively all mail order sales for Mobile Fidelity.

If you really like music and want the latest releases on standard vinyl, gold CD and audiophile vinyl and the reassurance that your order will reach you safely you ought to join our world wide data base. Send £3 in postage stamps for our '95 gloss catalogue which contains the UKs largest selection of audiophile recordings, then receive free of charge monthly 'update' catalogues containing new releases and used mint condition LPs.

Audiophile International Presents

More HQ Vinyl LP's

HIGHLY RECOMMENDED VINYL

MARY BLACK - The Holy Ground		£9
BLONDIE - The Remix Project	U.S. Import	£15
JACKSON BROWNE - I'm Alive		£12
THE CRANBERRIES - No Need To Argue		£9
MILES DAVIS - Kind Of Blue	Analogue	£10
BOB DYLAN - Unplugged 2LP		£12
THE JAYHAWKS - Tomorrow The Green Grass	U.S. Import	£12
ELTON JOHN - Made In England		£9
DANIEL LANOIS - For The Beauty Of Wynona		£12
BOB MARLEY & THE WAILERS - Natural Mystic		£9
JIMMY PAGE & ROBERT PLANT - No Quarter	U.S. Import	£17
TOM PETTY - Wildflowers	U.S. Import	£17
LIZ PHAIR - Whip Smart	U.S. Import	£12
PINK FLOYD - Pulse		
4LP box set with 52 page booklet all analogue		£44
PORTISHEAD - Dummy		£9
REM - Out Of Time	U.S. Import	£15
REM - Automatic For The People	U.S. Import	£15
SADA - The Best Of Sada	U.S. Import	£15
NEIL YOUNG - Sleeps With Angels 2LP	U.S. Import	£18
NEIL YOUNG - Mirror Ball 2LP	U.S. Import	£12

MOBILE FIDELITY SOUND LABS

200gm HQ Vinyl Pressings

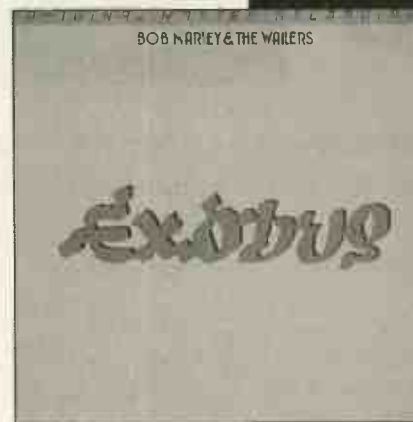
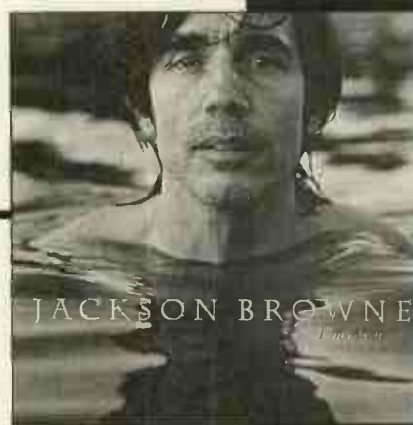
BUY ANY 2 SINGLE LPs @ £22 BUY ANY 5 SINGLE LPs @ £21

MUDDY WATERS - Folk Singer - Stunning	£25
PINK FLOYD - Atom Heart Mother	£25
THE MODERN JAZZ QUARTET - The Modern Jazz Quartet	£25
MODERN JAZZ QUARTET - Blues At Carnegie	£25
STAN GETZ & JOAO GILBERTO - Getz/Gilberto	£25
TRAFFIC - Low Spark Of High Heeled Boys	£25
JOHN HIATT - Bring The Family	£25
QUEEN - The Game	£25
JEAN MICHELL JARRE - Oxygene - Classic	£25
THE MOODY BLUES - On The Threshold Of A Dream	£25
DAVE BRUBECK - We're All Together Again	£25
THE ALLMAN BROTHERS BAND - Brothers & Sisters	£25
COLLINS, CRAY & COPELAND - Showdown!	£25
EMERSON, LAKE & PALMER - Trilogy	£25
ERIC CLAPTON - Eric Clapton	£25
BOB MARLEY - Exodus	£25
JOE COCKER - Sheffield Steel	£25
HANK CRAWFORD - Soul Of The Ballad New	£25
TODD RUNDGREN - Something / Anything 2LP set	£37
ALBERT COLLINS - Cold Snap	£25
JEAN MICHELL JARRE - Equinoxe	£25
THE MODERN JAZZ QUARTET - At Music Inn Vol. 2	£25
U2 - The Unforgettable Fire	£25
GERRY MULLIGAN MEETS BEN WEBSTER	£25
REM - Murmur	£25
THE MOODY BLUES - Every Good Boy Deserves Favour	£25
SONNY TERRY & BROWNIE MCGHEE - Sonny & Brownie	£25

DISCOVERY & IMPULSE PRESENT

180gm HQ Vinyl Pressings

Discovery		
OREGON - Out Of The Woods	£25	
DEXTER GORDON - American Classic	£25	
LEE RITENOUR - RIT	£25	
Impulse		
JOHN COLTRANE - A Love Supreme	£20	
JOHN COLTRANE - Ballads	£20	
JOHN COLTRANE & JOHNNY HARTMAN	£20	



P.O. Box 303, Chobham, Surrey, GU24 8YP. If you really like music and you would like the best selection of audiophile and standard vinyl as well as used mint condition LP lists every month you ought to join our world wide data base. Send us £3 in stamps for our 70 page glossy yearly catalogue and each month you will be kept informed of all the latest releases. A free catalogue with every £20 order from this advert. U.K. postage £3 first LP 75p per additional, £2 first CD 50p per additional, we send every U.K. order First Class Recorded Superpacked. Overseas customers please call.

Audiophile International

Worldwide Mail Order

Retail Orders 01276 855578
 Fax 24 Hours 01276 855580
 Wholesale 01276 855530

Gramex Audio

DAN DULEY

SECONDHAND QUALITY HI-FI. CUSTOM BUILT EQUIPMENT AND ACCESSORIES. KITS BUILT TO ANY SPECIFICATION.

NEW IN THIS MONTH:-

LINN SONDEK WITH VALLHALLA BOARD AND LVX FOR £290

SOME OLD VALVE RADIOS AT £40 TO £80, GARRARD 401 AND 301 MOUNTED AND UNMOUNTED AND VARIOUS AMPLIFIERS FROM LEAK NAD TRIO NAIM SUGDEN ETC. VARIOUS GRUNDGE TURNTABLES FROM £15 - £40.

ORIGINAL QUAD SLEEVE FOR 33/FM3 £50, THORENS TD124(II) WITH SME III £200 AND VARIOUS GRUNGE AMPS & TUNERS THAT WERE TAKEN IN P/EXCHANGE TO BE DISPOSED OF AT VERY GOOD PRICES!

WE SPECIALISE IN THE REPLAY OF "78" RPM RECORDS ETC.

DON'T FORGET OUR UNRIVALLED SELECTION OF SECONDHAND LP&CD.

HELPFUL ADVICE ALWAYS AVAILABLE, DROP IN FOR A CHAT. WE HAVE THE MOST COMFORTABLE ARMCHAIRS AND ANY RECORD IN THE SHOP MAY BE AUDITIONED

25 LOWER MARSH, LONDON SE1 7AJ
WE ARE ADJACENT TO WATERLOO MAINLINE STATION.
TEL 0171 401 3830 FAX 0171 928 3999

OPENING HOURS ARE TUES. TO SATURDAY, 12:30 TO 18:30
**SECOND HAND QUALITY HI-FI ALWAYS REQUIRED, ESPECIALLY VALVE
EQUIPMENT, WORKING OR NOT.**



THE ASTONISHING DAC-1000 MKII 'PROSODY' D/A CONVERTER

Open, transparent soundstage and stunning detail unexpected in this price range. Fast, transient attack and breathtaking dynamics yet with sweet highs and warm midrange.



£699 inc. VAT

- Two low leakage high quality toroidal transformers
- 48x1000µF discrete low ESR filtering capacitors
- 5 full wave rectifiers with fast recovery diodes
- 21 low noise precision regulators
- 0.5% precision HOLCO metal film resistors
- 5% SCR 'Reference' MKP capacitors
- 64 times oversampling Delta/Sigma D/A converter
- Front selectable coaxial and optical digital inputs
- ProsREC digital input receiver circuit
- ProsLINEAR class A analogue section
- All gold plated I/O RCA sockets Gold plated double sided
- glass fibre circuit board
- 3.88Vrms high output

**PROS AUDIO (UK) LTD., 4 MONTAGUE DRIVE, COULDSON ROAD, CATERHAM, SURREY,
ENGLAND. CR3 5BY TEL/FAX: 01883 341935**

hi Best prices for new, xdem & s/h equipment fi

MARK LEVINSON no.23.5	mint S/H	£3750	AUDIO STATIC ES/SW 100	mint S/H	£2495
KRELL KSA 250B	mint S/H	£3500	LINN KABERS	mint S/H	£795
KRELL KST 100	mint S/H	£1750	KEF 103.4	as new	£795
NRG 201S	mint S/H	£2750	SONUS FABER AMATORS	mint S/H	£1895
EXPOSURE VIII monoblocks	mint S/H	£650	APOGEE CALIPER SIG	mint S/H	£1495
TESSERAC TAMP 60 monoblocks	mint S/H	£4995	MERIDIAN D6000	mint S/H	£5495
NAIM NAP 250 (old case)	mint S/H	£650	ATC SCM 100	ugc	£1795
AUDIO RESEARCH M300	mint S/H	£4995	APOGEE STAGE	mint S/H	£1295
JADIS JA 500 monoblocks	mint S/H	£8995	ACOUSTIC ENERGY AE2 + stds	mint S/H	£695
QUAD 606	ugc	£350	MAGNEPLANAR 1.4	mint S/H	£595
CONRAD JOHNSON MV50	mint S/H	£750	SONUS FABER MINIMA		
CHORD SPM 1000	mint S/H	£995	AMATORS	mint S/H	£995
JADIS JA30 monoblocks	mint S/H	£2250	SPICA ANGELUS	mint S/H	£695
MERIDIAN 205monoblocks	mint S/H	£450	WILSON WATT 3 PUPPY 2	mint S/H	£6995
ELECTROCOMPANET AW100	as new	£1395	ATC SCM 50A	as new	£3950
PROCEED AMP 2	as new	£1395			
AUDIO INNOVATIONS S 800	mint S/H	£350	WADIA 16	as new	£5995
AUDIO RESEARCH V140	mint S/H	£4995	MARK LEVINSON no31 transport	as new	£4750
AUDIO INNOVATIONS 2nd Audio	mint S/H	£1495	AUDIO RESEARCH DAC 1	mint S/H	£1195
LUMLEY REF 150	mint S/H	£1495	P. S. AUDIO ULTRALINK	mint S/H	£1195
GOLDMUND MIMESIS 3	mint S/H	£2300	REVOX H2	mint S/H	£595
MICHAELSON CHRONOS pre/pwr	mint S/H	£3995	MERIDIAN 263	mint S/H	£275
CADENCE M2/MA2	x-dem	£1995	QUAD 67	mint S/H	£495
QUAD 33/303	mint S/H	£195	MERIDIAN 206	mint S/H	£395
LFD PAULSI	mint S/H	£995	SONY X 333 ES	mint S/H	£395
			PHILIPS CD 850	mint S/H	£175
AUDIO RESEARCH LS 2B mkII	mint S/H	£2750	WADIA 64 dac	mint S/H	£1995
AUDIO RESEARCH SP9 mkII	mint S/H	£895	NAIM CD1	mint S/H	£1195
AUDIO INNOVATIONS L2	mint S/H	£450	WADIA 21 integrated	as new	£3895
HEYBROOK SIGNATURE	as new	£395	ACCUHASE DP.70	mint S/H	£2250
AUDIO RESEARCH LS2	mint S/H	£1595			
MARK LEVINSON28L	mint S/H	£1895	ALPHASON SYMPHONY		
MERIDIAN 201	mint S/H	£395	ATLAS POWER SUPPLY	mint S/H	£1295
EXPOSURE XIV +IX	Xmint S/H	£1495	VPI TNT mk II	mint S/H	£1995
TESSERAC TAP-A Line/phono	X-dem	£3995	ROKSAN XERXES/ARTEMIS/SHIRAZ		
CLASSE DR6	as new	£2495	ARTA XERXES/CHORUS BLACK	mint S/H	£1095
JADIS JP 80 mc	as new	£7995	VOYD "THE VOYD"	POA	£995
SONIC FRONTIERS SFL-1	mint S/H	£695	SME SERIES 20/V	POA	£995
TESSERAC TALA Line	X-dem	£995	KUMA STOGI/STABI + PSU	mint S/H	£995
BURMESTER 808 Line/phono	mint S/H	£2295	LUMLEY STRATOSPHERE STI	POA	£4250
AUDIO RESEARCHSP15 mkII	mint S/H	£3250	GOLDMUND STUDIO/T3F/PSU	mint S/H	£695
			EMMINENT TECH.ETII	mint S/H	£495
COPELAND CTA 401	as new	£895	KOETSU RED	mint S/H	£795
CREEK 42 40	mint S/H	£175	AUDIO NOTE I/O	as new	£1295
MISSION CYRUS 3 + PSX	as new	£550	LYRA PARNASSUS	as new	£1495
AUDIO INNOVATIONS S500	mint S/H	£495	ORTOFON MC 7500	x-dem	£995
ARCAM ZETA ONE. A.V.	as new	£695	TESSERAC phono stage	mint S/H	£395
NAIM NAIT 2	mint S/H	£250	MICHELL ISO/HERA	mint S/H	£295
			KINSHAW PERCEPTION	mint S/H	£495
SPENDOR SP9/1	as new	£2395	LFD MCI	mint S/H	£295
SOUNDLAB A3	mint S/H	£3500	EAR 834 P	as new	£145
STAX F81X	as new	£4995	DENON DL 304	mint S/H	£250
RUARK EQUINOX	mint S/H	£1095	QUAD FM4	mint S/H	£995
SONUS FABER EXTREMA + stds	mint S/H	£4500	NAKAMICHI CR7E	mint S/H	

MINT S/H - Second hand as good an example as we've seen anywhere

AS NEW - Typically less than 4 months old in new condition

X-DEM - Typically 'as new' but may be older

G.C/V.G.C - In perfect working condition but may be marked

hi CHOICE fi

(0181) 392 1959

(0181) 392 1994 phone/fax

Equipment bought or part exchanged

Full demonstration facility - by appointment

Major credit cards accepted
9.30am - 8.00pm 7days

**DESPERATELY SEEKING
TOP QUALITY HI-FI
due to the success of
The Hi-Fi Exchange
we have clients looking to
purchase you're equipment
Call now for best prices
0181 392 1963**

AUDIO CLASSICS

Audio Classics "Perfect Phase" rebuids

Although LEAK TL12+ & STEREO 20 are quite capable amplifiers, both are capable of far greater things than the stock circuit would have you believe. The worst part of the circuit is the phase splitter. In the TL12+ an ECC81 is used, and an ECC83 in the STEREO 20, valves that have medium to high *mu*. Sonically, this extra gain around the phase splitter causes AC imbalance, which LEAK try to balance via different values of anode resistor, which results in DC imbalance. All of which makes the amplifier sound slow, lifeless, and lacking in both bass and treble frequencies, not to mention attack. I change these valves for an ECC82, balance the anode resistors, change the valve bias, and remove the localised feedback from around it. The first valve is also modified to improve performance, as is the output stage. The result is an amplifier transformed, fast, clean, and better balanced. The cost for a warranted total rebuild and modification is £150 for either a pair of TL12+, or a STEREO 20.

LEAK Troughline Tuners

Troughline Mk II, III & Stereo are all very capable tuners - with two problems, firstly most are mono, secondly the Stereo models have lousy output. We have an easy cure for a low output stereo model, an extra valve buffer stage connected to the decoder. This raises the output from a flea-powered 0.04 of volt, to a much more usable 1.2 volts, as well as offering better cable control, and thus improving the sound (better bass, dynamics etc.). We charge £70 for this, including a full alignment, gold sockets & service. Anyone just wishing to have their tuner aligned and serviced will be charged £40. The ultimate mod for any Troughline (or any tuner for that matter) is the Tim de Paravicini F.M. Tube Decoder. This gives the best sound you can get out of any tuner system anywhere. Total charge is £235 for alignment, modification & supply of the TdP decoder.

AUDIO CLASSIC

Tel: 01 942 25 75 25

P.O.Box 67, WIGAN,
Lancashire WN2 3AG

Facsimile: 01 942 525 861

E-Mail:

h.boardman@bbnc.org.uk



BASE

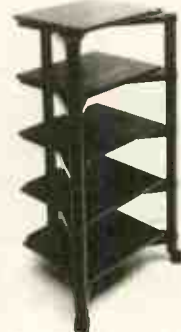
VIBRATION ISOLATION PLATFORMS
AND THE MODULAR AUDIO
SUPPORT SYSTEM

MUCH MORE THAN JUST A STAND!

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

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

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



I could not have bought better, I think it's the most cost effective rack on the market. A truly satisfied customer - Mr R Bosio, Kent.

"The Audiophile support system has released another octave from the bass output of my turntable and added transparency and a more natural feel to the treble of all components. As a classical musician, being a hi-fi enthusiast can be a frustrating business. The added sense of musicality and involvement gained from the Audiophile support brings the sound I hear at home one step closer to the sounds we create in the concert hall. Bravo".....Dr. K Murphy

For more details and a product portfolio please telephone



Audiophile Furniture Limited
Tel: 01342 826262

Try me & see

U.K.'s No.1 Specialist
Mail Order Company

For the very best deal on any Hi-Fi, Home Cinema, A/V unit - including all Award Winners!

- Try me & see is Britain's first dedicated Hi-Fi mail order company
- 1000s of satisfied customers nationwide

"...
I'm so delighted, that
words fail me. Thank goodness
I contacted you."



"...
What choice, what advice,
what knowledge.
Wow! What next?"



- Over half of our business is recommended or repeat
- You phoned the rest, now try the best!

AMAZING PRICES GUARANTEED!

... you'll get first-class
**service
savings
and support**

You can always buy from us with the complete confidence that we will never let you down.
We always put our customers first and constantly upgrade and update our systems in order to improve our service.

OUR COMMITMENT TO YOU

- ✓ To supply budget, regular and esoteric equipment.
- ✓ To deliver, insured, anywhere in the world within one week* - or your money back!
- ✓ To accept cheque, cash or major credit/debit cards.
- ✓ To offer a comprehensive warranty on all goods.
- ✓ FREE collection (within 24 hours) and delivery of repairs.
- ✓ To offer extended warranties up to 5 years.

* Subject to stock availability

If you are **SERIOUS** about
buying **hi-fi**, **phone**
(0181) 563 0003
NOW!

Fax (0181) 563 0300

"... no
hesitation in recommending
you to my friends"



...We will be opening a new showroom soon...

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

ALPHASON *Designs*

Fully modular television and hifi supports to suit individual requirements.
**SEE THE QUALITY, HEAR THE QUALITY,
FEEL THE QUALITY**



If you would like to receive further information of our full product range, or wish to know details of your local stockist, please telephone us now, or complete the coupon opposite.

Alphason Designs Limited,
Unit D2 (2), Moss Industrial Estate,
St Helens' Road, Leigh, Lancs.

Tel: 01942 678000
Fax: 01942 609913

Please send me a brochure from the
Alphason New Concept range of hi-fi equipment supports.
Name _____
Address _____
RF7

PURESONIC CABLES & CONNECTORS

The most exciting range of cable and connectors in the world. . .

- 14 different connecting leads
- 19 different phono connectors
- 24 different speaker connectors
- 19 different cables



PUREsound. . .
PUREvalue. . .
PUREquality. . .
PURESONIC

See the whole range at *Sound & Vision* London, Cumberland Hotel, Marble Arch, London, W1. Sept. 23rd & 24th

For more information and your nearest dealer call:
Unit 1 & 2, 76a Farnley Rd London SE25 6NX
Tel 0181 771 8388 Fax 0181 771 1840

His master...



...is well
connected!

Acoustic Solutions is proud to offer a new bespoke loudspeaker service to compliment our range of interconnects. We can engineer quality loudspeakers to your particular room and system. For more information on this exciting new service, call or write soon.

ASL
Acoustic Solutions

ASL
18 Tamar Rise
Chelmsford
Springfield
Essex
Telephone 0973 149392

AUDIOLAB AURA ARCAM
B&W BEYER DYNAMICS
CRIMSON DNM,
INFINITY

stirling
AUDI

19 Barnton Street • Stirling • FK8 1HF
01786 479958

MISSION CYRUS ROTEL
MICROMEGA REVOLVER
MARANTZ SENNHEISER
HEYBROOK

**NEWS
FLASH!**



Gold MEDAL WINNERS do it AGAIN!!!

AN APOLOGY FROM AUDION?

WE MUST SAY SORRY TO ALL OTHER VALVE AMPLIFIER MANUFACTURERS FOR
RELEASING A WORLD CLASS AUDIOPHILE PRODUCT
AT A PRICE WHICH FAVOURS OUR CUSTOMERS

ONLY £599.00 INC.

**A NEW EXTENDED TRIODE SINGLE ENDED "CLASS A" AMPLIFIER
UNBELIEVABLE BUT TRUE!**

THE NEW STERLING "E.T.S.E". MONOBLOCK

12 WATTS (18 MAX) 20-20K + 1db

LOW DISTORTION

GOLD R.O.D. EL34M (MULLARD REPLICA)

OPTIMUM TRANSFER TRANSFORMER

SILVER WIRED OUTPUT

AUDION GOLD "POWERLITE" CAPS

AUDION "MAX" SIGNAL TRANSFER

ALPS POTENTIOMETER

COMPLETE WITH AUDION'S FAMOUS "A" RATED GOLD MEDAL WINNING SOUND

AUDION COMMISSIONED EL34M MULLARD REPLICA

AVAILABLE SEPARATELY FOR £38.50 PER PAIR

CONTACT YOUR NEAREST DISTRIBUTOR OR SHOP FOR MORE INFO

LONDON
K J LEISURE
0171 4868 262/3

NOTTS
CHANTRY AUDIO
01777 870372

HEATHROW
AUDIOCRAFT
01895 253340

SURREY
FARNHAM AUDIO
08370 435952

NORFOLK
AUDIBLE DIFFERENCE
01850 983233

HERFORD
ENGLISH AUDIO
01432 355081

SUSSEX
JEFFRIES
01273 609431

ABERDEEN
ASTRAL
01224 582825

HUMBERSIDE
ZEN AUDIO
01482 587397

SUFFOLK
SIGNALS
01473 622866

OVERSEAS DISTRIBUTORS

SWEDEN
TURNING POINT
+46-8-7443477

JAPAN
SB INTERNATIONAL
+81-3-34057177

AUSTRIA
LOVING SOUND
+43-316-82281044

ITALY
ART OF MUSIC
+39-51-231172

CANADA
CANORUS INC
+1-416-972-1387

HOLLAND
AUDIOVORM
+31-23-322774

SINGAPORE
LANDMARK AUDIO
+65-3383867

PHILIPPINES
UPSCALE
+632-741567

GERMANY
MARVEL HEISS
+49-234-37430

GREECE
EXCLUSIVE
+30-1823622655

SLOVENIA
K.A.T
064-43391

AUSTRALIA
KEDKOR PTY
+61-2-708-4388

HONG KONG
ELITE AUDIO
+852-530-1567

PORTUGAL
LUZESOM
+351-2-9532235

TAIWAN
FOCUS AUDIO
+886 2 8481193

SPAIN
MULTIMEDIA
+34-77-240794

FRANCE
MAGAVOX
+33-59321134

SWITZERLAND
MAR ELECTRONIC
+41-1463-81-05

AMERICAN CUSTOMERS CONTACT CANORUS +416 972 0320

AUDION AMPLIFIERS UNITED KINGDOM

FACT NOT FICTION

ALEMA UK FAX 01273 722250

The Synergy was designed for maximum pleasure, minimum fuss.

All on one chassis, it incorporates a remote-controlled dual mono preamplifier (housed 50mm from the inputs) and a dual mono power amplifier developing 150 watts per channel of smooth, detailed muscle. There is also an on-board bias control for accurate tube maintenance.

No fewer than 14 circuit boards contribute to the unequalled sonic integrity and all control circuitry is non-interactive with its own power supplies.

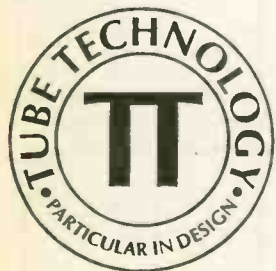
Even the remote-controlled volume has a separate gearbox and motor together with a high quality attenuator, custom built ensuring "high-end" purity.

Tube Technology's build quality is of the highest standard and is backed by a no-nonsense ten-year guarantee.

Described here are only a few features of the Synergy, for a complete discussion and audition of this and our other remarkable products please contact us for your nearest dealer and colour brochure.

From the moment you hear The Synergy...

you realize that its unique styling is a major contribution to its musical performance.



Tube Technology, Foxhills Farm, Longcross Road, Ottershaw, Surrey, KT16 0DN, England. ~ Est. 1988.

Tel: 01932 873444 ~ Fax: 01932 873012

All Tube Technology amplifiers are designed and manufactured in England.

Gold Aero

The Synergy is shown here fitted with Gold Aero tubes from the USA. These are high grade, audiophile vacuum tubes which have attained world class respect for their sonic qualities. Now available in the UK via Tube Technology & their selected dealers.

Please enquire for a tube list & brochure.



For Hi-Fi & Hi-Fi Bargains Welcome To

HI - FI CONFIDENTIAL

Save Upto **40%**
or more

Ph. 0171 233 0774

**Why buy elsewhere
when we offer:**

***** Service

- * The best prices
- * 24hrs delivery service (Carriage insurance free)
- * Free professional advice
- * The biggest choice of hi-fi separates / systems, speakers and home cinema
- * Valve amps and pre-amps a speciality.

**AUDIO INNOVATIONS-B&W-BOSE
CASTLE-CONRAD JOHNSON DENON-
DPA-DYNAUDIO-EAR-KEF
KENWOOD-LUMBLY REFERENCE
MARANTZ-MUSICAL FIDELITY-NAD-
NAKAMISHI-ORELLE-PINK
TRIANGLE-PIONEER-QUAD
SUGDEN-SPENDOR-TANNOY
TECHNICS-TUBE TECHNOLOGY
UNISON RESEARCH-YAMAHA**

HI-FI CONFIDENTIAL LTD

34 Buckingham Palace Road, London SW1W 0RE

ph. 0171 233 7225 & 0171 233 0774

Fax 0171 233 7226

Showrooms near Victoria Station (1 min walk)

Valve amps available with us:
EAR-Tube Technology-Conrad Johnson-Lumbly Reference-Audio Innovations...

We stock the best selection of **speakers** from:
Quad Electrostatics, Spendor, Castle Acoustics, Tannoy, JBL, Kef, Bose, B&W...

Amplifiers and pre-amps:
Alchemist-Musical Fidelity-Quad-Kenwood-Marantz-Denon-Orelle-Rotel-Pioneer-Technics-Yamaha...

DACs & CD Players:
Pink Triangle, DPA, Orelle, Micromega, Marantz, Yamaha, Pioneer, Musical Fidelity, Sony, Teac

We offer the best prices and the widest selection on
cassette decks, tuners, turntables and home cinema
products from: Rotel, Yamaha, Sony, Technics, NAD,
Pioneer, Marantz, Denon...

SPECIAL OFFERS OF THE MONTH

AMPS	NORM	SALE			
AUDIO INNOVATIONS SERIES			DYNAUDIO AUDIENCE 5	£398	£269
200 POWER AMP	£499	£429	ROYD SAPPHIRE 2	£249	£219
AUDIO INNOVATIONS ANNIVERSARY			UKD OPERA PRIMA	£450	£339
800 P/AMP	£1475	£1129	KEF REFERENCE 103/4 BLACK	£1199	£799
AUDIO INNOVATIONS CLASSIC			KEF REFERENCE MODEL 1	£1199	£789
25 INTG AMP	£1199	£809	CD PLAYERS		
LUMBLY REFERENCE ST 70 POWER AMP	£1950	£1799	MICROMEGA STAGE 3	£850	£699
LUMBLY REFERENCE ST 40 POWER AMP	£1200	£899	ORELLE CD10T	£799	£629
SPEAKERS			TEAC VRDS10	£769	£729
DYNAUDIO CONTOUR 1.8	£1842	£1115	TEAC VRDS7	£599	£569
DYNAUDIO AUDIENCE 15	£1132	£689	TEAC VRDT1	£499	£479

All major credit cards welcome. OPEN 10am-6pm Mon-Sat Mail order throughout UK Tax-free export worldwide.

Sussex Surplus

13 STATION ROAD, HORSHAM, WEST SUSSEX RH13 5EZ

Telephone: (01403) 251302 Fax: (01403) 270339

Test Equipment • Components • Accessories
Electromechanical • Mechanical • Engineering

VALVES WANTED

TOP PRICES PAID FOR NEW BOXED VALVES

SEE LIST BELOW:-

ECC 83/EF86 MULLARD	£3 ea	DO 60	£50 ea
Px25 MARCONI OR OSRAM GLOBE SHAPE	£90 ea	DA30/DA60 G.E.C	£80 ea
Px4 MARCONI OR OSRAM	£50 ea	KT66 G.E.C	£35 ea
PP3-250 MAZDA OR ASRAM	£50 ea	KT88 G.E.C	£50 ea
805/845/211 USA ORIGINALS	£25 ea	EL34 MULLARD	£12 ea
STC 4212E UK.	£100 ea	300B U.S.A OR S.T.C	£150 ea
DA100 G.E.C	£100 ea	EL37 MULLARD	£10 ea

**ALSO WANTED USED VALVES AND OLD
VALVE AMP EQUIPMENT**

LEAK, QUAD RADFORD, ETC..

SEND, PHONE, FAX, LIST, INSTANT DECISION

SLATE AUDIO



Esoteric Developments



THE SPEAKERSTAND

The best speaker supports in the world.

State of the art in both performance and design. custom made to suit any loudspeaker. solid slate, supremely rigid and totally stable.

◀◀ *"Immaculately finished, sublimely rigid, on a par with the best stands I've used." Ken Kessler, Hi-Fi News R/R. "An astonishing degree of instrumental separation, stable and holographic, with great precision and remarkable poise. The ultimate in high fidelity supports." David Praker, Hi-Fi Answers. "Superbly finished, the sound quality was considered to be first rate." Martin Colloms, Hi-Fi News R/R. "The sound quality when using the Slate Audio stands proved to be a revelation, something special." Paul Messenger, Hi-Fi Choice. "The finish is excellent, the sound quality magnificent and breathtaking." Tom Bryant, The Telegraph. "The Slate stand is unusual and expensive, but if you are after an exceedingly neutral stand it's the leading contender. This stand offers an exceptionally neutral platform for speakers; highly transparent sound leads to musical performances with real insight." SOUND QUALITY: ■■■■■ Malcolm Steward Hi-Fi Choice.*

SLATE AUDIO GARRARD 301 and 401

The most musical record players in the world.

Our researched Solid Marble Plinth System® advances the state of the art and brings the Garrards into the 21st century. All wooden plinths produce unacceptable levels of coloration, microphony and feedback, with poor signal to noise ratios. When dealing with a thoroughbred you must respond with a firm hand, as anybody who has heard the transformation will testify.

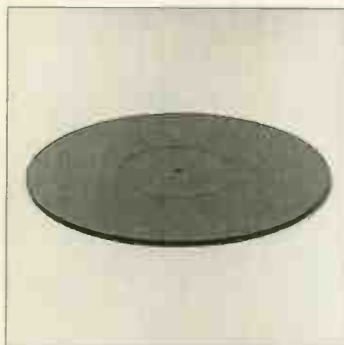
Dear Mr. Soper,

Thanks for sending me the plinth for my Garrard 401. I must confess, that I was a bit sceptical about it, when I ordered one - after all, I bought it, without the possibility of listening to it first. But the results I get are really unbelievable. There is no rumbling, instead deep, deep bass and an authority, I never heard before from my records. And believe me, I tried some of the best turntables around (Linn LP 12, Roksan Xerxes). Now I'm waiting for the forthcoming power-supply. The day I place my order for it, I will do so without being a bit sceptical. Thanks again for a marvellous piece of art.

MR TEILINGNER - AUSTRIA



Better than a . . .



THE GLASSMAT

The finest platter mat in the world.

◀◀ The Glassmat was developed to improve the performance of the Garrard 301 and 401 record players. However it also gives astonishing results when used on other turntables. So effective is its performance, we have now made it available as a universal replacement mat. In all cases other mats introduce colorations of their own, robbing the music of large amounts of detail and ambience. In order to achieve maximum information retrieval with optimum damping, a hard and unyielding material is required. Glass is ideal in every respect, damping is complete, the playing surface being quite simply sublime. In terms of detail resolution and sheer three dimensional ability, no other mat comes close. But then you still have to consider the absolute clarity, precision and solidity of the presentation. This is the ultimate platter mat.

£65.00 PLUS £3.50 FREIGHT.

AT LAST THE POWERHOUSE OUR GARRARD 301/401 TD124 AND UNIVERSAL POWER SUPPLY PHONE NOW FOR A HOME TRIAL OF THE BEST TURNTABLE DRIVE SYSTEM EVER

THE GREEN MONSTER SOLID MARBLE PLINTH SYSTEM® FOR THE THORENS TD124.

MICKEY MOUSE A VERY SERIOUS UPGRADE FOR THE MICHELL GYRODEC IN SLATE.

BEDROCK SOLID SLATE PLINTH SYSTEM® FOR THE REGA PLANAR 2 AND 3.

SLATE AUDIO GARRARD 301 AND 401 AVAILABLE COMPLETE OR MARBLE PLINTH SYSTEM® ONLY.

SME/GARRARD 301 AND 401 CELEBRATION ARMS WITH SPECIAL GRAPHICS "GARRARD 301 OR 401 CELEBRATION" 309 £597.00 • 312 £694.00 • IV £869.00 • V £1295.00.

THE TONEARM OUR SPECIAL VERSION OF THE FAMOUS REGA RB300, FITTED WITH GOLD PHONOS £155.00 + £3.50 FREIGHT.

THE SPIKEKIT SPECIALLY DEVELOPED TO FIT DIRECTLY TO FLOOR STANDING LOUDSPEAKERS OR ANY WOODEN SUPPORT ADJUSTABLE AND VERY SIMPLE TO FIT £25.00.

GOLD PHONOS (PAIR) £9.50 • GOLD BANANA PLUGS (FOUR) £8.00 • SORBOTHANE BIG FEET (FOUR) £48.00 • SORBOTHANE CD FEET (FOUR) £30.00 •

SORBOTHANE SHEET (6" x 6") £15.00 • SHURE STYLUS PRESSURE GAUGE £18.95 • GARRARD 301 SWITCH SUPPRESSOR £7.50 • TURNTABLE SERVICE £65.00.

WE OFFER A FULL MONEY BACK GUARANTEE IF NOT COMPLETELY DELIGHTED

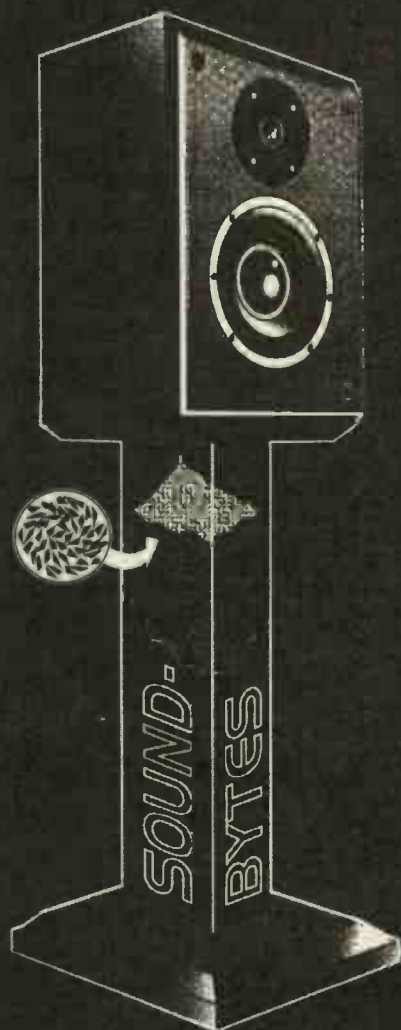
FOR INFORMATION, SALES OR DEMONSTRATIONS, SPEAK TO PETER SOPER

47 GEMINI CLOSE, LEIGHTON BUZZARD, BEDS, LU7 8UD.

TEL: 01525 384174 or 0421 624429

SOUND-BYTES

High Density Filler Material for Hi-Fi Speaker Stands



As any hi-fi specialist will tell you, to get the maximum benefit from your loudspeaker / speaker stand combination, you should fill your stand with a suitable material. Now available are **SOUND-BYTES**, uniquely shaped steel chips that, once poured into the speaker stand, effectively provide a solid steel core within. This makes the stand an extremely dense heavy platform, ideal for getting the best out of your speaker system.

Once your stands or suitable floor-standing speakers are filled, you will immediately notice an improvement in lower frequencies, in the form of a much tighter, punchier bass response. Available in 4 litre tubs of approximately 20Kgs in weight, each tub will provide enough **SOUND-BYTES** to adequately fill most commonly available speaker stands and floor-standing speakers.

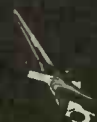
- interlocking steel delta-shaped bytes
- superb value for money
- superb sound isolation
- suitable for support tables
- very nearly the full density of lead
- four times the density of sand
- suitable for all hollow speaker stands
- suitable for many floor-standing speakers

RECOMMENDED BY THE UK'S LEADING STAND AND LOUDSPEAKER MANUFACTURERS....

TARGET AUDIO

LOUDSPEAKERS

SOUND ORGANISATION



RUARK

A Stroke of Genius

KUDOS APOLLO

SOUNDSTYLE AUDIO FURNITURE

AVAILABLE MAIL ORDER FROM

Quality Suppliers of:

- Technics • Denon
- Mission • Arcam
- Wharfedale • Nad
- Micromega • Onkyo

Colin Mackenzie's

HI-FI-CORNER

Scotland's No.1
HI-FI Company



- Harman/kardon
- Kenwood • Tannoy
- Audiolab • Target
- Aiwa • Cyrus • TDL
- and other leading makes

52 Gordon Street,
Glasgow
0141 248 2840

42-44 Cow Wynd
Falkirk
01324 629011

0131 556 7901

Carriage £5.00 Allow 14 Days Delivery

121 Rose Street,
Edinburgh
0131 220 1535

1 Haddington Pl,
Edinburgh
0131 556 7901

Also available from
James Kerr - in new
premises at
145 Bath Street
Glasgow

Telex
0141
226
5711

James Kerr

>>> SPECIAL OFFER PRICE £19.95 <<<

MEASURED PERFORMANCE

It's important to measure products to assess performance, find explanations of sound quality and warn of peculiarities or faults. Only Hi-Fi World has an advanced in-house laboratory with digital signal analysis for this purpose. In conjunction with this facility we assess sound quality in our own acoustically treated listening room. We measure most products reviewed. Here's a simple guide on our test results.

LOUDSPEAKERS

Smooth, flat frequency response is important to ensure a balanced sound. Look carefully at overall trends; rising treble will give a bright sound, falling treble a dull sound. A rise through the midrange normally corresponds with good projection.

High sensitivity (better than 86dB) means less power is needed for a certain volume, meaning a low power amp. can be used.

The impedance curve tells us how easy loudspeakers are to drive. Low or wildly varying impedance is bad; a flat impedance around 8Ω is good.

CD PLAYERS

Even small trends in frequency response of CD players can affect their subjective balance. Generally, those with a gently rolled off treble and, more rarely, a rising bass will sound best. Rising treble can produce a

sharp sound.

The distortion plot we show is taken at -30dB, to represent a typical music signal. High distortion at this level, combined with rising treble, can result in a harsh sound. Yet other effects have to be considered, especially low level linearity, which we also test for, including -90dB signals with dither applied.

AMPLIFIERS

Distortion from solid state amplifiers should be no more than around 0.2%. Even order (2nd, 4th, 6th etc) distortion is aurally innocuous, but odd order (3rd, 5th, 7th etc) distortion makes for a glassy, hard sound, or grittiness.

Frequency response can be band limited, with bass and treble rolled off just out of the ear's range, or wideband. Each has its own characteristics. Small wideband response variations colour tonal balance.

Power output is easy to understand: the higher the figure, the louder it will go. Just make sure there's enough power output to drive any loudspeakers you intend to use.

TUNERS

Frequency response, as always, says much about tonal balance and character traits, like peaky treble (due to a mis-matched MPX filter). Distortion and channel separation need to be less than 0.3% (according to

harmonic structure) and better than 25dB.

Hiss level must be lower than -70dB for Radio 3 silences to be just that - silent. And full quieting, the strength of aerial signal needed for optimum results, should be around 1mV or less

Selectivity, the ability to separate stations under the most difficult conditions should be better than 60dB and sensitivity better than 30μV on stereo.

CASSETTE DECKS

Replay performance is measured to IEC 94 Standards using IEC test tapes. This ensures that recordings made on a machine transfer to a car player, personal stereo or another domestic recorder properly, as well as ensuring optimum results with commercially prerecorded tapes. Look for a quoted replay response of 40Hz-10kHz, no more than 1% speed error and hiss in the replay amps lower than -58dB.

Recording quality considers frequency response, bias variation, head performance and alignment. Frequency response should stretch from 40Hz-15kHz or so. Head overload (MOL315) must be above 0dB, reaching around +4dB for good results.

From the transport mechanism look for less than 0.15% wow or flutter. Overall (DIN weighted) wow and flutter should be no more than 0.1% or so.

AMPLIFIERS

GALACTRON

For its size, the Galactron is not especially powerful as solid-state amplifiers go. It produces 72watts into 8Ω and 132watts into 4Ω. It will, however, drive low loads adequately.

In spite of hot running, suggesting high quiescent current and substantial Class A working, distortion was on the high side, although much of it was innocuous second harmonic at low levels, as we would hope. Distortion increased with both output level and frequency, with strong higher harmonics at 10kHz. We measured 1% distortion at around 12volts (18watts) into an easy 8Ω load, with extended harmonics, and a maximum distortion of 1.8% at full output, 10kHz. Harmonics were extended - not a good sign.

Sensitivity on all inputs was low at 450mV, not enough for some budget tuners

and cassette decks, which give 300mV out.

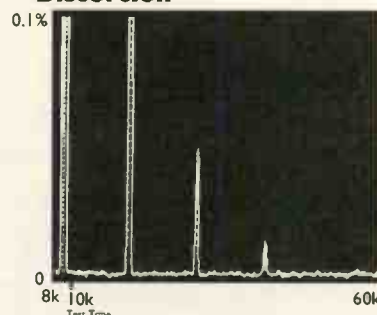
Frequency response was adequately wide at 14Hz-76kHz, at all settings of the remote volume control.

The Galactron measured satisfactorily in most areas except distortion, which was high. **NK**

TEST RESULTS

Power	72watts
CD/tuner/aux.	
Frequency response	14Hz-76kHz
Separation	60dB
Noise	-91dB
Distortion	0.4%
Sensitivity	450mV
dc offset	3mV

Distortion



Hazlemere Audio

CONSULTANTS

ARION
ART AUDIO
ATC
AUDIOMECA
AVI
BASIS
BRIGHT STAR
CONRAD
JOHNSON
FOUNDATION
AUDIO
GRAHAM
KINSHAW
LFD
LUMLEY
REFERENCE
MUSE
NOTTINGHAM
ANALOGUE
ORTOFON
PROJECT
SD
ACOUSTICS
SILVER
SOUNDS
SONIC LINK
TEAC
TRIANGLE
TRILOGY
VPI

OUR AIMS is to help music lovers increase their enjoyment of music in their homes.

The advice we offer is objective and given to help YOU decide what you like best.

TNT REFERENCE TURNTABLE

FOR SERIOUS VINYL ENTHUSIASTS

SUPERB AVI/ATC COMBINATION

TRILOGY VALVE AMPS

THE NEW TRILOGY 900 PRE-AMP ON DEMO

FEEL YOU ARE LISTENING IN THE CONCERT HALL WITH

MIRAGE SPEAKERS

We are the Lumley Reference Centre for Buckinghamshire

To listen to the beautiful music produced by the world's finest audio equipment call for an appointment, day or evening:

High Wycombe

(01494) 437892



PHASE 3 HIFI

213 - 215 Tarring Road, Worthing

West Sussex BN11 4HW Telephone (01903) 245577

Fax. (01903) 505824

THE BEST OF BRITISH!!

ARCAM

ALL NEW PRODUCTS IN STOCK

AUDIOLAB

COMPLETE RANGE IN STOCK

MERIDIAN 'DIGITAL THEATRE'

ON PERMANENT DEMONSTRATION

SHEARNE AMPLIFICATION

ON DEMONSTRATION

Delivered U.K. Mainland 48 hours, F.O.C. Visa, Access and Switch accepted. Products marked * are pre used bargains. All other products are EXDEM.



PHASE 3 HIFI

(01903) 245577



MANTRA AUDIO

• HI-FI/VIDEO ACCESSORIES
• MAIL ORDER DIRECT 1-10 DAYS
• COMPETITIVE PRICE (inc P&P)

MAKE	MODEL	CARTRIDGE	STYLUS	SWISS QUALITY DIAMOND STYLUS	PRICE
Arcam	C 77, C77 Mg	N/A	£16.00	OLM 30, RO 3/4	£8.00
	E77, E77 Mg	N/A	£26.00	R20 XE, OLM 34/36, XLM III	£12.50
	P77, P77 Mg	N/A	£47.00	AN 5/11/30/60/87/45	£8.00
Audio Technica	AT 95E	£21.00	£12.50	Alwa AN 25/07/77/0/4/932/8743	£10.00
	AT 110 E	£26.50	£16.00	Akai RS 33/35/38/4/85/90	£8.00
	AT 450E	£57.00	£34.00	BSR ST 14/15/16/17/19/21	£8.00
	AT OC3	£92.00	£64.00*	Dual DN 145/155/165/E, DN 149 S	£12.50
	AT OC 5	£125.00	£90.00*	Goldring G800/820/850 (D110/D120/D130)	£8.00
Denon	AT OC9	£216.00	£150.00*	G800 Sup E	£12.50
	DL 110	£65.00	£52.00	Hitachi DS-ST 7/12/14/15/26/30/35/102	£8.00
	DL 160	£85.00	£68.00*	DS-ST 5/16/23/24/25/55/103/104	£10.00
Goldring	DL 304	£185.00	£160.00*	DT 33/35/36/45/55/60/65, DT Z1 S	£8.00
	ELECTRA 1006	£24.00	£16.00	JVC N 47/48/51/53/60/61/63/66/72	£8.00
Nagaoka	1012 GX	£44.00	£29.00	Kenwood (Trio) N 36/37/43/45/56/59/62/67/69/71	£10.00
	1022 GX	£58.00	£38.00	National EPS 23/24/25/30/33/35/1 CS/2/70 D	£8.00
	1042	£78.00	£49.00	(Technics) EPS 43/52/75/78/ STSD, P30/33 D	£8.00
	ER01CA (LXH)	£94.00	£51.00	F30 (Supradia), EPS 205/207 E	£12.50
		£90.00	£60.00*	FF 15/ANRS 10/20 ELI, DM/P 20	£12.50
				GP 371/400/780/400 IVIII	£8.00
				GP 330/370/401/401 IV412 II	£10.00
				PN 210/220/240/K65/250/7295T	£8.00
				SN 27/28/29/33/34/37/41/50/80/101	£8.00
				ST 80/100/151/JG6/G13	£8.00
Ortofon	OM5E, OMP 5E	£16.00	£14.00	Sanyo (Fisher) ST G 8/9/10, ST 28/29/35/37/40 D	£8.00
	OM 78 (Stylus)	N/A	£26.00	SHY 104/111/116/117/118/123/124	£8.00
	OM10, OMP10	£25.00	£18.00	N 75-6/C, G, N 91 G, SS 35 C	£8.00
	OM20	£63.00	£35.00	N 44 E, N 70 EJ, N 75 ED/EJ T2	£10.00
	OM30	£81.00	£50.00	N 55 E, N 95 ED/EJ, N 97/105 ED	£15.00
	OM N'CLUB S	£31.50	£18.00	VN 15E, VN 35E (V 15 IIIE)	£8.00
	510	£31.50	£21.00	ND 133/134/142/150/155/200 G	£10.00
	520	£54.00	£40.00	ND 115/143/148/153/220/250 G	£10.00
	530	£85.00	£63.00	N 53/55/60 DY, N 62/292, N 71/290	£8.00
	540	£112.00	£85.00		
Shure	MC1 Turbo	£58.00	£45.00*		
	MC3 Turbo	£112.00	£85.00*		
	MC 10 Super	£85.00	£65.00*		
	MC 15 Super	£112.00	£85.00*		
	MC 25 E	£153.00*	£117.00*		
	MC 25 FL	£200.00	£153.00*		
	MC 10 Supreme	£234.00	£186.00*		
	MC 20 Supreme	£340.00	£255.00*		
	MC 30 Supreme	£425.00	£319.00*		
	VN 35 MR (V15II)	£68.00	£68.00		
Stanton	VN 45 MR (V15 IV)	£90.00	£90.00		
	V15 V MR	N/A	£130.00		
	500 AL Disco	£30.00	£18.00		
680 ALX Disco	£44.00	£32.00			
680 ELX Disco	£54.00	£39.00			

Exchange any MC ***

Only 50P stylus types allocated

*** Tel (01757) 209652

All items made in the UK wherever possible

MANTRA AUDIO (HFW), 22 GARTH AVENUE, NORTH DUFFIELD, SELBY, NORTH YORKS YO8 7RP

Richard's Audio Visual

Stockists of

Arcam, Audio Innovations, Audioquest, Aura, Beyer, B&W, Bose, Celestion, Cyrus, Denon, Marantz, Mission, Moth, Musical Fidelity,



Heybrook, Nakamichi, Ortofon, Pioneer, Project, Rotel, Royd, Ruark, Sennheiser, Systemdek, Target, Thorens, Van den Hul & more!

Expert friendly service: Listening room

Pioneer Reference Point
4 Greyfriars, Bedford

Tel: 01234 365165

CD PLAYERS

PROS AUDIO DAC-1000 MKII

The DAC-1000 MkII has an interesting frequency response. There is a noticeable lift towards low frequencies which will give a full and powerful bass. Also associated with subjectively good results is the gentle treble roll off, which helps to remove some of the edge from CD. Through the midband though there is a ripple which causes a lift around 1kHz, which may push detail forwards, aiding projection, but this can only be confirmed with listening tests.

Distortion is reasonable at all levels, if unexceptional. At -30dB, a level picked to represent a typical music signal, you can see from the plot below that there are some lower order distortion harmonics, but also a curious 14th harmonic. At -60dB distortion is around 0.9%, which corresponds to a dynamic range of 104dB (EIAJ test).

The only other area worthy of mention is the very high output of 3.8V. In a comparative demonstration levels will have to be carefully matched, but this extra output makes the DAC-1000 MkII highly suitable for users of passive preamplifiers.

DB

TEST RESULTS

Frequency response	4Hz-21.1kHz	
Distortion (%)		
-6dB	0.005	0.006
-30dB	0.024	0.029
-60dB	0.88	0.92
-90dB	32.1	32.5
-90dB dithered	9.2	8.8
Separation (dB)	left	right
1kHz	101	103
20kHz	88	86
Noise	-114dB	
with emphasis	-114dB	
Dynamic range	104dB	
Output	3.8V	

DPA LITTLE BIT III

DPA's new Little Bit III has a flat and smooth frequency response. There is a gentle lift at frequency extremes which will give added bass power and a brightness or incision to the treble.

Distortion, as with all of DPA's discrete designs, was high at all levels. At -30dB, a level picked to represent a typical music signal, you can see from the plot below that distortion was high and wide ranging. The vertical scale actually had to be re-adjusted to get the tops of the harmonics in. However, as we have found exceptional sonic results with other DPA discrete designs, the Little Bit III shouldn't be discounted on its high distortion alone.

Noise is low enough to be inaudible, although only just, and channel separation narrower than normal, but again plenty wide enough for good stereo. Dynamic range is low at 96dB due to the high distortion at -60dB (EIAJ test). Output was healthy at 2.2V, just above the Philips standard. **DB**

Frequency response	4Hz-21.25kHz	
Distortion (%)		
-6dB	0.008	0.006
-30dB	0.076	0.097
-60dB	1.96	2.76
-90dB	55.3	75.6
-90dB dithered	49	63
Separation (dB)	left	right
1kHz	81.5	80.0
20kHz	68.5	67.8
Noise	-91dB	
with emphasis	-95dB	
Dynamic range	96dB	
Output	2.2V	

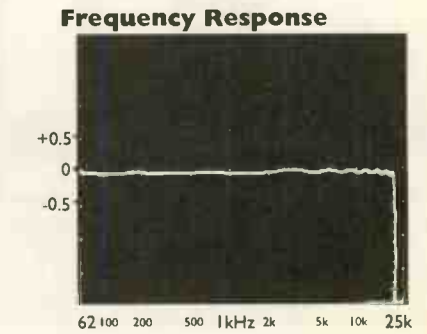
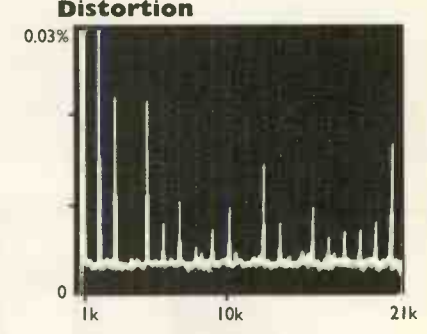
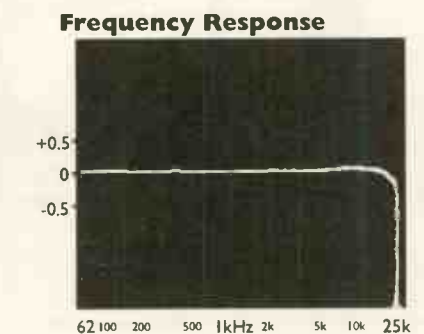
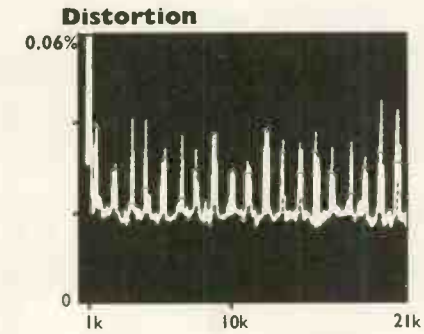
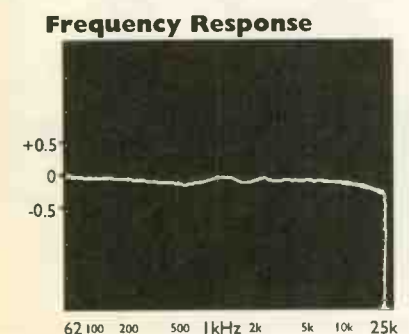
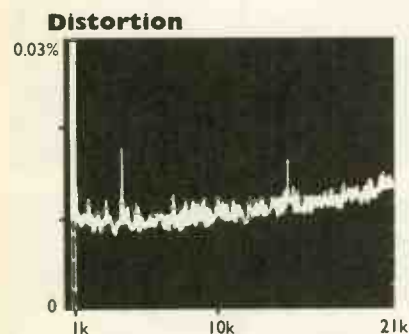
ORELLE CD100

The CD100 is Orelle's latest integrated player, and at just under £500 and British built, could prove successful. It is a well engineered player too, making it even more appealing. Frequency response is very flat, so I'd expect a neutral and clean sound.

Distortion was low and reasonably well mannered across the band. In our plot below, taken at -30dB - a level picked to represent a typical music signal - you can see quite a wide range of harmonics, but they are reasonably low apart from 2nd harmonic, which tends to be innocuous anyway. At -60dB distortion stays low, giving a wide dynamic range figure of 107dB (EIAJ test).

Elsewhere, the Orelle measures very well, with wide channel separation, very low noise and output spot on the Philips standard at 2V. The CD100 is well engineered with a good all-round performance. Orelle look set to leap into Arcam territory. **DB**

Frequency response	4Hz-21kHz	
Distortion (%)		
-6dB	0.008	0.008
-30dB	0.058	0.049
-60dB	0.55	0.55
-90dB	50.0	49.9
-90dB dithered	15.4	14.6
Separation (dB)	left	right
1kHz	112	110
20kHz	101	100
Noise	104dB	
with emphasis	107dB	
Dynamic range	107dB	
Output	2V	



Telephone:
Melton
Mowbray



(01664)
823282

Superb sound and style from:

**SUGDEN DENSEN UNISON
TUBE TECHNOLOGY**

**RUARK UKD OPERA
KESWICK AUDIO**

East Midlands M1 - J23/J24 - 20 mins. Leics/Notts - 15 mins.
Evening Weekend calls welcome. Demonstrations by appointment.

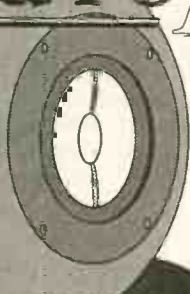
Audiophonics ¹⁹⁹⁵

3 Meldone Close, Surbiton,
Surrey KT5 9HQ, England.

Email: info@apnix.demon.co.uk

Tel ++(0)181 390 6480

'C' Series:
Phase Coherent
Point Source
Spheroidal
Loudspeakers
in Marble.



The 'C' loudspeakers have a clarity and detail normally only associated with electrostatics. The 200 mm dia. nonresonant enclosure is carved from a single stone block & specially shaped to minimise diffraction distortion. The 50 mm metal cone driver covers 100 Hz to 22 KHz.

Loudspeakers.

CA50. Sphere - 30W @ 8 ohms.
FBX150. Bass - 200W @ 4 ohms.
(Bass extension with a pair of 150 mm
metal cone drivers. Stone plinth and top.)

Please send this coupon for further details.

Name:

Address:

.....

.....

.....Post Code.....

Tel..... 9506

The Art of Sound Reproduction.



monostem audio support system



- stylish & elegant design
- full range of colours
- hides your cables
- wall mounted

tel or fax 0116 2433233 for colour brochure

ash design the coach house school lane houghton on the hill leicestershire le7 9gd

HORN LOUDSPEAKERS

Klipsch®

IMMORTAL

SOUND FORESIGHT

Hear KLIPSCH for yourself in: Avon 0934 520248/0272 686005. Bucks 0296 28790. Cheshire 0925 828900. Cornwall 0209 612260. Hants 0730 895194. Herts 0923 856497. Kent 0303 256860. London (W1) 071 486 8262. (NW3) 071 431 7423. (NW6) 071 794 7848. Middx 081 892 7613. N. Ireland 0232 403634. Northants 0604 37871. Notts/Lincs 0777 870372. Oxon 0865 247783. Scotland 0381 620655. Suffolk 0284 724337. Sussex 0903 872288. Wales 0978 364500/0745 343060. W. Mids 021 429 2811/455 0667/742 0254/354 2311, 0203 525200. Worcs 0384 444184. Yorks 0302 781387. UK Distributor 021 430 7817

LOUDSPEAKERS

MISSION 731LE

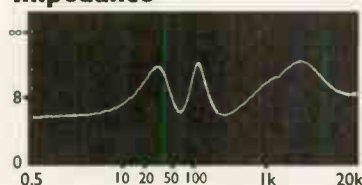
The 731LEs have quite a different response to the standard 731s, showing that quite some considerable work has gone into improving performance. Where the 731s were tuned high in the bass, to give a peak that adds punch and speed, the 731LEs are tuned smoother and deeper, which will give a more natural bottom end, although one that may be initially less impressive.

Up in the treble the 731LEs show a stronger crossover dip, the midrange curving off a couple of dB before the treble comes in. This will change their character quite considerably. The gently lifting response of the 731s through midrange and treble gives them a bright and open sound, but the 731LEs should have a slightly more refined and smoother balance by comparison.

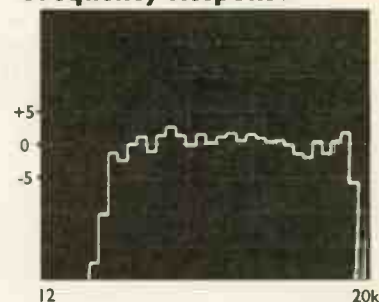
Mission's 731LEs have average sensitivity at 86dB and overall impedance measures

7.5Ω with dips in the impedance curve as low as 5Ω. This makes them a little more difficult to drive than the standard 731s; I'd recommend a good solid-state amplifier capable of 40watts or so for good volume in moderate size rooms. **DB**

Impedance



Frequency Response

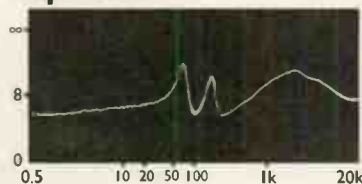


TECHNICS SB-M300

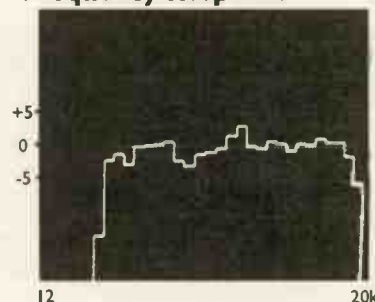
An interesting little 'speaker, the SB-M300s use four drivers in a three-way system; two bass units housed inside. The frequency response of the SB-M300s is essentially very smooth and even showing good engineering. There is a small peak at 1.25kHz which may add some projection and bass output falls gently suggesting the '300s rely on room reinforcement to even things out.

Overall impedance measured 7Ω, and sensitivity was a low 85dB at 1m for a nominal watt (2.83V) pink noise input. This, along with low impedance through the bass, means that the '300s will need a powerful amplifier for best results. I'd recommend an amplifier capable of producing at least 50watts. **DB**

Impedance



Frequency Response



KEF REFERENCE MODEL 3

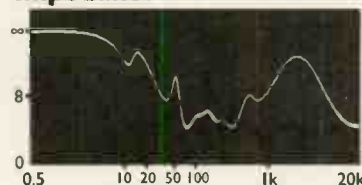
As you'd expect from one of KEF's top of the line loudspeakers, the Reference 3s have a very smooth and flat response through the midrange and treble. There is a slight plateau lift in the treble, but only by 0.5dB or so, enough to add insight and detail without becoming bright. In the bass there is a lift of around 3dB, which should ensure deep and powerful bass in large rooms.

Although the Reference 3s are sensitive, producing 90dB at 1m for a nominal watt (2.83V) pink noise signal, they are certainly not going to be an easy load for amplifiers to drive. The low overall impedance of 6.5Ω hints that they are going to draw more current than most, and the impedance curve looks like a cut away view of a Tour-de-France mountain stage. The steep slopes of the impedance curve indicate that the

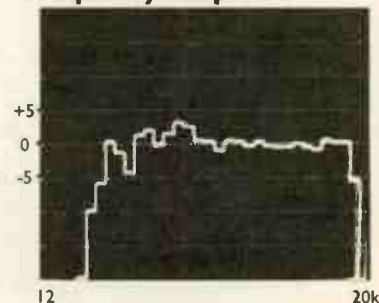
Reference 3s are a reactive load, and one that, from experience with other KEF Reference series loudspeakers, will prove difficult for many amplifiers.

Although well engineered in response terms, the KEF Reference 3s will need careful matching for best results. A powerful, solid-state amplifier capable of delivering good current into low impedance loads (4Ω) is recommended. **DB**

Impedance



Frequency Response



Sound Connections

• Mail Order Suppliers of Quality Hi-Fi Accessories •
• Tel/Fax: 0151 348 1988 •

FOR A WIDE RANGE OF AUDIO ACCESORIES:-
SPEAKER CABLES • INTERCONNECTS • HEADPHONES • CARTRIDGES • DACS
EQUIPMENT TABLES • ENHANCEMENT PRODUCTS • AUDIOCARE • RCA AND BANANA PLUGS

AGENCIES INCLUDE-

CHORD COMPANY • SONIC LINK • DNM RESON • AUDIO QUEST • QED • IXOS • VAN DEN HUL • HEYBROOK • SENNHEISER • BEYER • GRADO • ORTFON • SUMIKO • GOLDRING • TARGET • SOUNDSTYLE • KONTAK • IXOS DEADROCK • ALLSOP • DISCWASHER • WBT • MILTY

WE OFFER A HOME TRIAL SERVICE ON A SELECTED RANGE OF CABLES AND ACCESSORIES

PLEASE TELEPHONE OR FAX FOR A FULL RANGE AND PRICE LIST

Mon-Fri 9.30am to 8.00pm (Sat to 5.00pm)

• MOST MAJOR CREDIT CARDS ACCEPTED •

52, GREEN LANE, GREAT SUTTON, SOUTH WIRRAL, CHESHIRE, L66 4LE.

THE EMPORIUM

WE BUY AND SELL RECORDS, CDS, HI-FI.
28 St. Nicholas Street, Diss, Norfolk.
TEL (01379) 650744 FAX (01379) 641932
Open MON - SAT 11.00am - 5.30pm

WANTED

QUAD II SPARES, OUTPUT TRANSFORMERS ETC.
GARRARD 301/401 TURNTABLES
MICHELL PRISMA TURNTABLE £150 paid
QUAD FM4 TUNER £125 paid
PYE MOZART AMPLIFIER £150 paid
CROFT PREAMPS
SUGDEN STUFF
CHINESE 300B valves £25 paid
GOOD USED OSRAM/ GEC
KT 66 VALVES £15 each paid
LEAK TL10 amplifier £100 paid
ROGERS JUNIOR (EL84) £60 paid
ROGERS BABY (6v6) £50 paid
ROGERS LS 35A £200/pr paid
OLD HI-FI BOOKS, MAGAZINES, YEAR BOOKS, ETC.

for sale

GARRARD 301/401, LINN SONDEK, ROKSAN—
TURNTABLES £300
MERIDIAN COMPONENT PRE/POWER AMP £300
MUSIC FIDELITY P170 POWER AMP £200
65 watts p/c
CROFT MICRO AMP pre amp (black) £300
AUDIO INNOVATIONS L1 preamp £200
LEAK stereo troughline £100
REVOX B77 4 track reel to reel £500
REVOX mics £80
QUAD 66 pre-amps £500
QUAD 66 CD player £250

SEARCH SERVICE: IF YOU ARE LOOKING FOR ANY OLD OR UNUSUAL HI-FI WE WILL TRY AND FIND IT FOR YOU

LPs. YES WE ARE ALSO A USED RECORD SHOP come and browse if you don't mind moving some vintage junk out of the way. GRAHAM TRICKER buys all his records here.
LUXMAN PD300 Lee where are you?

SINGLE TANNOY LSU 15" monitor red loudspeaker any condition
SINGLE LOWTHER CORNER ACOUSTA
ANY OLD LOWTHER/VOIG/TANNOY speakers, even in homemade cabinets
LEAK STEREO 20 with blown mains transformer £100 paid if

M.E. AUDIO RESEARCH, CREEK, E.M.F, GRAHAM, QUAD, HEYBROOK, VOYD

HEATHERDALE AUDIO LTD.

202 Findon Road, Worthing, West Sussex. BN14 0RJ
Tel. 01903-872288 or 0860 660001 (after hours) Fax 01903-872234

<p>This section pre-owned bargains:</p> <p>Sanyo FM1 portable display tuner £395 Jude 80 watt stereo-blocks (vacuum) £495 Audio Research SP1 (pre-amp) (black) £275 Audio Research SP15 (pre-amp) (silver) £255 Audio Research SP10 (pre-amp) (the best) £395 Tannoy 14 pre-amp with model 9 PSU £145 Exposure 1V dual-regulated power amp £905 Stantial A3 full range electrostatics £395 Revox P980 pre. reel to reel with stand £395 Revox C279 mixing desk with expansion unit £175 Audio Research 2400 (power amp) (no demer) £150 Mitsubishi REC 2X cassette deck (pink) £295 Magnaplex 1000 2X cassette deck £245 Magnaplex MC 2C speakers £45 Magnum SH62 speakers (new) reduced to £165 Wills K2 DAC £750 Sony TRC DAC (their flagship model) £795 Toshiba cabinet DAC (ex demer) £575</p>	<p>Audio Innovations 800 MC transformer £120 Audio Innovations 1000 MC £250 Audio Innovations 1000 power amps (triple) £395 Audio Innovations 1000 pre-amp £365 Quad 4445 with 2 pre/power condensator £395 Quad FM 4 tuner £395 Diamond Acoustics Ref 2 speakers £395 Klipsch La Scala's £1495 Angeser Custom 8000 speakers £395 Meridian 105 stereo-blocks (111) pre-amp £350 Alec-Spencer passive pre-amp £395 Audiophile 070 (ex demer) full generator £395 Sanyo A21 class A 100watt amplifier £395 Cambridge 1500 tuner £145 Cambridge CDS CD player £275 Meridian Pro-MC3 CD player £250 Tannoy TD 204 7.5/15 (ex reel to reel) £350 Cassette turntable/stereocassette (German) £275 S&W KOC speakers (limited type) £145</p>
---	--

LUMLEY REFERENCE, KRELL, MAGNUM/DYNALAB

KLIPSCH, APOGEE, COPLAND, SONUS FABER, AUDIONOTE

EXPORT
ALUMINITE NO SALTER TUBE PRE-AMP (SEE REFERENCE) WITH £595 with full guarantee
AUDIONOTE AN SPECIALLY ADJUSTABLE SILVER MIRROR (see reference) (limited price £245) (normal for any £500 with full guarantee)
MAIN DEALERS: HILKILAD
VISA SWITCH MASTER CARD & DELIVER BY AIR (PART EXCHANGE ON NEW & 1 SHIP STOCK)

**WHY DO I ALWAYS NEED TO COMPROMISE?
AFFORDABLE HIGH END - IS IT TOO MUCH TO ASK?
IF YOU LOVE MUSIC - YOU DESERVE THE BEST CALL
TO ARRANGE TO HEAR THE ONLY AFFORDABLE
ALTERNATIVE**

"The Gamma is especially skilled at placing the listener in the position of a observer at alive event"
This amp has a raw vitality and realism that the others can't match. "(Hi-Fi News & RR Marsha)"
and the coo-dee-bee doo's in the background from Ray Brown gave a sense of reality which would have you believe the band was performing for just us!!"

"the technology may be rooted in the early years of this century,
but than some of the best inventions take time to mature."
"if you are into music the Gammas are worthy of serious consideration.
You may be more than a little surprised" (Hi-Fi Choice Oct. '94)

"The Gamma RHYTHM REF (aeon) is a welcome new comer to the single ended fold the design offers the sort of acoustics treasures that are usually the domain of far more expensive amplifiers, "Gamma is to be applauded for this exciting new product!" (Hi-Fi Choice Jan. '94)
Header - "Clean, neutral, articulate sound. A single ended bargain."

The Gamma Gemini is living(!) proof that size don't matter
this is one of those minimalist amp which must leave many high end solid state buffs wondering whether they really need those steroid pumped super amps.
"the Gemini is a peach. Switch it on leave it for a couple of minutes to settle down and (once run in) it will give a truly amazing sound. CD, radio broadcast tape can all sound stunning through this devise
the Gemini will charm the very best out of your music collection.
for £699 you'd be hard pressed to match this design for sheer sound quality and enjoyment (Hi-Fi Choice March '95)
the immediate effect of this new amp was warmth and funkiness.
"Suddenly it had soul" "I had a clearer idea of what they were feeling"

"the Gemini offers a small footprint with a difficult to beat price" (Hi-Fi News & RR Feb. '95)
There's a hugely endearing quality about the Gemini sound, "It has the most attractive price tag: £699 is small money for a decent valve amp, and decent the Gemini is."
(What Hi-Fi Feb. '95) **BUT DON'T TAKE THEIR WORD COME AND BE HAPPILY SURPRISED!**

Unsurpassed Valve for money Triode Single Ended Amplification
from £699.00 to £98,000.00

Tel. 017535 26939 Fax. 01753532262

DISTRIBUTOR/DEALER ENQUIRIES WELCOME
GAMMA ACOUSTICS IVY LODGE 81 SUSSEX PLACE
SLOUGH ROYAL BERKSHIRE SL1 1NN ENGLAND

GAMMA



SPACE REFERENCE 300B 18Watt. S. Ended Line Silver Integrated/Stereo Pw Amp £3999.00



ERA REFERENCE Silver Pre Amplifier £3999.00

LOUDSPEAKERS

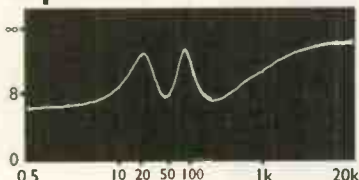
GOODMANS LOUDSPEAKERS LTD IC100

Using a 165mm ICT driver, the Goodmans IC100s need no crossover. The plot below shows a basically smooth frequency response; there are no serious peaks or troughs. But the lift in the upper bass will add warmth, maybe thickness, to the bottom end, and the rise through the lower treble will push detail forwards. In-between though, there is a wide, but shallow trough, which may restrict vocal projection. One other thing worth mentioning is the rolled off treble. Treble doesn't appear to extend all that far, starting to roll off at 13kHz or so and 3dB down at 16kHz. This may give a softer sound than most, but one that could be welcome with CD.

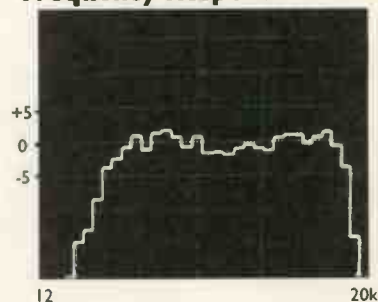
Sensitivity of the IC100s was an

average 86dB, measured at 1m using a nominal watt (2.83V) pink noise signal. Overall impedance was high though at 10Ω, so they will not demand heavy current to drive. I'd recommend a good solid state amplifier capable of producing at least 30watts for best results. **DB**

Impedance



Frequency Response



TUNER

PIONEER F-504RDS TUNER

Some slight plateau emphasis from 1kHz to 6kHz in the frequency response may make itself known as brightness in the sound, but a gentle roll-off at higher frequencies is likely to limit harshness and may even have a beneficial effect. All aspects of audio performance measured well, with hiss in particular being very low at -76dB, around 4dB better than usual.

Sensitivity was high, although to reach full quieting (minimum hiss) no less than 2.5mV is needed from the aerial. Interestingly, 2mV is the top limit of their 7-bar signal strength display, so the two appear linked, as they should be. Output measured 650mV, a healthy figure.

Alternate channel (0.4MHz) selectivity was as deep (better than 80dB) and symmetrical as expected from Pioneer. Switching to Narrow IF improved adjacent channel (0.2MHz) rejection from 18dB to 30dB, both excellent results.

The F-504RDS measured very well in all areas. Pioneer have paid much attention to detail. **NK**

TEST RESULTS

Frequency response

12Hz-15kHz

Stereo separation

44dB

Distortion (50% mod.)

0.08%

Hiss (CCIR)

-76dB

Signal for minimum hiss

2.5mV

Selectivity (at 0.4MHz)

80dB

Sensitivity

mono

2.5μV

stereo

22μV

signal strength meter

LED No.

1

2

3

4

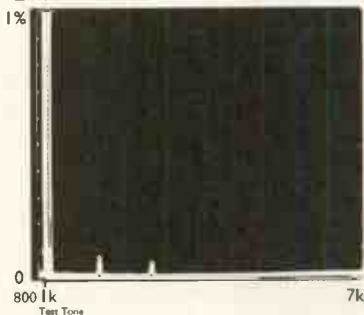
5

6

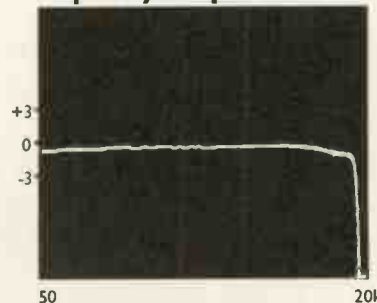
7

level (μV) 6 30 60 125 320 800 2k

Distortion



Frequency Response



spendor

DISTRIBUTOR CLEARANCE of new and ex-demonstration stock

Speaker System	£list	£sale
SP100, black	1,965.00	1,215.00
BC1/69 limited edition	1,245.00	770.00
SP1/2, teak	1,330.00	825.00
SP2/3, black & walnut	930.00	575.00
SP3/1, black	795.00	490.00
S20, walnut	703.00	395.00
LS3/5A, black & walnut	630.00	420.00
SP9/1, dark cherry	3,300.00	2,040.00

All prices include VAT and delivery/insurance (UK mainland). Full manufacturer's warranty Access & Visa accepted.



MICHAEL STEVENS
& PARTNERS LTD

Invicta Works, Elliott Road, Bromley, Kent BR2 9NT UK
Tel: 0181 460 7299 Fax: 0181 460 0499

WESTWOOD & MASON



Arcam, Aura, Celestion, Denon, KEF, Marantz, Mission, Naim, Nakamichi, Project, Quad, Rega, Rotel, Royd, Tannoy, TDL, Yamaha, Cord Co., Goldring, Grado, Klipsch, JPW, Infinity.

WESTWOOD & MASON (OXFORD) LTD
46 GEORGE ST
OXFORD

TEL OXFORD (01865) 247783
CLOSED THURSDAY

the AUDIO CONSULTANTS *dealers with a difference*

"The Analysis Omega was nothing less than a revelation. Extremely well balanced ... and an improbable ability to go loud without changing sound."

Alvin Gold, Hi Fi News, July 1995

"What was amazing was the speaker's ability to recreate the whole performance not just the sound, but also the excitement, the enjoyment and the music."

*Chris Beeching, Hi Fi News, February 1994
on Analysis Epsilons*

"The Omegas clearly stand out as exceptional value by any standards, especially those of high end audio ..."

Paul Messenger, Hi Fi Choice, November 1994

These speakers really swing an unusual description for panel speakers. Dynamically they were successful beyond the bounds normally accessible to electrostatics."

Peter J. Comeau, Hi Fi News, June 1995

Need we say more?

The Analysis Omegas and Epsilons permanently on demonstration. With exceptional front ends such as the Nottingham Analogue turntables and parallel tracking arms or the Parasound CDP 1000 CD player plus 1500 DAC, these speakers are a revelation.

The Art Audio Conductor and separate Phono stage are setting new standards for pre-amplifiers. Exceptional value and totally upgradable through the addition of separate power supplies at your leisure.

Ameson & Cooper, Analogue Tracer Cartridges, Analysis Ribbon Speakers, Art Audio, Audio Note, Cartridge Man's Grado, Concordant Audio, DPA, Groove Tubes, Kinshaw, Klipsch Speakers, Nottingham Analogue Turntables and Linear Tracking Arm, Parasound, The Vamp, Woodside Electronics

Demonstrations by
appointment only

0171 380 0866

Are you making the right connections?

Send for Britain's biggest catalogue of specialist cable and connections.

All available by mail order.

Phone 0181-9429124 or clip
the coupon for your Free copy.

**CUSTOM CABLE
SERVICE**

PO Box 4007, London SW17 8XG

Please send me your FREE Custom Cable Catalogue

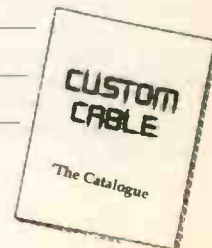
Name _____

Address _____

Postcode _____

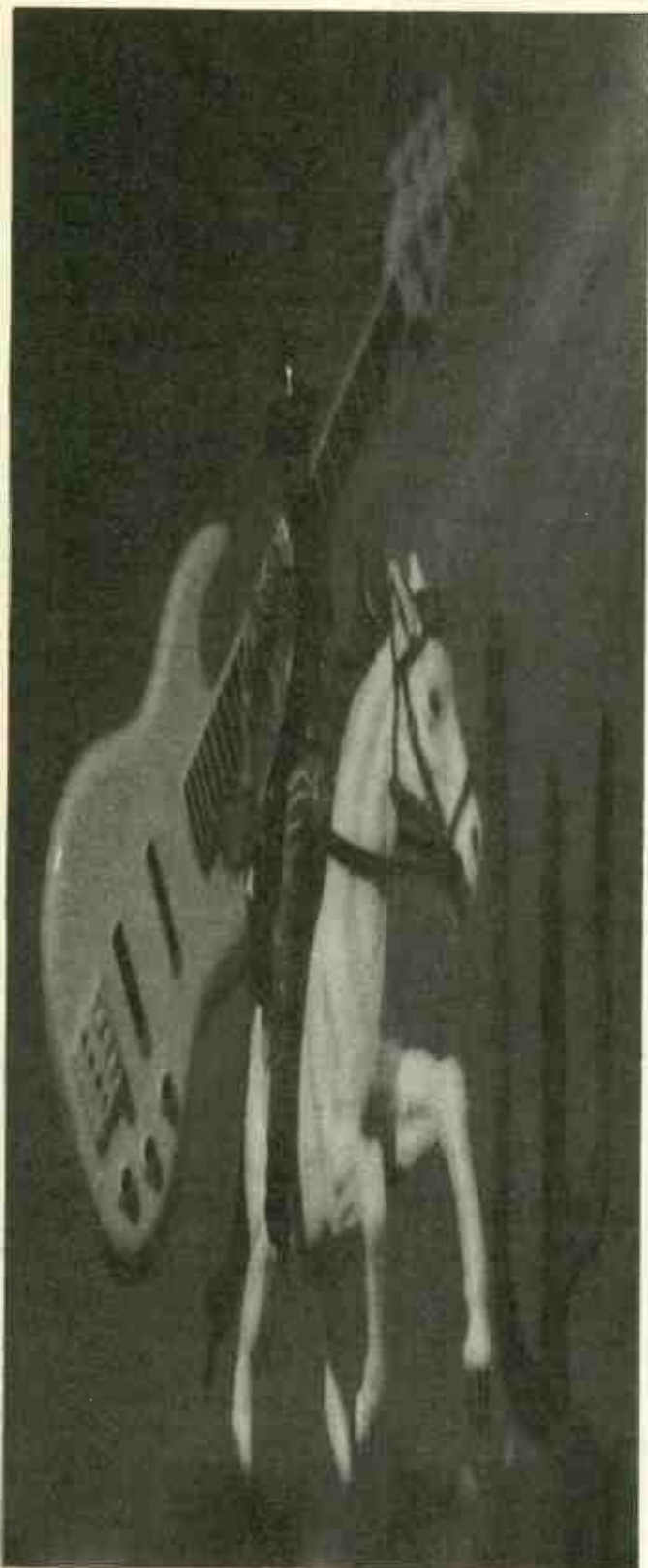
NO FURTHER INFORMATION REQUIRED

Send to: Custom Cable Service
PO Box 4007
London SW17 8XG



HF/W11/95

Vinyl Junkie Country



"unmissable 9/10" **VOX**

"a cracking compilation of on-the-edge country" **COUNTRY MUSIC INTERNATIONAL**

"it's good having something new to offer that once-beloved turntable" **MOJO**

"showcases the on-going relevance of music on vinyl" **NME**

"a standing ovation for this homage to the glory of black vinyl" **FOLK ROOTS**

"a wonderful collection" **MUSIC CITY TEXAS**

"let's hope this is the first of many ****" **Q**

"a welcome reminder of the days when album covers were designed to be seen, not slotted into a stupid plastic tray. Great contents too" **RECORD COLLECTOR**



"Vinyl Junkie Country" Limited Edition 25 track double LP
in a galloping gatefold sleeve - OUT NOW

Send cheque / P.O. for £12.50 (includes P&P) to :-
"Vinyl Junkie", 116 Percy Road, London, W12 9QB

Bf

Winners

Voted for by the press, the trade
and YOU the British public!

The British
Federation of
Audio Awards

Winners on this page
are available from the
quality retailers on
the map opposite



MISSION 731
Best
Loudspeaker
under £300

*A superb budget
loudspeaker
for under
£130*



MISSION 753

Winner
Loudspeaker over £300

*Another award
to add to the collection*

ARCAM XETA ONE

Best Home
Cinema Amp



Home cinema amp with a musical pedigree



CYRUS III Best amplifier over £300

*European Amplifier
of the Year '94/'95*



AUDIOLAB 8000T Best Tuner

*Why not use the cash you were
going to spend on a less expensive
tuner as the down payment for the best?*



**ARCAM
ALPHA 5 PLUS CD**

Best CD Player
under £500

*The best selling
UK made CD Player*



ALWAYS

Where to find your nearest stockist



- 1 HI-FI CORNER GLASGOW 0141 248 2840
- 2 JAMES KERR GLASGOW 0141 332 0988
- 3 HI-FI CORNER EDINBURGH 0131 220 1535
- 4 HI-FI CORNER EDINBURGH 0131 556 7901
- 5 HI-FI CORNER FALKIRK 01324 529011
- 6 HOLBURN HI-FI ABERDEEN 01224 585 713
- 7 CLONEY AUDIO BLACKROCK 01 288 8477
- 8 ASTON AUDIO ALDERLEY EDGE 01625 582704
- 9 ASTON AUDIO LEEDS 01943 467689
- 10 AUDIO T OXFORD 01865 65961
- 11 AUDIO T SWINDON 01793 538222
- 12 AUDIOT CHELTENHAM 01242 583960
- 13 AUDIO T ENFIELD 0181 367 3132
- 14 AUDIO T W. HAMPSTEAD 0171 794 7848
- 15 AUDIO T ILFORD 0181 518 0915
- 16 AUDIO T BASINGSTOKE 01256 24311
- 17 AUDIO DESIGNS E. GRINSTEAD 01342 314569
- 18 CREATIVE AUDIO SHREWSBURY 01743 241924
- 19 FRANK HARVEY HI-FI COVENTRY 01203 525200
- 20 HAMPSHIRE AUDIO SOUTHAMPTON 01703 252827
- 21 HI-FI EXPERIENCE LONDON W1 0171 580 3535
- 22 HI-FI EXPERIENCE DARLINGTON 01325 481418
- 23 LINTONE AUDIO GATESHEAD 0191 477 4167
- 24 LINTONE AUDIO GATESHEAD 0191 460 0999
- 25 LINTONE AUDIO NEWCASTLE-UPON-TYNE 0191 232 3994
- 26 MARTINS HI-FI NORWICH 01603 627010
- 27 MARTINS HI-FI KINGS LYNN 01553 761683
- 28 MUSIC MATTERS HI-FI EDGBASTON 0121 429 2811
- 29 MUSIC MATTERS HI-FI SOLIHULL 0121 742 0254

- 30 MUSIC MATTERS HI-FI STOURBRIDGE 01384 444 184
- 31 NORMAN AUDIO PRESTON 01772 253 057
- 32 NORMAN AUDIO BLACKPOOL 01253 295661
- 33 PJ HI-FI GUILDFORD 01483 504801
- 34 RADFORDS BRISTOL 0117 944 1010
- 35 RADFORDS WINDSOR 01753 856 931
- 36 RADFORDS EXETER 01392 218895
- 37 RADFORDS BATH 01225 446245
- 38 RADFORDS CARDIFF 01222 398121
- 39 RADFORDS TORQUAY 01803 326723
- 40 RADFORDS PLYMOUTH 01752 226011
- 41 RADFORDS OXFORD 01865 511241
- 42 RAYLEIGH HI-FI CHELMSFORD 01245 265245
- 43 RAYLEIGH HI-FI RAYLEIGH 01268 779762
- 44 RAYLEIGH HI-FI SOUTHEND-ON-SEA 01702 435255
- 45 THE AUDIOFILE BISHOPS STORTFORD 01279 506576
- 46 THE AUDIOFILE CAMBRIDGE 01223 368305
- 47 THE POWERPLANT BRIGHTON 01273 775978

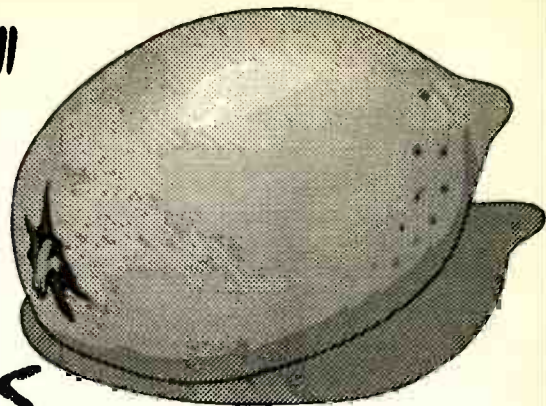


Credit facilities are variable.
Please ask for written details

For further information contact:

Mission Group, Huntingdon. PE18 6ED Tel: 01480 451777 Fax: 01480 432777
 Arcam, Denny Industrial Centre, Waterbeach, Cambridge. CB5 9PB. Tel: 01223 440964 Fax: 01223 863364
 Audiofile, Elmbridge Business Park, Huntingdon. PE18 6XY Tel: 01480 52521 Fax: 01480 52159

"WOW, THIS IS A REAL PEACH....!"



get serious

TRUST YOUR EARS



Branches at:

YEOVIL
110, Middle Street
Yeovil
Somerset
0935-79361

and:

BOURNEMOUTH
128, Poole Road
Westbourne
Bournemouth
01202-751522

CLOSED MONDAYS CLOSED MONDAYS CLOSED MONDAYS CLOSED MONDAYS CLOSED MONDAYS CLOSED MONDAYS CLOSED MONDAYS CLOSED MONDAYS CLOSED MONDAYS CLOSED MONDAYS

- Demonstrating Real HI-FI from -

*Naim Audio - Sugden - Arcam - AVI - Rega - Roksan - ATC - Rotel - Pink Triangle - TEAC - Audio
Alchemy - Mission - Heybrook - Marantz - Musical Fidelity - Epos - Shahinian - LYRA - Royd
Nakamichi - Denon - Aura - NAD - Pioneer - Kinshaw - Onix - Chord - Cable Talk*

Not all products stocked at both shops

INTEREST FREE CREDIT 0% INTEREST FREE CREDIT

The **Sound** Foundation

Equipment by: Sugden, ProAc, AudioNote, Michell, Pink Triangle, Audio Innovations, Castle, Trichord Research, The Chord Company, Custom Design, Firax.

DEMONSTRATION BY APPOINTMENT

0 1 5 6 3 5 7 4 1 8 5

22 Nelson St., Kilmarnock, Ayrshire, KA1 1BA
SCOTLAND'S PREMIER SPECIALIST HI-FI DEALER



**Get on our list -
to get closer to this list.**

- MIT MultiCap • Wonder Cap • Kimber Kap • Solo • Hovland MusiCap • Solen • Siemens
- Wima • Holco • Rel-Cap • Draloric • IRC • Allen-Bradley • Jensen • Resista • Vishay • Mills
- Caddock • Matsushita • TKD • Noble • Cardas • Kimber Kable • van den Hul • Discovery
- Audioquest • MIT • Alps • Bourns • Shalco • Elma • Electros witch • Nichicon • Gold Aero
- RAM • Mallory • Panasonic HFQ • Nichicon • Elna • N.O.S. • Ruby Tubes • UltraAnalog
- Burr-Brown • Crystal • Linear Technology • Analog Devices • Edison Price • Motorola • UCC
- International Rectifier • Hitachi • MagneQuest • Sonic Frontiers • Pearl • Tube Sockets
- WBT • Neutrik • Sound Coat • Curcio Audio Engineering • Assemblage and other kits

And it's growing and growing. To order The Parts Connection 1995 Catalog & Resource Guide, send £7 and mailing information. You'll also receive a Discount Coupon worth \$10 off a purchase over \$100 or \$25 off a purchase over \$250* as well as *The Breadboard* bulletin to keep you updated on our latest news, information and growth spurts.

*or \$10 US. or credit card information
catalogue discounts are in US Dollars

THE PARTS CONNECTION

A DIVISION OF BONE FRONTIERS INC

2790 Brighton Road, Oakville
Ontario, Canada L6H 5T4

Toll Free Order Line **1-800-769-0747**
(U.S. & Canada only)

Tel (905) 829-5858 Fax (905) 829-5388



TRANSLUCENT



**99.99%
Pure Silver
Interconnects**

**ALL CABLES ARE DOUBLE SCREENED,
PSEUDO BALANCED AND SILVER SOLDERED
USING QUALITY GOLD PLATED PLUGS**

Translucent:
Smart grey braid finish 58pf/metre
Half metre **£59.99 (pr)**
One metre **£79.99 (pr)**

Translucent +
Smart grey braid finish, double
silver content 64pf/metre
Half metre **£79.99 (pr)**
One metre **£109.99 (pr)**

Translucent Crystalline
Smart black braid finish, double
silver content, PTFE insulated
74pf/metre
Half metre **£109.99 (pr)**
One metre **£149.99 (pr)**

Please add £3.50 p & p per order
and allow 10 days for delivery.

CLASSIQUE SOUNDS

Classique House, 61 Aylestone Drive, Aylestone, Leicester LE2 8QE
Telephone: 0116 283 5821 or 0802 213740 (mobile)

WOMEN

who hate Hi-Fi, CDs,
LPs etc LOVE Ian's Furniture



This unit holds 1120 CDs
£1892 Georgian Style

Why not make her happy?

Send for his Brochure (3 - 2nd class stamps please)
to: Ian Edwards, The Old Chapel, 282 Skipton Rd,
Harrogate, HE1 3HP
Tel: 01423 500442

TECHNICAL & GENERAL

Some Necessities - From the Original Classic Turntable Specialists

		P&P	
Connoisseur	BD1/2 Drive Belt	9.85	1.85
	BD1/2 Motor Suspension kit	13.75	2.25
	SAU.2 Headshell	16.75	2.55
	SAU.2 Connecting lead	15.95	3.55
	Standard Models		
Garrard	Wired arm tubes	from 12.75	2.55
	Cartridge carriers (sliders)	9.25	1.85
	Idler Wheels	9.85	2.25
	301/401 Transcription Models		
	Original Thrust pad assembly	9.80	2.25
	Original Idler tension spring	2.95	1.85
	Original Speed control disc - 401	13.75	2.20
	Xeroxcopy Owners Manual 301 incl. full size mounting template	7.35	1.85
	Xeroxcopy Owners Manual 401 incl. full size mounting template	5.20	1.85
	Replacement Intermediate drive wheel	19.95	2.85
	Replacement 301 control knobs On-Off/Speed select	pair 20.25	2.55
	Replacement 301 suppressor unit	5.65	2.25
	Replacement 301 motor pulley (-2%), (-1%), (Std), (+1%)	each 12.65	2.25
	Replacement 301 Chrome plated mounting bolts	set 3.70	1.85
	Recommended Lubrication set - early 301 or 301/401 (specify)	5.20	1.85
Goldring/Lenco	Idler wheel (lock-nut or clip fixing)	19.95	2.85
	Arm Pivot bearings with instructions	7.85	1.85
	Spindle/Main bearing assembly complete	22.85	3.85
	Headshells	from 21.95	2.55
	Instruction books	from 4.20	1.85
Thorens	TD.124 series		
	Idler wheel	19.95	2.85
	Drive belt	9.85	1.85
	Chassis spring suspension (replaces 'mushrooms')	13.85	2.55
	150/160 series		
Drive belt	9.85	1.85	
Suspension springs (-1%) (Std),(+1%)	set 10.85	2.55	
Suspension bushes	set 12.50	2.25	
Armboards for most models	from 16.90	2.55	

Cecil Watts Dustbugs/Parastats/ (spares incl. Preener wicks)
Cartridges and styli for 78s & Mono LPs in addition to current Stereo LP

TECHNICAL & GENERAL PO Box 53. Crowborough,
E.Sussex. TN6 2BY Tel:- 01892 654534

AUDIO ARTS

HI-FI CONSULTANTS

BEST SOUNDS AT THE SHOW



VPI TNT 3 with the
stunning Rockport
arm



Also the McCormack
CD drive 1. an

audiophile bargain at only £1495

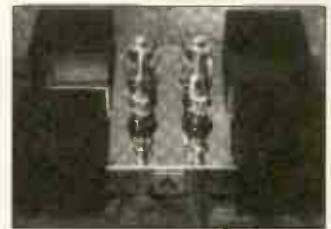
Also offering some great sounds was the McCormack 0.5 power
amplifier at only £1295

Audio Physic Virgos driven by the Adyton Opera were also one of
the top sounds at the show.

Mains cable and
strings were supplied
by ART Cables.

VALVES

The Audio Note room
had some new
products on show,
one of which was the



Quest, a new 300B single ended design.

The Arion room also had a new 300B valve amp called Nemesis,
and at only £2995 looked and sounded like great value.

On the subject of valves, the mighty Baron made it's first UK
appearance from Mesa Engineering and is an absolute delight for
audiophiles.

Also on show were the Electrocompaniet and their new speakers
which were making some great sounds.

**FOR MORE INFORMATION ON THESE SUPERB
PRODUCTS PLEASE DON'T HESITATE TO CALL**

TEL/FAX: 01784 - 461406

AMADEUS


**Audio Innovations,
Aura,
Bang & Olufsen,
Castle Acoustics,
Marantz,
Musical Fidelity,
NAD, Pioneer,
Quad, Technics**

SOUND & VISION
10 BOLDMERE ROAD
SUTTON GOLDFIELD, WEST MIDLANDS
Tel: 0121 - 354 2311

USED STOCK CLEARANCE

	WAS	NOW
MICROMEGA STAGE 3 CD player	£900	£650
AUDIO INNOV'NS Classic 25 amp	£899	£550
REGA KYTE loudspeakers	£198	£160
LINN Kan MK1 loudspeakers (exc cond'n)		£175
REGA ELEX amplifier	£398	£350
AUDIONOTE DAC 1	£675	£399
AURA VA100 amplifier	£300	£199
AURA TU50 tuner	£300	£195
EXPOSURE 18 power amp	£795	£525
JECKLIN Float 2 headphones	£99	£65
KEF Reference 2 speakers	£1500	£1199
ROKSAN Xerxes/Tabriz	£1125	£625

The above is a selection of ex-demonstration and trade-in equipment we have currently. A full offers list is available on request. All equipment is guaranteed.

the powerplant 

66 Upper North Street Brighton BN1 3FL
Telephone: 01273 775978 Fax: 01273 748419

ATC, AVI, Audiolab, Arcam, Cyrus, Exposure, Micromega, Marantz, McIntosh, Proceed, Rega, Roksan, Stax and other quality equipment.

Mail order and Worldwide Export service available

o v e r t u r e

For a great performance

- ◆ Linn Products ◆ Arcam ◆ Naim Audio ◆
- ◆ Meridian ◆ Quad ◆
- ◆ Nakamichi ◆ Denon ◆
- ◆ Heybrook ◆ Mission ◆
- ◆ Yamaha ◆ NAD ◆
- ◆ Record cleaning service ◆
- ◆ Repairs ◆ Cables ◆
- ◆ Open 6 days ◆ 10.00 to 18.00 ◆ BADA ◆



Overture HiFi Specialists

3 Church Lane
BANBURY
OXON

(01295) 272158

M Midland
A Audio
X Exchange

181 Franche Road
Kidderminster
Worcs DY11 5AD

Telephone: 0421 605966
01562 822236

rega

As a newly appointed Dedicated Rega Dealer, we would like to inform everyone about the exciting product now available from the forerunner of British Analogue Technology.

The Rega Planar 9

What an absolutely fantastic looking and sounding product, built to the highest standards known in turntable engineering. The level of information coming off the vinyl is incredible for the price of £1598.00 including external power supply. The planar 9 incorporates the all new RB900 tone arm, and the next hardest material to diamond, compressed ceramic platter. Please call to arrange a demonstration, and hear for yourself.

Rega now also have a new remote control pre-amplifier called HAL, features include more inputs, also MM/MC phono stage. The Output Stage is run in semi-balanced mode.

There are two new Power amplifiers, the EXS and the EXON. The EXS is a stereo power amplifier rated at 70 w.p.c. and the EXON is a mono design rated at 125wpc. Finally, Rega now have a modular table system, which really looks a million dollars. Modules start at £30.....

We stock and sell REGA, ROKSAN, KEF, AURA, NAKAMICHI, NAD. For a different audio experience ring John Roberts on

01562 822236

Open 9.30 - 6.30 seven days a week.

AUDIO NOTE

The increase in interest in all things single-ended, especially the (mode non-feedback variety), is now so great that even the mainstream valve manufacturers are beginning to take notice, so if you are looking for a single-ended product because of the false prophet, who speaks of things he does not believe in, until it becomes financially expedient or downright necessary to have a single-ended amplifier in the program. So whether you are building a single-ended amplifier yourself, or looking to buy a manufactured single-ended product, please remember that it was **AUDIO NOTE**, who, in the face of the usual industry hype about continual "progress", brought this technology to the attention of press, public and general audio industry alike, not because it would lead a quick buck to the purse, but because we firmly believe that it is a superior way of amplifying any music signal, and therefore deserves to be resurrected as the preferred technology for anyone who want the genuine aesthetics and beauty of real music reproduced in their home.

Now that we stand on the boundary of this, the brave "new" world of 1920's circuitry, we note with interest the number of manufacturers who have manufactured valve amplifiers for many years, but who only now have "discovered" the value of the single-ended stage, and who in the past have been the strongest proponents of the high power "high quality" valve amplifier, watch them, as they now, for commercial gain embrace the world of high loudspeaker efficiency and single-ended triode amplification and then draw your own conclusions about their sincerity and competence in overall knowledge of the technology of **AUDIO NOTE** were first and remains the last word in sonic quality if you appreciate music properly reproduced.

To enhance your ability to design and manufacture your own special version of any of the single-ended circuits being discussed, whether old or new, we will continue to expand on what is already the most extensive range of ultra high quality components that the discerning "do-it-yourself" valve amplifier enthusiast can use to construct any single-ended or (shame on you!) push pull amplifier, whether triode or pentode. All of these parts are used in various models of the manufactured line of **AUDIO NOTE** amplifiers. These components include mostly specially made items like ceramic valve bases with either silver or gold plated pins, paper in oil aluminium foil signal capacitors, copper & silver foil signal capacitors, Black Gate graphite electrolytic capacitors, acid/corrosive-free silver solder, copper and silver wired audio output transformers, non-magnetic tantalum resistors, non-magnetic RCA and speaker terminals, valves and many other useful bits and pieces for upgrading old or constructing new valve amplifiers.

All prices are excluding UK Vat at 17.50%, which, if you live inside the EEC, UK Vat will be added to your purchase, after the addition of postage and packing costs.

We accept **VISA, Mastercard, Access, Diners, and Amex**. To pay this way, we will need your address, card no. with start and expiry dates, and you can also pay by bankers draft, Euro cheque or cheques drawn on a UK bank account. Please note that there is a minimum charge on credit card transactions of £20.00.

Delivery is normally about 14 days from receipt of cleared funds, but please allow up to 60 days for some items, if not stock at the time or order.

If any of you reading this have possession of any books which contain information relevant to the subject of Audio Design and which would be useful to share with others, please let us know either by fax or telephone, there is an award of £20.00 (payable in law or other bits, post-free) to anybody who sends us a book which contains useful information about valve amplifier design or theory.

CIRCUITS, VALVE DATA & BASIC TECHNICAL INFORMATION

If you would like some suggestions which to base a future project around, then we shall be happy to provide you with a circuit pack containing good circuits like **ONGAKU**, **KEGONAKASSAI**, **NEIRO**, **GAKU-DN** plus many other interesting amplifier circuits and the **MTTUBE** pre-amplifier, which is the best pre-amplifier circuit we have come across. Just send a stamped self addressed A4 size envelope, together with 5.00 pounds in small denomination UK stamps, or if you live outside the UK US\$ 15.00 in \$ bills will do, please do not send Bankers Drafts in US\$. International Response Coupons or International money orders, as they cost more to cash than their value.

We have a large number of requests for the circuits of the **AUDIO NOTE** UK-made amplifiers, like **OTO PHONE SE**, **MI PHONE**, **MEISHU**, **SORO** etc., and since we (unlike the majority of our talented competitors) do not have any secrets in this department, and are only too pleased to help extend the envelope of knowledge in this most maligned field, we shall be happy to send you any existing or prospective competitor, one or more circuit diagrams, they cost £5.00 each, or you can buy for example all phone-integrated amplifiers, for £30.00 (or \$50.00), or all Line-integrated amplifiers for £25.00, all pre-amplifiers for £20.00 (or \$35.00), or simply a complete circuit pack for £50.00, (\$80.00). All can be paid either by credit card, cash, bankers draft or cheque drawn on a UK bank, the cost includes postage.

We can also supply a set of data sheets for the most commonly used valves, ECC82, ECC88/622, 12AX7/6072A, 7025/12AX7W/E/C/C83, 6SN7, 211Y/74C, 6AS, EL34/CAT, 2A3, 6X4, 5U4, GZ34/SARA, EL84/B05, 6V6/6T, 6BE6, 6BE7, 6BE8/6CG/6CG2. Again send a stamped self addressed A4 envelope together with £4.00 in small denomination stamps or if outside the UK another US\$ 15.00 will suffice.

Since nothing really exists which gives a reasonable background to the subject of valve amplifier circuit design, Guy Adams and I have written and assembled a number of articles and extracts from old books which give some background to the subject, do not expect to become an instant expert, but it will serve as a useful reference, for the beginner as well as the more advanced, we have expanded this info-pack to include even more useful information, so if you have already bought the old pack, just send £2.00 or US\$ 5.00. For the full pack a small charge is required, this time £7.00, in small denomination stamps with a stamped self addressed envelope, or outside the UK, an order for US\$ 25.00.

We accept UK cheques or bankers draft in Pound Sterling for the above charges as well, just convert the US\$ amounts to Sterling at 1:17 to the Pound, after you have rounded up to nearest £ 5.00.

SOUND PRACTICES

If you are seriously interested in the subject of valve amplifier design, without the usual preconceived notions of what is "good" amplifier design and technology (the traditional view, which has brought us the blessings of the transistor amplifier, has obviously disqualified itself out of monumentally), then **SOUND PRACTICES** is the magazine to read, here you will find articles about design parameters, DIY articles for amplifiers and speakers, reviews of new and old, in other words, the very subjects that none of the self-serving, advertising led traditional press will touch as they do not enhance the business of their normal advertisers. You can buy **SOUND PRACTICES** from us at £5.00 per copy (there are currently 5 issues available) or by subscription from **SOUND PRACTICES** P.O. Box 180662, Austin, TX 78718, USA. A regular modern world bargain, and there are practically none of those in Audio today. With enough subscription support **SOUND PRACTICES** may just bring about the "sound practices" that the hi-fi industry has abandoned for so long. So get a subscription!

By the time you read this **SOUND PRACTICES** issue B should be HERE, so this should keep you off the street for the next weekend! Buy a copy for £5.00 + postage (or self addressed envelope with order if you live in the UK), contains the following articles, blue Thunder - DIY TAD and Focal Horn System from Zurich, The Voltair-Loyt Legacy, join the Club, Loudspeaker Clubs by Joe Roberts, The Reichert 3000 Amplifier, by none other than Herb Reichert!, Homebrew Gallery, Photos of Readers Projects and Systems, Rejuvenating Old Trodes, New Russian Trodes, A Screen Drive Motor Stage, A Cathode Follower/Bridge Amplifier, and much more!

Much good and informative reading as usual, again £5.00 + an A4 size, stamped self addressed envelope if you live in the UK or US\$ 10.00 and a self addressed envelope if you live abroad.

POSITIVE FEEDBACK

This is one type of feedback that we are not entirely against! Positive Feedback is the club magazine for the Oregon Tode Society with aspirations towards greatness, not unlike the great underground

magazines of the 1970's. It is a quarterly publication of readers, controversial commentary, by in-house writers, members, as well as various industry doyens on the subjects of music, audio, technology and the quest for musical satisfaction. For one, think it is an excellent read and provides a good alternative view to most of the established press, which tends to view the world in the context of what new products is available right now, without giving much perspective backwards. Positive Feedback latest issue is just off the press and is available at £6.00 per issue.

COMPLETE KITS

At the current moment the following kits are under development, and should be available during 1994. The sequence of introduction may be different from the number, we have the **KIT THREE** available for shipment now.

Kit	Details	Price
KIT TWO	6500 single-ended, 15 watts Class A, with a stereo chassis, expected cost £590.00 incl. Vat. Delivery available due to unavailability of Savelle 6500VA, we can offer the same values for £570.00.	
KIT THREE	3008 parallel single-ended, mono chassis, 15-17 Watts Class A, cost £1,450.00 incl. Vat.	
KIT FOUR	6V6 push pull, 10 Watts Class A, stereo chassis, expected cost £1390.00 incl. Vat, delivery July 1995	
KIT FIVE	211 single-ended, 15 watts Class A, mono chassis, expected cost £2,250.00 incl. Vat, delivery Oct/Nov 1995. We hope	
KIT SIX	3008 single-ended, 7/8 Watts Class A, stereo chassis, expected cost £699.00 including valves and Vat. This will be our "entrypoint" or "gateway" to single-ended triode tubes in excess of 1000 per year. Expected available June 1995.	

If you are in doubt as to whether a kit project is suitable for you, we suggest you spend £10.00 on buying the instructions for the **KIT ONE** single 300B amplifier, this will give you a good idea whether a kit project is for you, if you decide to buy a kit then the £10.00 will be refunded against the cost of the kit. As the other kits become available their instruction manuals will also be available at £10.00 each. We have the **KIT ONE** instructions available in English and Italian.

AUDIO NOTE OUTPUT TRANSFORMERS

We are in the process of building up four separate ranges of Audio Note output transformers, in order to offer the best possible outputs at different price points, they will fall into four categories,

- A) Economy range, where the (price/output) relationship is carefully calculated to ensure audio quality in a compact package. Initially we will only be offering 3 single-ended output transformers in this range, push-pull outputs are under development, do not expect to see any of this range in August 1995.
- B) Mid-price range, which are the audio transformers already on offer, we have made a couple of additions to this range, see the list below.
- C) High Quality range, this will be a range of double Core outputs for single-ended circuits, exclusively, no push-pull outputs will be offered unless demand requires it. Again 3 offerings initially.
- D) Super High Quality range, all other wired outputs of the best possible quality, when I say best possible, I do not mean to say that these silver soldered kits are as good as the audio output transformers hand-crafted by Audio Note in Japan. They won't, but then again they do carry the price tag either!

The quality criteria for group A are 20kHz to 20kHz -1 to -1.5dB, they are IEC coated with silicon steel laminations and are supplied with frames and solder tabs, which will allow good audio quality at the cost. The main cost saving being the use of a smaller core, specified to the exact power level required, rather than overspecifying by 50 to 100%, as we do on Group B, the winding quality and copper wire is the same.

Group B are typically 20kHz to 40kHz minus 1.5dB, IEC coated with high quality silicon steel laminations, wound with oxygen-free copper wire and supplied with either bell-ends or frames always with flying leads.

Group C are typically 12kHz to 70kHz, minus 1.5dB, step-wound double C-cores made from the best available silicon steel laminations, these outputs will compare more than favourably with the best available types from days gone by and from other current sources like Partridge, Tango, Tamura etc.

Group D use Audio Note silver wire, need I say more??

Specifications:

PP - Push-Pull, PPP - Parallel Push-Pull, SE - Single-ended, PSE - Single-ended Parallel. UL signifies 43% ultralinear taps, as a general rule we do not condone the use of UL-taps, as we consider these detrimental to sound quality. * Dynaco replacement.

All primary impedances are calculated for Class A operation, with the main consideration given to maximum dynamic power transfer ability and minimum distortion, rather than meaningless steady state sine- or squarewave conditions.

All our single-ended output transformers are air-gapped, and the minimum standing current allowed before saturation is shown in column 5.

All our output transformers are tested to insulation levels of minimum 30,000 volts, all 211945 types are insulated to 50kV flash, every transformer is tested to this level of insulation.

We generally overspecify our transformers by 50% power in Push-Pull (which means that a transformer stated as 25 watts will allow about 35-38 watt peaks), our single-ended outputs are generally over specified by 100%, which means that they will instantaneously allow peaks of double the given maximum power through undistorted, this is necessary due to the better clipping behaviour of the single-ended stage.

We do not ignore any further technical information on our output transformers, as we do not wish to take part in technical comparisons, our products are designed to criteria which are and will be understood once they are listened to!

In addition to the output transformers offered below, we offer a design service, where we can supply almost any requirement for wideband transformers, whether for microphones, moving coil cartridges, line input, phase splitter, interstages, driver or power output, we design and manufacture prototypes in-house, the cost for the paper design is £200.00, prototype cost is calculated on a per case basis. We can also produce production quantities.

Sizes are given as Width/Height/Depth, where depth is the depth of the coil and width is the length of the core.

AUDIO NOTE AUDIO QUALITY OUTPUT TRANSFORMERS

Group	Single-ended Outputs	Max	Prim Sec Imp.	Size/Weight	Max Current	Price Ex UK Vat	
Group A	3008/2A3/6AR4	15 watts	2K5 - 4/0 Ohms	80x61x60mm	90mA PSE	44.50	
	8Y/4V6/2A3	20 watts	6K - 4/0 Ohms	100x64	100mA SE	75.50	
	3008/2A3/6AR4	20 watts	1K25 - 4/0 Ohms	150x64	150mA PSE	84.50	
Group B	EL84/6AR4	20 watts	2K5 - 4/0 Ohms	117x98x100mm	110mA PSE	97.00	
	3008/2A3/6AR4	25 watts	7K5 - 4/0 Ohms	117x98x100mm	90mA SE	81.00	
	EL34/6AR4	30 watts	1K5 - 4/0 Ohms	115x98x100mm	100mA PSE	113.00	
	2A3/6AR4	30 watts	1K25 - 4/0 Ohms	96x20x95mm	100mA PSE	112.00	
	58R1/1T6	30 watts	2K1 - 4/0 Ohms	115x98x100mm	140mA PSE	116.00	
	211Y/74C	30 watts	10K - 4/0 Ohms	117x98x100mm	150mA SE	114.00	
	211Y/74C/AS	50 watts	10K - 4/0 Ohms	112x134x100mm	150mA SE	120.00	
	300B	50 watts	1K25 - 4/0 Ohms	150x151x125mm	160mA PSE	151.00	
NEW SE Product	6550A/7B	60 watts	2K3 - 4/0 Ohms	110x64	110mA PSE	123.00	
	Group B	EL84/6AR4	15 watts	6K - 4/0 Ohms	80x61x60mm	PP	42.00
		EL34/6V5/58R1	25 watts	6K - 4/0 Ohms	89x73x80mm	PP	59.00
		2A3/6AR4/200B	30 watts	3K - 4/0 Ohms	89x73x80mm	PP	63.00
		KT88/650	50 watts	9K - 4/0 Ohms	106x91x90mm	PP	81.00
		2A3/6V5/58R1	50 watts	2K5 - 4/0 Ohms	115x98x100mm	PP	112.00
		6L6	50 watts	6K - 4/0 Ohms	108x91x90mm	PP	114.00
		KT88/650	50 watts	4K3 - 4/0 Ohms	125x103x113mm	UL PP	111.00
KT88/650		100 watts	2K2 - 4/0 Ohms	150x147x118mm	UL P/P/P/P	134.00	

Group C	Single-ended only	25 watts	2K5 - 4/0 Ohms	90mA SE	360.00	
3008/2A3/6AR4	25 watts	2K5 - 4/0 Ohms	117x98x100mm	90mA SE	360.00	
211Y/74C/AS	50 watts	10K - 4/0 Ohms	165x148x140mm	150mA SE	410.00	
300B	50 watts	1K25 - 4/0 Ohms	165 x 115x 130mm	180mA PSE	396.00	
Group D	211Y/74C/AS	25 watts	2K5 - 4/0 Ohms	117x98x100mm	90mA SE	1,645.00
	3008/2A3/6AR4	25 watts	7K5 - 4/0 Ohms	112x134x100mm	150mA SE	1,975.00
	211Y/74C/AS	50 watts	10K - 4/0 Ohms	165x148x140mm	150mA SE	1,975.00
	The AUDIO NOTE silver wired outputs listed here are designed and made in the UK, we can supply the AUDIO NOTE Japan manufactured outputs for the ONGAKU , KAGUKI , GAKU-DN and the KEGON , but they are exceptionally expensive, as you would expect from items that take upwards from 100 hours each to make. For example an output transformer for an ONGAKU costs £135.00.00.					
	AUDIO NOTE CHOICES & INDICATORS	Value	Size	Price Ex UK Vat		
	2.5V400MA			18.00		
	3A1/90MA			24.00		
	3A2/50MA by ONGAKU/GUKI			21.00		
	5Y/150MA			31.00		
	5Y/400MA			31.00		
10Y/250MA	63x74x70mm		26.00			
10Y/200MA	38x65x63mm		23.00			
20Y/50MA	38x65x63mm		34.00			

Other values can be supplied to order, ask for quote

AUDIO NOTE MAINS TRANSFORMERS

This range relates to our finished products, mains transformers of this category often fits to offer as the number of permutations of HT and Heater voltages are almost endless. We have added main transformers for making replicas of the **KASSAI** and **ONGAKU**, as there has been considerable call for these, likewise we are preparing main transformers for the **WESI** described in Sound Practices Issue 1, we shall continue to expand the range as opportunities and our experience with your requirements improve.

Primary Voltages	Secondary HT Windings	Secondary Heater Windings	Price Ex. UK Vat
0V-220V to 350V	0V-12.0V at 1 Amp	3.15V-0.3V at 4 Amp	34.00
0V/220V/220V/24V	1.5V-0.3V at 4 Amp		
120V/110V/100V/0V	0V-20V at 4 Amp	0V-12.0V at 1 A	41.00
0V/200V/110V/120V	1.5V-0.3V at 4 Amp		
120V/110V/100V/0V	300V-0V 300V at 60MA	12.0V-0V at 1A	46.00
100V/110V/120V	6.3V-0V at 50MA		
		For MTTube Preamp with SDR choke input filter	
0V/100V/110V/120V	0V-20V at 40MA	12.0V-0V at 1.5A	26.00
0V/100V/110V/120V	0V-3.0V at 300MA		
0V/100V/110V/120V	210V-240V-220V-210V	3.15V-0.3V at 4.0 Amp	72.50
0V/100V/110V/120V	320MA	12.0V at 1.5 Amp	
120V/110V/100V/0V	0V-20V at 40MA	0V-12.0V at 1.5V-0.3V at 4.0 Amp	98.00
120V/110V/100V/0V	150V-150V at 50MA	1.5A, 0V-2V at 2A	
120V/110V/100V/0V	300V-0V 300V at 200MA	3.15V-0.3V at 1.2 Amp, 7V	87.70
120V/110V/100V/0V	170V at 50MA	1.5V-0.3V at 3A, 5V at 2A	
120V/110V/100V/0V	425V-0V 425V at 220MA	3.15V-0.3V at 2.5A	95.60/100V/110V/120V
	7.0V-0V at 2A, 7.0V-0V at 2A		
		For KIT ONE at 3A	199.62
MOHO channel	5.0V-0V at 3A		
	3.15V-0.3V at 750MA		
120V/110V/100V/0V	300V-0V 300V at 200MA	17.0V at 50MA, 7.0V-0V at 3A, 7.0V at 3A, 5V-0V at 2A	107.00
100V/110V/120V			
120V/110V/100V/0V	300V-0V 300V at 200MA	2A, 1.5V-0.3V at 1.25A	137.00
		3A, 1.5V-0.3V at 1.25A	
		5V-0V at 3A, 5V-0V at 3A	
		5V-0V at 3A, 5V-0V at 3A	
		6.3V-0.3V at 1.25A	

We also have a main transformer/choke kit for the **WESI** pre-amplifier as shown in Sound Practices, this combined with our single-ended output transformers with 3KOhm primary impedance, will give a fine replica of this classic amplifier, total cost £420.00 per set.

We now also have the facility to make any main transformer to your specification, as long as you order minimum 2 pcs, they can be supplied with solder tabs, flying leads, frames or bell-ends. Ask for quote.

On a more general note, it is important to understand the specialised nature of the design and manufacture of transformers for audio equipment, in most industrial applications the main criteria are cost, weight or longevity, an audio main transformer also has to have good regulation under load, must run cool, and generate no mechanical noise or vibration, produce no excessive stray magnetic fields etc., a pretty tall order, when one considers that the cost also has to be reasonable. So no matter where you order your mains transformer remember that it should conform to the above criteria, so specify this when you order. As a general rule we do not recommend top transformers, as all listening tests have shown these to sound less clear, than unpotted equivalents!

AUDIO NOTE PAPER IN OIL SIGNAL CAPACITORS

These handmade signal capacitors are sonically superior to any of the plastic or other paper types we have come across. If you have never experienced the difference that a really good paper/oil capacitor can make in a valve amplifier, then you really should try. Our specially made paper/oil caps have a life, colour, lack of harshness and evenness of dynamic behaviour across the frequency range, which is guaranteed to brighten up your day! Recommended as replacements in old and new valve amplifiers alike (and even in the old transistor amplifier), and essential for DIY projects. In line with environmental standards, all **AUDIO NOTE** paper in oil capacitors contain no toxic, biodegradable vegetable oil, the paper is a specially treated and impregnated by a method that enhances longevity and sound quality, to ensure optimum performance all the way. As you will see, we are slowly incorporating solid 99.99% pure silver leadouts on this range of paper in oil capacitors as well, in common with the copper and silver foil caps. There are several new values available, including the 2.2mf/50v type caps made for speaker crossovers and the 0.56mf/200v suitable for solid state amps, we have also added some new values suitable for RIAA equalisation networks, and the old feedback loop!

Value	DC Voltage	Size	Price Ex. UK Vat
2mf	50V	16x16mm	26.75
2mf	63V	22x45x27mm	33.65
2mf	100V	45x45x27mm	41.75
2mf	100V	56x70x27mm	45.95
1mf	100V	45x45x12mm	49.95
4mf	250V	70x70x12mm	76.75
10mf	100V	70x100x12mm	86.75
12mf	100V	70x100x12mm	109.95
15mf	100V	100x100x12mm	136.75
15mf	200V	100x100x20mm	159.75

Value	DC Voltage	Size	Price Ex. UK Vat	
2.2mf	50V	21mm	11.65	
0.1mf	200V	32x11mm	2.85	
0.56mf	200V	25x38mm	4.95	
0.001mf	400V silver leadouts		4.95	
0.002mf	400V silver leadouts		4.95	
0.005mf	400V silver leadouts		4.95	
0.01mf	400V silver leadouts		5.45	
0.02mf	400V silver leadouts		5.45	
0.04mf	400V silver leadouts		8.15	
0.08mf	400V silver leadouts		13.4mm	4.25
0.15mf	400V silver leadouts		33x41mm	4.75
0.22mf	400V silver leadouts		33x41mm	4.75
0.33mf	400V silver leadouts		34x66mm	6.65
0.1mf	400V silver leadouts		32x16mm	5.15
0.22mf	400V silver leadouts		35x19mm	5.85
0.33mf	400V silver leadouts		43x19mm	6.75
0.56mf	400V silver leadouts		43x19mm	12.65
1mf	400V silver leadouts		70x24mm	14.95
0.0001mf	630V	17x9mm	2.95	
0.0004mf	630V	20x9mm	2.95	
0.0008mf	630V	20x9mm	2.95	
0.0015mf	630V	21mm	2.95	
0.002mf	630V	21mm	2.95	
0.003mf	630V	21mm	2.95	
0.005mf	630V	21mm	2.95	
0.008mf	630V	21mm	2.95	
0.015mf	630V	21x11mm	3.45	
0.022mf	630V silver leadouts		3.45	
0.033mf	630V	20x11mm	3.75	
0.056mf	630V	20x11mm	3.75	
0.08mf	630V	33x15mm	4.25	
0.15mf	630V	33x16mm	4.25	
0.22mf				

Type	Value	Price Ex. UK Vat
Stereo Potentiometer	500kOhms	221.75
Stereo Potentiometer	20kOhms	237.75
2 Channel switch	6-way adjustable	36.75
4 Channel switch	6-way adjustable	124.75

AUDIO NOTE HIGH QUALITY CERAMIC VALVE BASES

All of our valve bases are of the highest possible quality, made from steatite and using the best metal parts from alloys which retain their spring tension around the valve pin for longer. They are recommended as upgrades to most old valve amplifiers and should be an essential part of any DIY project.

Type	Mounting	Pinout	Price Ex. UK Vat
4-pin USA for 300B/2A3/8H1	Chassis	Gold	6.25
4-pin USA for 300B/2A3/8H1A	Nickel	Nickel	7.25
4-pin USA WE type for 300B/2A3/8H1A	Chassis	Silver	14.75
4-pin USA 1/2-pin with bypass mounting	Chassis	Silver	48.95
4-pin 500 Ohm 4 pin 21WV1/4C/4S	Chassis with bypass	Shield/Chassis	158.95
5-pin USV for 6X4	Chassis	Gold	8.75
7-pin BT for 6X4, 6A2	PCB	Silver	8.15
7-pin BT for 6X4, 6A2	PCB	Gold	7.85
7-pin BT for 6X4, 6A2	Chassis from above	Silver	8.75
7-pin BT for 6X4, 6A2	Chassis from above	Gold	7.95
9-pin USV for E13A, 6BS6, 5U4G, GZ34, 8L6, etc.	Chassis	Silver	5.85
9-pin USV for E13A, 6BS6, 5U4H, GZ34, 8L6, etc.	Chassis	Gold	6.85
9-pin 89 for ECC83, ECC82, 5AR7, 6X50, etc.	PCB	Silver	3.95
9-pin 89 for ECC83, ECC82, 5AR7, 6X50, etc.	PCB	Gold	5.75
9-pin 89 for ECC83, ECC82, 5AR7, 6X50, etc.	Chassis from above	Silver	4.45
9-pin 89 for ECC83, ECC82, 5AR7, 6X50, etc.	Chassis from above	Gold	6.75
9-pin 89 for ECC83, ECC82, 5AR7, 6X50, etc.	Chassis from above	Silver	4.95
9-pin 89 for ECC83, ECC82, 5AR7, 6X50, etc.	Chassis from above	Gold	7.15

TOPCAPS

Type	Value	Price Ex. UK Vat
For 60V potentials etc.	Nickel	9.75

You may want to start your project with less overall cost, and for this purpose we can offer the following "industrial grade" ceramic valve bases.

Type	Mounting	Price Ex. UK Vat
4-pin for E13A, 6E5, 6X4, 6X50	Chassis with bracket	1.45
9-pin for ECC83, ECC82, 5AR7, 6X50	Chassis with shroud	1.85

AUDIO NOTE CERAMIC STAND-OFFS

In most hardwired valve power amplifiers it is frequently difficult to get the HT and heater leads properly suspended and separated, safely and neatly from the chassis, this especially applies when building amplifiers using the really high voltage directly heated triodes like 211, V1A-C, 845, 845, 300AT, DA100 etc. When planning design like this, it is important to incorporate suitable layout from the start and the AUDIO NOTE stand-offs should be more or less mandatory in that context. They are screw-in type with steatite insulator and either a wrap-around turned "head" on the single wire version or separated solder sockets on the multi-wire versions.

Type	Number	Height/Length	Mounting	Chassis	Finish/Finishless	Price Ex. UK Vat
AK-421	1	25.5mm	Wrap-around	Screw-in bolt	1.41	
AK-422	1	17mm	Wrap-around	Screw-in bolt	1.41	
AK-423	1	22.5mm	Solder stud	Screw-in	1.41	
AK-452	2	Adjustable, 17mm	Solder stud	Over ball screw-in	2.42	
AK-453	3	Adjustable, 24mm	Solder stud	Over ball screw-in	3.05	
AK-455	5	Adjustable, 32mm	Solder stud	Over ball screw-in	4.04	
AK-458	8	Adjustable, 38mm	Solder stud	Over ball screw-in	5.79	
AK-460	10	Adjustable, 72mm	Solder stud	Over ball screw-in	7.51	
AK-476	6	25mm/30mm	Solder stud	Solder stud	5.95	
AK-479	9	25mm/30mm	Solder stud	Screw-in bolts	7.53	

AUDIO NOTE SELECTED AUDIO VALVES

Our valves are selected from the best available sources and are tested to the same stringent standards that we apply in the production of our own amplifiers, they fall into two categories, standard production items and rare, mostly NOS (New Old Stock) valves which are no longer in production. We have compiled a special list of the NOS items, which is available against a stamped self-addressed envelope, if you live outside the UK, send US \$200. You should be aware that the valves on this list are NOT cheap, but we have stock of original GE, RCA and United Electronics 211, both standard versions and reinforced airforce type, 845 Westinghouse, VT25/101/V, VT62/801A, WE300B, STC4300A, Mullard GZ34/V137V7, TungSol 5U4G (best sounding 5U4G I have ever heard!), Chatham SR44WG and many others.

Standard Stock Name	Type	Price Ex. UK Vat
ECC83/12AX7/6X25	double triode	2.85
6BM6/6X4/6X5	double triode	1.95
6BE6/6X6/6X6A	double triode	2.45
6BD6/6X8/6X8A	double triode, all spec.	5.95
6BE7/6X7	double triode, UKI base	1.75
6BE7/6X7	double triode, USI base	2.85
6BE7/6X7	double triode, very powerful 6-pin	8.75
6E5/6X5	small power pentode	1.55
E13A/6X4/6X5A	small power pentode, all spec. version	2.45
6AV6/6X6	small power pentode	4.51
6BE5/6X5	medium power pentode	2.75
5894/6X5/6X5A	medium power triode	8.45
6CA7/6X4/6X5	power pentode	8.45
6BE6/6X6	power pentode	8.45
6BE7/6X7	power pentode	8.45
6AS7/6X8	strong regulator, indirectly heated triode	24.85
2A3 4-pin	directly heated small power triode	17.95
300B	directly heated power triode	250.01
VAC V130B	directly heated power triode	2.25
SU42	HT rectifier	1.25
5Y06T	HT-rectifier	2.25
5Y06T	HT-rectifier	2.25
6Z5M/6A4	HT-rectifier	0.75
GXA	HT-rectifier, very good for pre-amplifiers, 7-pin base	2.85
6C5	HT-rectifier, for pre-amplifiers & power amplifier triodes.	2.85

Please note, our 300B's are manufactured in China by Gold Dragon/Shuangbu, but are tested in-house under real working conditions to parameters somewhat more stringent than is otherwise done. No, they do not sound quite as good as original WE 300B or STC 4300A's, nor do they carry the same premium price, please consider the following, unless you have absolutely tons of money or you happen to have them in your attic, do not consider original 300B's, it is in most cases far better to invest the money in more permanent features of the amplifier project, like better output transformers, better signal caps or resistors on the line, valves wear out, better quality passive components last. A pair of original WE 300B's cost at least £1,200.00, on a good day, think in terms of an overall price compromise, you can get some fabulous sounding passives for the difference in cost between a pair of Chinese 300B's and the original WE's, and in many cases the improvement in sound quality is greater than the WE 300B's will contribute, AND the contribution to sound is permanent, consider that when you plan your project.

RESISTORS

We endeavour to stock the entire E12 range of all the different makes of resistors that we stock, except the very lowest ohmic values, which are extremely costly, as a rule we do not stock values below 10 Ohms or above 3MkOhms. While we always try to have every single E12 value in stock, this cannot be guaranteed, delivery, especially on the HiLozes and HiLo, is generally price compromise, you can get some fabulous sounding passives for the difference in cost between a pair of Chinese 300B's and the original WE's, and in many cases the improvement in sound quality is greater than the WE 300B's will contribute, AND the contribution to sound is permanent, consider that when you plan your project.

REYNOLDS

We offer three quality levels of resistor quality, all are 1%, starting with the Besslying metallum, which are slightly magnetic (as is the vast majority of other makes of metal film resistors), but nonetheless very good sounding, as used in all our UK-made amplifiers, up to and including quality level 3, the MEISHU/PP4, 300B no-feedback triode amplifiers.
Besslying 1 watt, 1% resistors up to 500kOhm, E.O.1.1, above 500kOhm E.O.1.3 each.

HOLCO

Better sound quality can be achieved with the H2, 1/2 watt, 1% non-magnetic resistors, which we regard as the best "industrial grade" metallum resistors available. They have one small drawback, as they are quite fragile, and require careful handling, do not bend the legs too close to the body, they may become noisy.
HOLCO resistors type 1/2 SPP-MF cost £3.06 each from 100 to 500, £3.59 each from 500 to 1000, £3.85 each from 2000 to 230000, £0.41 each from 231000 to 10M0hm, £1.02 each from 1M1 to 2M0, £1.24 each from 2M1 to 4M0, and £2.21 each from 4M1 to 5M0.

SHIMON TANTALUM FILM RESISTORS

This is definitely the best sounding resistors available, forger the VISHAY, which may be ok in high feedback transistor amplifiers, but in our opinion quite uncomplementary to the qualities of real Audio Amplification (i.e. directly heated triode amplifiers running feedback free in single-ended Class A), this is where you will need the tantalum film resistor for the best results.
The 1/2 watt Shinkoh tantalum resistors are non-magnetic and cost £2.55 each.

25mm values are available in 1 watt form Shinkoh at £4.00 each, for stock available.

AUDIO NOTE 1 WATT TANTALUM RESISTORS

Up to now the tantalum film resistors have been extremely difficult to get, however, after much persuasion and against a minimum quantity guarantee from Audio Note UK, the manufacturers have agreed to widen the range of 1/2 watt and reintroduce the 1 watt range which becomes an exclusive range for AUDIO NOTE, we consider this to be a major breakthrough, since without a reasonable range of values at the 1 watt rating it is pretty difficult to get the very best out of the best circuits. As with most handmade specialist items, which covers most of this list, delivery can be quite long on some values, so be prepared to wait if the value is not in stock.
The AUDIO NOTE 1 watt 1% tantalum resistor values are £3.70 each. We shall now be working on getting 2 and 3 Watt tantalum resistors made available as well, and who knows perhaps we will be able to build amplifiers in a year's time that have all tantalum resistors in its parts of the circuit.

AUDIO NOTE PRECISION CARBON FILM RESISTORS

In addition to the non-magnetic tantalum resistors, we are going to stock a range of precision popladed carbon film resistors, in many cases the carbon film resistor is preferable if you are building an amplifier based on an old circuit, like for example the WE91 or another circuit of similar vintage. We shall be stocking values suitable for projects like the WE91 in 1/2 and 1 watt values, these resistors are made especially for us by a major manufacturer.
They cost for the 1/2 watt £3.30 each 1 watt £ 4.85 each 2 watt £ 6.85 each.

HIGH VOLTAGE WIREWOUND RESISTORS

As a new item we shall start offering a range of 2 - 15 watt wirewound resistors, we shall be starting with a small range and expanding it as we go along, at the moment the following is available, all these resistors are 5% tolerance and glazed.

Wattage	Value	Tolerance	Price Ex. UK Vat
6 watt	47k	5%	0.88
6 watt	100k	5%	0.85
6 watt	100k	5%	0.88
6 watt	200k	5%	0.95
6 watt	15k	5%	1.32
6 watt	20k	5%	1.32
6 watt	100k	5%	1.24
6 watt	18k	5%	1.34
6 watt	18k	5%	1.24

More values will be added over the next 6 months, together with some non-inductive inductors.

BLACK GATE ELECTRON TRANSFER, HIGH PERFORMANCE, GRAPHITE FOLY CAPACITORS

Firstly, I would like to categorically state that any rumours about Black Gate capacitors being unavailable or discontinued are totally misguided, malicious and incorrect, AUDIO NOTE is currently the sole source in Europe that holds any significant range of values in stock, we use literally 1000's in production, as we were the first company to realise the tremendous benefits that Black Gate capacitors offer, and we are to date the only high-end audio company in the world to incorporate Black Gate capacitors consistently on our finished products.

There are very few audio parts that promise a guaranteed improvement when replaced with anything other than what, but this is what the BLACK GATE capacitors actually do. Exchanging any electrolytic capacitor anywhere in the circuit of an amplifier or in the crossover of a speaker will greatly improve sound quality. We are working on some guidelines audio where, how and which types of Black Gates to use in different circuits, the first such technical guideline is available now and is called "Improving your CD-Player" and can be obtained by sending a stamped addressed envelope to us requesting this leaflet. All AUDIO NOTE Level 2 Signature products use Black Gate Electron Transfer in critical signal/power supply junctions.

It is very important to note that ALL BLACK GATE capacitors take time to charge-up or stabilize, when first put in circuit, depending on type and application this "settling" time can be between 100 and 300 hours. Black Gate take this "aging process", see enclosed list of available values. We feel, however, that this process takes longer, ho hum! We are about to stock the entire range of values on the enclosed list, so a separate price list is attached to the list of Black Gate program available. Ask us to send you this list as it is too long for an advertisement or to incorporate in our standard component list, whereof it is not included in full. Again, as always, we appreciate a stamped self-addressed envelope, it greatly influences the expediency this end.

IMPORTANT NOTICE!

PLEASE NOTE, THE PRICE LIST FOR BLACK GATE CAPACITORS IS A GUIDELINE ONLY, DUE TO THE CONTINUOUS STRENGTHENING OF THE JAPANESE YEN, IT IS IMPOSSIBLE TO PRINT UP TO-DATE PRICES MONTHLY, SO ASK FOR PRICE WHEN YOU ORDER.

Value	Voltage	DG-Type	Suggested Use	Price Ex. UK Vat
330pf	25volt	PE	Anywhere	1.05
470pf	35volt	PE	Anywhere	1.75
6.8kpf	50volt	PE	Anywhere	1.05
10kpf	50volt	PE	Anywhere	1.12
2.2mf	50volt	PE	Acpr/CT1	1.32
1.5mf	50volt	PE	Anywhere	1.38
2.2mf	50volt	PE	Anywhere	1.88
10mf	50volt	PE	Anywhere	1.87
22mf	50volt	PE	Anywhere	2.28
22mf	18volt	Standard	Anywhere	2.82
47mf	18volt	Standard	Anywhere	2.42
33mf	18volt	Standard	Anywhere	6.88
10mf	50volt	Standard	Anywhere	2.87
47mf	50volt	Standard	Anywhere	4.41
100mf	18volt	Standard	Anywhere	4.73
100mf	50volt	Standard	Anywhere	5.47
22mf	100volt	Standard	Anywhere	18.41
10mf	100volt	Standard	Anywhere	3.71
22mf	100volt	Standard	Anywhere	6.31
47mf	100volt	Standard	Anywhere	8.54
100mf	100volt	Standard	Anywhere	7.75
22mf	100volt	Standard	Anywhere	8.22
100mf	50volt	Standard	Anywhere	24.59
22mf	50volt	Standard	Anywhere	4.36
47mf	100volt	Standard	Anywhere	6.35
220mf	100volt	Standard	Anywhere	13.45
10,000mf	80volt	Standard	PSU smoothing	234.85
470mf	50volt	Standard	Anywhere	14.25
47mf + 47mf	50volt - 55vdc	SE-Type	PSU filter capacitor	85.95
100mf + 100mf	50volt - 55vdc	SE-Type	PSU filter capacitor	191.95
100mf	50volt - 55vdc	SE-Type	PSU filter capacitor	72.75
220mf + 220mf	35volt - 40vdc	SE-Type	PSU filter capacitor	92.85
100mf + 100mf	35volt - 40vdc	SE-Type	PSU filter capacitor	75.35
22mf	50volt	SE-Type	Demodulator or filter capacitor	13.95
15mf	35volt	VE-Type	PSU filter capacitor	41.23
47mf	18volt	FE-Type	Ultra low ESR version, comparable to film caps	7.15
100mf	18volt	FE-Type	Ultra low ESR version	13.71

Value	Voltage	FE-Type	Price Ex. UK Vat	
220mf	18volt	comparable to film caps Ultra low ESR version	9.95	
100mf	25volt	FE-Type	As above	14.28
220mf	25volt	FE-Type	As above	21.43
100mf	50volt	FE-Type	As above	15.71
1000mf	50volt	FE-Type	As above still anywhere	58.71
2200mf	50volt	FE-Type	As above still anywhere	58.71
1000mf	100volt	FE-Type	As above still anywhere	101.43
2.2mf	50volt	C-Type	For circuits with DC potentials difference	2.87
4.7mf	50volt	C-Type	For circuits with DC potentials difference	3.35
6.8mf	50volt	Diode	For bistoppler crossover networks	12.85
10mf	50volt	Diode	As above	16.85
22mf	50volt	Diode	As above	23.95
47mf	50volt	Diode	As above	36.95
8.2mf	50volt	BC-N Type	For PSU decoupling	12.35
220mf	50volt	BC-N Type	For major noise PSUs	11.85
1000mf	10volt	BC-N Type	For major low noise PSUs	24.85
470mf	18volt	BC-N Type	As above	28.95
470mf	25volt	BC-N Type	As above	29.85
470mf	35volt	BC-N Type	As above	5.45
4.7mf	50volt	BC-N Type	As above	6.85
100mf	50volt	BC-N Type	As above	7.85
1000mf	50volt	BC-N Type	As above	13.75
1000mf	50volt	BC-N Type	As above	20.35
1000mf	50volt	BC-N Type	As above	88.95
220mf	100volt	BC-N Type	As above	42.35

In our component list you will find a listing of all available Black Gate valves, together their sizes, best usage etc.

Lastly, we can supply a range of more modestly priced components, still good quality, but more industrial grade, if you like.

Value	Construction	Price Ex. UK Vat
1000Ohm Stereo	Frame type, PCB mounted	1.95
1000Ohm Stereo	Encapsulated type, PCB mounted	15.85
A better alternative is the KD-ON volume controls which are used in pre-amplifiers like the MTube, MLTune, and in mono version on the input of the NEIRO, KASSAI, KECON and GAKU-ON, these are very good sounding pots by any standard.		
Impedance	Construction	Price Ex. UK Vat
10000Ohm Stereo	Encapsulated	32.25
10000Ohm Mono	Large Encapsulated	71.85
10000Ohm Stereo	Large Encapsulated, high quality	101.45
Balance Controls	Construction	Price Ex. UK Vat
10000Ohm	Frame type, PCB mounted	4.45
10000Ohm	Encapsulated type, PCB mounted	17.25
KD-ON also makes a very good quality 100kOhm balance control, similar to the encapsulated 100k pot, this costs £32.25		
Standard 10k Ohm Pot	Construction	Price Ex. UK Vat
2	Frame type, PCB mounted	4.45
2	Encapsulated type, PCB mounted	17.25
Again, KD-ON offers a very nice quality sealed switch, 6 way 2 channel at £90.65 each.		

POTENTIOMETERS

Best available from sound quality - price viewpoint, made by Noble in Japan, high quality conductive plastic film.

STANDARD ELECTROLYTIC CAPACITORS



For information on MANA products please contact:
 MANA ACOUSTICS, 59 Jubilee Close, Pinner, Middx. HA5 3TB. Tel/fax 081-429 0118

WANTED

**CUSTOMERS FOR
 SERIOUS SOUNDS**

AT
SENSIBLE PRICES

NORTHWOOD AUDIO

TELEGRAPH - 01296-28790

REWARDS DEAD or ALIVE

For the Ultimate Sound Experience

**98 CAMBRIDGE STREET
 AYLESBURY**

**K
 R
 O
 N
 O
 S**

A stunning range of valve amplifiers
 What Hi-Fi Elektra review
 "A superb valve amp"

CD at its very best... Transports, Players, DACS.
 Exceptional looks... Exceptional sound

Loudspeakers from £325 to £3750
 TE60 amp £649
 Extreme Neutrality Extreme Musicality TE60/Comete Tze "There aren't many systems which convey this much detail regardless of price"
 HFNRR 1994

AVAILABLE FROM

Practical Hi-Fi	Manchester & Branches
Signals	0161 839 8869
Sound Approach	Ipswich 01473 622886
	Norwich, Norfolk
	01603 622833
Zeus Audio	Belfast N. Ireland
	01232 322522
Progressive Audio	Rainham, Kent
	01634 389004



ARION



AUDIOMECA



TRIANGLE

Tel 01868 748632 Fax 01868 748281

RJF Audio Visual	Camborn, Cornwall
	01209 710777
MJS	Barnwell, Leicestershire
	01455 846977
Select Audio	Clapton, London
	0181 986 8788
Sound Academy	Walsall, West Midlands
	01922 493499
Kamla	Tottenham Court Road,
	London 0171 323 2747

CARY SINGLE-ENDED TRIODES

'The Sweetest Feeling'

Transcend into the dream of live music in your home with state-of-the-art amplifiers, CD players (HDCD/ Anti-jitter) and piano-black monolith speakers (bass-reflex) offering 91dB - enough sensitivity for any low powered amp at only £2295.



Exclusive UK Distributor



The Audiophile Club

EARMAX at only £375

The all valve OTL triode headphone amplifier, as acclaimed by Ken Kessler.

CARY SINGLE ENDED MAGIC - NOW IN KITS!

Manufactured by Cary Audio Design Subsidiary AES.
Beautifully designed, beautifully finished.

SE1 300B 7wpc STEREO AMP £749 (assembled £999)
excluding 300Bs, but with all other valves -exposed valve
design. Inclusive of CETRON 300B valves £999
(assembled £1299)

AE1 All valve line-stage pre-amp £549 (assembled £699)
exposed valve design - all valves included

SET II 20wpc Stereo Mosfet Zero-Feedback Single-ended amp
(40w mono) £749 (assembled £899)

AE2 Pre-amp with phono stage single-ended mosfet £449
(assembled £599)

Fun to build - providing hours of listening pleasure without fatigue.
After sales build service available. Order today direct from the
exclusive supplier:



P.O. Box 6477, London N13 4AY

Tel. 0181 - 882 2822 Fax: 0181 - 372 3772

vpi

"I have found the HW - 16.5
to be an outstanding
performer. The record
surfaces are microscopically
clean and are so pristine
they look new!"

Bert Whyte -
Audio Magazine.

Esoterica - *Distributors of Fine Audio Equipment.*

Call 0181 941 5152
24 Hour Fax 0181 941 5158

- * 35 second cleaning cycle (wash / dry) per side.
- * 18 RPM, high-torque turntable motor allows deep cleaning without strain.
- * No liquid touches the record label.
- * Machine fully enclosed - no splashing, no mess.
- * Powerful suction (vacuum) ensures quick, deep cleaning - removes old residue, prevents new residue build up.
- * Fail safe design. All components are extra heavy-duty grade.
- * Pristine, dry, static-free records are left after use.

"The Record Cleaning Machine!"



- * Built in water collection system (made in stainless steel)
- * Newly designed vacuum pickup tube assembly automatically adjusts to the thickness of any record.
- * Removes cleaning solution from the records surface all at once.

Esoterica are also distributors of; *Artemis, Audible Illusions, Bright Star, McCormack Audio, Mesa Engineering, Mobile Fidelity Sound Labs, Rockport, Trilog and VPI.*

FOR PEOPLE WITH EARS!

VALVE AMPLIFIER MODIFICATIONS THAT
MUSICALLY ENHANCE THE PERFORMANCE
CRITICAL PARTS ONLY OR FULL REBUILDS WITH
YOUR COMPONENT PREFERENCES

POWER SUPPLIES FOR VALVE AND SOLID STATE PRE-AMPS D.A.C.S.

THE ULTIMATE HI-CAP REPLACEMENT IS NOW AVAILABLE
TURNTABLE POWER SUPPLIES FOR LINN LP12, ORACLE E.T.C.

HAND MADE SILVER INTERCONNECTS, SPEAKER CABLES VALVE
AMPLIFIERS, VALVE OUTPUT STAGE FOR C.D.

PLAYERS AND DIGITAL TO ANALOGUE CONVERTERS

PHONE/FAX FOR INFORMATION

THE AUDIO ÉCLAT Tel: 01642 559543
Fax: 01642 535655

R. J. F.

AUDIO VISUAL

Your friendly Cornwall Audio
Specialist, we have the amazing
analysis speakers & parasound
amplification
"Simply A Must"

Also for sale

PR TDL Monitors	£875
Luxman/Fidelity Research	
AT OC-9 (mint)	£525
Newform RB-2 (Ex-demo)	£1100
Quad FM4	£215
Avondale Quad 44	£579
Roksan Pre Power (mint)	£995

CONTACT NIGEL OR RUSSELL FOR FURTHER
INFORMATION

RUSSELL J.FLETCHER
PENDARVES STREET, TUCKINGMILL,
CAMBORNE, CORNWALL TR14 8NJ
Tel: 01209 612260 Fax: 01209 711939

CLASSIQUE SOUNDS (LEICESTER) FOR SALE VINTAGE HI-FI SPECIALIST

TURNTABLES

GARRARD301 FROM £150.00
GARRARD 401 FROM £125.00
THORENS 124 FROM £200.00
THORENS TD1608/MAYWARE £150.00
THORENS TD280.COND £125.00

THORENS 150/SME/LORICRAFT £275.00
GARRARD 401/3012/SME PLINTH £375.00
GARRARD 401/BASTIN PLINTH £350.00
THORENS 160S/MISSION 774 £150.00
THORENS 125/SME2000/3009 £190.00

AMPLIFIERS

QUAD11s.CONCORDAUNT/MODE £450.00
LEAK STEREO 20s FROM £250.00
REGA ELEX INTEGRATED £225.00
SHIRLEY LABS INT.VALVE £99.00
AVANTIC SPAII.BOXED £165.00
NVA PRE/POWER AMPLIFIER £395.00
ARMSTRONG A48 MK1 BOXED £149.00
QUAD 606MK2.13 MONTHS OLD £499.00

LEAK STEREO 60 MINT £695.00
LEAK TL12+s.PAIR FROM £350.00
ARMSTRONG A6s+ PRE AMP £225.00
MUSICAL FIDELITY A1 3 £195.00
QUAD 33/303 £195.00
HEATHKIT MA12 PAIR.VALVE £125.00
SUGDEN A28.MINT £149.00
ROGERS CADET 3 £100.00
OTH/AEI VALVE MONOS.PAIR £295.00

PRE-AMPLIFIERS

QUAD 22 £50.00
LEAK VARIOSLOPE.STEREO £50.00

QUAD 606.13 MONTHS OLD £599.00
LEAK POINT 1.MONO £20.00
QUAD 33 £75.00

SPEAKERS

SPENDOR LS3/5A..BOXED £399.00
QUAD ELECTROSTATICS. BNZEE £495.00
WHARFEDALE HAREWOODS.BXD. £399.00

UKD CALLAS GOOD COND £399.00
TANNOY CHEVIOTS £225.00
80SE 305(430.00) £225.00

TUNERS

LEAK TROUGHLINE 2 £75.00
ROGERS MK3.VALVE + DECODER £99.00
RYE MOZART.MINT BOXED £100.00

LEAK TROUGHLINE 3.STEREO £130.00
QUAD FMI £40.00
RADFORD.MATHES SC22 £100.00

OTHER ITEMS

ARCAM DELTA70.MK1 D £195.00
SME 3012.EX CONDITION £175.00
SME 3009 TONEARM £60.00

DECA LONDON INT ARM.NEW £45.00
MAYWARE ARM.EX COND £50.00
PIONEER TU-D33X1 TUNER £45.00

STAR BUY *****ELECTROCOMPANET EC1-1 INTEGRATED AMPLIFIER. UNWANTED PRICE
3 MONTHS OLD. MINT CONDITION WITH ORIGINAL PACKAGING.SAVE £600. £1500.00

VINTAGE VALVE AMPLIFIER FULL REBUILDS

FROM £100.00 ADD £20.00 FOR SAME DAY SERVICE. APPT ONLY

WANTED

ALL CLASSIC VINTAGE / VALVE HI-FI EQUIPMENT. WORKING OR NOT.

EG.PRICES PAID:

QUAD11s £220. RADFORD STA15 £250.00. GARRARD 301 £75.00

THORENS 124 £100.00.

I WILL BEAT ANY GENUINE PRICE BY £5.00 AND PAY POSTAGE COSTS..

ALSO WANTED QUALITY MODERN HI-FI EQUIPMENT.

TEL/FAX PAUL GREENFIELD ON UK-0116 283 5821 OR 0802 213740 (MOBILE) ANY-TIME
CLASSIQUE SOUNDS. CLASSIQUE HOUSE, 61 AYLESTONE DRIVE, AYLESTONE, LEICESTER. LE2 9QE

LINDLEY TYSON



'Untwisting all the chains that tie the hidden soul of harmony'
MILTON

LINDLEY TYSON offer a choice of valve and transistor amplification. The customer is able to choose a complete valve or solid state system and any combination of either technology.

The High Definition Electrostatic Transducers (HDEST) are also available for the ultimate in 'loudspeaker' performance and design. Choices of solid hardwood finishes are available.

We also offer an upgrade and restoration service for vintage valve equipment (Quad, Leak, Radford etc).

LINDLEY TYSON offer a unique alternative to volume manufactured designs. We design, build and test each product to meet the individual requirements of our customers. This ensures the highest possible standard of performance and satisfaction.

The cost of owning our custom designed equipment is often lower than expected. Please call for details.

LINDLEY TYSON - Bespoke Audio Engineering.

☎ 01775 722346 or ☎ 01522 695542

Oxford Audio Consultants

HI-FI SPECIALISTS



Our superb service is the same, regardless of price.

A STUNNING NEW FLOOR STANDING SPEAKER FROM WILSON AUDIO

- the next best thing to System 5s - must be heard!!

NOW DEMONSTRATING

WILSON WITTS - awesome!! what else can I say !
 KRELL - NEW ! an integrated amp like you've never seen or heard!
 MICHELL ORBE TURNTABLE - superb value for money
 THORENS AMPLIFIERS - excellent product
 SONUS FABER - a new baby coming soon - watch out !
 GM AUDIO EQUIPMENT TABLES - the ULTIMATE hi-fi table
 KRELL KAS 2 - truly fabulous powerhouses but so refined.
 B & W CDM1 AND CDM2 - superb newcomers from B & W
 MICROMEGA STAGE CD PLAYERS and the NEW AMP and TUNER !
 QUAD 77 SERIES - a big step forward ; at last the CD player is here.
 MARTIN LOGAN SL3 - the new SEQUEL replacement - a stunning advance. THETA
 TLC anti jitter device - you've heard about it now try it for yourself sale or return.
 MONARCHY DIP ANTI JITTER DEVICE
 TUBE TECHNOLOGY UNISYS/SYNERGY - gorgeous glowing valves !
 REL STORM - redefined our ideas about subwoofers.
 B & W THX SPEAKER SYSTEM on dem now
 PINK TRIANGLE DCAPO/DC/ORDINAL/CARDINAL
 RUARK EQUINOX - a big bold sound from a small box
 LYRA CLAVIS DA CAPO - even better than Mk2
 FULL RANGE OF TRANSPARENT CABLES including ULTRA THETA DATA BASIC
 CD TRANSPORT - still fantastic value for money
 AUDIO RESEARCH LS7/VT 60 - a snip at the price !
 WILSON SYSTEM 5 - quite simply state of the art
 SONUS FABER LOUDSPEAKERS - we love them all!

EX DEM & P/EX BARGAINS

SONUS FABER AMATORS	£1950
SLATE STANDS	£200
MAGNEPLANAR 2.6	£995
KEF 107.2 BLACK	£1295
MAGNEPLANAR 2.5 MINT	£950
KRELL PAM 1 PREAMP	£995
NAIM SBL SPEAKERS	£950
OXFORD CRYSTAL SIGNATURE MAHOG SHELF MOUNT	£1195
AUDIO INNOVATIONS ALTO	£195
ROKSAN ATTESSA CD PLAYER	£1150
KINSHAW PERCEPTION DAC	£450
THETA DATA BASIC EX DEM	£1595
B & W 610 SPEAKERS	£175
RUARK SABRE	£295
AUDIO ALCHEMY CD TRANSPORT	£499
MICROMEGA STAGE 3 EX DEM	£750
APOGEE CENTAUR	£995
MAGNEPLANAR MG3 AS NEW	£2250
HEYBROOK INTEGRA AMP	£350 (550)
AUDIO RESEARCH LS5 PREAMPLIFIER	£2995 (5290)
CHORD SPM1400B MONOBLOCK POWER AMPS PIANO BLACK	£3495 (PAIR)
COPLAND CTA401 EX DEM	£995
AUDIO RESEARCH LITLINK/LITZLINE CABLES	



diverse vinyl

est 1988

A vinyl service aiming to cover the whole music spectrum
 12 Upper Dock Street Newport Gwent NP9 1DF
 9am - 5.30pm Mon - Sat
 phone/fax 01633 259661 P&P £1.00 per order
 Catalogues available for all categories

Recent and expected releases

AC/DC	Ballbreaker	£9.90
Blur	Great Escape	£8.90
David Bowie	1 Outside	£8.50
Charlatans	Charlatans	£8.90
Deep Purple	In Rock-dble purple vinyl	£11.90
Emmylou Harris	Wrecking Ball	£9.90
Green Day	TBC	9/10
Hawkwind	Allen	£10.90
Inspiral Carpets	The Singles	£8.90
Jethro Tull	Roots and Branches dble	£10.90
Live	Throwing Copper	£9.90
Mariah Carey	Day Dream	£10.90
Mike Scott	Bring Em All In	£8.50
Morrisey	Southpaw Grammar	£8.50
Oasis	Morning Glory	2/10
Orbital	2/Snivilisation each lid price	£5.90
Prince	Gold experience-dble	£12.50
Red Hot Chili Peppers	One Hot Minute-dble	£12.50
Rolling Stones	Live MTV Album	23/10
Shara Nelson	Friendly Fire	£8.50
Skunk Anasie	Paranoid and Son	£8.50
Sonic Youth	Washing Machine	£8.90
Stereolab	Refried Ecstacyism	£8.50
Thunder	Their Finest Hour	£11.90

Stock Selection

Miles Davis	Walkin'/Relaxin'	each	£10.90
"	Porgy and Bess		ea£8.90
"	On the Corner/Some Day My		ea£8.50
Doors	Doors/Strange Days/LA Woman		ea£6.50
"	Soft Parade/Waiting For the Sun		ea£6.50
Neil Young	Harvest/After the Gold Rush		ea£8.50
"	Sleeps With Angels		£13.90
"	Zuma		£9.30
"	Tonights the Night		£8.90
Bob Dylan	Blonde On Blonde		£9.90
"	Boatleg series-5 LP set		£25.00
"	Blood On The Tracks		£8.90
"	Freewheelin'/Highway 61/desire		£6.90
"	Real Folk Blues-1966		£9.90
"	Boom Boom-1992		£10.50
"	The Healer-1989		£9.30
"	Chill Out-1995		£10.90
John Lee Hooker	Mr Lucky-1991		£9.30

Oxford Audio Consultants

Oxford Audio Consultants, Cantay House, Park End Street OX1 1JE
 Telephone: Oxford (01865) 790879 Facsimile: Oxford (01865) 791665

FREE Audio Catalogue

That Will Change
The Way You Buy Hifi

Inside the new RDL
catalogue you'll discover:

- The secret to picking the right speakers.
- Why your home is the only place to test audio equipment.
- How to get more audio for your money.
- How to buy home theatre systems.
- Why the reviewers say RDL offers superior audio equipment at unbelievably low prices.



Buying from RDL is easy and risk free with our 100% "no strings attached" money back guarantee.

Roy Allison, President and Chief Designer of RDL Acoustics has put together two new, superb ranges of speakers to fit every situation at prices well below normal shop retails.



Order your free catalogue, call:
01484 603333

or fax on 01484 607774

RDL
ACOUSTICS



20 Cleveland Way, Shelley
Huddersfield, HD8 8NQ

Classified Ads

For details on how to place a Classified Advertisement, please see page 145

PIONEER A400 intergrated amp "Best Buy" product, little use, excellent condition, £160, also Sharp cassette deck £25.
Tel: 0181 660 9852

NIAM NAP 250 power amp, old style £550. NAC 72 with Snaps power supply modified by Audio Physics £550.
Tel: 01326 280 259

ENTHUSIASTS CLEAROUT. Snell JII black vgc boxed £295. Various drive units at half price. Volt 250.8, Focal 5K413S, Seas MP14, Morel 114S, Morel T32, Audax 250A0 and assorted enclosures.
Tel: (Coventry) 011203 614105

CAMBRIDGE CD2 CD Player, (650) £250, mint condition. QED Opto (Digit with optical input) with twin Positron power supply, £150.
Tel: C. Scott 0171 286 4143

AUDIO INNOVATIONS 500 £500, SD OBS speakers £400, Pioneer PD802 CD £200, Nakamichi ST7 tuner £250. System £1250 (£3100 new)
Tel: (Eire) 00353 52 24608 before 010995 (UK) 01352 735736 after 010995

LOVELY NAIM SBLs floorstanders, black with passive crossovers, Naim cable, excellent condition. Too big for present room. £600.
Tel: David 01483 418048 (Godalming)

PINK TRIANGLE 1307 module £140. Fits Da Capo or Ordinal.
Tel: Doug 0171 775 6453 (Day) 01923 857348 Evenings) (St Albans)

KLIPSCHORN loudspeakers, mint, black, boxed, £2500. Klipsch Chorus II loudspeakers, mint, Oak, boxed £1000, plus other items.
Tel: 01953 483424 (evenings)

AUDIOLAB 8000T Tuner, 2 years old, in excellent condition, £550 o.n.o.
Tel: Alan 01277 219289 (Essex) (Evenings)

AUDIO RESEARCH Classic 30 triode mode valve stereo power amplifier, recent GT Audio service, £1300. Quad 303 £100, Hi-Fi News Headcase class "A" headphone amplifier £25. All items excellent.
Tel: 0171 727 3690

NAKAMICHI 600 twin head cassette deck £250, Technics SL-1300 Mk II direct drive turntable £100, B&W model DM3 Teak veneered floor standing loudspeakers 100 watt p.c. £100, or £300 for all three.
Tel: 01204 522311 (eves) (Manchester)

MUSICAL FIDELITY 3B pre-amp £170 o.n.o.
Tel: Adrian 0181 402 5349

ROGERS CADET pre/power valve amplifier. Excellent working condition. Mullard valves, original circuit diagrams and instructions. Bargain £95. No offers. Teledyne quadrophonic receiver £15.
Tel: 01480 406502 (Cambridge)

APOGEE CALIPER Signature speakers, perfect condition £1500, KRELL KSA50 Mk2 stunning sound, as new, one of the last built £850. ORTOFON MC3000 few hours use only £300. ATF5-OCC cartridge and AT650 M/C transformer £100. All equipment in original boxes.
Tel: Paul 01727 810413

LINN DMS Isobarik speakers complete with Linn stands and Naim NAC5 speaker cable, original purchaser from new, all items £775.
Tel: 01736 757721 (Cornwall)

IMPULSE H5 horns late model, finished in light Oak, superb condition, bargain at £700. (Less than half new price) Also, various vintage valve amps for sale.
Tel: 01726 844039

SANSUI SR222 Mk2 turntable with Audio Technica AT19E cartridge (needs new stylus £10) £35. Brand new Q.E.D disc saver phonostage £20. Ideal vinyl starter package.
Tel: 01780 64149 (Stamford, Lincs)

AUDIOLAB 8000A Mk2 12 months old, 1 year guarantee left. Receipt boxed £330. 3 metres Chord Flatline twin professionally terminated, cost £120. sell £65. Mission 780SE still guaranteed £150.
Tel: 01206 867514 (Cochester)

LINN LP12 VALHALLA, lirkok LVII, Audio Technica AT OC9-5B, Skyline super platform. vgc, can demonstrate £400.
Tel: 0181 440 5252 (N.London)

FOR SALE RADIOTRAN designers handbook fourth edition in mint condition, offers. Require Sony TAN 88B amplifier.
Tel: 0171 701 7979 (Sundays before 1pm)

ARMSTRONG 626 AM-FM stereo receiver £80, TEAC A-170 stereo cassette deck with Dolby £40, both in original packaging. Pair of Mordaunt-Short Pageant Series 2 speakers £60.
Tel: 01474 703547

AUDIOLAB 8000AII intergrated amplifier in excellent (as new) condition, purchased Feb 1994, boxed with mains lead £300.
Tel: 01702 463232 (Essex)

SUPERB AUDIO INNOVATIONS second Audio Triodes and 200 MM pre-amp bargain £1250 (£3450). Gamma Acoustics ERA (military valves) £995 (£3000), AMC CD6 £225. WANTED High end CD and silver cable. Car demo/deliver.
Tel: IAN 01628 788502 (day) 0836 268050 (evenings)

SPENDOR SP2/3, 8 months old £600, Kinshaw Perception phono centre with factory fitted volume control £250. WANTED, Conrad Johnson PVS.
Tel: John 0113 2564020 (after 6pm)

ENTHUSIASTS CLEAR OUT. Aura CD50 CD player £200 o.n.o., Tannoy 609IIs £150 o.n.o., Celestion DL3IIs £75 o.n.o., JPW Sonakas £50 o.n.o.
Tel: 01202 475781

NAIM NAC72 pre-amp, S, K, and straight through boards £400, NAP 140 £400, Hi-Cap £350, all new style, boxed and excellent condition. Linn Karik £1000.
Tel: 01635 869107

SYSTEMDEK III, Formula 4, Dynavector 10X Gold, mint £300 o.n.o., Sony EL7 Elcaset cassette recorder, large cassettes, battleship construction, the finest recordings 3 3/4 speed, mint, lots of tapes, boxed £200 o.n.o.
Tel: 01544 260344

LEAK TROUGHLINE 3 mono £60, Lux 507X amp £60, KEF C90 speakers £300, Walker CJ58 turntable £100.
Tel: 01274 572924 (Bradford)

ION OBELISK 1, excellent amp for inputs, tape monitor, 6 metres of QED flat strand 79 with plugs, £100 o.n.o., QED tape switching box £20, both excellent.
Tel: 0151 548 9079

ROKSAN OJAN 3 speakers, immaculate, boxed, less than 15 hours use. Move to small twee cottage forces sale. Cost £895, Sell £650.
Tel: 0973 203213 or 01625 572519

MISSION CYRUS ONE stereo amplifier £130, Philips remote control compact disc player £90, pair Ruark speakers £150, Aiwa stereo cassette deck £65, Pioneer turntable £70. All vgc.
Tel: 0181 681 1054

LINN LP12 VALHALLA AKITO, K9, boxed, 4 years old, little used due to absence, perfect condition, includes Sound Organisation shelf £420.
Tel: 01628 476836

ARCAM ALPHA 3 amp £100, Audio Innovations LP1 pre-amp £200, Rogers Cadet 3 intergrated valve amp £80, AR 18 BX loudspeakers (modified) £60, IPL S3 TL2 transmission line speakers £130, 2 pairs foundation speaker stands 16", 20", £40 each, Nakamichi 700 cassette deck £160, ADC LTI tone arm £50.
Tel: 01935 814493

AR EB101 record deck (black Ash), Supex MM cartridge £120, Audio Technica AT-OC5 MC cartridge boxed/unused £95, Cyrus One Mk2 amplifier £95, Pioneer CT-737 (three head) cassette deck £110, Marantz CD-52IIE compact disc £130. Will sell complete for £540. All equipment immaculate, sale due O/seas move.
Tel: 01334 657160

CASTLE DURHAM 900 speakers, 7 months old, excellent condition £200 o.n.o.
Tel: 01732 740040 (daytime) 01732 866817 (evenings)

A+R A60+ AMPLIFIER (1986) includes moving coil boards, Teak finish. Classic amplifier in mint condition. Boxed £95.
Tel: 0191 261 0562

ION NEXUS SP1 pre-amp/X Pak 2 power supply, SAM power amp £350, Sugden A21A intergrated amp £350, Sennheiser HD 250 Mk II headphones £60.
Tel: 01952 406759

AMC CVT 3030 valve amp, new boxed £450, Sugden A25 amp mint £110, Leak Delta tuner £60, Target TT2 shelf £35, Target small speaker brackets £35.
0860 613024 (Watford)

TRILOGY 958 MONOBLOCK amplifiers, 100 watts per channel valve amps in mercury finish (chrome) with latest spec transformers in mint condition and boxed. Cost new £2995, will accept £1850 o.v.n.o.
Tel: 0181 291 1744

RUARK SABRE II loudspeakers, walnut, and Linn Ku-Stone stands with top plate £320. Linn Valhalla power board, little use £50.
Tel: 0181 777 8015

TANNOY CHEVIOT loudspeakers, walnut cabinets, Sano grilles, 12" dual concentric, untouched original pair, mint condition £395.
Tel: 0378 955523

FOR SALE Audiolab 8000A (DIN but can supply full set of leads) £150, Technics tuner ST-255L £50, both in good condition.
Tel: Andy 01959 524258 (Eves & W/ ends)

MICROMEGA STAGE I CD player, two months old with two year warranty to run. Present of Naim CD1 forces sale! £375 o.n.o. can demonstrate.
Tel: Stuart 01322 559346 (Dartford)

SONY TAN 901 150x150 Esprit power amp, mint £600, Meridian MCA1/MCP1 pre-power mint £650, Sony DTC 1000ES DAT £550 (includes 10 blank tapes still sealed worth £100!), Castle Pembroke IIs mint, (boxed) £250, Meridian 203 DAC £200. Sensible offers considered.
Tel: Marc 01865 514622 (evenings)

DELTEC (DPA) PDM I Series 2 DAC £195, Philips CD473 CD player, co-ax out, remote, FTS £45.
Tel: 0727 827630 (after 6.30pm)

SE OUTPUT TRANSFORMERS, outstanding design principle, superior sound in every respect, deep drawn steel pot. £14 each.
Tel: Germany +49 241 511137

ROTEL RB960 BX power amp, boxed £100.
Tel: 01824 780 689 (North Wales)

AUDIO INNOVATIONS SR1000 pre-amp with SR1000 M.C. transformer. 1st audio power amp. Snell type K speakers with stands. Offers or PX for more wife friendly system.
Tel: 01387 263252

BILL BEARD'S BB100 Mk II intergrated tube amplifier 50 w/channel. As new and little used. Only £600.
Tel: 01323 727199 (Eastbourne)

MUSICAL FIDELITY CDT valve CD £355, Gyrodec perspex power supply £85, AT-OC5 VGC £55, Philips CD101 £60, Goodmans SCD100 cassette deck (Nakamachi) £55, Sony FH-205W mini CD Hi Fi £180
01474 704382 (N. Kent)

MERIDIAN M30 Active black loudspeakers stands £345, 201 pre-amp £245, 204 tuner £245, boxed, Linn LK1 pre-amp £150, Tannoy DC2000 floor standing black loudspeakers two 8" drivers, one dual £195.
0181 566 1568

ARCAM BLACK BOX 3 DAC. Good condition £115.
Tel: 01992 467159

NAIM 250, new style, 6 months old, boxed and in mint condition £1050 o.n.o. Also wanted Chord SPM 1000 'B'.
Tel: 01902 786818 (Wolverhampton)

PINK TRIANGLE DA CAPO and DC battery supply. Fitted with Philips 1307 filter and battery cells recently renewed. Mint condition and boxed. Cost new £3150, will accept £2200 o.v.n.o.
Tel: 0181 291 1744

THE APEX 100 SERIES SOUND EXPERIENCE



FEATURING
PASSIVE CROSSOVERS
ACTIVE CROSSOVERS
ALUMINIUM CONES
WOOD VENEERS
OFC CABLING
STANDS

Q.T.A. SYSTEMS
 2 WHEATSHEAF WAY · LINTON
 CAMBRIDGESHIRE · CB1 6XB
 TEL: 01223 891091

MARTIN LOGAN · ALCHEMIST · AUDIO RESEARCH ·



AUDIO GALLERY



NR PETERSFIELD HAMPSHIRE
 MISSION FOR OPENING
 MUSICAL FIDELITY HOURS AND
 KLIPSCH APPOINTMENTS
 DECAPO, AEGIS PLEASE RING
 SPEAKERS 9 30am - 7pm
 LYRA CARTRIDGES
 DPA2005 HEYBROOK

HOME DEM
 AUDIO SYNTHESIS ACOUSTIC ENERGY
 WADIA 6, MICROMEGA STAGE, DAC-IN-A BOX
 TDL, SME, TEAC
 VRDS 10, AUDIONOTE + AV

01730 - 895194

VALVE SPECIALISTS ON A SUPERIOR LEVEL

AUDIO INNOVATIONS · TUBE TECHNOLOGY · DPA ·

AUDIO ALCHEMY · TEAC · NAD · TRIPOD · ALPHASON · PIONEER ·

DENON · RESTEK · PROAC · JPW · MOTH · PINK TRIANGLE · WADIA ·

AUDIO BY DEVELOPMENT SOMERSET

Serving Local, National and International Enquiries.
Telephone or fax on 01984 623100

At Audio By Development you can relax in a home environment and listen to some of the finest audio equipment available anywhere. We have a wealth of experience in assembling both valve and solid state based systems that genuinely do what they're supposed to do: **'provide lifelike musical reproduction in your home'**. We confidently recommend that every product we sell will deliver the best performance, reliability and value for money in it's particular class, and if you make a purchase then you can rest assured you will get the after sales service and future upgrade advice that you can expect from a reputable, independent consultancy.

This month - We would like to introduce our £1200 system to you. We find that the most difficult type of system to assemble properly, in order to obtain convincing results, is the one for the customer who wants to spend less than £1500, but obtain a realism approaching that of the 'cost no object' system. Over the last few months we have tried many different combinations of equipment, and finally have what we believe is the answer. It's capable of portraying a beguiling soundstage, has sufficient control and dynamics to excite, and above all, holds you captivated as live music should! We can't think of a better way of spending £1200 and get this close to real music. **Call for more details, or better still arrange for a demonstration and hear for yourself.**

We supply and recommend the following established products: AUDIO NOTE* AUDIO INNOVATIONS* UNISON OF RESEARCH* VPI* ECA* SME* ORELLE* MONRIO*REL* CALLAS*

PRIMARE: Top flight, solid state amplification, rivals Krell and Levinson. Totally neutral presentation with 3D soundstage. Also CD player 'par excellence'.

ECA: A range of British built solid state components including pre/power amplifiers, phono stage and mains conditioner. Exemplary build quality and performance at their price points. Also the Servo A2 loudspeaker, offering speed, neutrality, dynamics, 3D soundstage and scale from a domestic floorstander.

UNISON RESEARCH: Outstanding range of single ended valve amplification. The 'Simply Two' is simply outstanding.

MONRIO: We believe that this could be one of the most talked about range of solid state products next year. Wonderful versatile phono amp with inky black silent soundstage. Also new DAC and transport at sub £1000.

QLN: Range of Swedish loudspeakers that have no rivals at their price points. Superb engineering, holographic soundstage and totally neutral. Prices from £200 to £1,900.

CALLAS: A stunning range of loudspeakers from U.K. distribution. Their reputation goes before them. Exemplary gems in solid wood.

Stock taking sale: the following items have been reduced to clear.

	WAS	NOW
TOCA class A single ended amplifier (last one)	(£2000)	£795.
Audio Innovations L.2 pre amp (boxed, unused)	(£749)	£495
Audio Innovations Alto (boxed, unused)		£200
Audio Innovations 2nd Audio triode monoblock amps (ex dem, as new)		£1395
Linn Ittock tonearm LV2 silver		£200
Linn LP12 afromosia with Ittock tonearm (excellent cond)		£495
Audio Note 10 11v cartridge (ex dem, hardly used)	(£1680)	£625
Audio Note DAC3 Signature (unmarked)	(£3,000)	£1495
Michell Girodek T/Table with RB300 tonearm		£475
Leak Troughline 3 Tuner with Studio 12 decoder (totally original, unmarked)		£195
Musical Fidelity The Preamp 2		£125

Large range of records and CDs in stock. New lists every two months.
 Audio By Development, Rotten Row, Wiveliscombe,
 Somerset TA4 2NB.

REPRODUCTION HI-FI CABINETS beautiful shape, Yew finish. Custom made. Ideal heavy/large equipment. Overall 38" long, 31" high, 26" wide. Two shelves 36" x 12" x 22". Extensive ventilation, castors, metal frame clad solid wood, glass inlay top, doors each end. Immediate SAF (Spouse Acceptance Factor) Offers for pair? Tel: 01945 63077

WANTED BY PRIVATE BUYER, "The Head" (De Paravicini) moving coil step-up transformer with instructions. First class working condition essential with no DIY modifications. Near mint appearance. No Dealers. Tel: 01505 703091

MONARCHY 22A DAC + Monarchy D.I.P., sell both together £500. Tel: 01604 766124

ORACLE DELPHI II SME IV £875, Fidelity Research FR645 £285, VPI Junior, never been used £400. Tel: 0117 9730819

LINN KEILIDH SPEAKERS with ceramic plinths. 2 x 3m of LK 400 speaker cable, as new, with receipts, instructions, boxes. £500 o.n.o. Tel: 01765 602006 (N. Yorks)

EAR 834 VALVE AMP £795, ROK DPI + DA1 + DS4 £1200, Quad 22 + II + II FM stereo AM tuners, all mint boxed £475. Tel: 01446 735768 or 01446 420738

ARCAM DELTA 170 £245, Meridian 203 DAC £245, Naim HICAP, 250, 32.5, recently serviced by Naim. Will split £1050. Epos ES14 Mark 1 + Epos stands £260. Manufacturers boxes. Excellent. Tel: 01379 641584

LINN LINGO complete £350, Meridian 200 transport with Mission DAC-7 £650, Technics SL-P1200 CD, rare opportunity £650. Linn Kairn pre-amp, immaculate £750, KEF 103/4 Reference, rosewood, unmarked £750. Tel: 01952 502097 (Telford)

IMPULSE H6 SPEAKERS, horn loaded bass, very efficient and very dynamic. As new, light wood veneer £600. Tel: 0181 989 6434 leave message if out

EAR 834P superb sound, 3 months old. Arrival of Conrad Johnson forces sale £300. Radford SC2 valve pre-amp, good condition £50. Selection of valves; Mullard EL34s, Golden Lion KT 77s. Ring for details. Tel: 01252 311266 (Farnham/Surrey)

DENON DCD 3300 flagship CD player (cost £1200 new) £250, Rega RB 250 tone arm £40. Wanted: Denon DL300, DL301 cartridges any condition. Tel: 01634 387686 (Kent)

COLLECTORS DISPOSAL: Many interesting items. Mainly valve and transcription decks, Leak, Pye, B/E Avantic 301, 401, 124, 185 etc. Please telephone for list. (evenings) Tel: 01392 860182

MILLENIUM 4-20 valve amplifiers, complete and tested to specification, chassis work and PCBs supplied, alternative valves, rescue work, queries, demonstrations: Tel: 0181 427 1378 (Harrow)

LINN SONDEK LP12, Valhalla PS, Ittork arm, Linn K18 cartridge, vgc £475 Tel: Kevin Snowdon 0191 548 6050

KEF CONCERTO (Teak) speakers £110, Quad 33 and FM3 boxed, excellent condition £100, Rotel Supra 20 speaker cable 2 x 8m £60. Please leave details on answering machine for return call. Tel: 01799 527277

ARCAM ALPHA S CD, plus modified £350, Arcam Delta 290 £300, Royd Minstrel speakers £130. Aiwa AD-S950 tape deck 3 months old £180, all with guarantees. Chord Fhline Gold 2 x 5m. WBT plugs £110. Chord blue heaven interconnect 0.5m £50, cables 2 months old. All boxed with instructions. Tel: 01734 662620

WANTED: 2 No. PX2S output valves for Decca Decola radiogram new or s/h. Tel: Tony Statham 01727 840567 (day) 01707 326127 (evenings)

WANTED: QUAD/LEAK valve kit. Pair Quad IIs and 22 amp. late model original electrostatic speakers. Leak Troughline II or III tuner. Tim de Paravicini decoder for same. All must be in good nick. Prefer recently serviced tuner. Tel: 01892 667267 after 6pm

ATC SCM20 SPEAKERS and stands, black £1300. AVI S2000MM monoblocks £800, Musical Fidelity F22/F15 pre/power amps £2000, Yamaha TX580 RDS tuner, all hardly used with warranty. Tel: 0181 870 3630

MAGNAPLANAR MGIII A SPEAKERS including external crossover (list £3000) asking £950, Concordant Exquisite superb all tube top of the line pre-amp asking £1250. Thiel CS2.2 speakers from the USA (list £2950) asking £1550. WANT: Apogee Duetta Signatures. Tel: 0171 281 0821

ROCKSAN XERXES XPS2 power supply, Rega RB300 arm vgc. Boxed. £495 o.n.o. Tel: Worthing 09103 261931

SPENDOR BCI classic quality loudspeakers boxed with stands. Vgc. Reluctant sale £135 o.n.o. Tel: 01249 654180

ENTHUSIASTS CLEAROUT Tannoy 633s new Profile speakers £200 (boxed), Mordaunt Short M5 55Tis £150, Royd Minstrels £150, Tannoy 611s £250, Revolver Purdeys with plinths £170 (boxed) all excellent, may consider part-ex on other speakers. Also, WANTED Mission 633s Tel: 01782 261237 (Stoke On Trent)

EPOS ES1 SPEAKERS, dedicated stands £265, Music Fidelity P270-2 amp £750, Pioneer F91 tuner £250, Meridian 203 DAC7 £215, Technics SL120 deck, SME arm £150. All as new. Tel: 01392 57202

LOGIC DM 101 £100, Flutterbuster £50, Kyzma Stogi arm £150, OC9 (new) £140, Exposure X (MC) £175, Chris Rogers transmission line speakers £250 o.n.o., Maplin 4/20 valve monoblocks £120, Naim 32 + 90 + Snaps £325, LVV arm £20, Ferrograph 20/20 amp £30. WANTED; Goodman's Axiom 301s. Tel: 0114 273 8153

QUAD 34 PRE-AMP with MM and MC boards £175, Linn Trampoline base £45, Audio Technica ATOCS MC cartridge boxed as new £50, WANTED; "The Head" transformer. Tel: evenings before 10pm 01603 714528

MISSION 753s 10 months old, Rosewood, mint, boxed, still 14 months guarantee left. Upgrading Cost £700 will sell for £550 o.v.n.o. Tel: Pete after 5pm 0115 9294060

RELUCTANT SALE OF KLS3s, 6 weeks old, all components supplied by Hi-Fi World Walnut cabinets, genuine reason for sale: bargain £850 or very nearest offer. Tel: Enquiries after 5.30pm 0115 9294060

ROTEL RA935 Mk1 £120, Valecraft single column spiked sand filled stands £20, Memorex sub woofer and 2 Sat speakers £30 o.n.o. WANTED; In-Car DCC machine and blank tapes. Tel: 01638 661671

ROCK REFERENCE, Kuzma tonearm Koetsu black, needs record clamp, average use, excellent condition, will not split £2000. No offers. Kinshaw perception phono stage, mint £220. No offers. Two Target tables, two tier £70 the pair. Buyer collects all. Tel: Reading 01734 664001

LINN KEILIDH SPEAKERS excellent condition with ceramic stands £425. Tel: 01202 888832 (Dorset)

NAIM NAIT 2 little used £275. Pair Rega E.L.A. little used £275 excellent condition. Tel: 01964 671276 evenings (E. Yorkshire)

LINN LP12 Lingo, Trampoline, Cirkus, Ekos, Klyde, £1100, Linn Kairn £900, Naim CDI £1100, 2 x LK100 with active Keilidh modules £900, Keilidh speakers £350. Tel: 01642 762193

QUAD II (pair) rebuilt £395, Rogers RD40 £75, Leak Varislope III (mono) £95, STD 373 Mullard 5/20 £145, Garrard 401/SME3009 II in SME 2000 plinth £250, Acos Arm £40. Tel: 01444 459196

CONCORDANT EXCELSIOR valve pre-amp, wood surround, PSU £625, Concordant Exultant valve monoblocks £425, Lowther Acousta PM6 horns £225. Exquisite sound. Space forces regretful sale. Tel: 0121 459 2347 (eves)

PROAC MINITOWERS Walnut, v.g.c. £400. Quad FM3/33 in Afrormosia sleeve, with manuals, serviced by Quad, £110. All units to make pair of Falcon Hi-Fi Answers compact speakers, with drawings, £100. Tel: 0181 863 1807 (Harrow)

FOR SALE. LUMLEY STA40 power amp, Lumley VSP 000 pre-amp £1100 o.n.o., Grant GA50 power amp £395 o.n.o., IPL S4 TL speakers £300 o.n.o. Tel: Glyn 01709 524575 (Rotherham)

TANNOY CHEVIOT 12" dual concentric loudspeakers, Walnut cabinets, mint original condition, sound superb. £375 ono. Tel: 0378 955523 mobile.

AUDIOLAB 8000M (2 of) and 8000DAC - 6 months old, mint £1400 (£2300 new) Chord Flatline. Cabletalk Pro 2 and AudioQuest Quartz at about 2/3 RRP Tel: 01472 253475 pre 4 20pm

MISSION 753 LOUDSPEAKERS Rosewood £475 Audio Innovations 700 integrated valve amplifier, new Golden Dragon valves fitted £475. All very good condition. Tel: 01923 247197 (evenings) Wat ord

MICHELL ISO and HERA £325, N.V.A. PS0 £150, Albarry S508 £275, NAD 402 £125, Deltec Little Bit £125, Yamaha KX-380 £100. All very light use. Offers accepted. Tel: 0151 339 0268 after 7pm

NAKAMICHI 700 ZXL cassette deck, a truly heavyweight deck, sonically and physically. Features auto calibration, index marking, variable pitch, mic inputs (L/R + blend) remote capability (I.R.) Dolby B processor unit etc. Mint condition £800, bargain! Also Kenwood DP-X9010 CD transport with acclaimed Trichord's "Clock 2" mod, mint £350 o.n.o. P.S. Recommended by "What HiFi/Audiophile" Tel: Leonel 01483 32791 (work eves) or 0956 519912 (one zone)

PROAC RESPONSE 3 speakers, Mahogany cabinets fitted with Signature crossovers and Rhodium terminals, fixing bolts and spikes as new bargain at £1850. Tel: Kevin 01703 601222 (Southampton)

REGA XELS £700 (HiFi Choice Best Buy) Cost £1050. Naim NAC 92 £280, Naim CD3 £700 all 12 months old. Tel: 01952 770406 (evenings)

TANNOY ARDEN Mk1 15" HPD (mint) £1300, Tannoy Lancasters 12" Monitor Gold £495, Revox B77 Mk2-Mid mint condition £695, Leak Throughline I (mono open chassis) £175, II (mono) £95, II (stereo) £145, 3 (mono) £125. Tel: 01444 459196

TRACKLINE SHELVES by Beaver & Tapley: eleven cassette (S3AC) and one CD (S3CD) in as new condition. Cost £37 each, sell for £100 together. Tel: Andrew Emmerson 01604 844130 (Northampton)

AUDIOMECA KREATURA transport, boxed, documents, absolutely pristine, few months old £800 o.n.o. Kinshaw Perception DAC, as above £550 o.n.o. Audio Research SP9 Mk1, pristine, upgraded, boxed, documents etc £700. Buyer collects. Tel: Paul 01834 845928

NAIM 82 £1350, CDI £1350, SBLs £1300. Tel: 01703 345188 after 6pm

LINN LP12 VALHALLA excellent condition with Basik plus tonearm £250 o.n.o. Tel: Mike 01244 676512 (Chester) After 3pm weekdays, before 1pm weekends

EMT 930 TURNTABLE mono with EMT 155 pre-amp and EMT tonearm (no headshell). Good working order and fair condition. £750 plus carriage from Dublin. Tel: 00 3531 4591432

MANTICORE MAKE MORE MUSIC

Turntable Servicing - all makes - please ring for details.

ARISTON - LOGIC - THORENS SPARES

Arm rewiring - Manticore standard cable	£80.00
Arm rewiring - Van den Hul. Isoda	£160.00
Arm rewiring - Cardas	£160.00
Silver plated mains cable with IEC socket	£50.00
Aerolam equipment support	£54.00
Fibreham equipment support - superior performance	£130.00
Mantra replacement belt - supplied in twos	£22.00
Logic DM101 belt - supplied in twos	£22.00
Logic DM101 spring sets	£23.00
Rega armspacers - polished aluminium 1mm increments	£11.00
Impex motor, pulley and PCB	£90.00
Manticore Jazz turntable - choice of tonearms	POA
Manticore Magister with 12" Magician	£3,800.00
Manticore Mantra turntable - the classic - no arm	£495.00
Manticore Musician tonearm	£395.00
Manticore Magician tonearm	£695.00
Manticore 12" Magician tonearm	£795.00
<i>Part-ex available against all other tonearms</i>	
MB5i off-board power supply "suits most decks"	£290.00
MB6 off-board power supply	£490.00
Motor rebuild	£150.00
RIAA and preamplifier "system Integrity wiring"	£690.00
Active crossovers and AV amplifier	POA

Please telephone or write for more information and a copy of Mumbo Jumbo



MANTICORE AUDIO VISUAL

MAV Shareholders Ltd.
The Courtyard, 56c Shortmead Street,
Biggleswade, Beds. SG18 0AP
Tel: 01767 318437 (office) and 0585 583653 (mobile)

TECHNICAL INFORMATION BULLETIN No. 2

SYSTEM INTEGRITY

System Integrity Components

We have been working on a way of wiring music-playing systems that maintains the integrity of the signal path in a more sophisticated way than on general systems. The results have been astonishing and this could be the next major system break-through after equipment supports and bi-wiring. Present systems are limited by the inadequate connectors that are ubiquitous and *System Integrity* requires a complete rethink on these lines. We are currently being commissioned by a number of customers to rewire completely their system and this won't allow us many more commissions before Christmas but we can offer immediately 7-channel tonearm rewires and a passive preamp together with appropriate cabling in readiness for full conversions. A *System Integrity* phono stage will also be available very shortly.

The philosophy behind it.

Audio signals are commonly thought to comprise a signal referenced to a ground (or signal earth) and 99% of all available equipment is wired in this way. Inevitably, the grounds of both channels are connected together at numerous points within the system and more often than not also connected to mains earth. Some manufacturers separate signal earth from mains earth but fail to separate channel earth. A fully integrated system would have one star earth point referenced to a true 'real' earth from which all of the safety earths would radiate independently of signal earths so that every channel of every piece of source equipment would have an independent return path to the star. Screening would be separately independent.

What is required?

Every system needs an independent consultancy due to the wide variety of components on the market but audiophiles with separate mono amplifiers have a good head start. Four and five channel connectors (seven in the case of tonearms) are an essential part of the work and equipment can be modified prior to a full system overhaul or as budget allows. As always ring us for full details and a free of charge individual prospectus.

SERIOUS KIT

21, ALGERNON ST., MONTON, ECCLES,
MANCHESTER, M30 9QA.

0161-707 4823 or 0973 519358

NEWSLETTER NO 6

While most of us have been relaxing in the mediterranean heat of this wonderful english summer, J.E. Sugden & Co. have been busy working on their latest creations. By the time you read this, I will have on demonstration a pair of the company's brand new class "A" mono 40watt per channel amplifiers. Having used the prototype units at the Great British Hi-Fi show I can report that the final completion has been well worth the wait. Most readers of the newsletter will know that my own preference has always been for class "A" amplifiers. There is an old saying "if it doesn't get hot, it ain't playing music". These amplifiers get hot! These amplifiers play music! In fact for anyone who is obsessed with valve amplifiers but do not want the maintenance problems (read fun) here is the solution. I originally auditioned them with sugden's own AU51 pre-amp and phono stage using a pair of pro-ac studio 200s and gyro-dec fitted with wilson-benesch act 1 tone arm. Cartridge used was goldring elite a modest £200 m/c which is a cheapskate bargain and should be taken seriously. How did the system sound? Read on. It is important at serious kit that our systems do not sound in any way mechanical. Reproduction of music should never be obviously electronic.

These are tough criteria for any piece of equipment to live up to. I am pleased to inform music lovers that here is a system that is not mechanical or electronic sounding!! Here we have a natural synergy of components that simply delivers music. No more, no less. I was utterly amazed how well the baby mono's controlled deep bass passages. These amps sound a heck of a lot more powerful than the suggested 40w rating. Mid-range is very 3-dimensional with the most open and extended treble yet, from any solid state devices I have come across. Tell me why is it that it takes a small handcrafted manufacturer to push back the performance barrier of transistor amplification while most other company's carry on with the same old inappropriate technology. perhaps, because at Sugden's they have always beavered away, progressing quietly much of the time without the presence of reviews (in this country at least) I am amazed at the companies lack of recognition in the u.k. recent trips to italy and germany proved that perhaps our cultured european neighbours have

a lot more respect for the brand name hailing from "up north" than we do in sugden's own native country. not a lot of audiophiles, let alone hi-fi reviewers realise that it was this company who invented the class "A" transistor output stage, back in the 1960's. perhaps it is because the company themselves are music lovers and not technology freaks that the equipment is allowed to sing for itself. only to be recognised for what it is... musical in itself!

Coming back to the mono blox I can only suggest strongly that you audition them at your leisure, they are very special and deserve to be partnered with good ancillaries. ring for help if needs be. sugden have also updated the AU41 pre-amp which will complement the above mentioned items of desire, the new pre will use motorised volume for convenience and is completely d.c. coupled throughout for sonic purity. separate phono boards for mm/mc are available in either, or format. Every gain stage has its own power supply. incidentally all of sugden's audio equipment is phase linear but they don't make a song and dance about it! the whole philosophy of the company is one which I can only agree with.

Here comes another of my sweeping statements, non-bandwidth limiting, pure class "A" output, very low feedback, bi-polar trannies, discreet audio circuitry and low impedance power supplies make this range of electronics my own personal favourite transistor components. certainly this is a system I will enjoy for a very long time!

until next month, enjoy the music.....

As ever, a musical month to you all.

Kind regards

David W. Speirs

(PROPRIETOR)

STOCKISTS OF THE WORLD'S FINEST AUDIO EQUIPMENT:
ABSOLUTE SOUNDS, AUDIO NOTE, AUDIO INNOVATIONS, MICHELL,
LYRA, J.E. SUGDEN, PRO-AC, IMPULSE, VOYD, WILSON BENESCH,
ORTOFON, KINSHAW, KESWICK AUDIO, STAX, ROKSAN ETC. ETC.

PRIVATE

ROTEL 965BX, boxed, low use £190, Valley Acoustics valve pre-amp £220, JVC JT-Viol tuner - stereo £50. Tel: 01932 852831

SPENDOR SPI/2, 6 months old + stands, £900, or exchange for any good panel speakers, electrostatic etc. Leak Stereo 20, £180. Art Audio Quint-tet MkII new, £800. Sony CDP103 CD player, £100. Tel: 0181 531 5979

B&W 802 floor standing monitor speakers with acoustic hoods (in good condition) £300 ono. Tel: Rod 0121 705 1142 between 5pm & 7pm weekdays. Also wanted 'Stax Lambda Signature' headphone extension cable.

MERIDIAN 203 DAC £150 ono. Mission DADS CD player £125 ono, A&R (Arcam) A60 amplifier £75 ono. Delivery possible. Tel: 01293 595384 (work) or 01903 814846 (home) - W. Sussex.

QUICKSILVER valve pre-amp, Quicksilver valve monoblocks, Quicksilver M/C step-up £1,950 (may split). Sony HDA55 step-up £70. Speakers: Triangle Graphite/Norma £375, Epos ESII Target stands £275, Radford Tristars £250, 450 valves £150, All ono, mint boxed. Delivery possible Tel: 01689 838846

NAIM DBL speakers complete with x-overs, original unmarked condition, any reasonable offer secures. Tel: 01924 271043 evenings, 01924 278800 day.

LFD-PA2 power amplifier, mint £663 o.n.o., previous equirers please re-contact. R252 Monitor Audio speakers offers, SP20 Spondors £250. Wanted single ended amplifier, Martin Logan SL3s, part ex. Posselt Albatross. Tel: John 01603 38752

LINN KARMA cartridge, Van Den Hul re-tipped not used since £295 o.n.o., Sanyo FXR-31CBII with CD autochanger and speakers (in car entertainment) never been used, still boxed £350 o.n.o. Tel: 0121 608 2177

PHILIPS CD 960 with Geoff Bull modifications and a second 960 (not working) for spares £300. Tel: 0181 449 8639 (Barnet)

ORIGIN live turntable kit £75, TDL 25D49 metal dome tweeters £35, Audio TW74A Audax tweeters £8, original Goodmans Maxim speakers and amplifier £40. Tel: 0114 2686570 (Sheffield)

IPL M3TL mini transmission line floorstanding speakers, fully built with light Oak veneer, external crossovers, spiked plinth £220 (£284 as kit). Exposure 7 pre-amp, early model £70. Tel: 01902 374786 (nr Wolverhampton)

MISSION speakers 753, rosewood, as new £375. Tel: 01902 341930

ARCAM 170.3 transport (Trichord clock 2'ed) BB5 DAC (upgraded to 50 spec) Video Z interconnect, all 1994, boxed, immac, cost £1410, accept £650. Upgrading! Tel: 01734 321056 (eves)

LINN KAIRN pre amp £730, AVI pre amp £550, AVI CD player £675, Teac VRDS-10 CD player £450, Creek T40 tuner £100, Keswick Audio Aria speakers £180, Professional Monitor Co TB130 speakers with Target R3 stands £425, Luxman 507X amplifier £120. Tel: 01977 643626

JOHN SHEARNE phase 2 Mk 2 intergrated amp. 50 watt per channel, beautifully finished, Hi-Fi World recommended component in '94. This amp has a warm inviting sound, as well as producing a very open and airy sound stage. 10 months old mint condition £550 new. Bargain at £275. John Michell ISO with dedicated power supply, configured to Blue Point Special cartridge but can be easily altered, worth over £600 new, a give away at £400. Tel: Keith 01276 855578

GARRARD 301 (white) excellent £95, Nytech 102/3 active x-over, Cpaboz 60 watt stereo power amp (good) £30 each. Arc 101 active speakers (fair) £25 including stands. Tel: 01371 850665 (evenings)

MUSICAL FIDELITY E100 intergrated amplifier, boxed, mint, with 8 hours use, only £450. No offers, genuine reason for sale. Tel: 01773 606055

MUSICAL FIDELITY P180 power amp c/w power supply (£800 new) Musical Fidelity CRPS (£500 new), excellent sound £600 pair o.n.o. Mint Townshend Rock turntable, Rega arm, plinth lid, mint £375 with free Target audio turntable shelf. Goldring Excel cartridge £550 (new just run in) £100 Tel: Nick 01636 705309 day/evening

AUDION 300B SE monoblocks PP export model, heavily upgraded, super sound £1,600 Tel: 01753 860253 (evenings)

ALBARRY 1008 monoblock 100w power amplifiers, £500. Pristine sound and condition, will demonstrate. Audioquest: Quartz interconnects .5m £40, Video-Z .5m £20, F-14 speaker cable 2 x 7m £25. All hardly used. Tel: 01277 355769 (Essex)

QUAD ESLs pair in gold, excellent condition can be demonstrated £350. Tel: 01630 661497 (Shropshire - evenings and weekends)

NAIM 62/140 amplifier latest spec mint condition boxed can dempnstrate plus 2 x 8m NACA4 speaker cable £650. Various Chord Company interconnects also available Tel: 01277 657964 (Billericay Essex)

LINN AXIS turntable, LVX arm, Linn K9 cartridge, mint condition, boxed £195 or swap for Linn Ittok tone arm. Tel: 01795 421207 (Kent evenings/weekends)

MERIDIAN 500/563 with Siltech HF/6 digital interconnect £1,275; Linn Ekos (1 month old) £875; Linn Arkiv cartridge (500 hrs use) £490; Linn LP12 Lingo Cirkus £750; Lyra Lydian cartridge (500 hrs) £300; Sonus Faber Minima Amators with Target R/2 stands £1,150; Musical Fidelity A1000 amp £875; VdH The First 0.8m £70. All mint condition Tel: 0171 586 2390 eves/weekends

QUAD ESL 63 rosewood, boxed plus Arcici stands £1,200 Tel or Fax: 0181 852 2837

MARANTZ CD-63 mint condition £149. Mordaunt Short MS30s as new £120. Tel: 01403 250570 (W.Sussex evenings and weekends)

ALCHEMIST Kraken pre/power amps (green) with dual p.s.u., mint £450 o.n.o. Linn Nexus speakers (black), Ku-stone stands v.g.c. £250 o.n.o. Tel: Richard 0181 318 7491

LINN MAJIK-I amplifier, with phono module. Now 18 months old, perfect condition with remote control and original packaging. Cost £630 new, will accept £400 o.n.c. Tel: 01628 890858 (daytime)

INTERCONNECT cables all 2 metre pairs and phono plug terminations. Audioquest Ruby £55; Audioquest Quartz £80; M.I.T. Zap 1 £70 Tel: Geoff 01902 632415

LINN ISOBARIKS, walnut, external crossover, panel stands £875; Linn Numerik, smps £750; Linn Klout power amp £1,300; Linn Ekos MkII tonearm £750; Linn Lingo power supply £400. Tel: Peter 01753 866042 after 6pm

LARGE quantity reel to reel 1/4" tapes. Agfa, BASF, Maxell, 18cm and 27cm. All boxed, good condition. Some brand new, others once recorded BBC classical music. Details Tel: 01723 862837 (Scarborough)

WANTED: Tannoy Little Red Monitor; Ortofon SPU Cartridge; Ortofon 12" tonearm, Neuman DST 62 head, Yamaha CT-7000 tuner, Ionovac tweeter. Valves; PX4; PX-25; PP3/250; PPS/400; DA-30 DA-60; STC-4300A; STC-4275A; STC-4212E; Tel: 01435 882702 (9 a.m.-7p.m)

ROTEL 965BX CD player. Little used and in mint condition. Boxed with instruction manual. Amp upgrade forces sale £175 Tel: 01225 864641 (Bath, evenings)

PIONEER CT93 reference cassette deck, Dolby 'S'. almost new £450. Pioneer PD91 reference CD player, cost £800, accept £295. Meridian 263 DAC Delta Sigma £275 Tel: 01869 278249

ART CONCERTO MkII valve amp, switchable pentode triode. Marvellous sound and powerful. Looks the business. Can demonstrate, as new, 18 months old, boxed. £750 Tel: 01763 260946

QUAD IIs rewired with new components by electronics engineer, Golden Dragon KT66s £240 o.n.o. Studio 12 stereo decoder, new, suitable for Leak Troughline etc £20 (includes psu) Tel: 01276 65054

ION FMT-1 tuner, perfect condition, boxed £150 Tel: 0151 342 8463

PAIR OF JBL LX66 speakers with Target stands. Excellent condition, reasonable offers invited. Tel: 01582 696817 eves and/or weekends. (Bedfordshire)

WADIA 3200 transport. Excellent condition £800. Tel: 01604 766124

QUAD ELS electrostatic loudspeakers (bronze grill) in good working condition £275. Can demonstrate Tel: 0181 346 4201 (answerphone, N London)

PINK TRIANGLE LPT GTI, TABRIZ Cornflake table. All boxed £450. Acoustic energy AE2 black, AE2 stands £775. Musical Fidelity P270.2 class A power amplifier, P173 pre amplifier, boxed £1500 Tel: 0121 711 7348

NAIM/LINN buy/sell. 52, CDS, 250, 135, 140, ARO etc. Tel: Bob 0382 819732

THORENS TD166 II, new Neat cartridge £120, Leek 2000 receiver £100, Denon DCD1520 £190 (£550), Ruark Swordsman + Target stands £180. Linn Isobanks DMS, Mahogany £750. All VGC. P/Exchange? Tel: Jim 01206 861457 (Colchester)

LINN LP12 (Valhalla, Nirvana) Ittok and Asaka £550. Hi end cable, Straightwire Maestro 1m pr £120; Base turntable platform £40; Ringmat £20; Uher CRI20 tape recorder £400 Tel: 0181 801 5053

AUDIOLAB 8000A Mk II, 1994 model as new £300; Kelvin Labs Class A intergrated (original model) boxed as new £150; Rotel 855 CD player £100; Thorens TD 160 Super, Hadcock arm £100. Wanted: Goodmans Axioms (301) Tel: 0114 2738153

UNIQUE Audio Technica 1503 MK5 10inch tone arm, only 1 ever made. Mounted on Rivelin Eclipse turntable, inc external psu, Sonic Link Violet leads AT0C9 M/C. Dynamic, uncoloured presentation. £895 Tel: 01429 274638

THORENS TD126 Mk IV, Alphason Xenon arm V.D.H. wired, A.D.C. cartridge £325. Great American Sound Company high output pre-amplifier £135; KEF units 2 x B139, 2 x B110, offers. Sony 30 inputs, comparator unit £100. All o.n.o. Tel: 01837 54683 (after 6.30pm)

LINN LP12, Valhalla. Tramp, Cirkus, Ekos Mk2, brand new LK18. No wasters. £1,250 Tel: 01344 488342 (after 7pm)

REVOX A700-2 immaculate virtually unused condition. Aluminium hubs, remote, manual, best in UK £1,000. Revox A77-3HS suitcase model immaculate £400. Revox A77-3 7 1/2" + 3 3/4" teak, remote, immaculate £375. All twin track. Tel: 0114 275 1377

WANTED: Leak stereofetic tuner, preferably in teak sleeve. Must be in good condition and working order. Tel: Bob 01865 62554 (Oxford)

NEAT PETITE speakers £350. Foundation speaker stands £90. Alphason 4 shelf equipment rack £90. All items in v.g.c. Tel: 01595 694205

PRIVATE

PAIR OF QUAD ESL loudspeakers (bronze) £150. In perfect working order
Tel: 01206 868214

AKG K1000 headphones £190. Custom made Ribbon Hybrid loudspeaker, 110cm true ribbon driver, 4.5ohms, 86dB/W upper mid/treble, better than low cost electrostatics £450
Tel: 01226 242523 (Barnsley)

PAIR VERY RARE Townshend Elite 85watt monoblocks and power supply and matching 600c line/phono pre-amp, recent overhaul, sounds like Naim 32.S/250 but with tighter bass. £500 o.n.o.
Tel: 01322 384074

QUAD 306 power amp, v.g.c., boxed with manual £175. Q.E.D. DAC Digit plus lead and Positron power supply, v.g.c. £75
Tel: 01903 247779

CAMBRIDGE Audio Dacmagic, Theta Timebase Linque conditioner (TLC), 2 AudioQuest Video Z digital cables. All as new, genuine sale, may split, best offer accepted.
Tel: 01509 620814 (Loughborough)

SUGDEN AU51 Class 'A' pre-power amplifier, one year old, superb (£2400) £1,250. Rose valve pre-amp (£500) £225. Genesis turntable and arm (£2000) £750. Musical Fidelity P270 (£1300) £500. Redundancy forces sales
Tel: 01274 545219

AUDIO-TECHNICA headphones, ATH-9000 Electret Condenser, excellent condition. Cost £250, selling for £100. o.n.v.o. Can be sent.
Tel: 01491 825534

TANNOY 15inch DC speakers in solid walnut Lancaster cabinets. £450
Tel: 01643 821137

MUSICAL FIDELITY F.C.D. compact disc player, remote, boxed, 18 months old, mint condition. £975 o.n.o.
Tel: 01752 775887 (evenings after 6pm)

TDL RTL3 SPEAKERS £280. Audio Alchemy Dac-In-The-Box £120, including Digital Interconnect, Trichord Research Clock 2, 16.93 MHz, suitable for Marantz, Arcam etc £50.
Tel: 01325 301997 (Darlington)

WANTED: Good quality moving coil.
WANTED: REL Stadium or Storm.
WANTED: Chord Company Blue Heaven at least 2 x 3m. FOR SALE: EPOS 14 and stands (£700) Bargain £300. Please ring after 3pm Mon-Thur
Tel: 01902 786818 (Wolverhampton Midlands)

MERIDIAN 204 tuner, mint, boxed £220. Naim 2 x 7 metres, Tri-Wire NAC5 speaker cable, fully terminated £95
Tel: 0181 689 6855

WANTED: TANNOY 615 loudspeaker. Will pay around £350 for good condition
Tel: 01582 476779 after 8pm (Dunstable)

QUAD ESLs pair Oatmeal perfect £300. Audio Note Kit 1 300B, silver soldered, ANS silver input, awesome £600. Leak stereo 20 v.g.c. £200. Project 1 turntable, as new £120. Armstrong valve amp 20 wpc £30. Wanted: Quad FM4
Tel: Dave 01892 838532 (Tonbridge)

QUAD ESL-63 speakers, dark brown, excellent condition, genuine reason for sale. £1,000
Tel: 01622 832356 (Marden, Kent)

NAIM 72 £350, Hicap £400, 180 £650, Stax SR Gamma Electrostatic headphones with SRD6/SB energizer (new £350) £175. All items boxed and mint, lovingly cared for.
Tel: 01749 67678

CONOISSEUR SAU2 modern light weight pick-up arms with spare heads. Brand new boxed £25 plus £2 postage. (less than half price)
Tel: 0151 638 4711

EPOS ES14 speakers £380. Nyrtech 102 pre-amp/tuner, plus two 602 power amps (for active of bi-wire system) £450. WANTED: Bose A/Mass AM5 speakers
TEL: 01934 038881 (nr Bristol)

LINN SARA 9s, black Ash, stands, bi-wire LK20 cable, 5 years old, excellent condition £400
Tel: 01952 255281 (Telford)

AUDIO RESEARCH SP14 pre-amp mint condition inc box £1,200. Classic Rappaport pre I pre amp phono stage dodgy £60, Linn with Basic arm & cartridge £200
Tel: 01279 718325

NAIM system all mint. NAC 52 £3,950; NAP 250 £995; NAIM SBL £1,350. All latest spec.
Tel: George 0181 245 7911 (N.London)

SONIC FRONTIERS SFS-50 power amp, Gold Aero Tubes/Coolers (£600) Spare brand new tubes immaculate £1,250. Quad II valve power amps single ended chromed and sprayed crimson. Stunning, £400. Ion MA40 power amps (£1200) £350. May p/x quality speakers. Buyer collects
Tel: 01386 446756

WANTED: Krell KRC2 pre-amplifier with or without phono. FOR SALE: Target Five shelf equipment stand £100. Forty metres various lengths Talk 3 speaker cable £40. 16 Michell gold plated speaker terminals £25.
Tel: 01797 253073

ARC SPEAKERS made by Shahinian Acoustics Ltd. Semi omni directional, passive bass radiators, 3 active drive units (+p.b.r.) Dimensions 35 x 69 x 25 (cm) Retail: £1,675. Asking: £900 o.n.o.
Tel: Nick 0141 334 0480

SOUNDSTYLE 3 leg, 4 shelf rack with glass shelves and matching turntable isolation shelf in green. £130. My new amplifier will not fit!
Tel: 01924 279281

AUDIO INNOVATIONS 500 amp, triode coupled, recent Mullards, mint, £599 o.n.v.o. Snell 'K' speakers, black Ash, welded stands, Mint £375 o.n.v.o. Pile of quality vinyl.
Tel: 0115 928 6710

MISSION CYRUS 782 black Ash speakers with dedicated stands. Mint condition virtually unused, boxed. £290 o.n.o.
Tel: 01707 322962 (Welwyn Garden City)

LINN/AUDIO INNOVATIONS. Sondek, Basik +, AT95 (boxed) £250. Audio Innovations 500 intergrated valve amp, triode wired, recently checked by A.I. £450. Auditionable (Gatwick area)
Tel: 01293 884139

KEF Q30 speakers, Audiolab 8000A amp, Arcam Alpha 5 plus CD, interconnect and speaker/cable. All items new Feb c/w 2 year guarantee in excellent condition. £995. Will separate.
Tel: Paul 0115 9817814/9810236 (work)

LEAK TL12 + monoblocks, black, immaculate with pre-amp £325. Quad 2 valve monoblocks, stereo tuner and 22 pre-amp, handbooks. £300. Black Electrostatics £300. Pair Lowther Acoustics, new PM6 drivers £285 o.n.o. Audio Innovations S500 Intergrated amp £475. Leak Troughline £60
Tel: 01245 381961

MERIDIAN 601 DSP pre-amp. Meridian 602 transport CD. Meridian 605 mono amps. All mint condition with remote. £3,500 the lot
Tel: 01527 543442

MORDAUNT-SHORT Decoder One £150. Sequence 20 loudspeakers £125, both latest spec, boxed and as new.
Tel: 01384 424331

TANNOY Berkeley 15" D.C. type H.P.D. 385A £250 o.n.o.
Tel: 01904 626915 (York)

D.P.A. 2005 Pre-power amplifier, eight months old £870. Naim A5 cable four 5m lengths (bi-wired) £35
Tel: 0161 437 5819

868 HI-FI MAGS £40. Buyer collects, includes H.F.A. & Audiophile 200 in sequence Popular Hi-Fi & Hi-Fi Sound-Fidelity 179; Hi-Fi N & R 166; What Hi-Fi 96; various others.
Tel: 0161 225 6786

DYNACO USA Original classic valve pre-amp £175. PAT 4 transistor pre-amp £95. FM3 transistor tuner £95. Rogers Cadet III int. valve amp £95. All excellent condition
Tel: 01372 467264 (Esher)

LINN PRETEK/POWERTEK/POWVERTEK £620; 'Origin live 'OL2' speakers £420; Kenwood DPX 9010 (new laser) Microdac £500. Prices include interconnects/cables. Accept £1,450 the lot. Excellent condition
Tel: 01703 327906 (Southampton)

WANTED: Any good Class 'A' amplifier transistor, Sugden, Magnum etc. Have valves or items to part ex. Also wanted floor standing speaker wood finish.
Tel: 01626 774 246

NAIM 72 Pre/Hi-Cap (new style) mint £750. Leak stereo 20, excellent, original £195. Leak Troughline stereo, excellent original, box & manual £160. WANTED: Sonab speakers, preferably OA12 or OA14.
Tel: 01474 708631 (nr Dartford)

MICROMEGA CD3 transport, clock two modifications by Trichord Research with BNC output. Excellent condition £700. DNM 3B (6) pre amp recently serviced by DNM £1200.
Tel: 01208 872316 (Cornwall)

TANDBERG TCD 330 cassette deck. Tandberg TR 2075 Mk II am/fm stereo amplifier. Pair Tandberg studio monitors. All can be seen working, all in excellent condition. o.i.r.o. £1,000
Tel: 01453 542870

GRANT LUMLEY GL50A valve power amplifier, recently serviced, fitted with a new set of Groove Tubes, superb sound £450
Tel: 01978 780580

SONY CD player 337 ESD, £265; Arcam Black Box £135; SD Acoustics OBS loudspeakers £450; Sony CD 101 original machine, offers. All equipment boxed and as new.
Tel: 01922 56160 or 0585 649791

AUDIO PRO B1-45 subwoofer for sale, slightly modified for better performance. £300 o.n.o.
Tel: Stockton-on-Tees 559078

LINN AXIS/AKITO/K9 plus extras. Boxed. Mint. £225. Sony MDR CD350 'best buy' headphones. Barely used. £15. Proton 420 tuner. £35. AR turntable, needs attention £20. WANTED: Pink Triangle turntable.
Tel: 01772 791147 (Lancs)

WANTED: SANSUI TUD99X tuner. Also Sansui SE88 or SE99. Must be in mint condition and perfect working order. Will pay postage. FOR SALE: Sony 770ES tuner £175
Tel: Colin 01382 779295

HEAVY DUTY 4 shelf equipment stand, plus dedicated CD-turntable support, fully welded £150.
Tel: 0115 9463693 eves (Nottingham)

LINN SONDEK LP12 turntable, black Ash, Akito arm, K9 cartridge, 12 months old, excellent condition with boxes and receipts. £500 o.n.o.
Tel: 01474 813047 (after 6pm)

EXPOSURE VII pre-amp and VI power supply £225.
Tel: 01403 241304 eves & weekends (Horsham)

GRADO SIGNATURE junior cartridge, new £100. Rogers BBC LS3/6 loudspeakers and stands, refurbished £200. Audio Technica electronic stylus cleaner £10. Robertson 4010 amplifier £425
Tel: 01603 714528. anytime before 9pm

SUGDEN floor standing speakers £300. John Shearne Phase II intergrated £350. Rotel RB990 BX power £300. Chord 1200 power. Stunning £1,700.
WANTED: Lift jumbo CD trays.
Tel: 01226 710605 (S. Yorkshire)

PINK TRIANGLE Ordinal DAC. As new mint condition, boxed £495 o.n.o. Denon DCD 3300 CD player. Flagship model (£1200 new) £250.
Tel: 01634 387686 (Kent)

NAIM NAP 140 power amp, old style v.g.c. boxed £290. Meridian 206B CD with Tricord clock II mod. As new, boxed £480.
Tel: Dave 01703 220251 daytime.

QUAD 66 FM tuner with remote control panel, mint, boxed with manual. £360 o.n.o. Linn Axis/Akito/K5 turntable, mint, boxed with manual and parts warranty. £260 o.n.o. Both little used.
Tel: 01208 813613

SERIOUS KIT

21, ALGERNON ST., MONTON, ECCLES,
MANCHESTER, M30 9QA.
0161-707 4823

X-DEM & USED SUMMER SALE BARGINS AFFORDABLE HI-END

1 pr ACOUSTAT 2-2 ELECTROSTATICS	£2200.00 ono
1 pr APOGEE DUETTA (GREY)	£1,000.00 ono
1 pr MAGNEPAN 1.4 (WHITE)	£750.00
1 pr HEYBROOK QUARTET	£400.00
1 pr KRELL KRS 200 MONOS (£18000)	£7,000.00
1X GRYPHON XTC preamplifier halfprice	£3,200.00
1X KRELL KSA 50 's'	£2,850.00
1X CONRAD JOHNSON PREMIERE 7B	£8,000.00 ono
1x JADIS DEFY 7	£3,700.00
1X CHORD SPM1200	£2,200.00 ono
1pr AUDIO INNOVATIONS 1000 silver mono	£1,700.00 new
1pr AUDIO INNOVATIONS 2ND TRIODES	£2,000.00
1X AUDIO INNOVATIONS 1ST AUDIO TRIODE	£1,200.00 new
1pr IMPULSE H7	£600.00
1X COPLAND LSA 14	£850.00
1X MICHELL ARGO Pre-amp	£600.00
1X KINSHAW PERCEPTION PHONO-STAGE	£475.00
SUGDEN A25B, A28, A48 FROM	£199.00
1pr MARTIN LOGAN AERIUS	£1,650.00

N.B. All products are in very good i.e. new condition, unless otherwise stated.

IAN HARRISON HI-FI TEL: 01283 702875
9am- 9pm

CARTRIDGES		
ORTOFON AUDIO TECHNICA DENON TRANSFIGURATION BENZ MICRO SHURE GOLDRING	***TRADE IN YOUR OLD MOVING COIL CARTRIDGE (ANY AGE MAKE OR CONDITION) AND SAVE UP TO 40% OFF THE NORMAL SELLING PRICE	TRANSFORMERS & PHONO STAGES ORTOFON KINSHAW SOWTER EXPRESSIVE TECHNOLOGIES
CD PLAYERS	CASSETTE DECKS	TUNERS
TEAC, SONY MARANTZ	AIWA, TEAC, NAKAMICHI, SONY, MARANTZ	QUAD, MARANTZ, SONY, DENON
AMPLIFIERS	HI-FI FURNITURE	CABLES
QUAD, CONRAD JOHNSON, MUSE, MARANTZ, SONY, TECHNICS, TEAC	SOUND ORGANISATION, APOLLO, SOUND FACTORY TRIPOD, SOUNDSTYLE, PROJECT	AUDIOQUEST, COGAN HALL SONIC LINK, SILVER SOUNDS, QED GOLDRING
BLANK TAPES	HEADPHONES	ACCESSORIES
TDK, MAXELL, SONY BASF, FUJI, AMPEX, SCOTCH, JVC, KONICA	SENNHEISER, BEYER, AKG, KOSS	QED, DISCWASHER, GOLDRING

MAIL ORDER ONLY
PLEASE PHONE TO CONFIRM PRICE AND AVAILABILITY
PRIOR TO ORDERING. ALL GOODS ARE BRAND NEW WITH
FULL UK GUARANTEES.

GOODS ARE NOT SUPPLIED ON APPROVAL.
MAIL ORDER FROM: IAN HARRISON HI FI, 7 MILL HILL, REPTON,
DERBY, DE65 6GQ.

TEL: 01283 702875 9am-9pm. Inc. Sunday



V'audio

Hi-Fi Consultants

Ian C. Vaudin
36 Druid Hill, Stoke Bishop,
Bristol BS9 1EJ
Tel/Fax: Bristol
(0117) 9686005

(a) Speakers II

Last month we wrote at length about the Alon speakers from the States. What we did not have space to mention is that it is no good attempting to drive speakers such as these, or most of the other speakers we stock (such as ATC, Ruark, Heybrook, Opera etc.) with a low powered amplifier. In some cases you might get by with a 50 Watter, if it has a strong bass, such as the Shearne Phase II, or has a large current delivery as in the case of the new Electrocompaniet ECI-2. But to be safe, aim for a minimum of 100 watts and you can drive most speakers with safety. Don't forget that you are more likely to damage a speaker by using a low powered amplifier and hence sending it into clipping.

Even speakers that we would normally consider as efficient, such as Klipsch and triangle (91/92db), really do benefit from a powerful amplifier. The Klipsch Forte for example, loves the AVI integrated, as does the Triangle Zeph'r, while the Comet TZe loves the 150 watt Heybrook signature.

(b) Amplifiers

So you want a 100 watt amplifier? If you can bi-wire and therefore bi-amp your speakers, we can cheat slightly and recommend one of the integrated amplifiers, such as the Shearne Phase 2 and Heybrook Integra, which have pre-amp outputs to enable the addition of a matching power amp, such as the Shearne Phase 3, or the Heybrook TEG/7D. Alternatively, you can for less money have the superb remotely controlled AVI Integrated which provides 100 watts, from a tiny little box. Then we have the Electrocompaniet ECI-1, which will deliver 80 amps of current in addition to 100 watts. If you want Monoblocs then the Electrocompaniet can provide them, but at £4200 per pair for 180 watts, while AVI can provide you with 150 watts for £1100. You can go for either the Electrocompaniet AW250 at £3600, or the chord 1200B at £3800. If you want valves we have those as well. We don't know a speaker we can't drive. Do ring us for a chat.

PRIVATE

TEAC VRDS-7 CD player. Excellent condition. One year old. Boxed with manual and remote. (£600 new) £375 o.n.o.
Tel: 0181 647 0410

REGA RB 300 tonearm nearly new, boxed £95. LPI2 arm board (Rega mount) £10. Rega Super Bias cartridge nearly new £25. Technics ST-Z15L stereo tuner mint boxed £35.
Tel: 01254 883030

AMPLIFIER 2 x VTL 30/30 valve power amps £400 each. 1 VTL pre-amp £350. If sold together £900. Can demonstrate.
Tel: 0181 683 0507 after 6pm (Croydon)

AUDIO INNOVATIONS Series 500, new valves £480. Rotel RCD-965 BX LE with remote and Monster interconnects. £220. Rega ELA speakers £240
Tel: 01525 374652 eves (Beds)

EXPOSURE 15 intergrated amplifier with moving coil phono board. Good condition. Can demonstrate. £250. 2 x 5m Cable Talk 3 bi-wire loudspeaker cable £15
Tel: 01942 272187 evenings (Wigan)

FOR SALE: NAIM SBLs new factory fitted drive units £950, Naim NAP 250 old style recent overhaul £750, Naim Naxo 2-4 (SBL) new style. £385, Linn Helix £300. All in mint condition.
Tel: Paul 01924 274887 day, 01924 271043 evenings

WANTED: NAIM 6 pack 135s or pairs (old style), Hi-cap, CDS, CDI, Linn CD, or complete system, 70s, 80s, 90s rock LPs etc. Complete collection considered. Cash waiting, can collect, meet 1/2 way?
Tel: Paul 01924 274887 day, 01924 271043 evenings

AUDIOLAB 8000C/P £550; Quad FM4 £200, all excellent. Celestion 44 monitors £75. Nytech CTA 252, Rogers Ravensbourne amplifier and FM tuner in teak cases. Offers for these please.
Tel: 01179 247478

ROBERTSON Audio 4010 power amplifier, Krell standard sound at reasonable price. Very rare, excellent condition, unmarked with box. £620 o.v.n.o.
Tel: 0181 8781127

ENTHUSIASTS clear out: Aura CD-50 CD player £200 o.n.o.; Tannoy 609 II speakers £200 o.n.o.; Celestion DL3 II speakers £75 o.n.o.; JPW Sonata speakers £50 o.n.o.
Tel: 01202 475781

YAMAHA CT7000 FM/stereo tuner, working order, needs some attention. Service manual etc included. Pair Spondor SA1 mini monitor speakers, very good condition, perfect working order. Offers invited.
Tel: 01723 862837 (Scarborough)

MERIDIAN 500 series system; 506 CD player, 552 intergrated amplifier and A500 loudspeakers. Brand new, genuine reason for sale. New price £2,500, will accept £1,650. Will consider separating.
Tel: 01453 750162 (Gloucestershire)

MERIDIAN 203 DAC, acclaimed DAC-7 model £215.
Tel: 01932 782381 (Sunbury on Thames)

WANTED: Naim NAP 160 power amp (old style). Must be good condition. FOR SALE: Naim NAP 110 power amp v.g.c.
Tel: 01294 217323

NAIM NAC 32-5/NAP140 1988, MM/MC boards, variable aux, boxed £575. Rogers R50 kit transmission line loudspeakers £50.
Tel: 01508 570354 (Norfolk)

QUAD 67 CD player, 66 tuner, 66 pre amplifier and 606-2 power amplifier (one year old) £1,950 o.n.o. Spondor BBC1s (new drivers etc) and Foundation stands £295 o.n.o. Triangle floor standing speakers £250 o.n.o. Nakamichi 682ZX cassette deck £500 o.n.o. Revox tape deck and various cables.
Tel: 01292 441544

NAD 402 tuner, 12 months old, little used, perfect, £115 for quick sale.
Tel: 01530 831357 (Leicestershire)

ARCAM TWO PLUS speakers, black Ash, boxed, can demonstrate £120 o.n.o.
Tel: 0181 443 2891 after 6.30pm

QUAD FM4 tuner, grey £265. Quad 606 power amp £400. Both as new.
Tel: 01767 631268 evenings only

ALPHASON HR-100-MCS Vdh wired. Boxed with instructions, v.g.c. £230. Gyrodec power supply £55.
Tel: 0181 299 0075 eves & w/end

LINN HIFI FOR SALE: Final advert. Everything goes to highest bids by 31/10/95. Kairn (6/94 MM/MC. brilliant) £880; LPI2 (5/94. black. Cirkus, Valhalla) £480 o.n.o.; Ekos (5/94) £780 o.n.o.; Klyde (5/94) £180; Kabers (10/93, black polymer stand) £780 o.n.o. Make me an offer - you might be lucky!
Tel: 01922 640737

BILL BEARD BB100 Mk2 intergrated amplifier, 50wpc, huge chrome, 18 valves on display, gorgeous looks and sound. £650. Audioquest 4 multistrand cable 2 x 6m £20, 2 x 4m £15.
Tel: 01480 460502 (Cambridge area)

AUDIO RESEARCH SPI4 pre-amplifier, excellent phono stage £1,300 o.n.o.; Arcici stands for Quad ESL 63s with super spikes, new and unused £180.
Tel: 01865 63160 (Oxford)

QUAD Pair 22s, pair IIs, pair FM2s with GEC KT66 and original manuals, in good working order sound wonderful £350
Tel: 01981 250605 (Hereford)

SONUS FABER ELECTA, mint £1,100, Exposure 6, 7, Super 8, rrp £1400, sale £800; Meridian CD transport DAC 200 + 203, absolutely mint, £800, fantastic sound, can demonstrate, upgrading.
Tel: 0171 7005420

NAIM NAP82 as new £1,450, Naim IBL speakers black unmarked £525, Roksan Xerses walnut Artemiz PSU2 table. Shiraz 2 year old £825. Ion active system SPI pre-amp 3 x pack 2 power supplies. 2 SAM40 active boards, JCI speakers, Foundation stands, Isoda interconnect, excellent condition £650 o.n.o.
Tel: 01743 232959 day 01743 821298 eves

AMC CD player CD06 £280 brand new. AT-0C9 cartridges brand new £180. Quad 34-606 mint condition £680. Heybrook HBI MkIII mint condition. 2 year guarantee £180.
Tel: Jules 01792 280061

ROTEL RC970 BX II pre RB 970 BX II power amplifier £300 the pair. RB 970 BX phono unit £100. Absolutely as new. 10 hours use. Boxed.
Tel: Adrian 01 444 441266/413782

LINN KARIK CD player £1050. Numerik DAC £700. Kairn pre-amp £900. Linn Axis turntable, Basik plus arm, K9 cartridge £300.
Tel: 01344 27914 (East Berks)

PAIR of original Quad Electrostatic speakers, bronze. Can demonstrate. No Quad boxes so buyer must collect £255 offers
Tel: 01983 755205 (Isle of Wight)

NAIM HI-CAP new style case £300. Mana Sound table £100, Mana three tier equipment stand £200.
Tel: 01509 215622 (Loughborough)

ARCAM 290 int amp £310, Arcam 290 power amp £285, Mission 751 speakers, rosewood and deflex panels £165. All v.g.c. includes postage.
Tel: 01534 66238

BEARD P100 Mk II power amplifier, just serviced, new valves £500. Revox A77 Mk III high speed two track recent £380 service. Bargain £400. Pair KEF B139s £95. Pair Decca London Ribbon tweeters £150. Acoustic Research AR3A improved speakers with stands. £250.
Tel: 01403 251587

I PAIR of McIntosh MC30 valve mono blocks in excellent original condition complete with original RCA 1614 valves. £2,000.
Tel: Andy Davies 01222 493528 after 6pm

B+W 804 (Matrix) loudspeakers, rosewood £625. Meridian 605 monobloc power amplifiers £1,350. FM aerial, 17 element, Ron Smith Galaxie £35. Revox G36 2 track £145.
Tel: 01892 536919 (W.Kent)

LINN KEILIDH black Ash loudspeakers and stands £495, Optilink Z digital connecting cable for CDs, DACs etc £25. 5 metre Scart to Scart cable £15.
Tel: 01423 528256

SONUS FABER Minuetto, mint condition, 10 months old, complete with SE24 Atacama sand filled stands, boxes and owners manual. £800 o.n.o.
Tel: 01792 798253 eves 01792 464123 daytime (Swansea)

RARE OPPORTUNITY, Audiomaster 520 monoblocks, pair, Partridge transformer version, sympathetically rebuilt, original paint lightly distressed, Hayden raves about them!. Single ended project forces sale £625 o.v.n.o. No dreamers please.
Tel: 01707 328515

QUAD ESL57s black £250. Sony Elcaset EL7 plus 25 tapes. (New tapes still available from Manchester record dealer) Two original hardback manuals for Garrard 301-401 £20 each.
Tel: 01203 469363 (Coventry)

MERIDIAN 551 intergrated amplifier as new and boxed £495.
Tel: 0121 705 6980

NAIM NAT-02 tuner, recent, perfect condition £600
Tel: 01964 622725

KEF 105 SERIES II speakers £400 (little used and boxed) Quad FM4 tuner £200. Both in mint condition.
Tel: 01384 392009 (West Midlands)

EMT 930 turntable mo with 155 pre-amp and tonearm. Good working order and fair condition £750 o.n.o. plus carriage ex Dublin.
Tel: 00 3531 4591432

LINN SYSTEM: Mimik CD player, Majik amp, Keilidhs (walnut), Basik/Akito/K5 turntable. New boxed. Unwanted prize. Value £2,400. Offers around £1,800
Tel: 0181 671 6220

QUAD 22+2 x II £350; Quad AM3 £150; Quad 44/405 £275; Quad 44/405-2/FM4 £525; Garrard 401/3009 £150, Revox F36 2 track £150; Thorens TD135 £120; S.M.E. 3009-II £50; Kelly ribbons-x/overs £100.
Tel: 01428 651554

VOYD 0.5 reference (rosewood) t/table £1,000; Pad support stand £250; SME V silver wired internal & 1.5 mtr interconnect £1,000. All mint condition.
Tel: B. Gowan 00 352 292357, 00 352 408110 (ans/fax, 0156 4779034 (message only)

NOTTINGHAM ANALOGUE Hyperspace turntable c/w arm and cartridge £1,150. Croft 'Epoch' silver wired pre-amp £375. Croft series 4SA power amp £400. Spondor SP2/3 c/w MAF stands £675.
Tel: 01384 444517

LEAK SANDWICH speakers £75. Celestion Ditton 15XR speakers £70. JVC JR-S300 receiver, gargantuan £90. JVC JL-F45 record deck, exceptional build quality £75. All boxed and absolutely immaculate.
Tel: 01245 494885

GYRODEC IN BRONZE with Rega arm, immaculate; less than 25 hours use, latest spec £650.
Tel: 01276 858481 or 01753 857530 (Surrey/Berks)

TRADE

SEND/PHONE/FAX for bargain list of mint/sealed hi-fi vinyl inc. MFSL Jazz, Rock & much more.
Fine Line Tel/Fax: 01734 892619
PO Box 181, Wokingham, Berks, RG41 1NU.

IKON 5+5SEI new single ended intergrated amplifier from only £395 and over 5 watts per channel. Vintage Radio Restoration.
Tel: Richard or David 01903 501158

QUALITY HAND MADE CHASSIS BLANKS in steel or aluminium. For a free quote send external dimensions and a stamped s.a.e. to: A.O.S., 294 Hungerford Road, Crewe, Cheshire, CW1 1HG



HIGH END AUDIO BOUGHT/SOLD EXCHANGED

	SALE		LIST
MARK LEVINSON ML7A PREAMP - MINT	2995	S/HAND	£6800
CAMBRIDGE CD1 CD PLAYER HEAVILY MODIFIED WITH MASSIVE POWER SUPPLY SUPERB	£1,295	S/HAND	PHONE
METAXIUS ICARUS INTEGRATED AMPLIFIER CHROME - MINT	£595	EX/DEMO	£895
PINK TRIANGLE PIP 2 MK2 VISHAY MODIFIED PREAMP - MINT	£1,795	S/HAND	£4,500
MARK LEVINSON ML13 POWER AMP - MINT	£3,995	S/HAND	£8,250
CONRAD JOHNSON MV75 VALUE POWER AMP - MINT	£1,295	S/HAND	£2,500
CEL LTD AMATI SPEAKERS TWIN MOUNTED PAIR IN OAK ON GRANITE STANDS SUPERB V.G.C	£5,500	S/HAND	£20,000
MERIDIAN ARGENT 3 SPEAKERS ROSEWOOD - MINT	£995	NEW	£1,495
PRODAC PROSTATIC ELECTROSTATIC SPEAKERS RARE V.G.C.	£1,995	S/HAND	PHONE
SNELL A3 SPEAKERS WALNUT V.G.C	£4,495	S/HAND	£6,995
METAXIUS IRAKLUS MK2 POWER AMP CHROME - MINT	£895	EX/DEMO	£1,500
AUDIO RESEARCH D125 KT50 VALVES AMP - MINT	£2,250	S/HAND	£4,650
METAXIUS CHARISMA PREAMP CHROME - MINT	£895	EX/DEMO	£1,500
EQUATION ZERO SPEAKERS PIANO BLACK - MINT	£695	S/HAND	£1,300
CARY 300B VALVE MONO POWER AMPS 40 WATT TRIODE	£2,995	EX/DEMO	£4,800
HELVIS CYALENE ARM - MINT	£795	S/HAND	£1,400
CARSON IROISE MC SPEAKERS CHERRYWOOD - MINT	£1,995	EX/DEMO	£2,700
NEW IN THIS MONTH			
RETIK CHALLENGER INTERGRATED AMP - MINT NEW	£799		
G.J PREMIER 4 POWER AMP			
MICROMEGA TRIO CD PLAYER - MINT	£2495	S/HAND	£4499
KLIPSCH SA PREAMP - MINT	£1495	S/HAND	£2750
CITATION 18 TUNER ORIGINAL AMERICAN V.G.C	£295	S/HAND	£650
SUBTWIN AU51C PREAMP 2 BOC MODIFIED BY AVONDALE V.G.C	£895	S/HAND	£1800
SPICA 3000B VACUUM PLATTER - MINT	£1995	S/HAND	£4400
CHRYSLER HEIFENCE TURNTABLE (WALL MOUNT)	£1495	S/HAND	£2500
NAKAMIC 4 CHMS 7E CD PLAYER VGC	£795	S/HAND	£1500
GRIFFIN LTD EDITION PREAMP BALANCED - MINT	£3995	S/HAND	£8000
SNELL TYPE C SPEAKERS WALNUT - MINT	£1295	S/HAND	£2550
CRYSTAL SIGNATURE TABLE TOP TURNTABLE BRUAR 8 ARM	£2995	S/H	£6450
SONIC FRONTIER SFD 2 DAC BALANCED - MINT	£2995	S/H	£4700
ROWLAND MDD15 POWER AMP BALANCED - MINT	£2750	S/H	£5250
MERIDIAN 606 DAC 7 MK2 DAC - MINT	£795	E/D	£1450
AUDIO RESEARCH V70 HYBRID VALUE AMP - MINT	£2495	S/H	£4480
ONIX TUNER - MINT	£225	S/H	£400
ARAGON 2004 POWER AMP - MINT	£695	S/H	£1295
ARAGON 4004 POWER AMP - MINT	£895	S/H	£1895
QUAD 606 POWER AMP - MINT	£475	S/H	£675
DYNAUDIO SPECIAL ONES SPEAKERS ROSEWOOD - MINT	£795	E/D	£1249
AUDIO RESEARCH LS2B BALANCED PREAMP MINT	£1995	S/H	£3355
MERIDIAN 606 MONO POWER AMPS BALANCED MINT	£1550	E/D	£1900
REVOK B77 71/4 & 18IPS 1/2 TRACK MINT	£895	S/HAND	£2000
QUAD FMA TUNER MINT	£275	S/HAND	£434
KLIPSCH REFERENCE PREAMP BALANCED MINT	£4995	S/HAND	£11650
AVI 2000MA POWER AMP MINT	£395	E/D	£600
GOLDMUND MIMESIS 3 POWER AMP BALANCED MINT	£1995	S/HAND	£5000
TANDEM RG TPA 2003A MU2 MONO POWER AMP MINT	£10355	S/HAND	£2195
MERIDIAN M60 ACTIVE SPEAKERS WALNUT MINT	£1395	E/D	£1995
WILSON WATT 3 PUPPY2 & PAWS MINT	£7495	S/HAND	£13645
MAGNUM DYNALAB ETUDE TUNER GOLD MINT	£995	E/D	£1350
MERIDIAN 506 CD PLAYER MINT	£680	E/D	£875
MIC HULL ARGO HR PREAMP LATEST MINT	£995	S/H	£1340
CHRYSLER H060 INTERGRATED AMP MINT	£275	S/H	£500
MARK LEVINSON ML12A PREAMP PLS 124 SUPPLY	£995	S/H	£2400
CAT SI 1 SIGNATURE PREAMP & PHONO MINT	£2995	S/H	£6080
PS AUDIO 4 PREAMP & SUPPLY V.G.C	£295	S/H	£850
EXPOSURE 7 PREAMP PRO SUPPLY 4 REG AMP MINT	£1250	S/H	£2750
NAD 314 POWER AMPS LATEST 2 AVAILABLE MINT	£295	S/H	£370
MARK LEVINSON ML II POWER AMP MINT	£995	S/H	£2700
LUMLEY REFERENCE M120 VALVE MONOS MINT	£1795	E/D	£3200
MERIDIAN A500 SPEAKERS BLACK ASH MINT	£450	E/D	£695
SONY X37 CD PLAYER MINT	£295	S/H	£300
MERIDIAN 204 TUNER MINT	£275	E/D	£560
ARGAM 270 CD PLAYER MINT	£495	S/H	£800
PINK TRIANGLE ORDINAL DAC VARIOUS CHIPS	£595	E/D	£900
GRYPHON BEL CANTO PREAMP LATEST MINT	£2495	S/H	£3500
GRYPHON S100 POWER AMP BALANCED MINT	£3995	S/H	£5975
JADIS DEFY 7 MK8 VALVE POWER AMP MINT	£3495	S/H	£5280
KF 102 2 SPEAKERS ROSEWOOD + KUBE + STANDS	£595	S/H	£1150
APOCEE STAGE SPEAKERS + STANDS MINT	£1695	S/H	£3454
AQUATIC ENERGY AE3 SPEAKERS + STANDS MINT	£995	E/D	£2075
MERIDIAN 207 PRO MK2 CD PLAYER PREAMP MINT	£395	S/H	£1050
CONTRAPUNT SA 3000 VALVE PREAMP MINT	£995	S/H	£2169
AVI PREAMP PHONO STAGE REMOTE PAIR MONO AMPS	£1395	S/H	£2148
MARK LEVINSON ML10A PREAMP MINT	£1395	S/H	£3980
ADCOM GFA 555 MONO AMPS BALANCED VGC	£1250	S/H	£2000
KEBELL KMA 100 MK2 MONO POWER AMPS MINT	£2250	S/H	£5996
MERIDIAN D800B ACTIVE SPEAKERS BLACK MINT	£1795	E/D	£2995
MUSE ACTIVE SUBWOOFER MODEL 18 WALNUT MINT	£1995	S/H	£4000
WHARFEDALE OPTION 1 4 WAY ACTIVE SPEAKERS GREY & WHITE			
1 OF ONLY 5 PAIRS SUPERB VGC	£1995	S/H	PHONE
CARVER AMAZING SPEAKERS PIANO BLACK VGC	£895	S/H	£2300
CELESTION SL600 SI SL6000 SUBWOOFER	£1295	S/H	£2400
MARTIN LOGAN AERIUS SPEAKERS BWMIRE BLACK MINT	£1595	S/H	£2488
SALE			
SOTA STAR SAPHIRE 3 TURNTABLE - MINT	995	E/D	2500
MARK LEVINSON ML7 PREAMP - MINT	1995	S/H	5800
NRG A401M MONO 400W CLASS A AMPS BAL. - MINT	3995	S/H	13000
NRG A201S STEREO AMP 200W CLASS A - MINT	2995	S/H	6600
DUNTECH CROWN PRINCE SPEAKERS BLACK VGC	2995	S/H	8500
DIAMOND ACOUSTIC REF2 SPEAKERS OAK & STANDS - MINT	795	S/H	2250
AUDIO PLAN KONTRAST 2 SPEAKERS ROSEWOOD - MINT	1295	S/H	2800
SUMO ARIA PANEL SPEAKERS OAK VGC	795	S/H	3000
GENESIS R100 SPEAKERS & STANDS PIANO BLACK - MINT	995	E/D	1895
MERIDIAN 204 TUNER - MINT	£495	E/D	£885
BURMEISTER 838 PHONO STAGE BALANCED - MINT	£495	S/H	£1500
CAL TEMPEST 2 VALVE CD PLAYER	£1595	S/H	£3900
PHILIPS BLACK TULIP TUNER AM FM - MINT	£250	S/H	£560
AUDIO RESEARCH SP14 PREAMP BLACK - MINT	£1795	S/H	£3900
BRYSTON 12B PREAMP BALANCED OUTPUT - MINT	£695	S/H	£1295
CLASSE AUDIO DR15 POWER AMP BALANCED - MINT	£1895	S/H	£3400
APOCEE MINI GRAND GS SPEAKERS PIANO BLK - MINT	£4995	S/H	£8598
DYNAUDIO KRAFT SPEAKERS & STANDS V.G.C.	£1295	S/H	£2720
RESTEK EXPONENTS MONO POWER AMPS GERMANY'S REFERENCE			
MPS CHROME 1800WPC BARGAIN BALANCED - MINT	£5495	E/D	£12000
VESTROVAC A1 VALVE MONO AMPS BALANCED - MINT	£1595	S/H	£6600
MARK LEVINSON ML2 REFERENCE MONO AMPS	£3750	S/H	£15000
DYNAUDIO CONSEQUENCE MK2 SPEAKERS FINISHED IN CHERRYWOOD			
LOOKS & PERFORMANCE	£9250	E/D	£15275
SONUS FABER EXTRAS & STANDS WALNUT MINT	£4495	S/HAND	£6900
CONRAD JOHNSON SYTHESIS REFERENCE 4 TOWER SPEAKERS SYSTEM FINISHED IN OAK	£2995	S/HAND	£8000

"ODDLES OF HIGH END CARTRIDGES AVAILABLE RING FOR DETAILS" MANY MORE ITEMS IN STOCK, EFFICIENT SERVICE DEPARTMENT. WE ARE LOCATED IN WELWYN, HERTS ALL ITEMS GUARANTEED - ALL MAJOR CREDIT CARDS ACCEPTED RING FOR DETAILS AND DEMONSTRATION 01438 714038 10.00 AM - 7.00 PM MON - SAT 10.00 AM - 1.00 PM SUN Mobile Tel. 0831 250985



THE INNOVATIVE
AUDIO/VISUAL
HI-FI RETAILER
SERVING LONDON
FROM BATTERSEA

ORANGES & LEMONS

Juicy fruit from London's newest, freshest hi-fi/home cinema retailer. Telephone for demonstrations or just pop in. All the usual, i.e friendly and efficient service, free home installation + credit cards, **0% credit finance available.**

CABLETALK, CHORD CO, DENON, EPOS, MICROMEGA, NAD, NAIM, QUAD, REGA, ROKSAN, ROTEL, ROYD, RUARK, SOUNDSTYLE, STANDS UNIQUE, with more to come.

THE INNOVATIVE
AUDIO RETAILER

0171 - 924 2040

61/63 WEBBS ROAD, SW11

AUDIO ENGINEERING

Our "type 15" is a medium-priced high performance 6 kilo single-ended output transformer, as used on our "musician" amplifier.

But with a series /parallel primary section, user set for a 300B or EL34/KT88/6550 output valve to match a 8 ohm load at 2500/3000 ohm to 8 ohm. With 130 milliamps DC. flowing through the primary the frequency response is level from well below 15 hz. to above 40 khz., with or without feedback. Thus allowing the accurate reproduction of large scale orchestral works with a large dynamic range.

The "type 15" has been used successfully as a replacement upgrade for various commercial amplifiers, and is now available for home constructors wishing to build their own amplifiers.

They are handwound in matched pairs, tested and guaranteed for one year. Priced at £180.00 per pair including carriage, insurance and VAT.

Also available are 2300/8 ohm, 2500/8 ohm, 3200/8 ohm, 3500/8 ohm, and 4000/8 ohm, 6 kilo dedicated single-ended output transformers priced at £170.00 per pair.

And of course our fully welded 1.5mm. mild steel blank chassis, the most popular sizes being ...

400mm. x 300mm. x 65mm, @ £30.00 each.

and

400mm. x 230mm. x 50mm. @ £50.00 per pair.

For more details on these and other items please send sale to P.J. Perry

AUDIO ENGINEERING

57 Lyndhurst Drive, Leyton, London E10 6JB

Tel: 0181 558 4266

Advertisers' Index

MAIN ISSUE

ACOUSTIC SOLUTIONS	107
ALCHEMIST PRODUCTIONS	46
ALEMA UK	108
ALPHASON	107
AMADEUS S & V	127
ARCAM	48
AUDIO ARTS	126
AUDIO BY DEVELOPMENT	136
AUDIO CONSULTANTS	120
AUDIO ECLAT	132
AUDIO ENGINEER	144
AUDIO GALLERY	136
AUDIO ILLUSIONS	34
AUDIO NOTE	128, 129
AUDIO SYNTHESIS	46
AUDIOLAB	62
AUDIOPHILE CLUB	131
AUDIOPHILE FURNITURE	105
AUDIOPHILE INT.	102, 103
AUDIOPHONICS	116
AUDUSA	64
B+W	42
BFA AWARD WINNERS	122, 123
CAD	54
CHOICE HI-FI	105
CLASSIQUE SOUNDS	125, 132
CUSTOM CABLES	120
DAN DULEY	104
DEFINITIVE AUDIO	140
DIAL A DEALER	89 - 92, 97
DIVERSE VINYL	133
DYNAMICS	144
ELVINS ACOUSTICS	32
EMPORIUM	118
ENCORE	116
ESOTERICA	131
GAMMA ACOUSTICS	118
GLOTTA AB	46
GRIFFIN AUDIO	58
HADEN BOARDMAN	105
HAZELMERE	114
HEATHERDALE	118
HEYBROOK	64
HI-FI CONFIDENTIAL	110
HI-FI CORNER	112
IAN EDWARDS	125
IAN HARRISON	142

INNOVATIVE	116
JEM DISTRIBUTION	98
KEF	6
KLIPSCH	116
KRONOS	130
LINDLEY TYSON	133
LINN	8
LINN RECORDS	84
LORICRAFT	64
M A X	127
MANA ACOUSTICS	130
MANTICORE	138
MANTRA AUDIO	114
MEET YOUR MAKER	81
MERIDIAN	24
MICHELL ENG	84
MIKE MANNING	124
MISSION	O.B.C.
MORGAN AUDIO	32
MUSICAL IMAGES	28
NORTHWOOD AUDIO	130
NAIM AUDIO	I.F.C.
NATION ELECTRONICS	58
ONKYO	12
ORANGES AND LEMONS	144
ORELLE HI-FI	98
OVERTURE	127
OXFORD AUDIO	
CONSULTANTS	133
P M COMPONENTS	56
PHASE III	114
PINK TRIANGLE	14
PROGRESSIVE AUDIO	140
PROS AUDIO	104
Q.T.A. SYSTEMS	136
R.P.G.	54
RDL ACOUSTICS	134
RICHARDS A V	114
RINGMAT DEVELOPMENTS	54
RIVERSIDE AUDIO	46
RJF A/V	132
SERIOUS KIT	138, 142
SEVENOAKS	16, 17
SHEARNE AUDIO	44
SLATE AUDIO	111
SONIC FRONTIERS	125
SON ET LUMIERE	70
SOUND CONNECTIONS	118
SOUND FOUNDATION	124

SOUND ORIGATION	58
SPECIALIST HIFI	
DEALERS	77 - 80
SPECTRA DYNAMICS	32
SPENDOR	120
STERLING AUDIO	107
STUDIO ONE	32
SUGDEN	I.B.C.
SUSSEX SURPLUS	110
TAPE HAND	107
TEAC	10
TECHNICAL & GENERAL	125
THE CHORD COMPANY	44
THE POWER PLANT	127
THE SOUND GALLERY	34
TRIODE SUPPLY	30
TRY ME & SEE	106
TUBE TECHNOLOGY	109
V'AUDIO	142
WESTWOOD & MASON	120
WHARFEDALE	22

SUPPLEMENT

ALLISON TECHNICA	22
AP ELECTRONICS	10
AUDIO LINKS	12
AUDIO NOTE	14/15
AUDIO TECHNOLOGY	20
BILLINGTON EXPORT	4
CRICKLEWOOD	12
ELECTRONIC ENGINEER	12
FALCON	10
GLASS AUDIO	18
HART ELECTRONICS	24
IPL ACOUSTICS	18
KIT & COMPONENT	
SUPPLIERS	28
LANGREX SUPPLIES	10
MARTON MUSIC	12
SJS	20
SONIC FRONTIERS	6/20
SOWTER TRANSFORMERS	6
STUDIO 12	12
TECHNICAL & GENERAL	10
TECHNICAL & GENERAL	22
THE AUDIO ENGINEER	22
VINTAGE AUDIO	6
WILMSLOW AUDIO	20



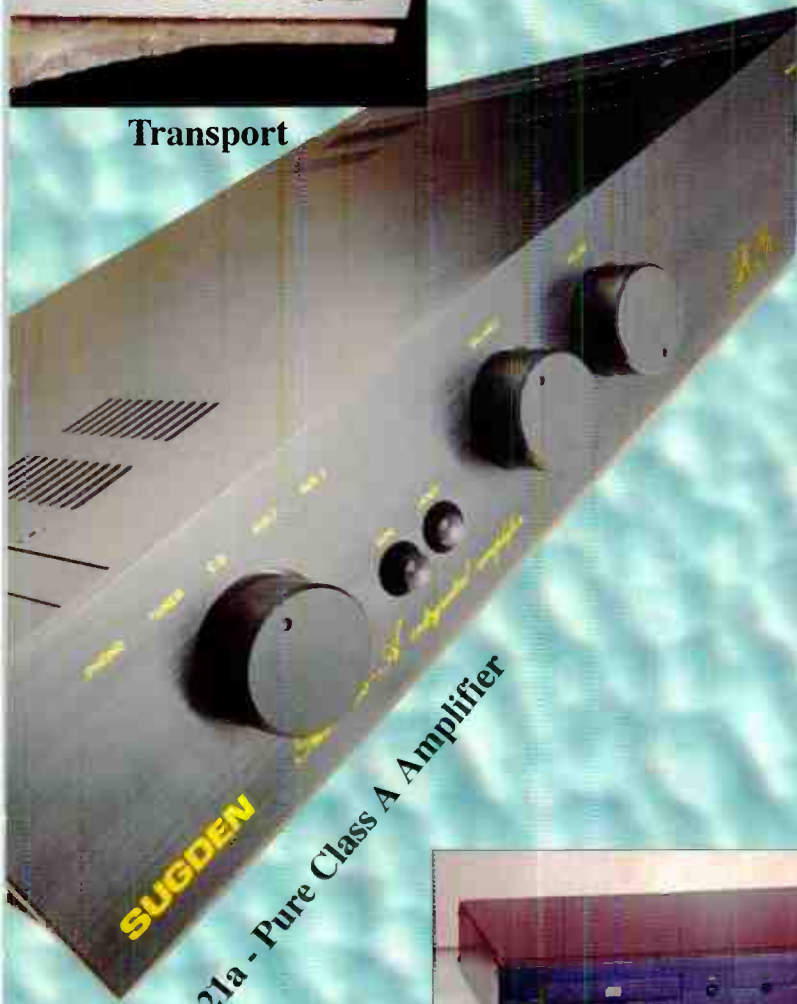
**LPA - 10 Line Amplifier
PA - 10 Phono Amplifier**



**SDD-1 CD Transport
SDA-1 CD Converter**



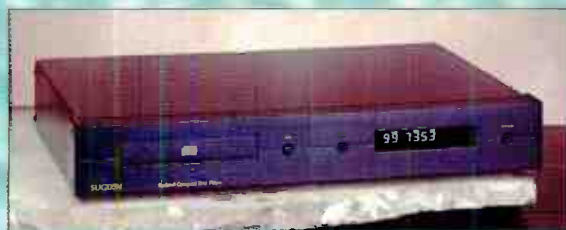
Transport



A21a - Pure Class A Amplifier



**SF 60 Line Level Integrated
SF 100 Line Level Integrated**



Optima - CD Player



**AU 41 Pre & Power
Amplifier**



SDT-1 CD Player

J.E. SUGDEN & CO. LTD

Valley Works, Station Lane, Heckmondwike, West Yorkshire WF16 0NF

Tel. Heckmondwike 01924 404088/9 Fax. 01924 410069

MISSION

Seven
three

B
one

**What else can
we say....?**



1994/95

