WIN! WIN! GREAT PRIZES! ORELLE HI-FI WORTH £3,000! WIN! WIN!



Why Sennheiser's latest budget headphones are the ones to beat, page 65

Home cinema made easy — Toshiba's Dolby Pro Logic TV on

We take Sony's 100 disc CD changer for a spin

test



\*Comprehensive listing of over 3,000 products \*800 models tested and rated \*32 pages of specifications and data, see page 87

#### CD-R vs MD vs DCC vs Super DAT

Our experts tell you the best new digital recorder to buy, page 58



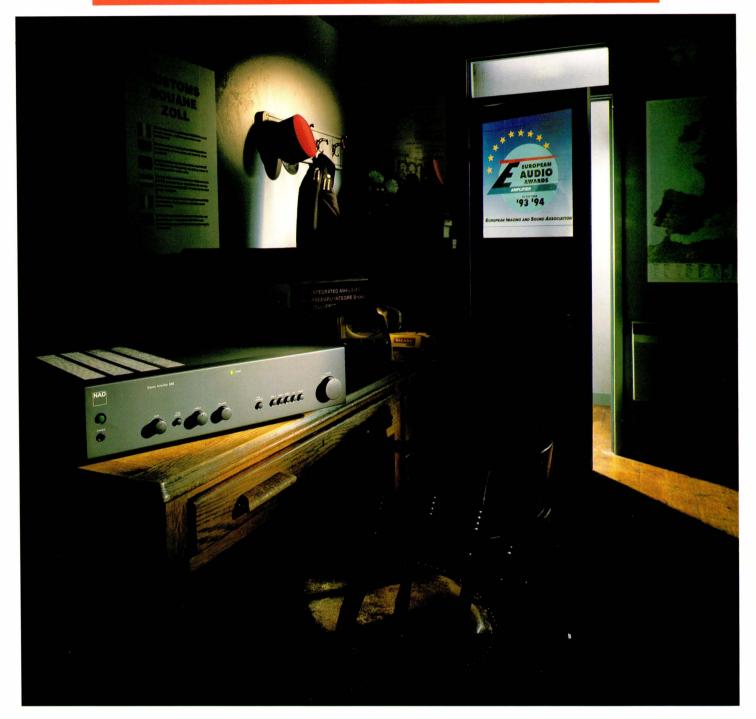
# TESTED: 8 TOP CD COMBOS

We pick the best two-box CD players



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### NAD 302. European Amplifier of the Year '93-'94

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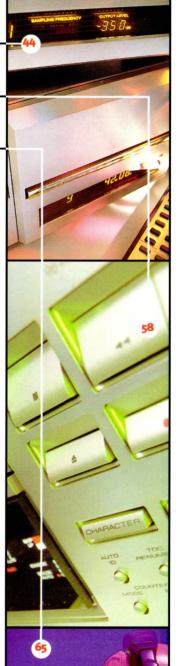
Products that make the grade are awarded *Hi-Fi Choice's* unique Best Buy or Recommended accolades. This sets them apart as being capable of a higher standard of fidelity than average at a particular price.

A product carrying the **Best Buy** swing tag is significantly better than the alternatives in its price band. It is of

excellent quality and very good value for money.

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**Recommended** products are also very good, but not quite in the same league as Best Buys. Despite being runners up, they are definitely worth considering, as they may prove more compatible in some systems.







#### **ISSUE 133 AUGUST 1994**

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Hi-Fi Choice welcomes all information on new and upgraded products and services, for possible coverage within the news and reviews pages. However, the publisher respectfully points out that the magazine is not obliged to either review or return unsolicited products. The editor is always pleased to receive ideas for articles, preferably sent first in outline form, with details of the author's background, and — where possible — samples of previously published work. He cannot, however, accept responsibility for unsolicited copy and would like to point out that it may take time for a reply to be sent. and would like to point out that it may take time for a reply to be sent

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#### THE GET OUT CLAUSE

While every care has been taken in the preparation of this journal, the pub lishers cannot be held responsible for the accuracy of the information here in, or any consequence arising from it. Readers should note that all judgements have been made in the context of equipment available to Hi-Fi Choice at the time of review, and that 'value for money' comments are based on UK prices at the time of review, which are subject to fluctuation and are only applicable to the UK market.

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# **EDIT POINT**

## Clearly, a better Choice

內最佳的選擇

CABLE CHOICE

After over a year in the hot seat, the time has come for me to hand over the reigns of Hi-Fi Choice to my colleague on Home Entertainment, Stan Vincent, as I move on to pastures new

The past 14 months have seen some remarkable developments in the world of hi-fi. Top quality separates have become ever more affordable, while the movement towards better home-cinema systems has led to many specialist hi-fi companies entering the arena and broadening both the quality and scope of combined hi-fi and audiovisual products.

We have also seen the coming of age of MiniDisc with the second generation players from Sony (see page 58 for a full test of Sony's new full size domestic machine pitched against its digital competition), while both Pioneer and Matsushita (Panasonic/Technics) are talking about the possibility of a 'super' CD format to extend the performance envelope of replay-only CD systems.

The development of new

technologies has stimulated interest in hi-fi not only in the UK (the circulation of Hi-Fi Choice has risen to an all-time high of 30,048 copies per month for the period July to December 1993) but also in the emerging markets of the Far East. To cater for this new market, the first Chinese edition

of Hi-Fi Choice has just been published, bringing the acknowledged strengths of the Choice test procedure to a population eager for fair and impartial buying advice.

The publishers of Hi-Fi Choice (China) were hugely impressed by our blend of solid technical testing allied to independent subjective assessments of hi-fi components by a totally impartial 'blind' listening panel. They quickly recognised the strength of this

formulation, and we are happy to supply them with our findings for hi-fi enthusiasts in the emerging markets of China

and the Far East.

We are also happy to supply them with solid buying advice that is often unavailable elsewhere. Our loudspeaker cable supplement given away free with this edition of Choice is a case in point. We never lose sight of the fact that quality hi-fi is as much a matter of getting the little points right as choosing the best kit. Speaker cables are vital to the well-being of any hi-fi system but the choice available is quite bewildering.

Enter Cable Choice. This handy pocket-sized guide to the best speaker cables on the market offers invaluable advice to anyone trying to improve the sound of their

system without

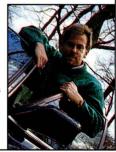
changing major components. Whether you are upgrading from supplied cables or changing add-on cables that have outlived their usefulness, this is the guide you need.

Whatever the subject matter, let Hi-Fi Choice be your guide to better sound. Our experts are music enthusiasts first and foremost and recognise that, whatever

the budget, Choice readers are looking for reliable and consistent advice. That policy

will continue and develop under Stan and the Choice team. making this magazine the publication for music lovers who care about quality. It's been a great year and it's going to get better.





# MUCH MORE THAN YOU BELIEVE



Choice news from around the world

## Goertz

The unique Goertz cable from America is now available in the UK. The importer, Townshend Audio, claims this impedancematched cable will transform even the most humble hi-fi

Goertz, it's terephtalate tastic dude.

impedance matched to the loudspeaker. Unlike typical cables whose impedances vary between 600hms and 4700hms, Goertz claims an impedance of four ohms. According to transmission line theory, if there is a dramatic impedance mis-match at the termination of a speaker cable, the signal will reflect back upon itself. Popular audio opinion is that this theory has never been significant at audio frequencies; however, Townshend suggests that the sound of Goertz proves otherwise.

system.

Goertz

cable is

designed to be

Goertz is made from two solid ribbon conductors, each jacketed in a polyester terephtalate dielectric. These are sandwiched together and sheathed in Lexan. Goertz is available in two sizes: 10mm by 1mm MI 1 and 20mm by 1mm MI 2. MI 1 costs £20/m and MI2 is £40/m in copper, while the silver versions cost £256 and £475 per metre respectively.

Because such a low impedance results in a highly capacitive cable those with Naim amplifiers, or other designs that find high capacitance cables problematic, such as will need to use a termination unit (an additional £87).

**2** (0784) 455866

## Go with Roll out the Technics'

Following on from last month's cassette and CD multi-changer announcements, Technics is launching another truck-load of new hi-fi components in time for the Autumn.

DCC is still in the frame, with the new £400 RS-DC8 home deck plus a £1000 SC-CH909D component mini system. There's also a strikingly elegant slimline 'lifestyle' type audio system which is unusual in incorporating a completely new kind of signal source. A built-in ROM memory replays various sound effects, simulating the background sounds of beach, babbling brook or forest environments. Instant ambient house or what!

The SL-PG360A and SL-PG560A are full-feature budget CD players at £140

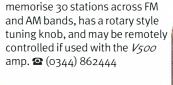
and £180 respectively. The SL-PG360A is a 'player on a chip' design, a cost saving

The *RS-DC8* incorporates Super-Advanced MASH D/A conversion and a new tape transport mechanism to get the best from your DCCs.

feature that's claimed to enhance sound quality. The SL-PG560A has a four-DAC MASH converter and full remote control plus shuttle search.

There are two new budget amplifiers, the 40W £150 SU-V300 for hands-on use and the 50W £180 SU-V500 with remote volume control and input selection. Both are full feature devices with Technics' 'New Class A'circuitry.

The ST-G350 is the new £140 budget tuner. It can





#### What an Arion

Eos and Elektra (no relation to Musical Fidelity's namesake) are the first two valve amps from Northern Ireland-based manufacturer Arion Acoustics, priced at £899 and £999 respectively. The Eos is a power amp with volume control and the Elektra is a line-level integrated amp. Both are rated at 18W/channel, use 5881 pentode output valves and are built with top quality components such as Audio Note-designed transformers and Rhodestein capacitors. There's also a mains filter, the £125 Titan, plus a range of cables.

**2** (0868) 748632

chunky Eos power amp has a volume control for single input purists.

## ATC's heavyweight

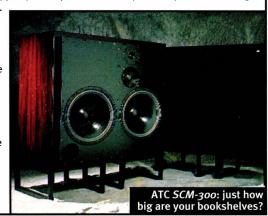
Speaker builder ATC, practitioner in both hi-fi and pro-audio, has pre-sold a number of its new giant studio/domestic monitors (no home should be without a pair - Dep Ed), before production is properly under way.

The SCM200 and SCM300 have been available with an electronic crossover for some years. Now the full active drive packages are being introduced, at £10,995 and £11,995 respectively, each with four power amplifiers delivering

850W per channel. Combine this with equivalent sensitivities of 91dB/W and 94dB/W and we're talking seriously realistic loudness levels.

Twin 12in/15in bass drivers are loaded by massive and capacious 'soffit' style (for studios) ported enclosures.

**2** (0285) 760561



## Pioneer fits Dolby S on five new deck's

Five out of a total of seven new Pioneer cassette decks now feature Dolby S, the latest high performance noise reduction system.

The two least expensive models don't qualify for the Streatment, but the £170 CT-S330 single and £180 CT-W503R twin decks are still well supplied with useful features.

But the real S-type price-buster is the £199.95

CT-S430S, which brings Dolby Stype noise reduction to the sub-£200 sector for



only found in the ongoing flagship CT-95, yet costs only half the price of that model.

**☎** (0753) 789500

Pioneer brings Dolby S to the masses with low-cost recorders and high-end machines in five of its

septet of new analogue cassette recorders.

the first time. Cassette dubbers can also now enjoy low noise recordings at a modest price too, with the £230 CT-W603RS twin deck machine.

Moving up to £300 brings some enticing extra features in both single and twin deck configurations. The CT-S630S single deck has a three-head transport for instant off-tape monitoring, whereas the CT-W603RS twin features

> control operation.

Finally, the £500 CT-S830S incorporates many of the top features previously

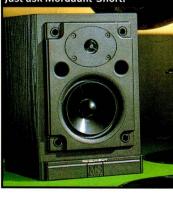
#### Baby boomer

Mordaunt-Short's award winning MS10 loudspeaker now has a baby brother: the £109.99 MS05. Described as an ultra compact design, the MSo5 consists of a 100mm MCS (moulded cone and surround) mid/bass unit and a 10mm tweeter, mounted on an injection moulded baffle.

A reflex design, the MSo5 has front firing ports which means that it is suitable for wall or shelf mounting. Among the speaker's key features are the use of a minimalist first order crossover, a phase plug where a dust cap would normally be colouring the aural picture, and last but most important a claimed 'design focus' on musical performance.

The MSo5 was created with the aid of CAD (computer aided design) and 'many hours of critical listening'. 2 (0705) 407722

Are small ones really more juicy? Just ask Mordaunt-Short.





## Power Thule

Europe is a big place, so it's never surprising to learn of a new Continental brand making a play for the LIK

Essex-based Virtual Reality Audio Systems is distributing the Danish Thule (pronounced Tooler) range of mid-priced electronics, and Hi-Fi Choice has already carried out a quick check on the £599 IA50 integrated amplifier (Sessions, issue 131). The more powerful IA100 costs £899, while the £799 DAC200 will convert your CD digits to analogue.

Key features include minimalist and symmetrical circuitry with balanced connection options and it's expected that the range will expand to encompass separate pre-/power amps and CD transports in the future.

**2** (0277) 227355

#### Seven grand for a CD player? . Wadia on about?

Although it's a lot less expensive than some of the company's earlier CD disc drives and DACs. Wadia's new type 16 CD player still costs an extraordinarily extravagant £7,375. It comes complete with on-board DAC, digital volume control and bristles with inputs and outputs. The 16's disc drive mechanism, based on a new Teac CMK-3 drive, is available without the DAC as the model 20 transport (£4,370).

Wadia also has a new analogueto-digital converter (ADC) unit, code named model 17 and priced at £3,545. The idea is to use this in place of a conventional preamplifer to digitise all the analogue sources of a system, passing the digits on to the model 16 CD player. **2** 081-840 6305

This is Wadia get for £3,545? The new model 17 ADC.

Wembley-based company which is launching an isolation platform called — you've guessed it Platform 7. Made from marble composite, it weighs 10-12kg, costs less than £50 and is intended to substitute for the top boards in equipment supports, providing extra immunity from vibration. And of course it's green. **2** 081 904 2646

Gremlins infected our review makeup last month (issue 132), causing the wrong impedance graph (but the correct caption) to appear on our review of the Impulse H6. The correct graph is shown below. **2** 081 769 5726



Breaking with its Hardcore solidcore tradition, Path Premier is adding new Superstrand multi-conductor speaker cables to the popular IXOS range.

At £1.99/m, Superstrand 603 is a two-conductor flat profile cable, while the £5/m Superstrand 604 carries four conductors (for biwiring), all housed within a roundsection sheath.

**2** (0494) 441736

Quantum Audio has begun manufacturing the £900 Minstrel amplifier, a hybrid valve/transistor, linelevel integrated, zero feedback design which has classically simple lines but top quality compo-nents and finish. The ultra-linear valve output delivers 20W (80hms) when fitted with 6L6 valves, and 30W using EL34s. 🕿 (0563) 71122

Maxell is launching a new range of DAT (digital audio tape) tapes featuring an improved hub lock mechanism, and anticipates adding the first ever three hour running time tape (DAT 180) soon. **2** (0923) 777171

Hama has two new ranges of headphones, priced from £1.99 up to £34.99, the budget Star Line being ultra-lightweight designs ideal for portable applications.

The more expensive Studio Line are bulkier but have extra foam cushioning — just like the L'Oréal hairdressing namesake. Also new, the £12.9 9 MB 20 pocket-size mini-speakers are intended for connection to personal stereos, and hence are fitted with jack sockets. **2** (0256) 708110





QIC

030

Q50

Q70

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

## Goodmans loudspeakers are dressed to kill — in rosewood



Goodmans Loudspeakers Ltd (GLL) has upgraded its loudspeaker range and introduced a rosewood veneer as one option in its range of finishes. The £119.95 Maxim, £159.95 Mezzo and £199.95 Magnum models have new woofers and refined crossovers with higher grade components.

In addition the Mezzo has grown a compliance ring cone and the Magnum has been working out — its cabinet now features extra bracing. 2 (0705) 492777

# You got it! Home Alón

You want the convenience and compactness of a decent quality mini system, but can't come up with the whole £1,000 in one hit? Denon may have just the thing.

The company's new D-F10 is a mini system. It's also a collection of separate mini components that may be purchased separately, yet which still offer remote control and the simplicity of interactive operation when linked together as a system.

The full four-component package is priced at £1,000, with optional partnering speakers for an extra £150. However, the individual components are priced between £240 and £280,

Except for the real red mahogany speakers, each component is finished in Denon's attractive champagne silver, and there's a refreshing absence of button clutter. The system remote handset comes with the 2 x 50W amp, the tuner has RDS for station identification, and the single cassette deck has a horizontal loadingtray. Additional components (a CD changer and surround processor) are said to be in the pipeline.

**2** (0753) 888447





Born in the USA, bred in Muswell Hill.

Sound Image Ltd of Muswell Hill is importing the Acarian Systems speakers from the USA. Designed by Carl Marchisotto, who was with Dahlquist for many years, the Alon 1 is a compact floorstanding threeway with open baffle mounting for midrange and tweeter, and is expected to sell for £1,300. **2** 081 807 8006

#### DPA top DAC

DPA has launched its top of the range, £6,000 PDM ten twentyfour digital-to-analogue converter. Big brother of the PDM 256 (page 47), the PDM 1024 features DPA DX128 processing (128 times digital filtering), allowing for a simple analogue stage, containing two resistors, two capacitors and a balanced DPA op-amp.

The PDM 1024's casework reflects its price, being built from gold plated 3mm copper plate, with more inputs and outputs than you can shake a clutch of digital interconnects at.

The £495 DSP200S phono stage, switchable for MM or MC cartridges and utilising DPA's DHOA32 hybrid op-amps is also new.

**2** (0222) 795621

Korean giant GOLDSTAR is introducing a new micro system, the two-piece £170 FFH 100L, which combines CD and 3-band tuner sources with a 4W/channel amplifier. Cassettes are not accommo-

**2** (0753) 691888

Accessory maker BIB is launching a battery powered, motorised CD cleaning machine at a very tempting £14.99. **2** (0442) 233233

European turntable maker PRO-JECT has introduced a number of improvements on its top model. After changing the suspension, damping, mat and arm wiring, the Pro-ject 6.1 still costs £435. 78rpm adaptor to fit all Pro-ject turntables is now available for £10. **☎** (0753) 889949

Hounslow and Edgware AV retailer MUSICAL IMAGES is raising £1,000 a month for Save The Children charity by combining donations from customers with those from suppliers and the shops themselves. It hopes to reach a £10,000 target by Live 94. **2** 081 952 5535, 081 569 5802

Celebrating the nine hundredth anniversary of the cathedral namesake, CASTLE has introduced an alternative version of the popular compact DURHAM speaker. The £299 Durham 900 is re-voiced and re-balanced to give a more open and explicitly informative sound, and to balance better when placed close to walls.

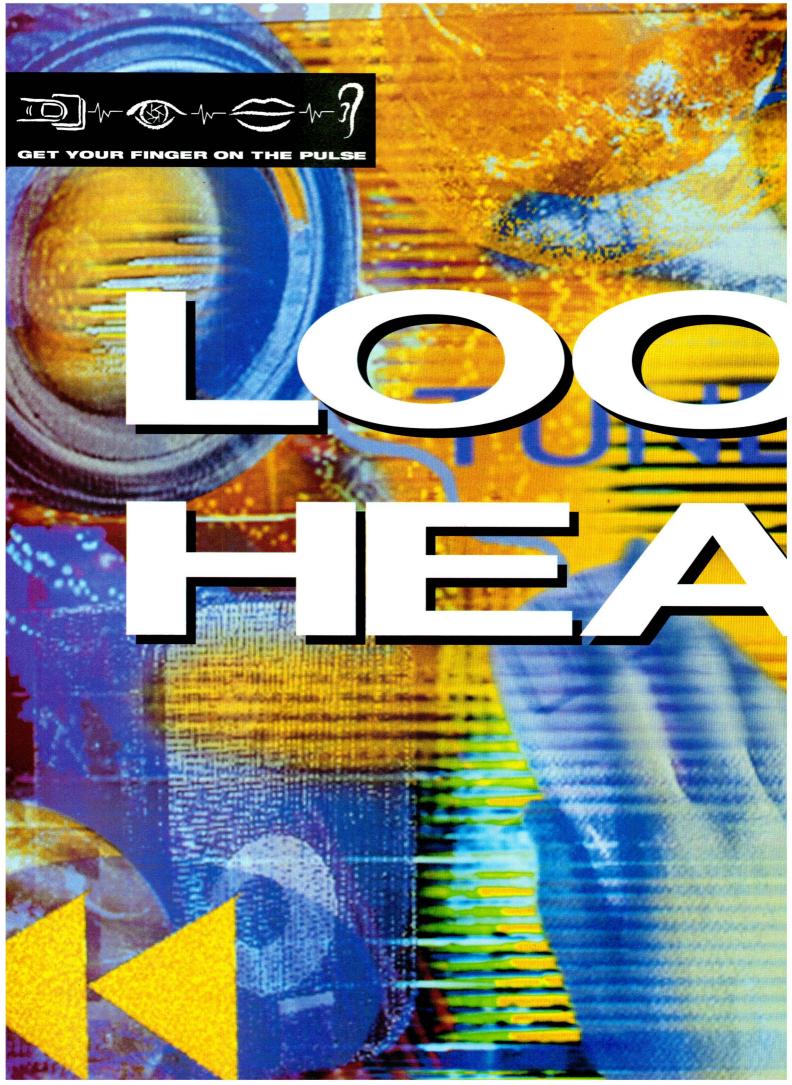
**2** (0756) 795333



A perfect speaker for anthems and psalms — the *Durham 90*0.

PEDESTAL is a bespoke audio furniture specialist which uses native hardwoods and carved hamstone to produce stylish and sonically isolated platforms for your kit. The isolation side of the equation is taken care of by sorbothane mounts. Pedestal also produces matching CD racks. **2** (0460) 242310

**FARADAY SOUND, the concrete** loudspeaker specialist, is looking for someone to inject a bit of business acumen. Critically successful but commercially underdeveloped, Faraday is run by Peter Walters in Norwich. Anyone interested in putting a toe in the audio water should contact Peter on: **2** (0603) 762967





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# Choice ESSIO

The latest products, the best recordings and our own point of view on the most interesting developments to hit the hi-fi scene. Concise reports by the Choice team.

#### MULTI-DISC CD PLAYER

- 🔼 A niche product; about as good as such players get; too bad if you've 101 CDs.
- Clunky disc handling; sound quality not as natural as the best single disc players at this price.

SOUND ★★★★ VALUE \*\*\*\*

ost CD players accept one disc at a time, while a few take two, three or even a handful. Here, though, is a player which accepts a collection of one hundred discs. It uses an internal circular holder reminiscent of a Kodak Carousel projector slide tray.

The disc holders are non-interchangeable, so you can't keep separate trays of discs loaded up for different purposes. However, there is hidden flexibility (in an almost undocumented feature) which allows three separate CDP-CX100 players to be operated by a single remote coontrol.

The most powerful operating feature is the so-called Custom Files, which can be

used to store a title, list of tracks to be skipped and even an output volume level for each disc. Individual discs can also be allocated to groups (catagories like jazz and classical), which makes light work of programming your fave tracks for background listening at a party, or sequential play of all the Barry Manilow titles you can handle.

But who would want to invest £800 in an outsize 100 disc CD player? My first reaction was that the Sony would be a natural in studios where a number of discs need to be held on tap. Pirate broadcasters

will probably

a player such as this; clubs, restaurants and pubs certainly will. However, the Sony lacks such attributes as studio-friendly balanced outputs, fast cueing and even the solid build expected of professional equipment. The unit is limited to a Toslink optical digital feed and two line-level electrical outputs, one fixed, the other variable.

Performance is unexceptionably good. Like other recent models from Sony, the CDP-CX100 is a slick sounding design that extracts a full measure of detail from discs, most of which reproduce with real refinement. The treble is slighty

obtrusive, and the bass is if anything just the opposite, yet any departures from the straight and narrow are minor. Stereo soundstaging is positive, there is plenty of lateral positional information, yet the sound doesn't always show adequate depth and solidity.

#### Alvin Gold

Sony UK Ltd, Sony House, South Street, Staines, Middlesex TW18 4PF. **2** (0784) 461688

## TURNTABLE

£1,190.00

- Detailed, pacy sound; well built.
- Bright, flat soundstage; ultimately tiring.

SOUND \*\*\* VALUE \*\*\*\*

he £200 CS505-4 UK marks Dual's re-entry into the British turntable market. The mouthful of a name reflects the company's aim to engineer the deck to suit 'UK'

audiophile tastes.

Outwardly, not a lot has changed from the Dual 505 series, apart from the inclusion of a felt platter mat and an Audio Technica AT95E moving magnet cartridge.

A steel chassis floats on springs within a plastic plinth, which itself sits on four solid





There was no question of the music not being up-front – it was almost frantic at times. Although this can be appealing with hard rock tracks, natural peaks and timing are sacrificed

if you're in the mood for something more sophisticated.

My most serious criticism, however, is of the overall brightness which tended to make the deck tiring. I managed to alleviate this feeling slightly by pushing the speakers nearer to the wall, but the sound continued to lack warmth. This is not a turntable that lets the music breathe and all too often I found myself listening to the deck's failings rather than to what it was playing.

At this price Dual is competing directly with the Rega Planar 2 (£185 without cartridge), whose

VALUE ★★★★★

t £250 the QED Vector reads like a lot of product for the price. It's a fully

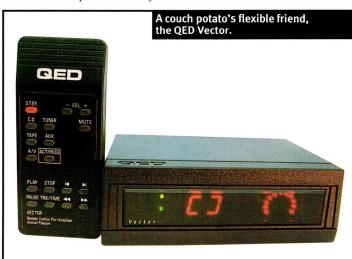
transformer within a more snazzy case. However, it does have an LED display which tells you which input is selected, whether it's in active or passive mode, if it's muted and what the

Using it in place of a Michell Argo HR preamp with Alecto monobloks I didn't discern a great deal of difference between active and passive modes. In both it was a little defocused and soft compared to the £1,300 *Argo*, but it did keep tempo well and had generally good resolution. Next to a similarly priced passive preamp it lacked energy and clarity, sounding a little shut in and electronic, but not aggressive.

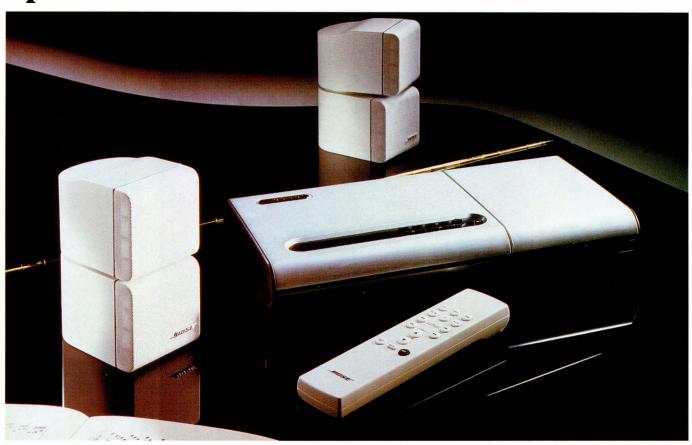
And though the *Vector* is no high-end component, it's a goodquality, user-friendly product with sonic capabilities in line with its price.

#### Jason Kennedy

QED Audio Products Ltd, Ridgeway House, Ridgeway CLose, Lightwater, Surrey GU18 5XU. 22 (0276) 452211



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66The sound is incredible, the illusion compelling and the design is *seriously* sleek. Irresistible.\*9

66 The Bose Lifestyle Model 10 is light years ahead. 99 What Hi-Fi

The sound of individual instruments is as true a reproduction as you can hear. The speakers have great clarity yet are warm at the same time. What's more it is certainly excellent value for money. Julian Lloyd Webber, Cellist

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£400.00

- Compact (if messy looking); decent performance of main electronics.
- Gimmicky; disappointing spatial sound system; needs a speaker transplant. SOUND \*\*\*\*

VALUE ★★★★★

he latest batch of mini systems from the prolific Aiwa stable includes the £400 NSX-540. This consists of two rather garish loudspeakers and rather less than a cubic foot of electronics. The feature rollcall includes a three-disc CD player; a twin auto-reverse Dolby B cassette deck; a 32-preset, three-band radio tuner; and an amplifier that purports to deliver 55 watts per channel, (direct comparisons with established hi-fi amplifiers suggests this is probably nearer

A karaoke voice-over feature is included, and the system makes a nod in the direction of enhanced stereo reproduction thanks to a front surround speaker which contains extra drive units to promote a feeling of spaciousness. The system also boasts a timer (record or play) feature, plus a wide range of tone bending and some rather crude DSP effects. However, the Aiwa has nothing so obvious as

20 watts).

neighbours, the karaoke function went untested, but not so the rest of the system. Hi-fi it ain't of course, and here much of the blame must be shouldered by the speakers which are rough and sometimes even aggressive when driven by an unequalised signal. Bass is notable mainly by its absence, though the upper bass takes on a congested, rather tubby presence when the 'T-bass' boost feature is engaged. Swap the speakers for a pair of decent compacts - I used Celestion 1s and the Aiwa's electronics are revealed as likeable and even quite musical, though this meant loosing the front surround feature (no great loss), and presupposed that the DSP and other tone benders were switched out.

If the criticisms sound familiar, well that's because Aiwa has faithfully followed the mores of packaged system design. Yet Aiwa enjoys economies of scale which enable them to make equipment that is decent (speakers apart) and even quite stylish. The system doesn't have the wherewithal for serious exploration of the outer edges of musical expression, but it is fun, flexible - and a sound bet as a second room system.

#### Alvin Gold

Aiwa (UK) Ltd, Unit 5, Heathrow Summit Centre, Skypoint Drive,

LOUDSPEAKERS

Middlesex UB70LY. 🕿

081-897 7000

#### **ProAc** Response One 'S'

- Stunning bass from a small box; almost panel-like transparency; a world-class speaker.
- Must be used with Target R1 stands; demands the best equipment.

SOUND \*\*\* VALUE \*\*\*\*

have been a fan of the ProAc Response One 'S' since its launch some two years ago,

and have used the speaker regularly in my listening lineup. I still maintain that it is the loudspeaker for high-end systems in small rooms, Sonus Faber notwithstanding.

However, time and science move on. ProAc has introduced an substantial modification to the speaker, using a new transparent driver from SEAS and a modification to the crossover. The new driver incorporates a far stiffer welldamped cone, and an improved cone surround to improve the bass performance. This has slightly increased the price of the R1S to £999, and is retrofittable. The upgrade costs £150, which includes fitting and return carriage in the UK.

For those unfamiliar with the design, the R1S is not much





larger than a BBCLS3/5a, and is a two-way rear-ported design with a soft-domed tweeter. It is biwirable and designed to be used in free space on the exceptionally heavy £260 Target R1 stands.

However, the specifications don't prepare you for the sound quality of the R1S. It produces clean, seamless music with a bass that makes you play 'hunt the subwoofer'. In the right room and with the right equipment, the R1S is capable of making a big sound that would not be out of place from a fourfoot tall floorstander.

The new modifications dramatically enhance the bass depth and midband transparency of the R1S. This makes the speaker sound as close as you can get to electrostatic transparency from a traditional box design. Even at high SPLs, the speaker is still coherent and dynamic, not even messing up the KLF's It's Grim Up North at full blast.

Although you need to use the best components for the best performance, I can find no fault, given the speaker's size. Its treble is slightly tipped up, but this simply sounds detailed and never zingy. Although it will fill some surprisingly large rooms with sound, it really shines in a small listening room.

If a grand seems like an absurd amount of money to pay for what seems like a bookshelf speaker, think again. The old R1S was the finest small monitor

The upgraded version pushes the envelope: the best just got better

#### Alan Sircom

ProAc, 130-132 Thirsk Road, Borehamwood, Herts WD6 5BA. **☎** 081-207 1150

#### CD PLAYER Linn Mimik

£789.00

- Clean and focused sound; ideal as part of a Linn hi-fi system.
- May be too small sounding for everybody's taste; flimsy CD tray.

SOUND \*\*\*\* VALUE \*\*\*\*

ollowing the critical acclaim for the Linn Karik CD player-cum-transport and Numerik digital-to-analogue converter, Linn have introduced a cheaper integrated CD player, the £798 Mimik. The Mimik is intended to sound as similar as possible to the aforementioned combination, at a lower price.

One of the key cost-cutting areas is the CD tray itself. The Karik's CD drawer is a thin but solid single chunk of alloy, while the Mimik's drawer is a flimsy, wobbly sliver of plastic. Although I'm sure that it's every bit as reliable as the Karik's drawer mechanism, it doesn't inspire confidence, especially in an £800 player. Over all, however, the Mimik seems well made, in Linn's

Mimik lacks the synchronisation system that keeps the timing of the Karik/ Numerik combination so tight, it does use a Delta/Sigma DAC chipset and BNC connection for an external decoder. The player is designed to mesh with Linn electronics and the company's forthcoming Knekt multi-room system.

The electronic engineers at Linn have a very distinct idea of what constitutes music. This fact will polarise opinion about the Mimik, as it does about the rest of the electronic range from this famous stable.

Those who favour the Linn sound will praise a tight, focused performance, the fine, glare-free treble detail and an absence of artifice. They may also enjoy its tight sense of rhythm, especially on easy-going rock music. However, others will find the same performance too dry, lacking in imagery and light in the bass.

It isn't an intrinsically bad sound, however. I played the Mimik back to back with the similarly priced Meridian 506 in a variety of systems, to several people visiting my listening room. Opinions were divided, some found the 506 too bland and overblown, others classed the Mimik as small-scale and lightweight. In the context of a complete Linn system, such a sound is fine, but outside of a Linn system, its results are unpredictable.

Ultimately, the Mimik is

someone would opt for its lean, tight performance.

#### Alan Sircom

Linn Products Ltd, Floors Rd, Waterfoot, Eaglesham, Glasgow, G76 0EP. 22 041-644 5111

#### Accessories

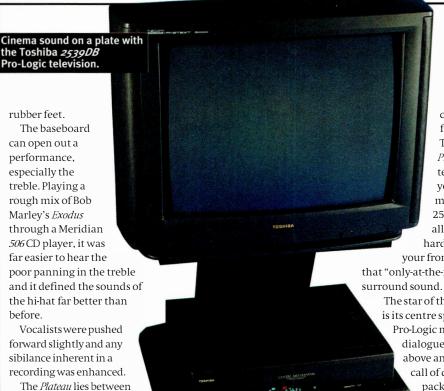
#### Ortofon **Plateau** baseboard

- 🔼 Well made and attractive appearance; adds space and detail.
- Can add emphasis to sibilance: tends to push the music forward.

SOUND \*\*\*\* VALUE \*\*\*\*

ack in the seventies, trying to tweak a system with cables and supports would arouse the attention of whitecoated individuals carrying jackets with long arms and buckles at the back. In these enlightened times the opposite is true.

The Plateau baseboard, now distributed by Ortofon in the UK, is charcoal grey and costs £49.95. It's made of a polymer composite top, separated from an MDF baseboard by sorbothane pads. All sits on four soft



the Mission Isoplat and the

helpsdivorce a CD player

Base Baseboard, both in price

and performance. The Isoplat

from its surroundings, yet it

doesn't intrinsically improve the

improvements, but these are not

as dramatic as those possible with

The *Plateau* is good value and

would be great for those who like

to wring out the last ounce of

treble detail, or alternately to

balanced system, it may open

brighten up a tonally dull

system. But for an already

out the soundstage at the

Ortofon UK Ltd, Chiltern Hill,

Chalfont St. Peter, Bucks SL9 9UG.

expense of some extra

brightness.

Alan Sircom

**2** (0753) 889949

the Base, the Seismic Sink or any

performance. The *Plateau* does

bring about some definite

of the Mana tables.

Toshiba 2539DB Pro-Logic television. What you get for your money is a good 25inch telly and all the necessary hardware to fill your front room with that "only-at-the-movies" The star of this Toshiba telly

consumer

friendly

is its centre speaker that, in Pro-Logic mode, offers dialogue precision above and beyond the call of duty in a package of this price. Apart from a brilliant Pro-Logic

mode it offers a useful array of different sound effects ranging from Stadium

for those rock concerts to Theatre for when Middlemarch beckons.

There are, however, a couple of drawbacks; the main one is with its subwoofer. Just one amplifier is used to drive both the centre speaker and the subwoofer. Unfortunately, this means that both speakers can't be driven at the same time which can be frustrating in Pro-Logic mode as there is very little bass. The addition of an active subwoofer would be a suitable solution to this problem.

On a smaller scale, people with large lounges may find that the amount of cable supplied for the rear speakers is not enough to carry them comfortably around the walls to the back of the room; on the other hand, it is easy to add extra wire.

In conclusion, then, if you want to amze your friends with surround sound, but wish to leave your hi-fi unsullied by Dolby Surround Sound this set is an ideal choice.

#### Rob Tribe

Toshiba UK, Frimley Road, Frimley, Cumberley, Surrey GU1 65JJ. **2** (0276) 62222

#### TELEVISION Toshiba **Pro-Logic**

Superb value for money. Not enough bass.

SOUND \*\*\*\* VALUE \*\*\*\*

irst you buy your telly, then a Pro-Logic amp, main speakers, centre speaker, speakers for the rear and, maybe, a subwoofer. But what if the whole lot won't fit with your existing system?

An alternative to this unsatisfactory scenario is provided in the shape of the less expensive

> (£800), more

Reaching for a new *Plateau* the tweak to try from Ortofon.

#### Album review

ir Andrzej Panufnik, who died in 1991, is among the most interesting and approachable of modern composers. Yet his music makes little attempt to be fashionable or catchy. Few of his works can be wholly assimilated at first hearing; you need time and patience, an open mind, and a willingness to suspend prejudices. His Sinfonia Concertante for flute and harp is a very rewarding piece. The first movement is remarkably

spare, almost to the point of austerity. It hegins simply, yet commands attention despite an almost

Zen-like calm. Its droning basses remind one of Britten's 'night' music, albeit in lofty and spiritually aloof guise. The middle movement is fast, and rhythmically lively, rising to a sharp flashing climax before ending abruptly. The short finale breathes similar air to the first movement, acting as a brief epilogue.

Panufnik's ear for sonority is very apparent in the Concertino for Timpani, Percussion, and Strings. Again the music is austere, but more intense than the previous piece. The use of pitched chimes redolent of tolling bells, contrasted with powerful strings, leads to tensions that are unresolved until the rhythmic Intermezzo. This leads to a spacious slow movement, Canto 11; strings intoning a quiet but tender theme against a shimmering backdrop of pitched percussion. The finale is violent and agitated, with strings playing a spiky theme bolstered by hard aggressive percussion. The disc ends with *Harmony*, subtitled *A Poem* for Chamber Orchestra, which starts quietly but rises to a passionate climax. In one movement, it lasts about 15 minutes and explores an ever-growing interrelationship between strings and woodwind.

Engineered and produced by former Decca engineer Tryggvi Trygnvason using Technics/ Panasonic DAT machines, the sound is clean, detailed, and lifelike. Clarity is always good, though Panufnik's scoring helps by keeping textures transparent and open. A word too about the excellent performance of London Musici under Mark Stephenson, which sound secure and authoritative; one could hardly hope to hear this music played better.

## **THOROUGHLY** RECOMMENDED...

"...best you can buy for sensible money" Q, September '93

"foot-tapping, likeable and exciting sound - five star performance"

#### RECOMMENDED

What Hi-Fi, October '93

"... 'Suona' magnificamente e costa acettabile"

#### RECOMMENDED

Suono (Sound, Italy)

"Lively coherence, splendid dynamic range"

#### RECOMMENDED

Hi-Fi Choice, April '94

"...throws the window wide open and makes a system sing"

#### RECOMMENDED

What Hi-Fi, April '94

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and in the Far East.

A pair of *Micro* magnetically shielded satellite speakers and a Sub-Bass passive subwoofer were selected for test. The Micro is a true miniature with an 'airflowed' low diffraction, lowresonance enclosure and a rotatable tweeter housing. The bandpass subwoofer has two fully enclosed drive units. Styling is interesting, but will not attract universal praise.

Thesoundqualityis unexpectedly good despite a residualquackinessand unevenness in the midband. The overall frequency balance is bright, giving a forward feel, and the treble lacks refinement. But the colorations are a static phenomena, mostly at a low level, and are eventually filtered out by the ear and brain.

The Wharfedale combination is articulate and airy, with a truly surprising range and dynamism. The unusual lack of compression made the listening experience a great deal more vivid and lively than expected.

The subwoofer also worked quite well. The enclosure is not

big or solid enough to give a genuinely weighty bass, but the reach was good even if the lowest frequencies were muted.

It was capable of reaching most of the organ pedal stops, though it wasn't up to generating trouser trembling sound pressure levels without obvious compression, especially at high volumes. Attenuation

> of unwanted midrange artefacts was very effective, which helped the subwoofer to mesh with the satellites.

> > The sheer vitality and lack of midrange and treble compression meant that the system was genuinely engaging, to the point where it made much of the competition sound mean spirited.

Alvin Gold

Wharfedale International Ltd., Crossgates, Leeds LS15 8AL. **☎** (0532) 601222

#### AMPLIFIER

#### Crimson 610B & 620B

- Detailed, rhythmic sound; good value for money.
- Dated styling; lack of inputs a worry; for solidcore fans only.

SOUND \*\*\*

hecking back issues of Hi-Fi Choice, I found a Crimson Elektrik610/620 combination was tested in Hi-Fi Choice exactly 100 issues ago. The long, matt-black cases sported the absolute minimum of frontpanel controls, and the design is the same today, though

The current £395 Crimson 610B preamplifer is severely lacking in inputs, with only

now it looks dated.

enough for a turntable, CD, tuner and tape recorder. The matching *620B* power amp at £395 is a 40 watt stereo affair, although there are also a pair of monobloks. Crimson's tie-in with Virtual Reality means that the amplifiers can be a part of 'the great upgrade', with maximum tradein against DNM amplification.

Wire the system up with DNM solid-core interconnects, speaker cables and even mains cables, and it really begins to sound clean and detailed. There is a touch of the Naim amp about its sound, with some power and grunt to the bottom end, with a sweet mid-range and a forceful top. Using it with multi-strand cables tends to thicken the mix.

Outside of this, it has a good balance of detail and coherence and it bops along happily. Aside from the lack of inputs, my only real criticism is that the phono stage is a touch hissy, especially on MC cartridges. In absolute terms, the amp is neither the most refined nor transparent of amp combinations, but its low price weighs heavily in its favour.

The Crimson is cheap and cheerful, yet has a sound quality that is exceptionally good for the money. It's not too fussy about positioning and synergy and is deceptively powerful for a 40W amp. At a price populated by range-fillers and products low on absolute sound quality, the Crimson is a budget audiophile's dream.

Alan Sircom

Virtual Reality, PO Box 383, Brentwood, Essex CM14 4GB. **☎** (0277) 227355



Crimson 610B and 620B pre and power amplifiers — a good sound at a very decent price

Mission Electronics. First fruit of the new regime is the modular Modus Vivendi hi-fi-cum-hometheatre speaker range which, by all accounts, is already a

SATELLITES AND SUBWOOFER

Wharfedale

**Modus** 

Vivendi

Micro and

Sub-Bass

£99.00/£139

and dynamic presentation

Bass lacks dynamics; light

and bright system balance.

A return to form: the quick

will make many friends.

SOUND ★★★★★

Wharfedale has been

culminating in a recent take-

over by the group that includes

through some lean years,

VALUE \*\*

t is no secret that

## Tannoy 215 DMT II

Into the studio with Paul Messenger this month, as he witnesses 60 inches of Tannoy diaphragmed speaker power.

■ his is nota hi-fi speaker, although it won an important prize in Japan for such a role a couple of years back. It's not a PA speaker either, even though it would handle your local cinema or disco. It will stand out like a turbo-charged twin-tub in your traditional lounge, but has its own hi-tech elegance nonetheless.

This is a speaker with attitude: 'I ain't no namby pamby hi-fi component; I'm a real loudspeaker, for real people who make real music, not just listen to it!' Indeed, a significant proportion of your recent record purchases could well have been made using a pair.

The Tannoy 215 DMT is a pukka, full size studio monitor, the biggest in the company's Monitor Series catalogue, designed to look right and do the business among the hi-tech paraphernalia of today's recording studio environment. You won't therefore find them on dem down the hi-fi store. The price, probably on the right side of £6,000 per pair, will be negotiable between you and a serious Pro Audio dealer.

The in-flight catering trolley shape is dictated by a long established recordingstudiostandard, enabling 215 DMTs to be 'dropped in' to existing cut-outs in studio dummy walls which leave the front baffle flush. And its Far East success might well have something to do

the Japanese predilection for building everything into an equipment 'wall'.

Even standing free they're much less visually intrusive (and less expensive) than, say, Tannoy's Westminster Royal, the Living Voice Air Partner or Townshend's Sir Galahad. The largest dimension here is only a

metre - which doesn't sound too much at all – but the smallest is two thirds of that, which translates into more than half a cubic metre of sheer bulk and a couple of very useful surfaces for pot plants, magazines and so on. The 85kg weight is very impressive too, especially if you don't have a forklift truck and do have a bad back.

The legend 215 DMT actually means something. The 215 bit translates as two 15in drivers, giving a diaphragm area many times that of the typical hi-fi speaker.Oneisjustabassunit,theother is a dual concentric, whose main cone can be configured to cover bass and midrange or midrange only, and which has a 'tulip wave-guide' horn-loaded tweeter firing through its centre.

The DMT in the name stands for Differential Material Technology. Tannoydefines this inspirational buzz phrase as 'the study of different materials and their relative behaviour when in intimate contact' - which could be applied to almost anything in mechanical engineering, without giving any real clues to the what or how thereof.

#### **Under wraps**

The 215 DMT is a complex and subtle combination of massive sculpted 36mm MDF baffle and back, linked by a skeletal frame and filled by inset high pressure laminate wrap panels. Elaborate internal bracing and lossy couplings help control and absorb the very considerable energies involved, while three enormous ports provide reflex-tuning. All the ingredients are lavishly over-engineered, with bi-wire terminals on both front and rear.

The measured performance is awesome. The basic balance is very like a typical modern compact floorstander -except that sensitivity is roughly 9dB higher (97dB/W). This is equivalent to exchanging your typical 50W amp for

> a 400W leviathan. Take advantage of the 150-500W recommended amp power and you can consider yourself a fully paid up member of the fantasy loudness league. Or maybe it's the perfect partner for that 3W single-ended triode valve

I would have liked to have been able to boost the relative treble a few decibels to 'open out' the top end, and in normal sized rooms the bottom end does favour midbass over low bass. But

amp you've always fancied.

the net energy averaged over 20-100Hz is about right, and extension is a respectable-10dB in-room at 20Hz.

#### Macho, rude and brutish?

The macho styling and drivers prepare one for something pretty rude and brutish, and with enough amplification and a rude enough source I daresay the 215 would oblige. But given a few days to settle down onto Foundation Isobarik style stands and the floor beneath, and fed a diet of high class material, it was the model of polite good behaviour as well as considerable excitement and enjoyment.

The over-riding impression is of almost infinite headroom and dynamic range, giving a freedom from stress and strain which somehow makes low level listening just as entertaining as the other sort. A shade too analytical for some perhaps, this speaker doesn't paper over any cracks or present a rosy view of your various recordings, and there's not the romantic midband of the Alnico magnet dual concentrics.

This latest DMT variation is certainlysweeter and more coherent at the top end. It has better overall broad-band dynamics, and superior midband phase accuracy, especially when the full range DC driver is protected from large excursion by rolling it off at the bottom end (a network option).

#### **Dramatic monitoring**

The 215 is a highly effective monitoring tool. I particularly liked the way it laid bare the construction and sound effects of BBC radio drama.

While the combination of wide dynamic range and bandwidth alongside a smoother and better balanced performance than most large loudspeakers can manage, repeatedly brought new, yet listenable, insights into the mechanics of modern multitrackrecording techniques.

I've tried a lot of very large and expensive speakers this past few years. All have some or other exceptional qualities, usually accompanied by equally noticeable weaknesses.

The greatest strength of the  $215\,DMT$ II is that the latter are notable by their absence—unless you count the styling. It's not perfect, but it is exceptionally good in almost every respect, and also realistically priced considering the extravagant performance envelope and engineering quality. Pro-oriented it maybe, but that Japanese audiophile award was fully justified.

Tannoy Ltd, Rosehall Industrial Estate, Coatbridge, Strathclyde ML5 4TF.

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## Musical Fidelity F18

Alvin Gold finds out if Musical Fidelity's latest power amp can take on the big American names.

ike other amplifiers in the Musical Fidelity F-series, the £3,999 F18 stereo power amp is a hybrid design. A tube-based linear cascode triode input provides much of the voltage gain. The output section is bipolar, using no less than eight pairs of transistors (not MOSFETs) running

substantially in class A, which provides lorry loads of amps as well as volts. Two massive power transformers are specified, but rather than allocate one per channel, the F18 splits them betwen the input and output stages.

The rest of the story is fairly simple: inputs are unbalanced (phono) or balanced (XLR), and output is presented on bi-wirable brass terminals. Power output is 220W into 8ohms, or 370W into 4ohms, with stability maintained for impedances down to the 1 ohm level.

One curiosity is that other than fuses, no output protection circuitry has been included. The class A circuit is essentially self-limiting, and nothing less than a complete short circuit should cause real damage—and only a fool would crowbar the output sockets. According to Musical Fidelity's Anthony Michaelson, output protection has been omitted because of its sonic shortcomings. Well maybe, but my guess is that Anthony, who doesn't countenance fools gladly, is simply being true to form by, er, refusing to countenance fools.

In other respects, the amplifier is perfectly practical. Just remember the golden rule: to connect up first, and switch on last. The F18 has a substantial quiescent current consumption and runs hot, but it warms up quickly and, even for quality-critical use, doesn't need to be left running constantly.

In the flesh, the F18 is a truly impres-

sive object that both looks the part and, at 54kg, feels it too. But big amplifiers don't always live up to expectations.

The F18 is clearly a design that represents overkill in many respects. It's not primarily intended to be used with ultra-difficult (reactive) loads, of which the big Apogees and Martin-Logans are good examples. The F18's prodigious voltage and current yield makes it more suitable for moving coil loudspeakers, especially big, low

sensitivity

Wembley scores again, courtesy of Musical Fidelity's F18.

high speed driving so much easier and more secure than a more conventional car, which is necessarily operating much closer to the limits of its performance envelope.

The F18 is barely breaking into a sweat at anyvolume level that sensible folk will feel inclined to coexist with, and the free-breathing quality and complete lack of strain at high volumes is all but physically palpable.

To an extent, the findings I present may have been coloured by

the fact that the most capable speaker I had available was an electrostatic panel (a recently updated version of the Martin-Logan CLSIIz). I had various dynamic speakers too, including Mission 753s and the Totem Mani 2, an exotically engineered stand mounted compact. With these too the F18 sounded utterly at ease.

But neither speaker nor, in my experience, most other dynamic speakers, have the sensitivity and responsiveness to the rest of the system that a top class panel brings to bear. Therefore, the advantages of the F18 were consequently diluted to a degree.

This amp belongs in the rarefied group of refined, high resolution components and systems. In such company, the F18 stands revealed as a true world class amplifier. It is in a different league to most British amps, except in terms of price, and the equal of all but the most exotic of American super-amps, again except in terms of the price-tag.

Musical Fidelity Ltd, 15 - 16 Olympic Trading Estate, Fulton Road, Wembley HA9 0TF. ☎ 081-900 2866



on es, but, on paper at least, few such speakers need the sheer, physical clout of an amplifier such as this. In principle, Metallica aficionados may well approve of the qualities an F18 can bring to bear, while Monteverdi-heads will probably be left unmoved. But that is before actually sitting down to listen in anger, as it were.

#### Muscular (fi-)delicacy

In many ways, the reality is quite contrary to expectations. I wouldn't go so far as to suggest that Metallica fans will be disappointed, but Monteverdi is remarkably well served by an amplifier that brings a rare sense of ease and transparency to its task.

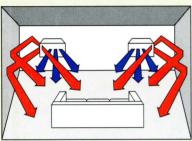
There is no lack of delicacy and grace from an amplifier that combines the muscularity and control of a solid state amplifier with the seamless, treatment of music of a tube design, while avoiding the negative qualities of both. Above all however, F18 brings consistency to the way music is treated, irrespective of frequency, content or level.

An obvious analogy can be found in theworld of cars, in theway that a truly high performance car makes everyday

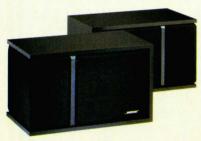
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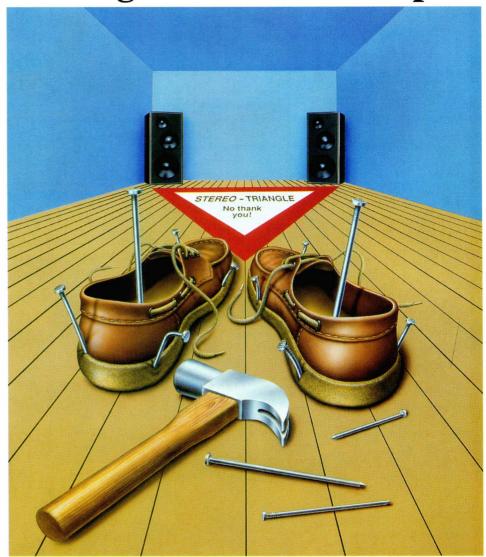
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#### Our experts solve your hi-fi queries

#### May the force be with you

I have a RegaPlanar 3/RB-300/Super Bias, Pioneer A-400X amplifier, Royd Minstrel speakers and Cable Talk 3 speaker cables. Which CD player should I add in the £300 to £350 price band? My dealer warns that the Rotel RCD-965BX (my favourite at present) will sound too forceful in my system

- do you agree?

The Rotel should sound okay; like most Bitstream players it's not overly forward or bright. Why not see if you can borrow a Rotel to hear at home before deciding? Also audition the player your dealer thinks might be best for you, and see how that sounds by comparison.

Hi-fi is not an exact science and although with experience one can often predict how certain combinations are likely to sound, sometimes the end result can be very different from your preconceived expectations.

The Systemdek IIXE/900AP would

s the Systemdek IIXE/900AP a Rega-beater, or should you save up for the Rock?

Is the Systemdek IIXE/900AP a worthwhile upgrade? My dealer advises me to leave the Rega until I can afford a Linn LP-12 or Townshend Rock 3. He says the Rega isn't outclassed by my system and the Systemdek is a

sideways move. C Johnson, London.

make a significant upgrade, but it might be better to go the whole hog and get a Rock 3, have a listen and see what you think.

At this point, look at one of the better add-on phono stages like the Michell Iso, the Audio Innovations P2 or the new Audiolab 8000PPA.

In the meantime check out DNM's Ringmat. At about £30 it will give you a very worthwhile improvement in clarity and detail on the Rega.

#### Query of the month



Each month we're giving away a one metre pair of Isoda interconnect cables to the writer of the most interesting letter. If you've any system queries send them to: Hi-Fi Choice (Help!) Dennis Publishing Ltd, 19 Bolsover Street, London W1P 7HJ.

#### Front end challenger

I am aware of the accepted belief of the 'front-end' hierachy. However, I found that new speakers gave the most immediate and noticeable improvement.

My system comprises an Arcam Alpha CD, QED C300/P300 pre/power combination, and a new pair of Mission 753 speakers.

Since replacing the speakers, I've tried a number of front end variations. However, I am disappointed with what can only be described as very minor improvements in sound quality. Do you still advocate the old emphasis towards the front end, and if so why?

C Martin, Northampton.

The need for a quality frontend is self-evident, but if the sound of your source is entirely adequate for the rest of the system further 'improvements' may not seem very significant. It may be that a better amplifier in tandem with an improved CD player and/or DAC would give the sort of breakthrough you're looking for.

Speakers tend to produce more obvious differences in tonal colour and bass/treble extension than CD players or amplifiers, but in the right system adding an outboard DAC (say) can sound subjectively as significant. Your experience only proves how dangerous it is to apply strict rules to building a hi-fi system; any system is only as good as its weakest component.

#### Don't knock paper

My system consists of Moth Series 30 passivepre/power combination, a Rotel RCD-965BX CD player, and Linn Index II speakers. I wish to upgrade the speakers to Audio Note AN/Js but am concerned by the fact that they use paper cone drive units. Is this a bad thing?

Speaker manufacturers like Linn and KEF insist on plasticconed drivers to keep up with modern technology. Are paper drivers out of date?

A Abou-Shaqra, Saudi Arabia.

Presumably you've heard the Audio Note AN/Js and liked them — otherwise why change? The use of paper cone drivers should impart a lighter, faster, more lively presentation, albeit perhaps at the expense of a little added coloration.

The comparatively light weight of a paper cone also help to make a highly efficient speaker — useful with your excellent, low-powered Moth amplification. The important thing is that you hear these speakers and like their sound; the type of drivers used is surely irrelevant.



Are Audio Note AN-J speakers behind the times?

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### Hounding down a needle

I have a Systemdek IIX turntable fitted with a Linn Akito arm and an aged Audio Technica AT-155 MM cartridge. The amplifier is an first series Audiolab 8000A, driving Castle Chesters.

As it seems unlikely that I will be able to replace my old AT stylus, I'm looking for recommendations on a suitable replacement cartridge. My budget is up to £200, and I can consider MM or MC types.

N Hambridge-Muedd, Essex.

£200 is probably a bit excessive given your turntable; you should be able to get a good moving magnet cartridge for under £150. Linn's K-9 would be a good starting point, as it's crisp and detailed without being too bright. Goldring's 1042 is a decent alternative that works well in Systemdek turntables.

#### Hyper sensitive

My current system consists of a Linn Axis/LVX/K9 turntable, an A&R A60 amplifier (late model), NAD 4225 tuner, NAD 6050C cassette deck, and a pair of Mission 761s on Mission stands with Supra cable.

I have at last decided to face up to the inevitable and am going to buy a CD player, but don't know which one. Will a typical player be suitable for the A60's auxiliary socket with its 100mV sensitivity?

C Fox, St Albans.

A good choice would be Arcam's Alpha 5, a clean but lively player that sounds very immediate and involving. If you wanted to spend less look at Rotel's excellent RCD-965BX, or the highly regarded Marantz CD52II SE. There should be no compatibility problem with the A60 despite the apparent mismatch of 2V output into a 100mV input, however: the former refers to maximum output, the latter to a minimum requirement.



#### Video fights back

I've had my system -Marantz CD-52II SE CD player, Technics SU-A600 amp, and Mission 760i speakers - for three months now, and it was excellent until I connected my Philips Nicam video to the amp. Now I keep getting little electric shocks when I touch metal parts.

I asked my dealer who phoned Philips, and they said it's normal for this video to have a current running through its casing. But why is this so? Is there any way of solving the problem?

#### J Johnson, Liverpool.

Some of the items in your  $system-the\ CD\ player\ and$ probably the video too have a detachable figure of eight reversible mains lead. Try reversing the lead to the video and see if there's an improvement. If your system isn't earthed to the mains you could also try running a wire from the earth pin in the mains plug to the grounding post of the amp; with luck your problem should be solved. If you're in any doubt about what to do, consult a qualified electriciarl.

#### Torn and frayed

I have an Arcam Alpha 5 CD player, Linn analogue interconnects, an Arcam Delta 290 amplifier and Linn *Index* speakers (old type)

connected with Linn K20 loudspeaker cable. I decided to go for a Delta 290 having bought an Audiolab 8000A, as I found the latter's 'neutrality' made CD sound fatiguing.

The Arcam's laid-back presentation is more listenable, though there is some loss of clarity. Would I get an improvement in clarity by changing cables, without losing out and making the system sound more fatiguing?

H Cooper, London.

Going for a simple solid core speaker cable, like DNM or perhaps the recently introduced Chord Flatline, should improve clarity without introducing too many problems. Of the two, Flatline is likely to give the most balanced treble/bass performance, being fuller and less sharp than the DNM. Both should sound cleaner, if less rich, than your Linn K20.



#### Rural peacebreaker

I wish to add a CD player to my system, but need one which produces little or no mechanical noise. Over the years, I've tried a number of players from Marantz, Sony, Yamaha, and Technics, but physical noise has marred the performance of each, even though the basic sound was tolerable. I live in a rural setting and tend to play music at low volume levels. Budget is about £600, or slightly more if it the improvement is worthwhile.

P Hodson, Newburn.

Players that use Philips-type mechanisms with the swing-arm laser pickup tend to be noisier than machines which use linear-motor-driven pickups. Some players produce a faint swishing/hissing noise while operating, others may give a ticking/clicking sound.

It's important to realise that physically-clean CDs (no scratches, dust, or thumb-prints on the playing surface) can help reduce mechanical noise. If you treat your discs casually, and allow them to get soiled, expect noise. Pioneer's Stable Platter CD players tend to be pretty quiet, especially the PD-77 which has a fantastic transport.

Unfortunately the PD-77 is outside your budget, but you might find a secondhand PD-75 at the right price. Otherwise, give the PD-S901 a try.

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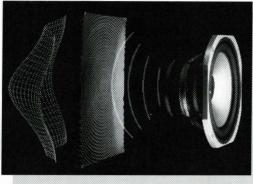
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#### Hi-Fi Choice - January 1994

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Audiophile - January 1994

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#### Dynamism shortage

My system consists of an Arcam Delta 270 CD player, an Audiolab 8000A amplifier, Audiolab 8000T tuner, and Rogers LS-7 speakers.

Although I am satisfied with the sound of classical music, rock lacks the dynamism that came from the Rogers LS-4s and Epos ES-11s my dealer used during demonstrations. My 30ft by 12ft listening room is well over twice the size of the demonstration room, and I'm concerned these small speakers would sound inadequate. Would Epos ES-14s suit my room better than the ES-11s?

It's often the case that dealer demonstration rooms produce a bright, forward sound; the same system used under typical domestic conditions will usually sound richer and warmer. That said, your Audiolab amp and Rogers LS-7s are on the smooth and laid back side compared to some amps and speakers. The ES-14s could well be the answer, but ask to try them first before committing yourself. The danger is, getting a sharp lively attacking sound for rock might not suit classical music!

#### **Bass mandate**

L Pettitt. Worcester.

I am going to dedicate a small room to music and, due to limited space, have decided to buy a pair of little speakers. However, I really need the bottom octaves, so a subwoofer would seem mandatory. Having read a recent Hi-Fi Choice, the REL Strata looks like what I want, but I have no idea of what main speakers to use with the subwoofer.

A Rice, address supplied.

Most conventional subwoofers incorporate some form of bass roll-off for the main speakers, to avoid both subwoofer and main speaker system covering the same frequency area. REL subwoofers are different; your main speaker system is fed with a

full-range signal and the subwoofer

in the lowest frequencies only.

is adjusted to come in below it, filling

You can therefore choose your main speakers by listening and comparing till you hear a sound that pleases. Try a full-sounding small speaker like the Arcam Delta 2, which gives good bass for its size.

#### Will Rogers speakers prove too laid back with rock music?

prove adequate?

I listen to rock and want substantial bass capability, but crisp, clear mid and treble. Any advice on either of the two CD players? The MCD sounded great, but the latest Meridians seem pricey these days.

#### P Denman, Oxford.

It's always hard to say how a complete replacement system will fare against a different blend of components, but chances are your proposed system will sit on the warm/full side of neutral. That said, your previous CD and speakers were not among the most lively either.

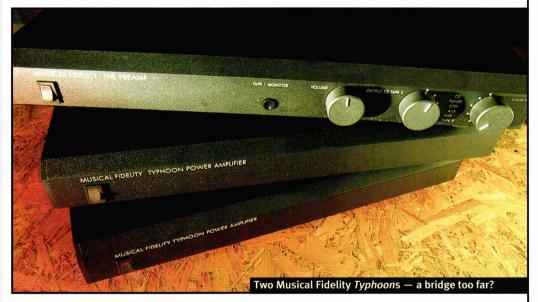
The Technics amp has plenty of muscle, unless you're a real headbanger. Try Orelle's CD-480 CD player against the Marantz models; its livelier, more detailed/dynamic sound should be better for rock.

It depends on whether spending £140 (probably more, if carriage to and from Holland is included) is painful to you. This is certainly a very costeffective upgrade for any reasonably decent player. Ring Trichord on (0684) 573524 for details.

#### Wind power

My system consists of a Meridian 206ΔΣ CD player, Linn Axis/Akito turntable and bi-wired Ruark Broadsword speakers with a Musical Fidelity Typhoon power amp. I feel the Typhoon is struggling to drive the Ruarks, and wonder if adding a second Typhoon (as suggested by my dealer) would be the most costeffective upgrade. Or should I go for another combination, like the Audiolab 8000C/P?

A Crisp, Dorset.



#### Rockin' replacement

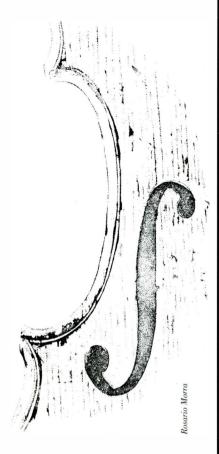
To replace stolen John Bowers Active One speakers and a Meridian MCD CD player I propose Monitor Audio MA 1200 II Gold speakers, a Marantz CD63 or CD-72SE CD player, and a Technics SU-A900 amplifier. Given the choice of loudspeakers and their 100W maximum power handling, will the Technics amp

#### No pain, plenty gain

In issue 128 of Hi-Fi Choice I read about a middleaged Philips CD-850 being re-clocked. I have such a player and am very interested in this process to transform the sound of my unit - is it painful? If not, can you give me the address or phone number of Trichord Research in the UK?

S J Winders, Holland.

Adding a second Typhoon would give you two options: you could go from bi-wiring to bi-amping, driving each half of the speaker separately; or you could bridge them for an increase in power. You'll notice a big increase in liveliness and gain. The sound will seem more dynamic and alive even at low levels. Double bridged Typhoons should better the Audiolabs, as well as costing less.



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# WRITE ON!

#### Tell us what you think about hi-fi and music

#### In support of CDs No. 1

Your letter of the month for June, *The Digital Trade Off*, can't be allowed to pass without comment from Teac as we, rather flatteringly, were singled out as the leading example of digital technology in the letter.

If it isn't the specific CD player (the one mentioned was the Teac *VRDS-10*) but digital technology that is the problem for Mr Bradbury, then why is it that so many 'audiophile' recordings are not only recorded digitally but are also mastered digitally?

Teac can speak on this matter with some authority, being one of the biggest manufacturers of professional digital recorders in the world. Such recordings would surely lack 'feeling' from the start of the process irrespective of the analogue or digital nature of the end user's medium. Surely no one is suggesting that this is the case?

Dave Hatton, Marketing Co-ordinator, Teac UK Ltd.

#### In support of CDs No. 2

The notion that vinyl sounds "better" than CD is a matter of opinion. True, some people may prefer vinyl, but this is not an indication that it is a more accurate representation of the original sound source; in fact the opposite may be true.

During the recording process, the signal for a vinyl record must be greatly compressed, because the medium simply cannot support the dynamic range required to record most musical sources. Given that compression is often used for effect in some types of recording, it is only natural that the compressed sound of vinyl may be more attractive to some listeners. Because of the mechanical nature of the recording process, there are a considerable number of points in the reproduction process where

the audio waveform becomes distorted. But this is harmonic distortion, and may make the sound more appealing. In short, vinyl may sound "better" because it has less accurate reproduction than CD! Anyone of who prefers the sound is a distortion junkie — they just don't realise why they like vinyl.

Brian Adams, senior technician, Educational Computer Unit, County Antrim.

#### Music to our ears

Recently I was lucky enough to be able to replace my four-year-old budget system. I had a budget of £1,100 and was in need of advice so I turned to *Choice*. I was very sceptical about how much I could improve the sound of my old system, but how wrong I was.

After auditioning a number of separate components in a variety of combinations, I finally settled on a system that sounded fantastic in the listening room; and after adding ballast to the stand, bi-wiring the speakers and using decent interconnects (your advice again) I was ready to go.

What a sound — I really hadn't imagined what I was missing (literally). The stereo imaging, definition, clarity of treble, mid and bass in comparison to my old hi-fi system was as different as a Rolls Royce to a Reliant *Robin*. Now I want to know: how much better does it get?

Chris Dale, Tadley, Hampshire.

#### Black is black, I want a coloured DAC

I can't understand why manufacturers go for black all the time. It's depressing to look at, and after several days it looks as though it hasn't been dusted for months. I nearly purchased a Marantz CD in champagne gold but it cost an extra £50, so I settled

#### Letter of the month

Each month, we're giving away a fabulous Hi-Fi Choice sweatshirt to the writer of the most interesting letter we receive.

So get scribbling and send in your views on anything to do with hi-fi or music to: The Editor, Hi-Fi Choice, 19 Bolsover Street, London W1P 7HJ, or send a fax on 071-323 3547.



#### Hairy hi-fi

As a reputable hi-fi magazine I believe you should encourage your readers to smoke marijuana. As you hi-fi reviewers are undoubtedly aware, it greatly enhances the listening experience.

A firm round of applause also



for your EAR publication. It could well fill a niche. But please remain high-end. If I want to look at a £200 amp I can go next door and see my neighbour's. Lots of people buy exotic car magazines not to look at Ladas and Ford Escorts, but to drool over Jaguars

and Aston Martins.

And finally, if this letter wins me a sweatshirt, could Iswap it for an Audio Note Ongaku? I appreciate the price difference is rather dramatic, but I promise to buy Paul Messenger an Acme Deluxe Beardtrimmer. My son thinks Paul looks like his grandfather. Unfortunately, my son's 42 years old. So how old is Paul?

Bryan Palmer, Derbyshire.

Here's your Ongaku. Paul says he's not much over 21 and a beard trimmer would be lovely.

for the CD52SE in black only.

Another point I'd like to make is to do with the attitude of some hi-fi shops. I often find that they try to sell you components that they have been stuck with. Also, some can be quite rude if you decide not to make a purchase — I was once told to go home and look through hi-fi magazines to see if I could buy something cheaper in another store.

Very often it is difficult to

listen to a lot of components in one listening session, as most hifi shops don't have the room; and sometimes it seems if they do get hold of a specific component you have to have it, be it good or bad.

That's what's so good about hifi shows, as there is no pressure to buy and you feel very relaxed when listening. Unfortunately, there aren't as many big shows as there used to be.

G A Hewes, Leicester.

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## 21st Century Fox

Never one to shy away from the awkward questions, Barry Fox ponders the logic behind the self-effacing manual accompanying Sharp's new MiniDisc recorder. He also speaks up in favour of piping down while chewing on the subject of omnipresent muzak.

harp' new portable MiniDisc recorder, the MD-M11, is scheduled for launch in the UK this July, at a price of around £450. It's very small, but packed with many features, meaning that its functions must be selected and controlled with a few tiny buttons. Each of these serve several different purposes, depending on when and for how long they are pressed.

This wouldn't matter if every piece of domestic electronic equipment had its basic buttons labelled in the same way, and performed basic functions with similar key sequences. But, of course, they do not. Each manufacturer expects the userto learn and remember completely different controls for different machines.

In practice, many people take one look at the instruction manual, lose it and for ever more use only the most basics top and start controls. They nevereven knowwhat advanced features are buried inside their high-tech gadgets, let alone use them.

A dedicated minority of people do plough dutifully through the entire  $instruction\, book and\, try\, out\, most of the$ features, but even they will have forgotten all but the basics within a couple of days. The whole point of DCC was that it would be easy to use, because it builds on thirty years of familiarity with the analogue cassette. But I still have to keep themanual for the Philips DCC 900 deck handy, to remind me how to record on part-blank tapes, using arcane functions such as Append Play, Start Marker Write and Reverse Marker Write.

The same is true of AV amplifiers, DSP surround-sound decoders, memory bank equalisers, programmable CD players, timers, alarms, radio and TV tuners, infra-red remote controls and VCRs. All use completely different con $trol\,logic, depending\,on\,the\,maker.$ 

Compare this with the car industry: although rival manufacturers offer competitive features, the basic driving controls and dashboard lay-out are always the same. When you buy, borrow or hire a car, you can drive it away after only a few minutes' familiarisation.

Likewise personal computer, which use either the Apple Mac or Microsoft DOS/Windows operating system. Once learned, DOS is always useful as the bedrock on which individual PC manufacturers build features and facilities.

But it's still not too late for the electronic industry trade bodies (BREMA, EIA, EIAJ et al) to draft a set of basic recommended control sequences and control labelling for all classes of consumer electronic equipment. Manufacturers could then build their competitive advanced features on top of this basic vocabulary. The public would vote with its feet against manufacturers who ignored the recommendation and used completely different logic.

#### **Bewilderingly honest**

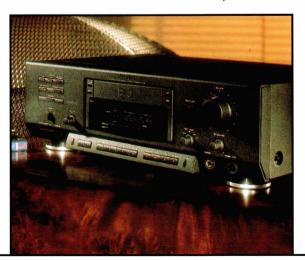
Which brings us back to the Sharp MD-11. Will UK users get the same instruction manual as their American cousins? The latter is really the most extraordinary document, written as if someone from Philips wanted to highlight all the disadvantages of the MiniDisc system. Every section is peppered with notes and warnings that point up limitations. Here are just two excerpts:

"The display of the remaining disc time may be somewhat different from the actual remaining time..."

"If strange sounds, smell or smoke come out of the unit..."

And that's not to mention a whole

You need a good memory to keep abreast of domestic electronic devices. Barry Fox still struggles with the  $\bar{P}\bar{h}$ ilips DCC900 and he's an expert...





page under the the bold heading: "MiniDisc System Limitations"

Another section warns that "when you do this (erase a track that is already recorded), all of the tracks and track names that follow the newly-recorded track will be erased".

Between the lines I read a clear message: Sharp is saying that the MiniDisc standard format could have been much better thought through, if Sony had not been in such a mad rush to get the first-generation players onto the market ahead of DCC.

#### Wrigley's Spearmint schtum

On a totally different note, I recently joined Pipedown, "the campaign against piped music". (6 Kingsley Mansions, London W14 9SG.) For an annual subscription of £10 you get the comfort of good company (George Melly, Kingsley Amis, Spike Milligan, John Lill etc), a car sticker, a couple of 'anti-Muzak' signs and a bundle of printed cards which you can give to any pub, restaurant or hotel which inflicts lo-fi piped music on people who would far rather have silence.

The cards all have very polite messages like "Why not turn it off?" or "The lack of piped music offends almost nobody... so please turn it off". Being rude, after having had a meal spoiled by musical drivel or overblown distortion, would usually be counter-productive.

Pipedown might also like to pass on a story about big-band trumpeter Bunny Berigan, told years ago by Al Rose and now reprinted in Miles Kington's Jazz Anthology (Harper Collins). Berigan always carried several packets of chewing gum. When he went to a bar for a quiet drink and found there was a jukebox, he would quietly put several sticks of gum in his mouth and wander purposefully to the record machine, to all intents and purposes selecting a song to play. Instead of putting a coin in the slot, however, the trumpeter would pack it full of Wrigley's and push the slide in.

This kept the bar quiet for at least as long as it took to have a couple of drinks. Back when King Kong was a box office smash, Alan Blumlein's dream was to produce sound in stereo. Sixty years later, his son Simon continues the family tradition in Petersfield. Alan Sircom uncovers the Blumlein legacy.

imon Blumlein is the owner of a tiny specialist music shop in Petersfield, Hampshire. This shop stocks all things musical, from sheet music to guitar strings, CDs to boxer shorts printed with musical notes. Upstairs from this musical emporium is a small hi-fi shop,

stocking a small selection of quality hi-fi equipment.

So what? Simply that Simon Blumlein is the son of one Alan Dower Blumlein, inventor extraordinare and the man who is widely considered to be the father of stereo.

During his career at the Columbia Gramophone Co, Alan Blumlein developed a magnetic recording system and later, after the company had been merged into the then new Electric & Musical Industries Ltd (EMI) in 1931, he produced a classic patent

outlining the basic framework of modern stereo recordings. Blumlein also designed and built equipment to produce the first stereo recordings, some of which exist to this day. The record company Symposium recently presented Simon Blumlein with a stereo 78 recording made by his father in the mid-Thirties.

In his shop, Simon proudly displays acertificateawarded posthumously by the Audio Engineering Society, suggesting that his father's stereophonic work should rank alongside that of other top audio pioneers.

Simon has many wry anecdotes from the Thirties and Forties concerning his father, even though he died

#### Blumlein biography

If the hi-fi industry had an Einstein, it would have been Alan Dower Blumlein. By the time of his death, aged 38, he had been granted 128 patents, in everything from telephony to television, radar to measurement. His house in Ealing sports the only blue 'famous resident' plaque in the area — the only

THE AUDIO ENGINEERING SOCIETY

Gereby Certifies its Recognition of

Alan Dower Blumlein

one awarded to a 20th Century electronics engineer.

Alan Blumlein died on 7th June 1942 in an air crash. He was flight testing the then new H<sub>2</sub>S airborne radar system in a Halifax bomber, when its starboard engine caught fire and burned through the main wing spar.

This airborne radar system was later used against German U-boats with such success that Nazi submarines were removed from active service in the Atlantic conflict.

It is for his pioneering work on stereophonic recording methods that Blumlein will be remembered. His work for EMI in 1930/31 developed the first practical stereo recordings. Keller of Bell Telephone Labs also investigated stereophonic recording, but his system was radically different to Blumlein's — although the system needed far more post-war development before it could be commercially successful, it was Blumlein's ideas that were put into practice in the late 1950s.

He was also heavily involved in the development of EMI's 405-line television, that was adopted by the BBC over the earlier, largely static and mechanical system designed by Baird.

The name of Alan Dower Blumlein is not as well-known as it deserves to be; it should be up there with John Logie Baird and Thomas Alva Edison.



when Simon was just six years old. He distinctly remembers those days at the family home in Ealing: "It was a marvellous education, while it lasted. My father had me tapping into the mains when I was six and I was always encouraged to experiment."

His father also cultivated Simon's love for railways, once describing in detail the how the trains shunted in the Guinness factory at Park Royal. In fact, one of the first stereo recordings was made of a train outside the EMI factory in 1933. The memory has stayed with Simon, who is now a veteran member of the Swiss metre-gauge rack and pinion enthusiasts club.

Though he was only a year and a day old, Simon saw the first televised coronation. This was not Elizabeth II in 1952, but George VI in 1937. As he was so young, he can't remember the event, but he does have a certificate signed by a dozen witnesses to prove that he is one of a very select band to have seen more than one coronation on television.

Simon continued in his father's engineering tradition, spending nearly 30 years manufacturing lenses for spectacles before he was made redundant. During this time, he made the gradated reading glasses that, like his everpresent bow-tie, sit permanently on the bridge of his nose.

Having left the world of optics behind him, he spent most of his time browsing through the racks of classical CDs and talking about different methods of recording. One day, his wife turned to him and suggested that as he was so enthusiastic about music, he should make aliving from it. Not one to flinch at a challenge, he set up his music shop three and a half years ago. "It couldn't have been a worse time to set up a shop—right in the middle of a recession. But if you can prosper in lean times, it gives you a good grounding for when things get better."

As an owner of a specialist record shop, Simon offers advice to people regarding classical recordings, and often plays discs on his Denon *D-110* system played through Rogers *LS3/5a* speakers in the shop. Many people in the area asked where they could get

# In the name



# of the father

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such a nice-sounding system and it seemedlogical that he should set up a hi-fi department.

About four months ago, he finally turned two rooms above his tiny music shop into a hi-fi demonstration room. It is still comparatively unsullied by the ravages of hi-fi pretension, stocking the barest minimum of products from Denon, Rotel, Castle, B&W/Nakamichi and Quad.

Blumlein has yet to develop a large hi-fi clientèle, but his band of loyal and avid music collectors are slowly beginning to discover the joys of hi-fi.

As Simon spends about 12 hours a day in his shop, with all the time, energy and music that entails, he seldom has a hi-fi system at home. His main listening system is also in the main demonstration room and comprises a Nakamichi DR-3 cassette recorder; Quad 67 CD player; 66 tuner and preamplifier; 606 power amplifier and either Quad ESL-63 or Castle Howard speakers, depending on the demonstration schedule.

His stance toward system tweaking is resolutely based on engineering principals. He feels that Peter Belt, green pens and even fancy cables have no valid basis in physics or engineering. This philosophy is reflected in his system which all runs from the same mains plug, with no frills, novalves, no luxuries - just refined, conservative engineering, built to last a lifetime.

On his business card, Simon Blumlein has a logothat demonstrates the original crossed microphone arrangement first developed by his father. It also proudly states "Blumlein -The First Name In Stereo", one of the only claims in hi-fi which is wholly without contention.

### A plethora of patents

Alan Blumlein issued (or collaborated on) 128 patents one for every six weeks of his working life. The patents touched almost every aspect of electronic engineering between the wars. A selection of his more important patents include:

334652, June 1929. Telephone loading and phantoming coil (using the 'closely coupled inductor ratio-arm bridge' technique).

3509984, March 1930 (with HE Holman). Cutting head for gramophone recording (electromagnetic damping arrangement).

#### 394325, December 1931.

Stereophonic recording and reproduction (the system description and details of techniques).

425553, September 1933 (with HAM Clark). Negative-feedback power amplifier (with both current and voltage feedback).

### 429022, October 1933.

Stereophonic sound (use of differently spaced microphones for different frequency bands).

448421, September 1934. Cathode follower for increasing input impedance of valve.

456444, February 1935. Arrays of microphones with outputs mixed to give various polar diagrams (these ideas derived from the techniques used in stereophonic sound).

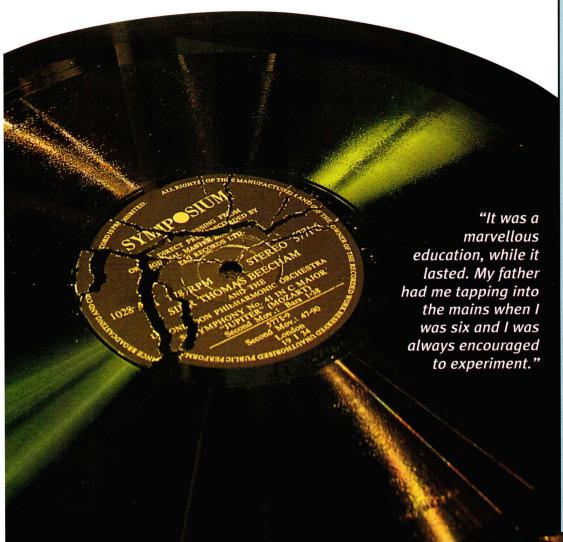
474607, April 1936 (with ELC White). Stabilised HT supply (using series triode).

496883, June 1937. 'Ultralinear' amplifier circuit (screen tapped in on output transformer, to improve linearity).

503555, October 1937. Highdefinition television system compatible with a low-definition system (a fine spot is used, and carefully synchronised spot wobble allows extra detail to be received on special receivers).

515684, March 1938. Tube with longitudinal slot, used as a slotted aerial or as a feeder.

592503, October 1942 (with ELC White and FC Williams). Radar system for searching (in range) and locking onto any echo found.



This is one of

a handful of

Blumlein Sr.

in the 1930s.

stereo 78s

made by

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Choice takes a look at a new digital radio from Amstrad — just one of the many products up for review in our Sessions pages.

September's issue will be out on sale on Friday, August 12, 1994.

(All contents subject to change because of circumstances beyond our control)



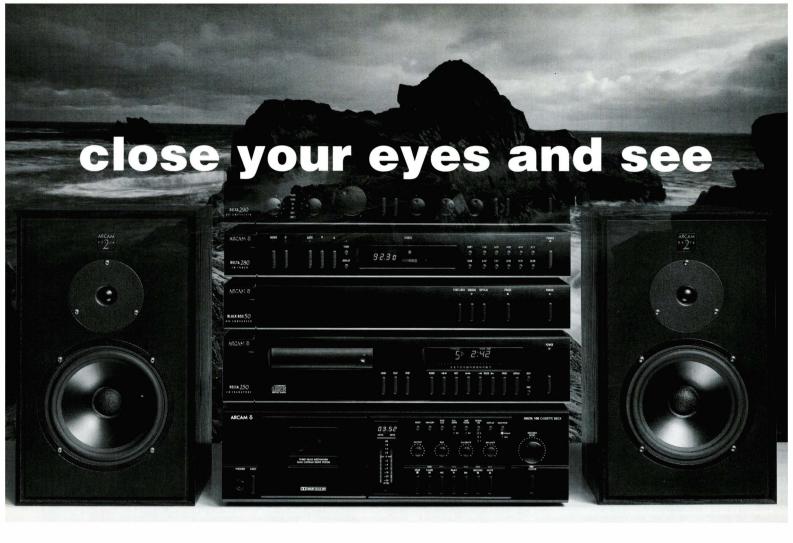
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power amplifier? a) van der Valk b) Cardas c) van den Hul d) Audio Note

5. What internal wiring is used in the stere





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Next cast a jaundiced eye on the Delta 280 tuner. Again, disregard the pleasing aesthetics and the convenience of remote control\*. Don't even be led by reviews revering its sound as "lucid", "warm" and "attractively open". <sup>(5)</sup>

Then, visit your scepticism on the Delta 270 CD player. "Solidly built", it "strikes a balance between smoothness and punch" to gain a class leading, 5 star recommendation. (4)

If that's not enough, take a sideways look at our remarkable two-box CD player, the Delta 250 CD transport and Black Box 50 DAC. "To justify their significant cost, two-box systems really have to offer that little bit extra in terms of sound quality; but Arcam's combination does just that – and more". <sup>(5)</sup>

Next, move on to the Delta 100 cassette deck. Try to dismiss once again its 1992 Chicago CES award and the reviewer who gushed, "In the beginning, I called for a round of applause for Arcam's bravery in producing a British-made cassette deck. At the end, I'm asking for a standing ovation". <sup>®</sup>

Finally, muster up your best disinterest for the "extraordinarily well engineered" <sup>(7)</sup> Delta 2 loudspeakers, "a firm, positive sounding design with bold bass and mid and a firm grip on the musical architecture". <sup>(8)</sup>

In fact, ignore everything anyone else tells you. Ignore even what your eyes tell you is true. Just let your ears decide.

Just listen. Close your eyes, open your mind, and see the light.

1. Hi-Fi Choice. March 1993. 2. Audiophile. February 1993. 3. Audiophile. April 1993. 4. What Hi-Fi? Awards issue 1993. 5. What Hi-Fi? November 1993. 6. Hi-Fi World. April 1992. 7. What Hi-Fi? Awards, 1991. 8. Hi-Fi News Buyers Guide. November 1993. 6. Hi-Fi World. April 1992. 7. What Hi-Fi? Awards, 1991. 8. Hi-Fi News Buyers Guide. November 1993. 6. Hi-Fi World. April 1992. 7. What Hi-Fi? Awards, 1991. 8. Hi-Fi News Buyers Guide. November 1993. 6. Hi-Fi World. April 1992. 7. What Hi-Fi? Awards, 1991. 8. Hi-Fi News Buyers Guide. November 1993. 6. Hi-Fi World. April 1992. 7. What Hi-Fi? Awards, 1991. 8. Hi-Fi News Buyers Guide. November 1993. 6. Hi-Fi World. April 1992. 7. What Hi-Fi? Awards, 1991. 8. Hi-Fi News Buyers Guide. November 1993. 6. Hi-Fi World. April 1992. 7. What Hi-Fi? Awards, 1991. 8. Hi-Fi News Buyers Guide. November 1993. 6. Hi-Fi News Buyers Guide. November 1993. 6. Hi-Fi World. April 1992. 7. What Hi-Fi? Awards, 1991. 8. Hi-Fi News Buyers Guide. November 1993. 6. Hi-Fi News Buyers



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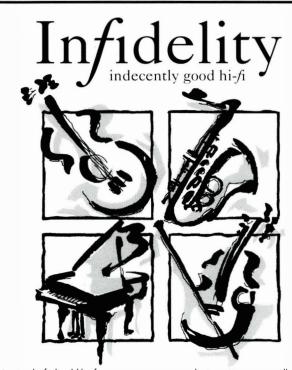
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# **ON TEST**

# CD transports and DACs



Top digital expert Paul Miller introduces the latest CD transport and DAC combinations culled from a single manufacturer and explains how he tests them.

ver the past few years, our tests have reflected the diversification of modern digital audio, which has branched out from the integrated CD player to encompass separate CD transports, outboard converters (DACs), digital interconnects and (on page 58), the likes of recordable CD, DCC, DAT and MiniDisc.

Nevertheless, when reviewing CD transports and outboard converters, for example, it's always possible to miss a truly

### Are two boxes always better than one?

A conventional single-box CD player is, from a digit's point of view, a very noisy place. A place where many separate digital and analogue processes are taking place simultaneously, interfering with one another by cross-coupling through common power supplies, circuit boards and enclosures. This interference can contribute to jitter (a blurring of transitions in the data) which, in turn, only increases the muddying of the music.

A two-box player seeks to lessen any such interference by placing laser assembly, focus, tracking servos and decoder functions in one box, isoalted from the oversampling, DAC and analogue filtering circuitry in another. Neat idea. However, before the data is squirted from CD transport to DAC, it must be altered from the standard language of I2S to S/PDIF (Sony/Philips Digital Interface Format).

Once captured by the DAC, this data is then translated back into I2S, having already recovered both the original data and clock signals. Naturally, a single-box player avoids all this malarkey and thus avoids yet another potential source of jitter or, in the worse case, corrupted data.

Two-box players are no panacea but simply an alternative method of skinning a compact disc.

symbiotic relationship — that ideal match between a transport and a DAC. So where better than to continue our search by returning to the genuine two-box CD player, where both transport and DAC hail from the same manufacturer? In theory at least, this represents a digital marriage made in heaven.

In certain cases we've covered one or more of these components previously, in isolation, for example Arcam's Black Box 50 with its hybrid converter and Sync Lock facility, and the matching Delta 250 transport. Up to this point, the pair have never met on the reviewing field.

Provided each transport and DAC conforms to IEC958 (a standard for digital inputs and outputs), no single transport/DAC combination should be any more 'compatible' than another. In practice, though, it's not uncommon for manufacturers to engineer a quirk or two, loading the dice in favour of their own separates. Features and facilities, however, remain quite unaffected. As a result there's no reason why a two-box CD player shouldn't offer the same options as a conventional integrated CD player.

In practice, the exotic combinations on test rarely match the feature-count of a well-specified mid-price Japanese CD player, but they do offer one special widget that's rarely encountered on the singleboxers: the phase-invert switch.

Phase inversion is accomplished by changing each digital one for a digital zero (and vice-versa) within the DAC. It has the same effect as swapping over black and red loudspeaker leads, reversing the motion of the speaker cone note by note. Depending on your choice of speakers, the absolute phase of your amplifier and the relative phase of different instruments within a multi-miked recording, you'll find some CD tracks sound better 'phasepositive', and others 'phase-inverted'.

We've assembled eight of the latest twobox players from what is both a restricted and eclectic field. After all, many more manufacturers churn-out D/A converters for the upgrade market than produce fully-fledged transport/DAC duos for the well-heeled enthusiast.

This is because Philips' Red Book licensing agreement only covers the CD mechanism, not how the digital data is manipulated once it's been recovered.

Furthermore, all facets of basic CD technology are represented in equal measure, including examples of Far Eastern threebeam and European single-beam laser transports. We've various bitstream, 18bit, 20-bit and hybrid DAC technologies on offer too, together with a full gallery of different electrical and optical digital interconnections. A digital panorama that brings our coverage of the CD market bang up to date.

### What the laboratory tests mean



In accordance with our usual procedure for CD players, each of these transport/DAC combinations was warmed up for a minimum of 72 hours before being auditioned under strict, blind conditions. Each one was evaluated using a broad repertoire of classical, jazz, folk and pop vocal music, with each and every track adjusted to a predetermined listening level.

Where one was supplied, we used the preferred digital interconnect of each manufacturer or distributor: otherwise we reverted to both Goldmund Lineal and Audioquest Video Z interconnects (established favourites from our cables supplements, issues 108 and 131) or, where appropriate,

Toslink optical links from Furukawa and Monster.

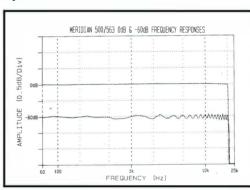
The remainder of the system comprised updated versions of the DPA 100S pre/power combination, Audio Note AN-E/B and REL Stentor (subwoofer) loudspeakers. Remember, Hi-Fi Choice remains the only magazine which regularly employs an impartial panel who audition equipment unaware of its origins. As a result, we are able to judge sound quality without preconceptions. Thanks are due to Neil Burt (Rogers), Guy Sargeant (Audio Innovations) and Alan Sircom (Hi-Fi Choice) for their participation in this month's test.

### Understanding the frequency response plot

This graph demonstrates the response of the player at both peak level (odB, upper trace) and at a low level (-6odB, lower trace). Ideally, the upper and lower responses should match one another, but in this case changes in linearity and noise are revealed by a change in the smoothness and extension of the lower, -6odB trace. Our example plot (from the Meridian 500/563) demonstrates an obvious change between high and low-level responses.

Ripples in either response are often due to the oversampling filter, though bolder ripples on the low-level trace may be

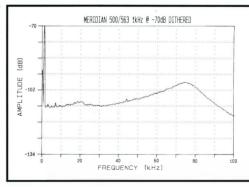
indicative of undesirable cross-coupling within the player.



### Understanding the dithered -7odB/1kHz plot

Dither is used to swop predictable harmonic distortions for a slight increase in noise through the audio band (o-20kHz). Look out for a hump of ultrasonic noise beyond 20kHz on this plot (taken from the review of Meridian's 500/563). This is a feature of many bitstream DACs whose noise-shapers are used to re-distribute huge levels of requantisation noise.

Traditional multi-bit DACs are often 'cleaner' above 20kHz and, as a result, often perform far more consistently when partnered with different amplifiers.

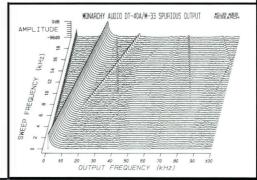


### Understanding the 3D spurious output plot

Distortion and sampling images are most graphically illustrated on the 3D plots. Here an audio frequency sweep (20Hz-20kHz) reveals continuous changes in performance rather than at one frequency. Our example plot (from

the Monarchy DT40a/DIP M33) shows 2nd and 3rd harmonic distortions radiating out to the right of the main sweep.

In addition, sampling or stopband images are represented as whole or partial V-shaped patterns, centred on multiples of the 44.1kHz sample rate. These digital distortions are indirectly audible, through there are other types of distortion that may, or may not, be audible through the amplifier used to partner the CD player itself in the context of a system.



**ARCAM DELTA 250/BLACK BOX 50** 

lowly but surely, each successive generation of Arcam's CD transport and Black Box converter has witnessed some modest improvement. But five generations later those incremental upgrades have culminated in something very significant indeed; the Delta 250 transport and Black Box 50 converter.

Naturally, we've already covered both products in isolation where they achieved a Recommendation and Best Buy en route (issues 130 and 127). Nevertheless, it's only when put together that Arcam's proprietary Sync Lock facility comes into full effect, tying the flow of data within the D250 to a single master clock situated in Arcam's BB50.

This clock feed takes the form of a 2.8224MHz signal, squirted between the BB50 and D250 via an optical fibre, synchronising the 'timing' of data as it travels from transport to DAC. Digital jitter and analogue distortion are both reduced as a result. Sadly, Arcam's Sync facility is not compatible with other like-minded links from DPA, Linn, Mission or Audio Synthesis.

None of this influences the standard track access, program, repeat and search facilities offered by the D250, nor the phase-invert widget provided on the BB50. Flexibility without complexity — that's the key to this sober-looking partnership from Arcam.

### Sound quality

Building upon its performance in issue 127, where it was described as inviting but measured



Expressive and sophiticated: the Delta 250/Black Box 50 is a great combination.

and sure-footed, the BB50 was likened to a bigger but more refined version of Mission's Disc/Dacmaster. Now its neutral and even-handed balance revealed the earthy bass line of Mary-Chapin Carpenter's Never Had It So Good as effectively as it did the delicate, fluttering percussion that accompanies Lyle Lovett through

another favourite track, Good Intentions.

Whatever the style, its music always comes across with a great sense of relaxed clarity, providing a real insight into the colour and conviction of different instruments without appearing heavy-handed. It's a good example of a player that sounds smooth and sophisticated but manages to avoid sounding sugar-coated.

So the backing piano from Lyle Loyett's CD jumped out with great confidence just as the close harmonies were nimbly separated — two feats of resolution achieved with forcefulness. My only criticisms are of a hint of edginess with powerful strings and vocals but, according to the panel, it is a very minor quibble.

### Conclusion

weighty sound;

little detached.

(0223) 440964

affordable.

In issue 127, we suggested that Arcam's Black Box 50 provides a bedrock to sow upgrades above and beyond the capacity of budget CD players and CD transports. The partnership with Arcam's own Delta 250 proves this was no idle speculation but simply a foretaste of the capabilities of a truly sympathetic pairing.

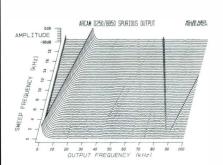
Clearly, in tandem with the Delta 250, the



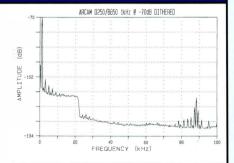
### **LAB REPORT**

Comparisons with the BB50 from issue 127 prove interesting. In this case, the measurements were repeated with Arcam's Sync Lock facility engaged. This causes a slight increase in ultrasonic noise which masks the digital IM patterns otherwise visible on the 3D plot. It also bumps-up the perceived peak-level distortion at 20kHz from 0.006 to 0.022 per cent.

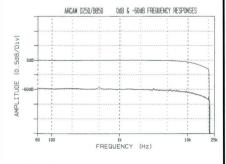
Moreover, though there's no appreciable change in either its 103dB signal-to-noise ratio or +4dB noise modulation, improvements are witnessed in both low-level distortion, linearity and random (noise-like) jitter. Aside from these low-level variations, the BB50 remains a typical example of Burr-Brown's PCM69 in action.



Clock interference patterns seen in issue 127 are reduced with Arcam's Sync Lock, fully effective in the D250/BB50 combo.



Odd harmonics are generated by errors in the multi-bit section of the hybrid DAC, as can be seen in the dithered plot above.



The Arcam *BB50* uses the same eight times filter and analogue stage as the BB5 and has same response curve as well.

# DPA DIGITAL T1/PDM Two FIFTY-SIX

o strangers to digital innovation, DPA has recently upped the stakes with two new digital-to-analogue converters. Both feature a discrete switched-capacitor network known as the DX64 processor together with an adjustable dither facility.

The least expensive of the two, though far from affordable, is the PDM Two Fifty-Six (256), a novel converter whose analogue and digital circuits are powered-up via two external supplies. Combined with DPA's T1 transport (issue 120), this amounts to a four-box CD player!

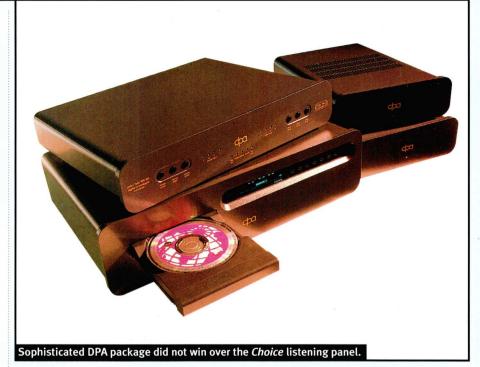
The transport is based around a shielded version of the Marantz CD42 with a revised and re-clocked digital output and optional Deltran facility. For details of Deltran, see also Arcam's Sync Lock feature.

The PDM256, however, is a tour-de-force of advanced engineering. Here, digital data is passed, in differential form, to four separate YSF210 eight times oversampling filters which each receive a dither signal from four FPGAs (Field-Programmable Gate Array).

You can add dither to the 15th, 14th, 13th or 12th bit of audio data according to taste, trading distortion (caused by fixed digital errors) for a proportional increase in noise (caused by random digital errors). This, plus its discrete Bit Stream DAC, ensure DPA's latest generation is utterly unique.

### Sound quality

In practice, this DPA quartet offered us a



fascinating yet perplexing balance of properties. It encourages a very full sound bustling with plenty of entertaining detail, yet the manner in which this detail is portrayed varies with the dither modes on offer.

Without dither, the bass sounds full and heavy but less well defined while the treble

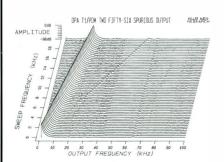
adopts a hard and spitty coloration that plays havoc with vocal sibilance. With increasing additions of dither, the level of background noise increases, and quite markedly so at settings three and four. Our panel, oblivious to my adjustments, immediately identified what they described as 'background grunge' permeating the opening strings of Handel's Concerto No.1.

The bass is leaner but tighter under these circumstances, the classical harpsichord lacking the full resonance of its soundbox just as some male vocals lost their characteristic colour. Marv Chapin Carpenter, meanwhile, sounded lively, articulate and less sibilant but her performance was now accompanied by a haze of noise caused by the dither.

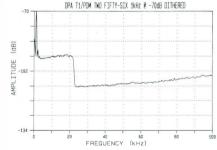
LAB REPORT

In stark contrast with previous DPA converters, including the PDM2 (issues 101 and 120), the PDM256 has not been designed with technical specmanship in mind. Hence the modest 0.002-0.012 per cent THD at peak-level that increases to a fairly poor 0.007-0.07 per cent at -3 odB and finally bottoms-out at a ghastly five per cent at -6odB. At this level, a THD of 0.1-0.3 per cent would be rather more appropriate.

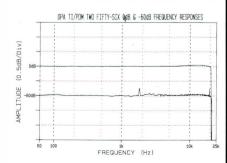
Moreover, at dither levels 1-4, the THD spectrum becomes unstable between -2odB and -8odB. producing unusual high-order harmonics that 'pulse' through the background noise. The bestcase 98.5dB signal-to-noise ratio also collapses to 84.5dB at dither level 4, though its noise mod remains a fabulously low +0.1dB.



Simple 3rd harmonic, typical of Philips' SAA7350 noise-shapers that are used by DPA to produce bitstream.



At dither level 4 (the maximum setting)distortion is not eliminated and dynamic range falls to 14 or 15-bits.



Increase in noise caused by adding dither is obvious on the low-level frequency response, and audible to our panel.

### Conclusion

Dither is already implemented in a variety of chips used in modern CD players, but never has such a powerful tool been provided for your personal modification of sound quality. In this application, dither tames the lively but rather bright and sibilant treble of the PDM256 but encourages a leaner and dirtier balance by way

of recompense.

It is perplexing

that DPA's years of research have led to such a disappointing conclusion. On the basis of these samples, I have to side with our panel and am forced to give the T1/PDM256 a rather reluctant

thumbs down.

Avery noveldither facility; exciting, dynamic and informative. Great idea that. unfortunately and irritatingly, seems flawed in practice.

**VERDICT** 

VALUE \*\*\* PRICE £895/2,995

☑ DPA Digital Ltd, Willow Brook, Technical Units, Crickhowell Rd, St Mellons, Cardiff CF3 oEI. (0222) 795621

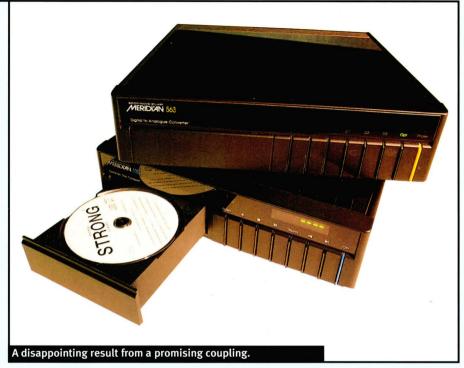
# **MERIDIAN 500/563**

salutary tale this, that serves to demonstrate how even past masters of the digital art can miss a flawed canvas from time to time. Superficially, there's nothing amiss with this 500-series combination, a matching and elegant pair that combines the distinctive ergonomics of its forebears with a new and somewhat softer outline.

The combination of an alloy chassis, moulded plastic facia, black textured-enamel and glass top-plate also confers a deal of added stability to the 500 transport. Its innards have evolved from the 602 (issue 96) but benefit from a new and lightweight carbon-fibre disc-clamping mechanism, separate keypad and servo microprocessors (each programmed by Meridian), plus an improved dot-matrix display.

Once again, Meridian has retained the Philips older swing-arm CDM4 mechanism and SAA7310 decoder — a combination that still provides unparalleled tracking of discs that aren't top quality or in the best condition. Then there's the digital output itself, still fired-up by Philips' PCF2705 ADOC, but now re-clocked and reinforced by a separate line-driver amplifier.

Its partner, the 563, hasn't changed from issue 127 but remains the only outboard converter equipped with a differential pair of Crystal's popular CS4328 Bit Stream DACs. Notable features on the 563 include a phaseinvert option and balanced AES/EBU digital input. It's a pity the 500 doesn't feature an AES/EBU output to match.



### Sound quality

Glancing back at my notes from issue 127, I discovered that the listening panel had in that test gently chastised the 563 converter for sounding very slightly forward and also a little anxious with busier passages of music. Nevertheless, these trivial foibles were readily tempered by the

sophistication of a superior transport.

But now, some six months and 500 units on, this 500/563 combination was described in deprecating terms by our panel as lacking in real substance. Certainly it seemed rather forward and brash, lacking bass weight and momentum. Our jazz selection sounded harder and brighter than usual, as if the saxophonist had fitted a harder grade of reed.

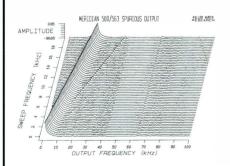
Mary-Chapin Carpenter sounded particularly busy and vigorous with plenty of low-level detail brought to the fore (note the compressive linearity trend in the test figures on page 54). But sadly, there's little gradation or dynamic expression. It's a loud and tiring performance rather than one that reflects the true contrasts of the music.

### LAB REPORT

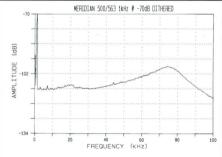
Subject to a fresh overhaul in the lab, this 500/563 combination failed to maintain the performance of the 563 tested in issue 127. Sure, there's a reduction in peak-level THD to 0.0007 per cent midband but a massive increase in THD at -3odB from 0.002-0.008 per cent to 0.02-0.025 per cent.

Its low-level linearity is also slightly wayward with errors of just -0.45dB (issue 127) increasing to +2.40dB in this instance. This, plus the rippling of its low-level frequency response, suggests a possible problem at the LSB of one DAC.

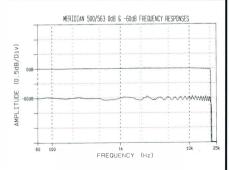
Otherwise, the suppression of stopband noise and wide 103dB signal-to-noise ratio remain equally impressive for this unique 'double-Crystal' implementation.



The innocuous 2nd harmonic visible on the 3D plot should havebeen removed by Meridian's differential DAC.



Typical pattern of ultrasonic noise emerging from Crystal Bit Stream converter as used in the Meridian DAC.



Obvious ripple in low-level response was absent in 563 converter which was tested in Hi-Fi Choice issue 127.

### Conclusion

Despite achieving a Recommendation in issue 127, this particular 563 converter, in tandem with Meridian's own 500 transport, marked a significant downturn in performance.

Interestingly, many of the minor indiscretions noted in issue 127 were cited at the forefront of its

problems here, despite our use of various digital cables, including both Audioquest Video Z and Goldmund Lineal.

STOP PRESS: At the eleventh hour, Meridian

confirmed this sample was faulty. We will report on a kosher machine as soon as possible.

### **VERDICT**

Plenty of get-up-and-go; will liven-up even the dullest and dustiest of hi-fi systems.

Too insistent, urgent and fatiguing; light and bright; insufficient weight and gravity.

VALUE \*\*\* PRICE £975/695

Meridian Audio Ltd, St Peter's Road, Huntingdon, Cambs. (0480) 434334

# MISSION CYRUS DISC/DACMASTER

irst seen at the 1993 Chicago CES, it's taken nearly a year for Mission's two-box Cyrus CD player to settle into production and finally trickle out for review. It's also the first two-box combination to be designed in-house. though Mission has retained a tie with Philips by employing its advanced CDM9-Pro mechanism and SAA7310 decoder.

The fact that this transport has been converted into a top-loader by ferreting it away under a tinted perspex lid has no bearing on either its tracking or flexibility. It'll still play both three and five-inch discs, for example. Just remember to replace the magnetic disc clamp every time you swop a CD.

The matching *Dacmaster* converter is also built into a familiar Cyrus case and is upgradeable using a PSX-R power supply. More importantly, it mirrors the Discmaster's choice of digital outputs, including Mission's version of the balanced AES/EBU output called 'PRO'.

A six-pin DIN COMMS link is also provided, permitting remote selection and track-by-track programming of phase via the Discmaster. This link also feeds a sample-rate signal back to the Discmaster, synchronising the flow of digital data between the two components (see Arcam and DPA reviews).

### **Sound quality**

Auditioned in Mission's PRO mode and employing its own digital interconnects, this stylish combination delivered a very powerful Powerful performance is bound to impress.

and authoritative sound with very natural, unforced vocals and airy, spacious treble. Likened by our blind listening panel to 'a good Beaujolais Nouveau', they concluded that this combination seems to possess 'a youthful and fruity balance, if one that lacks the ultimate sophistication of other players'.

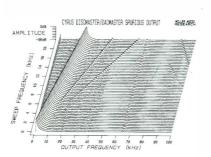
It certainly moved through Handel's Concerto No.1 like a warm chainsaw through butter, delivering its music in a slightly teutonic or mathematical fashion. To our ears, this twobox player carved through our classical selection a little too quickly, its enthusiasm for the performance almost leading to it running away with itself.

The *Discmaster/Dacmaster* combination might appear very slightly crude or heavyhanded but it could never be described as feverish or aggressive. Far from it. In practice, it sounds very clean, confident, persuasively defined and not unlike the Cyrus 3 we reviewed in issue 130.

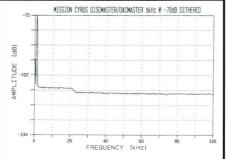
### **LAB REPORT**

Rather than be dominated by its NPC SM5813 oversampling filter or 20-bit DACs, the technical performance is sculptured by Mission's choice of analogue components. This 5th-order passive filter is probably responsible for the increase in HF distortion (0.0007 to 0.02 per cent) and the relatively poor 96-97dB signal-to-noise ratio. Other converters using the AD1862 DACs achieve a signalto-noise in excess of 110dB (issue 120).

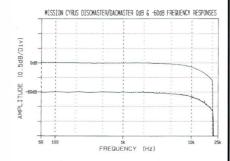
Nevertheless, both low-level linearity and lowlevel distortion remain the preserve of its digital electronics and here Mission has achieved specs which at least match, and in some cases exceed, its technological rivals. Otherwise, there are no glaring or potentially troublesome bugs to reveal.



There are few stopband images to be seen but distortion tends to increase markedly at anything above a few kHz.



Very uniform output of ultrasonic noise but note the 3-4dB reduction in expected dynamic range of the Mission combination.



The passive analogue filter in the Mission Cyrus *Discmaster/Dacmaster* is engineered to provide a gentle treble roll-off.

#### **Conclusion**

Mission is evidently aiming to achieve a family sound, the robust, 'shoot first' policy of the Discmaster/Dacmaster combination sharing many of the sonic hallmarks of the Cyrus 3 amplifier. Incidentally, it's vital to keep the COMMS link connected between this two-box package for, without it, the sound becomes lighter, brighter more forward and lacking in its

> customary impact.

large and beefy without sounding fierce or aggressive Lacks sophistication; can sound a bit too light and bright without the COMMS link. SOUND \*\*\* VALUE \*\*\*\* PRICE £1,900 Mission Electronics,

Stonehill, Huntingdon,

Cambs PE18 6ED.

(0480) 451777

VERDICT

Powerful performance;

Its sure-footed and powerful performance will undoubtedly prove very attractive, whether it's as part of a fully-fledged Mission system or as the source component in a more eclectic hi-fi set-up.

# Monarchy Audio DT-40A/M-33

aving retreated from a brief foray into the computer market, Monarchy has returned to its roots and launched a new and highly distinctive series of digital components. This includes a massive CD transport, the £1,595 DT-40A, based on a Philips' CDV400 Laserdisc player, stripped of paraphernalia and secured within a reinforced steel-and-allov case.

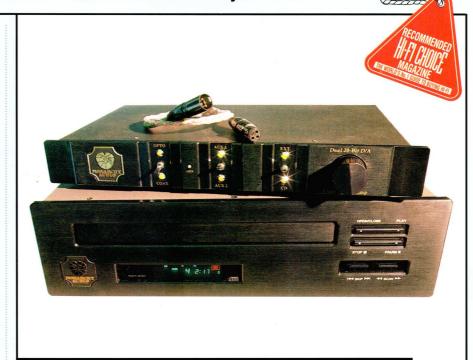
Incidentally, this is very similar to the transport used by Theta and EAD for their highend CD transports. The assumption behind this theory being that a mechanism designed to spin heavy 12inch Laserdiscs should handle 5inch CDs with ease.

In this case, Monarchy has retained Philips' comprehensive remote control but abandoned the old digital output chip (a Philips SAA7220) in favour of a Crystal CS8425 ADOC, Motorola line driver and triple-shielded output transformer.

The DT-40A is equipped to punch its way into any outboard DAC, including, of course, the partnering £1,495 M-33 with its new Yamaha ADIC, a pair of top-grade 20-bit converters and optional class A line preamplifier. A large rotary volume control presides over the DAC's output and caters for two additional line inputs, enabling the M-33 to be connected directly to a power amplifier.

### Sound quality

Buoyant, lively and betraying a real enthusiasm for the music at hand, Monarchy's combination



A bulky combination but one which offers some unique system building options.

proved a great hit with our blind listening panel. This pair retains a very cohesive and wellintegrated sound bringing a natural weight, snap and authority to both percussion and

Its bass is particularly powerful and welldefined, grumbling along without muddying subtler details. The drum, piano and electric guitar from Lyle Lovett's CD were especially well resolved, allowing us to hear each performer without pulling the music apart in a cold or dispassionate fashion.

Similarly, this excellent sense of focus and integration was immediately appreciated with Handel's Concerto No.1, the flow and momentum of the opening violins being maintained as the remainder of the orchestra joined in.

Here at least, the tangible weight of the harpsichord successfully merged with the double bass and violas rather than appearing as a disembodied instrument. A busy and intriguing pair, by all accounts.

#### Conclusion

Fine musical

communication skills

treble has a rather dull

SOUND \*\*\*\*

VALUE \*\*\*\*

PRICE £1,595/1,495

balance and bass is a

and a rich, warm and

friendly sound. Lacks smoothness;

little detached.

₩ Wollaton Audio,134 Parkside, Wollaton,

(0602) 284147

Nottingham NG8 2NP.

To some ears the Monarchy combination may sound as if it's taking liberties with the gentlest of musical styles. To others, it will successfully combine the sophisticated performance of an expensive CD player with a certain necessary roughness.

Nor will the sheer bulk of the DT-40A endear it to fussy audiophiles. But how many outboard

### **DACs** interface directly with a power amp, and how many CD transports can send, near broadcast quality pictures to your TV set?

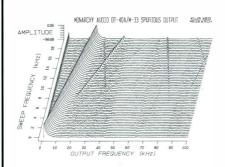
One final carrot; if you buy the pair, Wollaton Audio will throw-in a £175 XLO Reference digital cable gratis.

### LAB REPORT

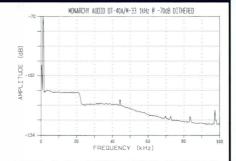
This combination provides a good but not state-ofthe-art example of what can be achieved with Burr-Brown's DF1700/PCM63P eight times oversampling/20-bit DAC chipset.

A mild 2nd-harmonic pushes its peak-level distortion from 0.002 to 0.03 per cent via both line (3.5V) and AD847-based preamp (7.5V) outputs. Unfortunately, this distortion increases to 0.4 per cent with pre-emphasised CDs.

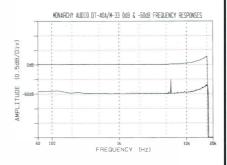
Meanwhile, the stopband suppression should really exceed 105dB just as the 101dB signal-tonoise ratio is closer to 110-114dB in competing PCM6<sub>3</sub>P-based DACs (see PS Audio and Linn, issue 120). These diversions are not significant but do add a certain character to the performance of the Monarchy combination.



Innocuous 2nd-order total harmonic distortion yet stopband noise is poorer than expected for DF1700 digital filter.



Gentle 3rd-order filter effectively removes what little ultrasonic noise remains at low signal levels.



The +0.3dB boost at 20kHz is maintained through both line and preamp (+6.7dB) outputs on the Monarchy pair.

PS Audio Lambda/Ultralink Two

S Audio is justifiably proud of its new £2,500 *Ultralink Two* DAC. Despite its dour appearance, it's home to some of the most advanced (and costly!) digital technology available. In many respects, it represents an enhanced but simplified form of the PS *Reference Link Processor* (issue 132).

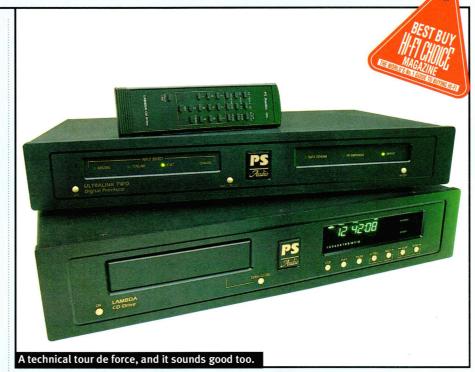
Behind the black alloy facia and green indicator LEDs, for its coax, AT&T, Toslink and AES/EBU inputs, lie the same NPC eight times oversampling filter and latest A-grade version of UltraAnalog's 20-bit DAC.

By avoiding the digital volume control, which modified the DAC's reference voltage, and retaining the PMI OP275-based analogue stage, PS Audio has traded complexity for elegance. Furthermore, all data entering the *Ultralink* is now captured by a superior UltraAnalog AES21 ADIC — yet another significant advance on the *Reference Link*.

So what of the £2,250 *Lambda* transport? Funnily enough, this uses the same building-blocks as the Theta *Data Basic.* Hence the common display, features and the same CDM9-Pro mechanism, complete with ASM collimator, which does nothing to enhance its tracking. Similarly, even the PSU, decoder and digital output boards are sourced from those friendly people at Philips.

### Sound quality

This pleasantly smooth, open and spacious sounding combination was likened by our blind



listening panel to the *Theta/Cobalt* system — a gratifying correlation bearing in mind the *Lambda* and *Data Basic* transports are broadly one and the same thing. Yet the flashes of brilliance missed so sorely with the *Theta/Cobalt* were heard in abundance with the costly PS Audio duet.

Returning to Handel's Concerto No.1, our

panel relished the freshness and freedom of the opening violins, but the appearance of double bass marked a mild ponderousness on the part of the PS Audio combination. Mary-Chapin Carpenter sounded similarly fresh, clear and enthusiastic yet the accompanying bass guitar lacked this same measure of speed and lucidity.

Fortunately, and despite losing its grip of deepest bass, the *Lambda/Ultralink Two* combination remains quite unfazed, offering a very positive and well-projected sound that's busy with rock-solid images.

Indeed, both the jazz piano from Marty Paich's CD and the resonant harpsichord from Handel's *Concerto No.* 1 now sounded beautifully open, robust and colourful. Vocals sounded equally smooth, free of grittiness and sibilance, yet possessing life and vitality that held us enthralled.

#### Conclusion

From whatever angle you care to listen to the Lambda/Ultralink Two, the quality and impact of its performance is difficult to ignore. Sure, it has slightly wayward bass but the refined and fluid quality of its mid and treble ensures its music

# VERDICT △ Extremely satisfying performance; glorious midband — refined and fluid; very detailed. ✓ This combo is marred only by a bass that would be slightly diffuse in a full-range system.

PRICE £2,250/2,250

Mathematical Absolute Sounds, 58

Durham Road, London

SW20 0DE. **2** 081-947 5047 always sparkles with rich and colourful detail.

colourful detail.
So, for the price of a single *Reference Link* processor (issue 132), this *Lambda/Ultralink* combination not only exceeds its spec but also earns itself a Recommendation en route.

### **LAB REPORT**

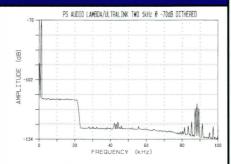
Comparisons with PS Audio's esoteric *Reference Link* Processor (issue 132) show that this *Lambda/Ultralink* combination offers a lower peak-level distortion of 0.0007-0.0025 per cent, equally wide dynamic range (see -70dB plot) but far wider 114dB signal-to-noise ratio. Ranged against this is its massive +12dB noise modulation, an inevitable side-effect of traditional multi-bit technology.

Otherwise, its linearity holds to within -0.65dB across the entire audio band and over a full 100dB dynamic range. More important is the fact that distortion remains low where all the musical action takes place: just 0.005-0.008 per cent at -30dB and 0.08-0.18 per cent at -6odB. This is a state-of-the-art performance, make no mistake.

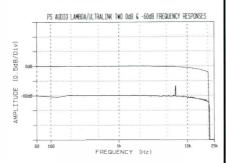
PS AUDIO LAMBOA/ULTRALINK TWO SPURIOUS OUTPUT ARMS AND AMPLITUDE

STATE OF THE PROPERTY OF THE

The PS Audio pairing showed excellent rejection of stopband images with minimal distortion at high levels.



Very wide dynamic range and low distortion is maintained even at low signal levels by the PS Audio combination.



Gently tailored treble response has no undue influence on sound quality which remained refined and fluid.

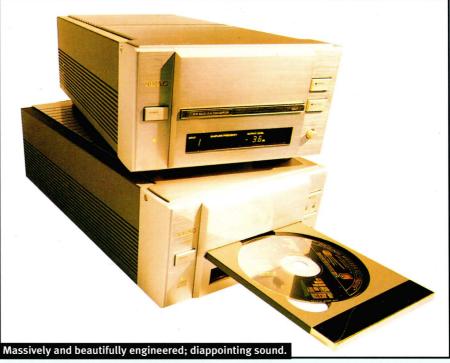
# TEAC P-2s/D-2

nstantly recognisable by its compact profile, champagne-gold facia and slender orange display, the P-2s/D-2 combination is Teac's two-box digital statement. This transport and DAC team cost a cool £4,300 and £2.500 respectively. For your money, the P-2s transport features a diecast version of its acclaimed VRDS mechanism which clamps the CD to a brass and aluminium platter that's poised overhead.

It's a novel idea and beautifully executed. However, its tracking of imperfect discs still falls behind the Philips-based transportsfrom Arcam, Meridian, Mission and DPA.

The D-2 DAC pre-dates the P-2s but it is equally lavish in its engineering, offering four inputs (though unfortunately not AES/EBU or AT&T) as well as a 90-step digital volume control that's operable from both the facia and the matching remote handset. Incidentally, the latter offers every conceivable widget including direct index and track selection, program, single and repeat play plus time search, phase and muting facilities.

Inside the *D-2*, however, things are not looking so fresh. Teac is still using Sony's old CXD1076 ADIC to capture incoming data, for example. Meanwhile, the choice of a CXD1244 eight times oversampling filter (as used by Theta) and complementary 18-bit DACs has effectively been superceded by the 20-bit chipset found in its more recent D-700 converter and X-1 CD player.



### Sound quality

This extravagant combination would certainly appeal to Billy Whizz, such is the vigour and pace of its music. Tonally, its balance is lean, distinctly forward and seems easily caught out by fairly busy pieces of music, regardless of the chosen digital input or link.

Further experimentation showed that reversing the polarity of the DAC's mains inlet (a figure of eight Telefunken socket) encourages a smoother and warmer sound that is both less hasty and slightly more appealing. Nevertheless, its dynamic and tonal ranges remain equally restricted.

The alto sax from our jazz selection adopted soprano overtones while the remainder of Marty Paich's Big Band were, it was suggested, 'holed up in a corner of the studio under a fire blanket'. Similarly, what was described as the 'thrash metal' version of Handel's Concerto No.1 sounded just too harsh and jangly to be

Further elaboration would be gratuitous this combination simply failed to impress.

### **Conclusion**

Back in issue 130, we suggested that the true mettle of Teac's P-2s transport would, perhaps, only be realised with its natural bedfellow, the D-2. Teac also entertained the idea with some confidence but the combination of an overengineered transport with an equally over-



- An extremely luxurious piece of engineering with no shortage of digital outputs.
- Thin, gutless and tiring sound; over engineered; not as impressive as its less expensive sibling.

#### SOUND \*\*\* VALUE \*\*\*\*

PRICE £4,300/2,500 □ Teac UK, 5 Marlin House,

The Croxley Centre. Watford, Herts WD1 8YA. **2** (0923) 819630

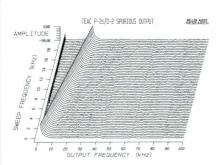
engineered but rather dated DAC has met with a disappointing end.

My advice would be to save yourself £5,300 and opt for Teac's fabulous P-700/D-700 instead - a £1,500 Best Buy from issue 120 that clearly outclasses its classy stablemate.

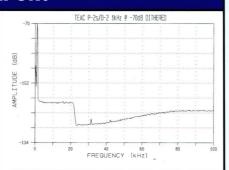
### **LAB REPORT**

From a digital standpoint, both the 750hm/560mV output of the P-2s and true 750hm input of the D-2 converter are well-matched. Nevertheless, the technical performance of the D-2, with its pairs of complementary 18-bit DACs, lags newer 20-bit Teacs with a reduced 103dB signal-to-ratio and a huge 'multi-bit lurch' in distortion from 0.0009 per cent at odB to 0.05 per cent at -3odB.

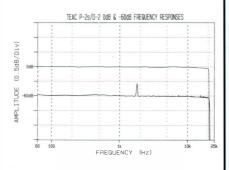
Thereafter, the P-2s/D-2 behaves itself, with minimal low-level linearity errors of just +0.2dB/-0.35dB over an entire 100dB dynamic range, with a full 105dB rejection of stopband images and a usefully low 160hm output impedance from its MosFet-based analogue stage.



The merest hint of 2nd, 3rd, 4th and 5th harmonics break clear of an otherwise impeccably clean 3D plot.



Wide dynamic range, very low distortion and little or no sampling images.



Very flat frequency response and excellent low-level linearity from the Teac P-2s/D-2 combination in spite of obvious glitch.

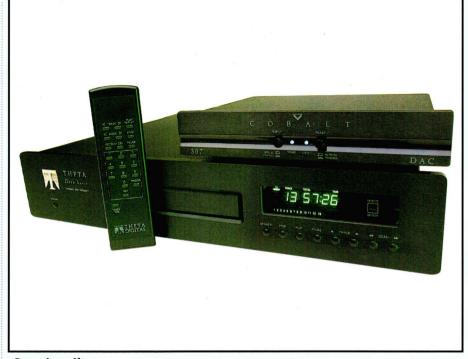
# THETA DATA BASIC/COBALT 307

any issues, reviews and tests of new products ago (issue 101), we successfully teamed-up Wadia's costly WT3200 CD transport with Audio Alchemy's budget DDE DAC. The results obtained from this harmonious partnership encouraged us to tempt fate with a similar 'fiscal mis-match', this time from the house of Theta.

Regular readers will already be familiar with the £1,997 Data Basic transport from issue 130, a sophisticated Philips-based design combining both a CDM9-Pro mechanism and a new ADOC (Audio Digital Output Circuit). The Philips remote control, however, is a more straightforward affair offering track and index selection plus program and repeat play. Nothing fancy, that's true, but it gets the job done all the same.

The diminutive £699 Cobalt 307 is a very different story altogether. In this instance, a Crystal ADIC snatches up the incoming data from either of its coaxial or Toslink digital inputs while an eight times oversampling filter from Sony and hybrid DAC from Burr-Brown convert the numbers into music.

It's comforting to know the bulk of your pennies are being well spent on high quality under-the-bonnet engineering, leaving a phaseinvert facility by way of a token widget. Such details as the Nichicon Muse capacitors, bulkfoil resistors, a top K-grade DAC and AD841 op-amps (as used by EAD, see issue 120) add up to a small but interesting and potentially super-charged package.



### Sound quality

Having auditioned the Theta/Cobalt combination not once but on two separate occasions, our listening panel concluded that it was the most relaxed but also the most passive-sounding of our various contenders. Sure enough, its laidback demeanour and unforced dynamics make

for comfortable long-term listening but it can just as easily sound too inoffensive, dispassionate or even bland.

For example, the delicate smoothness of the Lyle Lovett CD proved highly attractive even if, track by track, it lacked the energy and pizzazz to grip our attention. Similarly, this duet successfully tamed the forthright treble of Mary-Chapin Carpenter's rhythm guitar yet, by the same token, robbed it of boldness, airiness and acoustic space.

Despite this tonal caution, the Thetas still maintain very tightly focused and stable stereo images. So Marty Paich's jazz sax was carved impressively from thin air, despite it lacking that rough and brassy edge necessary to elevate its performance from merely entertaining to genuinely realistic.

### Conclusion

Something of a bargain in its home state of California, the Cobalt 307 still offers good value at its UK price of £700 and represents a worthwhile upgrade for many £200-£300 CD players.

Sadly, in this company, the Cobalt 307 is

### VERDICT **Unfatiguing and** exceedingly refined performance; good value. Lossof bassand treble: lack of commitment and emotion can make some tracks sound too polite. SOUND \*\*\* VALUE \*\*\*\* PRICE £987 M Absolute Sounds, 58 Durham Rd.

London SW20 oDE.

081-9475047

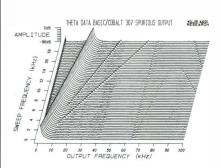
rather overwhelmed by the potential of Theta's Data Basic transport. The result is a gentle and pleasant sound, yet by refusing to tackle deep bass or high treble, one that lacks a sense of grandeur. spaciousness and passion.

### **LAB REPORT**

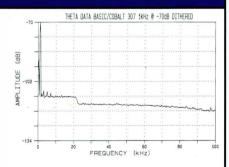
Having already tested a Cobalt 307 about a year ago, this newer sample, in combination with Theta's Data Basic, demonstrated some variation. Its overall signal-to-noise ratio has edged-up to 99dB but still remains some 6-7dB short of what's possible from Burr-Brown's PCM67P DAC.

Moreover, distortion, already about twice as high as expected at -3odB, has further deteriorated from 0.3 to 0.65 per cent at -6odB — witness the oddharmonics on the 1kHz/-7odB plot.

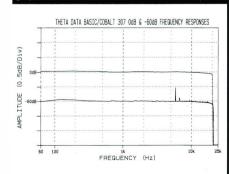
Sadly, the linearity of this Cobalt 307 is also impaired, with earlier errors of just +0.9dB increasing to +2.7dB at 1kHz. The poor 6odB channel separation at low frequencies is unusual and suggests a degree of unwanted cross-coupling via the PSU.



Sony's digital filter removes stopband noise, leaving 2nd/3rd harmonics from Theta's *Cobalt 307* DAC.



This particular sample shows higher distortion at low-levels than earlier Cobalt



Flat, ripple-free response but 'spikes' clearly visible to the right of the lower plot are caused by the digital filter.

# **CD TRANSPORTS AND DACS**

# Conclusions, best buys and recommendations



pending a small fortune on a multibox CD player should guarantee you more than a glimpse of the 'real thing', but sadly, this is not always the case. In reality it's the budget end of the CD market that appears to be converging towards a common and very high standard of sound quality. The more you pay, it seems, the more diverse the flavour becomes.

This is in spite of the fact that there are only a finite number of decoder chips, oversampling filters and digital-to-analogue converters available for the designer to choose from.

So anyone who remains hung-up on the archetypal differences between bitstream and multi-bit technology, for example, is clearly missing the point. Players do not succeed or fail by choice of technology alone but rather, how it is implemented.

This is where sound quality can become clouded by the shower of money being thrown at a particular high-end

project. Teac's P-2s/D-2 combination is a classic example of well-intentioned but disastrous over-engineering. After all, the relative simplicity of Teac's *P-700/D-700* combination never prevented it from earning a Best Buy in Choice 120.

Somewhat surprisingly, neither Meridian's 500/563 combination nor the exceedingly hi-tech T1/PDM Two Fifty Six from DPA really cut the digital mustard in our blind listening tests. In Meridian's case, the minor distractions noted with its 563 (in issue 127) were now cited as major objections, though our suspicions of a fault in the review sample were confirmed at the last minute. (We will report again as soon as possible when we've heard one that's up to the mark. For DPA, their offering was uncharacteristically compromised.

There was nothing perturbing about the performance of Theta's two-box 'starter-pack', but the *Data Basic* is better suited to a meatier-sounding DAC, while the Cobalt 307 desires a slightly rough'n'ready transport. Mission's Discmaster and Dacmaster seem well part-

nered, and earned points for-combining a sense of urgency with clear-cut authority and confidence. In this respect there is also a certain empathy between Monarchy's DT-40A/M-33 and the Lambda/Ultralink Two from PS Audio. Both are as invigorating as the Mission, but have a sense of additional poise and sophistication.

The firm definition of the Monarchy outweighs any sense of its music being man-handled, just as the fresh and enthralling midband of the PS more than compensates for any softness in its bass. Even at this exalted price level there's no such thing as perfection!

Arcam's Delta 250/Black Box 50 is the cheapest of the lot, and the only clear candidate for a Best Buy. Though it lacks the runaway momentum of the Mission and the grandeur of either the Monarchy or the PS Audio, it does make sense of every rhythmic style without imposing artificial civility or undue forcefulness. All in all, it presents a compelling argument for the potential superiority of the two-box CD player.

### How the transport and

	Arcam Delta 250/ Black Box 50						Meridian 500/563			
	20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20kHz	20Hz	1ĸHz	20ĸHz	
CHANNEL BALANCE	0.03pB	0.02pB	0.04pB	0.04pB	0.04pB	0.07pB	0.20pB	0.20pB	0.18pB	
CHANNEL SEPARATION	90.7pB	97.3pB	69.3pB	85.4pB	92.7pB	92.1pB	125.8pB	121.6pB	110.5pB	
THD vs Level, ODB	-113.8pB	-91.3DB	-72.8pB	-96.0pB	-93.7pB	-78.4DB	-103.5pB	-103.2pB	-86.8pB	
-30pB	-93.6pB	-71.6pB	-69.2DB	-82.2pB	-66.5DB	-62.5pB	-77.5pB	-74.5pB	-67.9pB	
-60pB	-43.4pB	-41.9pB	-41.4pB	-40.2pB	-26.2pB	-41.5pB	-45.1pB	-41.5pB	-38.5pB	
-80pB	-20.5pB	-21.8pB	-23.5pB	-26.5pB	-24.6pB	-20.4pB	-21.5pB	-20.6pB	-18.7pB	
DITHERED,-90DB	-12.5pB	-15.3pB	-16.5pB	-7.80pB	-17.5pB	-12.7pB	-9.50pB	-14.5pB	-10.5pB	
DITHERED,-100DB		-14.2DB			-8.50pB			-9.70pB		
DITHERED,-110DB		-2.50pB			-6.50pB			-1.50pB		
RESOLUTION @ -60DB		+0.15pB	+0.15pB		-0.01pB	-0.02pB		+0.03pB	+0.05pB	
-80pB		+1.30pB	+1.35pB		+0.03pB	-0.12pB		+0.30pB	+0.37pB	
-90pB		+3.10pB	+3.20pB	_	-0.33pB	-0.65pB		+1.70pB	+1.65pB	
-100pB	_	+3.55DB	+2.85DB		-0.20pB	-0.25pB		+2.40pB	+1.95DB	
PEAK OUTPUT LEVEL, L		2.366V			2.027V			2.214V		
R		2.371V			2.015V			2.209V		
RELATIVE OUTPUT LEVEL		+1.5DB			+0.09pB			+0.9pB		
OUTPUTIMPEDANCE		47онм			<10HM			46онм		
1Hz Noise Modulation		+4.1pB			+0.10pB			+2.5DB		
CCIR IMD, ODB		-95.5pB			-76.5DB			-102.5pB		
SUPPRESSION OF STOP-BAND IMD		66.1pB			>105pB			98.0 <sub>D</sub> B		
DE-EMPHASIS ACCURACY, 1KHZ		0.00pB			-0.05pB			-0.02pB		
5ĸHz		+0.01pB			-0.33pB			-0.03pB		
<u>16кНz</u>		-0.07pB			-0.35pB			-0.05pB		
S/NRATIO (A-WTD), WEMP, OLSB		103.2pB			98.5pB			103.3pB		
W/OEMP, OLSB		101.8pB			93.9pB			98.7pB		
W/OEMP, 1LSB		101.6pB			90.5pB			99.0 <sub>D</sub> B		
DIGITAL OUTPUTS	COAXIAL, BNC, TOSLINK		COAXIAL, TOSLINK.			Coaxial, Toslink.				
DIGITALINPUTS	COAXIAL, T	OSLINK			TOSLINK, AT&	Т.	COAXIAL, A	ES/EBU, Tos	SLINK	
MASTER CLOCK ACCURACY		-19.9ррм		-	+67.0ррм			+26.0PPM		
TRACK ACCESS TIME (99)		3.5secs			4SECS			4SECS		
SERIAL NUMBER	D2500013	2/DBB0082	25				100807/10	00786		

# Best Buys and Recommended models

### **Best buys**

The Arcam *Delta 250/Black Box 50*, at £1,200, is the least expensive combination in the test. A very sophisticated player, it sounds smooth without appearing soft or sugar-coated — a bargain two-box CD player.

### Recommended

Mission Cyrus's *Discmaster/ Dacmaster* (£1,900) is a powerful-sounding and perhaps slightly heavy-handed combination, but it cuts right to the heart of its music.

The Monarchy Audio *DT-40A/M-33* (£3,090) is an intriguing partnership that provides a beefy and enthusiastic performance via its balanced AES/EBU connection.

In direct contrast with its modest appearance, the PS Audio *Lambda/Ultralink Two* (£4,500), is a duet which positively sparkles with colour and resonant detail.



The best of the bunch: Arcam's Delta 250/BB50.



Monarchy DT-40A/M-33: 'beefy, enthusiastic.'

# The best of the rest

If the idea of a one-brand, two-box player appeals, there are a few other worthy candidates to consider. Teac's *P-700/D-700* combination (£1,500), a scaled-down version of the *P-2s/D-2* featured here, is the most impressive and least damaging to the bank balance, and offers much more lyrical sound.

Recent modifications to Linn's 20-bit *Karik/Numerik* duet (£2,500) have revealed a quicker, cleaner and more detailed sound lurking beneath; but where a highly charged performance is demanded, there's little to beat EAD's *T-1000/DSP-1000* (£2,200).

Cross-fertilisation across brands continues to unearth some surprising and entertaining combinations. For example, the Meridian 563 DAC (£695) is especially well suited to Teac's *P-700* transport (£900), just as the Musical Fidelity *Tubalog* (£500) makes an admirable pairing with the standard digital output of £200-£300 players from the stables of both Philips and Marantz.





PS Audio: 'sparkling with colour and detail.'



### DAC laboratory results compare

Mission Cyrus Discmaster/Dacmaster		Monarchy Audio DT-40A/M-33			PS Audio Lambda CD Drive/Ultralink 2		Teac P-2s/D-2		Theta Data Basic/Cobalt 307					
20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz
0.01pB	0.01pB	0.07pB	0.00pB	0.00pB	0.38pB	0.02pB	0.01pB	0.01pB	0.02pB	0.02pB	0.02pB	0.07pB	0.08pB	0.08pB
126.5pB	113.5pB	93.9pB	133.5DB	115.6pB	92.5pB	131.5pB	124.5pB	114.5DB	148.5DB	135.7pB	115.5DB	59.6DB	90.3pB	99.5pB
-102.6pB	-95.2pB	-73.6pB	-93.5pB	-91.9pB	-70.5pB	-102.9pB	-101.4pB	-91.5pB	-104.1pB	-100.9pB	-88.9pB	-84.2pB	-88.5pB	-83.4pB
-81.5pB	-76.5pB	-68.2pB	-78.5pB	-73.8pB	-79.5DB	-87.1pB	-83.5pB	-81.5pB	-67.6pB	-65.7pB	-64.6pB	-61.7pB	-59.2pB	-63.2pB
-57.2DB	-47.6pB	-36.5pB	-50.2pB	-48.4pB	-56.7pB	-60.4pB	-54.8pB	-61.6pB	-60.0pB	-54.5pB	-53.0pB	-44.7pB	-43.8pB	-38.6pB
-27.7pB	-27.1pB	-15.9pB	-28.4pB	-28.5pB	-34.7pB	-28.5pB	-32.6pB	-40.4pB	-28.3pB	-30.1pB	-32.6pB	-16.5DB	-24.3pB	-20.2pB
-19.5DB	-17.6pB	-9.50pB	-15.5DB	-19.2pB	-26.1pB	-18.2pB	-24.1pB	-29.5pB	-10.5pB	-22.3pB	-22.8pB	-16.3DB	-16.5pB	-11.5pB
A 76-1-1-1	-10.7pB			-10.5pB			-21.5pB			-18.4pB			-12.5pB	
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18/11/18/1	-0.17pB	-0.01pB		-0.22pB	-0.10pB		-0.05pB	-0.06pB	-	-0.11pB	-0.07pB		+0.85pB	+0.84pB
-	-0.70pB	+0.25pB	-	-0.75pB	-0.60pB		-0.45pB	-0.65pB		-0.25pB	-0.35pB		+2.65pB	+1.75pB
	-0.80pB	+1.20pB	-	-0.45pB	-1.10pB		-0.30pB	-0.65pB		-0.35pB	+0.20pB		+2.40pB	+0.80pB
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	2.046V			3.540V			2.489V			2.506V			2.021V	
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	+2.0pB			+3.5pB			+12.3pB			+4.5DB			+2.8pB	
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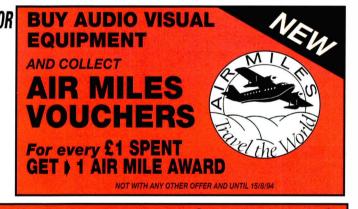
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Does your recorder hiss you off?

Fed up with old fashioned compact cassettes? Then why not go digital,

> as Richard Black and **Paul Miller**

measure up four of the latest hi-tech recorders.

n the last couple of years, two entirely new audio recording formats have appeared: Philips' Digital Compact Cassette (DCC) and MiniDisc (MD) from Sony. Both use digital data compression to get a reasonable playing time on a realistically-sizedcarrier, with what is claimed to be 'near-CD quality'. At the other extreme, Pioneer has introduced a digitalaudiotape(DAT)recorder which samples music at 96kHz instead of the usual 44.1kHz or 48kHz. This adds a whole extraoctave to the response and a whole new dimension to digital audio.

We tested these three technologies alongside recordable compact disc(CD-R), a largely pro-audio system which yields discs that can be played in a normal CD player.

To test these formats under demanding but fair conditions, we set up a recording session, featuring Geraldine Denny (clarinet), Rebecca Lodge (soprano), Clare Parkholm (cello) and myself (Richard) on piano, to get a wide range of instrumental sounds and characteristics. The recording was made in a London church with quiet surroundings, good acoustics and a decent resident piano. The microphones used were based on Calrec capsules, with my own design of electronics to give a linelevel output to drive a tape recorder directly. A conventional (48kHz) DAT recorder was used as a reference.

Subsequent listening was performed on two systems; a painstakingly tweaked and aligned EAR/Quad electrostatic-based system belonging to Jan Lewinski (who assisted in the recording), then my own ATC SCM20 and customised amplifier system. All recorders were auditioned principally as analoguein/analogue out machines.

BUILD QUALITY		
Marantz CD-R610	****	
PHILIPS DCC600	****	
PIONEER D-07	****	
Sony MDS-501	****	

Asbefitsits£3,800 price-tag, the Marantz CD-R610 easily leads the field here. It's built on a very substantial cast chassis, stuffed full of high quality circuit boards. Most of these boards are densely populated with surface mount components. As the fussy audiophilewould point out, neitheritsextensiveuse of 5532 opamps nor its wiring loom are ideal for sound quality, although both are absolutely representative of about 99 per cent of pro-audio design practice.

Pioneer's £1,195 D-07 is also well

made, although with obvious signs of its domestic hi-fi origins in areas like circuit board materials and components. On the other hand, it also has a few audiophile tweaks, with copper foilwrapped capacitors and copper sheet stuck on critical integrated circuits. There is actually surprisingly little inside the case, given that 96kHz sampling DAT (Super DAT) is a new technology. This is no doubt due to Pioneer's use of their own integrated circuit design facility to combine as many functions as possible on a few small chips.

The £799 Sony MDS-501 looks very smart from the outside and is generally well put together, but close inspection shows up a few 'tweaks', evidently in order to fix problems found after the circuit boards were in production. The MiniDisc mechanism is compact and appears to be a fully productionised unit, although this machine is Sony's first non-portable MD recorder.

Even taking its low price into account, the £299 Philips DCC600 seems rather plasticky. Still, it is well put together internally, with similar build and component quality to the MDS-501. The transport is a rather complicated affair of plastic mouldings and gears, but plastic mechanisms like this are

	MARANTZ CD-R610	PHILIPS DCC600	PIONEER D-07	SONY MDS-501
System	WRITE-ONCE DISC	REWRITEABLE TAPE	REWRITEABLE TAPE	REWRITEABLE DISC
DIGITAL INPUTS	Toslink, coaxial, balanced	COAXIAL	Toslink, coaxial	2 Toslink
DIGITAL OUTPUTS	As above	COAXIAL	Toslink, coaxial	TOSLINK
Max. continuous RECORD TIME	74mins	53mins	60mins (96kHz) to 240mins (32kHz)	74mins
SAMPLING RATE (ANALOGUE IN)	44.1ĸHz	44.1ĸHz	32/48/96ĸHz	44.1ĸHz
SAMPLING RATE (DIGITAL IN)	44.1ĸHz	44.1ĸHz	32/44.1/48ĸHz	32/44.1/48ĸHz
Price	£3800	£299	£1195	£799
BLANK MEDIA PRICE (APPROX. FOR 1 HOUR)	£18	£6	£8	£7



generally very reliable unless mistreated. Since it uses motorised tray loading, opportunities for maltreatment are vastly reduced compared with normal cassette decks.

### **FACILITIES AND ERGONOMICS**

MARANTZ CD-R610	****
PHILIPS DCC600	****
PIONEER D-07	****
SONY MDS-501	****

The *CD-R610* has the most complex front and rear panels of the four machines, but the smallest number of features. Basically, you can record and you can play back. It is also possible to do basic editing, by marking tracks or portions of tracks for skipping. Recordable CDs can only be recorded once, which places a great constraint

### **Formatwars**

Why the upsurge of new formats? The big electronics giants say that people have had a taste of digital audio and want a digital replacement for cassette, for home and mobile use. DAT is a professional and semi-pro format that never took off for home use because the mechanism is too complex to make cheaply and tapes can't be mass-duplicated. A lack of pre-recorded software and early industry concerns about pirates making perfect copies helped speed DAT's demise as a domestic format, despite the efforts of labels like Factory and Chandos.

CD-R also raises the issue of piracy, which is a large part of the reason why you won't see cheap CD-R machines (anyway, a blank CD-R currently costs nearly £20) until the piracy issue is resolved. Hence Philips' DCC and Sony's MD, both touted as 'The Future'. Both formats use data compression, not only for practical reasons but to reduce the threat of 'perfect' pirates, thus making them acceptable to the record companies, without whose support any new software format is sunk from the start.

But which formatshould one buy? If you want to record live from decent microphones, then buy DAT, Super DAT, CD-R or even open reel analogue, as your budget allows. But if, like most people, you want to make tapes for the car, for a friend or for a portable, or record the odd radio programme, DCC and MD are very close on sound but differ radically in use. MD is dearer at the moment and DCC is slightly more familiar, but even so it's hardly selling in phone numbers. If we wait and see, both formats may fizzle out anyway. Come back cassette, all is forgiven?

on flexibility. Once a CD has been recorded, it can only be played back on a CD-R machine until it gains a Table of Contents (TOC), after which time it can be played on any CD player, but can no longer be recorded on at all. Even after the addition of a TOC, any sections marked for skipping will only be skipped on a CD-R machine.

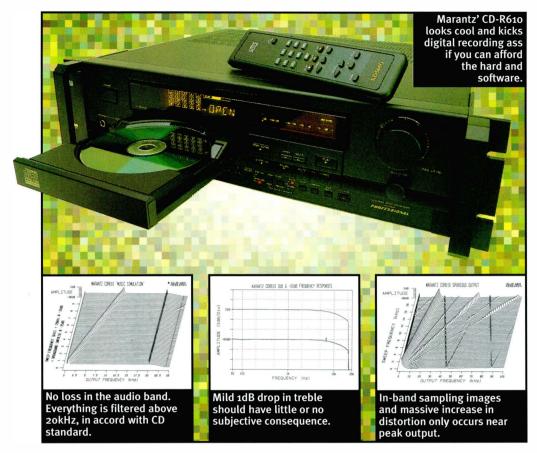
Where the CD-R610 really scores is on interconnection flexibility. It has analogue inputs and outputs (balanced only) alongside 750hm unbalanced, Toslink and 1100hm balanced digital inputs, allowing it to accept any professional or domestic digital audio format. It can be daisy-chained with other recorders, and remotely controlled by infra-red or wired remote, or an external event controller.

The Pioneer *D-07* has the unique feature of its 'wide', double sampling (96kHz) mode, but it also handles normal (48kHz) and long play (32kHz) recording and replay, plus 44.1kHz recording via digital inputs (coaxial and Toslink). It writes and reads the normal DAT start and skip IDs, which allow for very basic editing. It allows the user to enter track titles which scroll across the display, but the procedure for doing this is so tiresome that I can't imagine anyone bothering frequently.

The Philips DCC600 essentially offers no more features than analogue cassette, except for the ability to display pre-recorded track titles on certain recordings. It can divide recordings into tracks and search for them by number, and will play analogue cassettes. Forthcoming machines should address the issue of slow winding and track searching and will allow the entry of track names.

The DCC600 has a number of irritating features, from thewayit defaults to the digital input every time it is switched on, to the slow and clunky response of the mechanism. It also automatically writes track start markers after every four second pause, which can be infuriating. Because the tape plays both ways, the maximum continuous recording time is only 53 minutes, but it is possible to write markers which either reverse direction on the spot, or wind to the end and then reverse.

MiniDisc only lacks the ability to go rapidly to a given spot within a track (also missing from most CD players). Apart from that, track access is as fast as CD and of course one can program the playing order. Even better, tracks can very easily be divided, moved, combined and deleted after recording to cut out awkward pauses and give the desired running order. This means that the discs can be re-used almost indefi-



nitely.Trackscanbetitled, and all recordings are automatically marked with date and time of recording. After cassette, MD's random-access disc recording is a joy. For example, pop a half-filled disc in the player and within four seconds you have a display telling you how much time remains to be filled. Press record and start and you are at once creating a new, appropriately-numbered track right after the last one.

Both the DCC600 and the MDS-501 will record from a digital input: the DCC600 has coaxial input and output sockets only, while the MDS-501 has Toslink only (two inputs, one output). Both record at 44.1kHz sampling rate, but while the DCC600 only accepts 44.1kHzdata, the MDS-501 can convert from 48kHz digitally. Given that a stand-alone rate converter costs over £600, it's not a bad feature to have.

SOUND QUALITY		
MARANTZ CD-R610	****	
PHILIPS DCC600	****	
PIONEER D-07	****	
Sony MDS-501	****	

First, the good news; if you've been fearing the worst from DCC and MD, you'll be pleased to hear that they are really not at all bad. Although at no point during auditioning was anyone in danger of preferring either one to CD-R, taken in isolation both could have been mistaken for the average commercial CD.

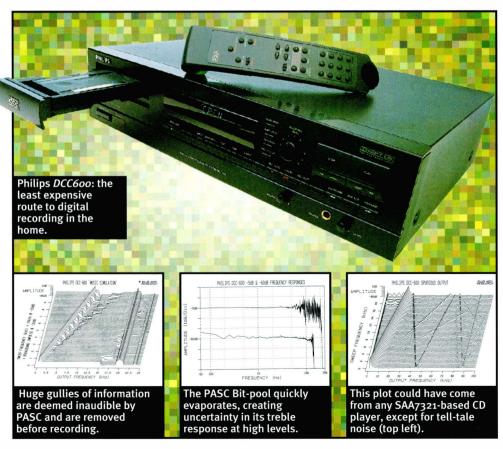
The first track recorded, and therefore the first listened to, was Saint-Saëns' Sonata for Clarinet and Piano. Of particular interest here was the comparison between CD-R and Super DAT, the latter portaying slightly more

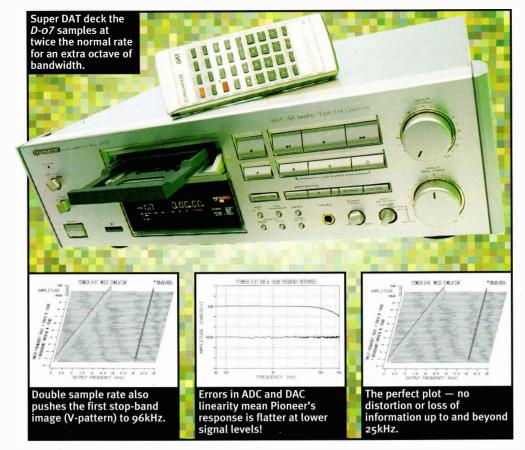
ambient information and a marginally purer clarinet tone. Having worked extensively with Geraldine, I am familiar with her sound and this tone seemed more accurate. However, CD-R seemed more precise in its image placement and more detailed in its presentation of information.

This may seem like a paradox, one recorder seeming to have more information yet less precision than the other, but this finding was repeated on every track. It can only sensibly be explained by the Super DAT's extra octave of response being compromised by the inability of the converters and filters used to produce exactly the same standard of detail.

Both DCC and MD lost some ambience and rendered the attack of piano notes less clearly defined. DCC seemed very slightly more natural, but the difference was small and, as with many such digital signal processing artefacts, varied from minute to minute. The benchmark - normal DAT - was resolutely in the middle, between Super DAT and CD-R on the one hand, and DCC and MD on the other, a position it maintained throughout.

In the impassioned climax of the Embroidery Aria from Britten's Peter Grimes, the CD-Rwas unequalled in capturing the tonal strength in Rebecca's voice. Super DAT came close to the CD-R recording, leaving DCC and MD bringing up the rear with a rather sani-





tised and less involving sound. By contrast, the gentler Not While I'm Around from Sondheim's Sweeney Todd was best served by the Super DAT, which clearly showed the advantage of its extra octave of treble by reproducing consonants(especially sibilants) much more cleanly than the other recorders.

Solo cello in a couple of Bach cello suite movements was relatively flattered by all the recorders. Again, the CD-Rwas the most precise, but the only area in which DCC and MD fell down was impact. Theyboth sounded a little polite and 'hi-fi' compared with the more raw and immediate CD-R and Super DAT.

Ronald Stevenson's Prelude and Fugue on Busoni's Doktor Faust is the sort of piano piece that stretches recording gear to the limit, rapidly covering the entire frequency and dynamic range of the piano with frequent and sudden contrasts. CD-R reproduced the whole effect with great panache, giving a solid image and plausible acoustic. Once again, the Super DAT hinted at greater detail on leading edges and high treble notes but sounded just a tiny bit strangulated.

MD seemed happier than DCC on very loud passages but a little less clear and defined at moderate levels, while DCC, although seeming to run out of energy on sudden loud notes, made slightly more sense of the complicated ending of the fugue. Both became a little fatiguing during the course of this (nine minute) track; though, frankly, to a lesser degree than some low-budget CD players.

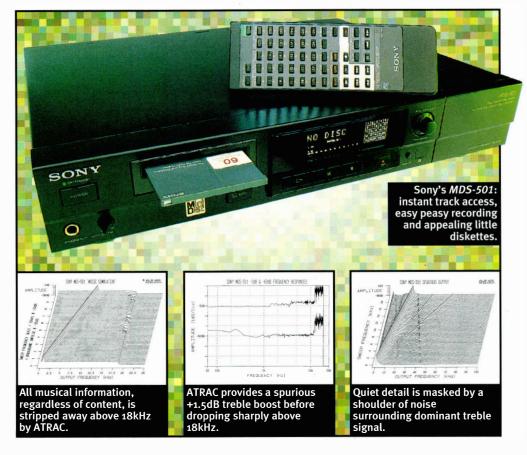
Subsequently copying this track digitally from CD-R to DCC and MD, and

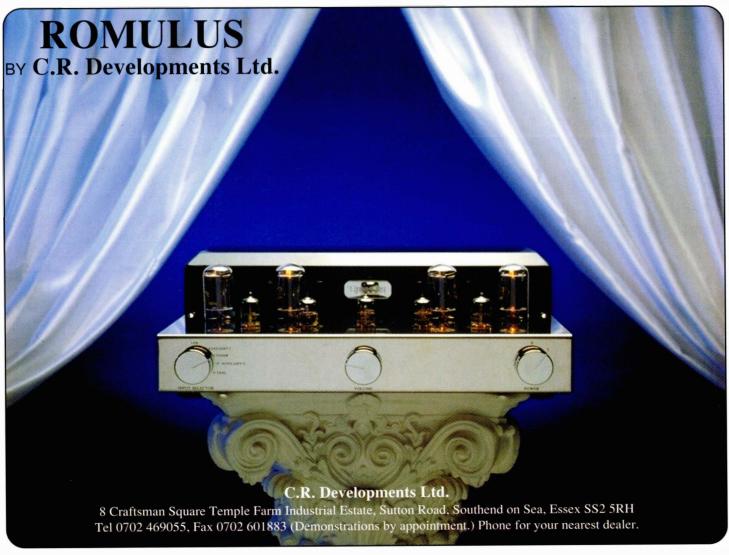
replaying both through a high quality external DAC, proved conclusively that neither DCC nor MD has the world's best converters. Surprisingly, via the external DAC, the sound could easily be confused with the uncompressed original, in casual listening at least. Only some lessening of attack and reduction of absolute scale gave the game away. They sounded more similar than ever in this mode.

VERDICT	
Marantz CD-R610	****
PHILIPS DCC600	****
Pioneer D-07	****
Sony MDS-501	****

The Marantz CD-R610 is obviously a serious, high-grade, professional recorder, but its price and the format's limitations make CD-R effectively a nonstarter for home use (well, what would you use it for?). However, for professional or well-heeled amateur recording use, recordable CD has much to recommend it.

Pioneer's D-07 Super DAT gives a hint of what can be achieved when the technology becomes more mature (an equivalentdouble-sampled CD could really be interesting). Even as it stands, it is an attractive proposition if you want to make high-quality recordings for domestic and semi-pro use, and its cost, compared to the CD-R610, makes the D-07 reasonably priced. Not to mention the







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### Data compression -what is it?

Basically, data compression (as incorporated in Philips' PASC and Sony's ATRAC) is a trick for recording only the essentials of a music track, to reduce the amount of data that must be put on a disc or tape. The success in defining the 'essentials' as we hear them determines the audible success or failure of data compressed formats.

major difference in software prices.

Both DCC and MD seem to fulfil their promise of an enhanced replacement for cassette where sound is concerned. both being entirely acceptable as a home recording format. They are still being developed, but at the moment the contest between them is not on soundbut on features and ergonomics.

Unless the issue of compatibility is your main concern, Sony's MDS-501 offers everythingwhile Philips' DCC600 has a way to go. However, it must be remembered that the Philips DCC is an older and cheaper model, although even with Philips' promised enhancements, it will never match a disc format for ease of use. It will be interesting to see how the market develops, assuming the price of MD comes down soon. But for myself, I want MiniDisc recorder and I want one now.

### Comparison Table

Viewed together, the graphs that accompany our four digital recorders vividly demonstrate the fundamental differences between all four formats. Crucially, the bandwidth of the CD-R and DAT recorders is limited solely by their respective sample rates. By contrast, both the bandwidth and content of recordings made on DCC and MiniDisc players are determined by their PASC and ATRAC data reduction programs.

This is revealed in the response plots of the CDR-610 which, in accordance with its 44.1kHz sample rate, rolls-off sharply above 20kHz. However, the D-o7, with its elevated 96kHz sample rate, extends way beyond 25kHz at the edge of the graph. The flat -6 odB trace is caused by the compressive linearity trend of its ADC and DAC (see table) which provides a complementary treble boost.

> Broadly speaking, the response of Sony's ATRAC remains unaffected by level but Philips' PASC progressively ditches high treble detail as the signal level is reduced. The

erratic nature of the responses is caused by the uncertainty of both ATRAC and PASC at high

frequencies, their respective 'bit-pools' (number of bits available for coding) being monopolised by bass and midrange sounds.

The CDR-610's 3D Spurious Output plot shows an unusually high amount of distortion

(max 1.6 per cent) which is joined by sampling images (-67dB) within the audioband. This is a specific problem and is restricted to the last o-3dB of the recorder's dynamic range. Only the MDS-510 betrays evidence of digital jiggerypokery, seen as noise masking signals either side of the main sweep at 8-20kHz.

Instead it's the 'Music Simulation' plots that expose the true nature of each beast. Take the Pioneer D-07 as a notional reference, its -6odB floor representing broadband low-level musical detail that stretches from o-25kHz. The CDR-610 simply demonstrates the limits of the CD sample rate while Sony's ATRAC data reduction casually abandons any information beyond 18kHz.

Despite the limited 4:1 data reduction rate of Philips' PASC (Sony's ATRAC reduces from 5:1, chopping incoming data to 20 per cent of its original size), it has the most dramatic effect on recorded signals. Although the 20kHz tone is retained, large areas of information — deemed inaudible in the presence of bolder signals — are sacrificed.

Evidently, though PASC data reduction appears more violent than Sony's ATRAC, by following a more complex set of 'rules' it is also more adaptable. Whether these rules are entirely realistic, however, is another matter.



Unfortunately not for this world, CD-R is priced to remain the exclusive domain of pro-audio.

	Comp	arison Table		
	MARANTZ CDR610	PHILIPS DCC-600	PIONEER D-07	Sony MDS-501
	20Hz 1kHz 20kHz	20Hz 1ĸHz 20ĸHz	20Hz 1kHz 20kHz	20Hz 1kHz 20kHz
CHANNEL BALANCE	0.06pB 0.06pB 0.15pB		0.03pB 0.03pB 0.13pB	0.00pB 0.02pB 0.04pB
CHANNEL SEPARATION	98.9pB 108.5pB 104.6pB			114.5pB 109.2pB 84.6pB
THD vs Level Odi	-102.8pB -77.6pB -35.9pB	-90.5DB -90.0DB -69.3DB	-95.1pB -92.2pB -81.0pB	-94.2DB -93.7DB -81.9DB
-300	-85.9DB -77.3DB -51.5DB	-77.1DB -71.0DB -66.9DB	-79.4DB -61.8DB -67.5DB	-81.5DB -74.5DB -59.1DB
-60pl	-49.2DB -45.8DB -20.5DB	-43.2DB -47.9DB -35.3DB	-43.6DB -37.6DB -35.2DB	-44.5DB -45.0DB -30.7DB
-80pl	-23.7pB -28.1pB +0.50pB	-17.1DB -25.0DB -13.5DB	-42.5DB -24.3DB -21.7DB	-25.5DB -25.8DB -9.50DB
Dithered, 90dB	-11.3pB -18.5pB +7.50pB			-17.4DB -17.5DB -2.50DB
DITHERED, -100dB	-11.7pB	-9.75pB	-7.20pB	-8.4pB
DITHERED, -1100B	-4.50pB	-2.50pB	_	
ADC/DAC RESOLUTION @ -6001	010 100 100000	+0.05pB -0.20pB	-0.20pB +0.20pB	0.00pB —
-8001		+0.05DB -1.20DB	+0.40DB +0.35DB	+0.10pB —
-90d		-0.40pB **	+0.75DB +0.90DB	+0.55DB —
-100pl	+1.05DB +1.40DB	+1.05DB **	+1.10DB +1.35DB	+0.75pB —
ANALOGUE INPUT SENSITIVITY FOR OD	(27)//2.5071/	State State of the	202:-1/	502 0.34
ANALOGUE INPUT SENSITIVITY FOR OUT	627mV/3.597V	144.0mV	292mV	596.0mV
ODB OUTPUT LEVEL,	6.299V	2.030V	2.337V	2.058V
333 0017 07 124 124	6.346V	2.050V	2.330V	2.056V
RELATIVE OUTPUT LEVEL	+10.0pB	+0.2pB	+1.3pB	+0.24pB
OUTPUT IMPEDANCE	1040HM (BALANCED)	315онм	970онм	9230нм
1Hz Noise Modulation	+2.4pB	+3.9pB	_	+9.1pB
CCIR IMD, ODB	-62.1pB	-95.3pB	-90.5pB	-98.5pB
Suppression of stop-band IMD	63.1pB	54.3pB	70.3pB	73.6pB
De-emphasis Accuracy, 1kHz	0.00pB	-0.38pB	No de-emp	-0.09pB
5 <b>к</b> Н	-0.10pB	-1.23pB	No de-emp	-0.06pB
16кН	-0.86pB	-1.20pB	No de-emp	0.00pB
S/N RATIO (A-WTD), W EMP, OLS	2.1.12	99.6pB	108.5pB	93.8pB
W/O EMP, OLSI		97.0oB	108.5pB	102.5pB
W/O EMP, 1LSI	97.3 <sub>DB</sub>	96.90B	108.4pB*	98.3pB
CRYSTAL CLOCK ACCURACY	-40.4PPM	-16.3PPM	0.00ppm/0.00ppm	-70.7PPM
SERIAL NUMBER	AH01-9407-530001	AH01-9316-204082	NJ8400286	35944
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Read below the verdict from a recent interconnects supertest in What HiFi? Then visit your local Sonic Link dealer.

# Sonic Link Violet £80 Verdict \*\*\*\*

Violet cable works well in high quality system where information retrieval is a priority. Despite having warmer, fatter bass than Pink or Red, it remains exceptionally clear and detailed, especially in the mid-range and treble. Music's upper registers are very delicately portrayed but instruments nonetheless have a reassuringly solid feel. Not suitable for ragged-sounding systems.

### Sonic Link Pink £25 Verdict \*\*\*

This ultra-slender cable looks unconventional and home-brewed, but it does offer a respectably detailed and cogent sound. Pink's tonal balance is rather light, due to its lean, dry bass, but it doesn't sound too forward in a well balanced system thanks to very refined treble and good overall clarity. In fact this cable's fast, rhythmically urgent sound is very appealing.

### Sonic Link Red £45 Verdict \*\*\*\*

Just like Pink, Red is also skinny, but packs loads of musical information into its slim and modest diameter, recommended as a CD to preamp link, red is vividly detailed with a vibrant and lively tonal balance, which is aided and abetted by good dynamic contrast and slick timing. Provides bass with far more substance and weight than the less pricier Pink leads.

Verdict ★★★★ Blue uses Sonic Link's rhodium plateplugs, which are claimed and certainly seem able to out perform the more common gold plated variety. Blue has a very clean and spacious sound that captures low level detail very well. Like the Violet cables though, it can be too revealing for s system.

### Sonic Link Blue £120 Sonic Link Black £150

### Verdict ★★★

A heavyweight, even by Sonic Link standards, this cable uses silver-plated cable and rhodium plugs. Its sound is too weighty too, but bass sounds over-bloated, slowing lively music right down. We still prefer the cheaper Blue cable, which gives bass lines more intonation and flow, resulting in the music seeming faster and better articulated overall.

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# On Test

# Headphones

Will Alvin Gold find comfort in a pair of £20-£50 headphones, or will the latest technology get the better of them?

e are living through a period of turmoil and revolution. New technologies proliferate: black vinyl records have been usurped by compact discs, while a battle for supremacy rages between DCC, MD, DAT - all right, not DAT – and who knows what else lies iust around the corner.

A seemingly endless variety of variations on the CD theme are vying for your allegiance and your money, with digital radio and digital speakers around the corner. Even familiar and comforting concepts like two speaker stereo are up for examination. And headphones, what part do they play in these unsettling but exciting times? How has their technology advanced to meet the new challenges?

The answer is that with a few honourable exceptions, standards have either remained stable, or they have even regressed. While everything has changed around them, headphone designers seem to have been, to coin a phrase, out to

Let's backtrack for a moment. Tested here are 10 headphones in what might be described as the entry level band for serious designs, centred on £30 to £40. The last full test in Choice appeared around a year ago, but I have been running similar tests for much longer than this, and it is this perspective that underpins the critical tone of the comments expressed

### Personal hi-fi or accessories for a personal?

It is tempting to use high quality, high fidelity headphones to upgrade the performance of a personal stereo, and on the whole this makes sound musical sense. However, there are one or two points to watch. Most of the headphones tested are far from discreet, though there are important differences, with the largest, the Sony MDR-CD450, being several times as bulky as the Audio-Technica ATH-M2a, which could just pass as an overgrown miniature.

There is another purely technical factor. Not all headphones are electrically suitable for use with personal stereo players, which may not have enough power in hand to drive them to sensible volume levels. There are no rules about this since the sonic character of a headphone can make one model sound

louder than another of similar sensitivity, and the power output figures specified on personal stereos are not to be trusted.

I tried each of the test models with an Aiwa cassette personal, which is broadly representative of the genre. Three models, those from Beyerdynamic, Koss and AKG, were judged too insensitive for use in this way. The Pioneer, Sony and Ross models were better, and are capable of generating adequate volume levels for all but the most demanding (and foolhardy) users, though perhaps not with every personal stereo.

The Vivanco and Sennheiser offer slightly greater sensitivity still, and the most sensitive, and therefore the preferred choice for the head-banging fraternity, are the models from Maxell and Audio-Technica.

### The comfort factor

A quick trial in your dealer before you buy will tell you little about that other key element of headphone design - long term comfort. Sealed headphones with impermeable ear cushions that sit on the ear rather than around it tend to become uncomfortable very quickly.

In addition, lightweight sealed designs are often microphonic, providing a noisy and coloured environment for the ears which becomes almost subliminally tiring in short order. Open back models generally allow

the ears to 'breathe' much more freely.

In all cases, check that ear cushions are removable for washing (unless they have a wipe clean finish), and that replacements are available. Dual headbands, which consist of an outer sprung band, and an inner flexible band to locate on the head without pressure hot spots, are invariably more comfortable than single headbands, however well padded. Finally, loose fitting phones, such as the Sennheiser HD320 tested can be a liability for the active user.



### The cast list

AKG <i>K70</i>	£39.95
Audio Technica <i>ATH-M2a</i>	£27.95
BEYER-DYNAMIC DT 311	£49.95
Koss TD/60	£29.99
MAXELL HP-3000	£29.99
PIONEER SE-400D	£36.95
Ross RCH-300CD	£19.99
SENNHEISER HD320	£39.95
SONY MDR-CD450	£44.99
Vivanco <i>SR606</i>	£39.99

True, there are one or two models in this test that show real advances, either in technology or in the understanding they show of the problems inherent in music reproduction through headphones. The rest, however, do not. Looking at the group as a whole, there are perceptible signs of backsliding in at least one impor-

For the last couple of decades, the standard has been set by so-called open back or vented headphones, whose simplicity, and intrinsically open and uncoloured sound, turned a generation on to headphones-based music. Now there are signs of a retreat towards an older and more problematic technology, namely the sealed or closed back headphone.

This change is highly significant. Sealed headphones are what the phrase suggests: headphones which form an acoustic seal around the ears, and behind the drive unit, to prevent the listener being disturbed by the sounds of the outside world, or polluting that same outside world with whatever you're listening to.

These are laudable enough aims, though it should not be forgotten that music played at normal levels through headphones will drown out much of the environmental static without the need to erect additional barriers.

But this is beside the point, which is that designing sealed headphones, and compact sealed headphones in particular, is more exacting than designing open back models. The evidence of this test, in fact, is that it is all but impossible to design decent sealed headphones at the prices we're looking at here. However, as ever there is just one exception to prove that the idea isn't an entirely lost cause.

# **AKG K70**

he £40 K70 from AKG is bottom of the K series which includes the finest non-electrostatic headphone I have encountered, namely the K400. The K70 obviously benefits from some of the development work that made the senior model so special.

Physical design points include the use of a self-adjusting twin headband in which the inner. pliable band locates around the head. adjusting itself against the spring pressure provided by what amount to elastic bands at each end. As usual with twin headbands, the outer part is a spring

hoop which determines the inwards pressure on the ear. The design would be near perfect if AKG had adopted a more flexible inner band.

The K70 is an open back design, weighing 120gm, with a 100 ohm impedance which should make it a better match than many to the relatively high impedance headphone feeds on some less competently designed amplifiers, CD players and cassette decks. The lead, which is attached to both capsules, is 1.8 metres long, and fitted with the standard arrangement of a 3.5mm plug and a 6.3mm slipover adapter.

The K70 feels tight and snug (inwards pressure on the ears. which is non-adjustable, is moderate) but the ear cushions have a soft, cosseting feel. Their open construction also helps to ventilate the ears and keep them reasonably cool. This kind of material, however, is not the most hygienic on earth, and will need to be removed for washing, which is something that doesn't concern its wipe-clean counterparts.

With the experience of the K400 fresh in mind — I used them as a reference point for this test — I was extremely disappointed by these headphones. Comfortable they may be, and the bass seems warm and full, but output doesn't extend very deep into the true bass, and the



Will the AKG *K70* live up to the quality of the reference *K400* headphones?

midband lacks in colour and variety. The sound as a whole has no drive or dynamics. Everything appears to be happening on the same plane, and there is little sense that the music is changing in volume level as the K400 clearly reveals it should.

The real problem, however, is the shut-in, thin and reedy treble which speaks of serious high frequency break-up modes in the drive unit diaphragm. Tonal balances are dull; a clapping audience sounded like dried peas rattling in a small cardboard box.

There were also some interesting inconsistencies brought about by the contradiction between a close, in-head presentation of bass sounds and a wispy, distant midband and treble which made it very difficult to get inside the music - something that I feel is vitally important in any audio system, regardless of cost.

- Strong on comfort; sumptuous ear cushions: self-adjusting inner headband.
- The drive unit lacks the quality to match the plus points already

SOUND \*\*\* VALUE \*\*\* PRICE £39.95

Marman Audio UK Ltd, Unit 2, B'wood Ind Park, Rowley Lane, Borehamwood, Herts WD6 5PZ.

081-207 5050

## **AUDIO-TECHNICA ATH-M2A**

ne of the most striking features of the last few years of headphone design, (discussed more fully in the introduction), has been the surge of interest in compact, sealed headphones. This is something that the Audio-Technica ATH-M2a exploits.

It's an extremely compact model, with tiny annular ear cushions that sit on the ear, and a single covered but unpadded headband hoop which exerts only the smallest amount of pressure on the ears. The unusually long 3.5 metre lead splits to both ear pieces, and is equipped with a standard dual plug.

Impedance is 22 ohms, which may react poorly with less adequately designed headphone drive circuits, possibly resulting in the loss of extreme treble.

As far as music goes, the ATH-M2a is not so much bad as simply inadequate. There's no bass to speak of, and little that justifies being called upper treble. On the other hand, there is plenty of midband from the drive units whose output appears to be on a smooth but steady decline above 1-2kHz.

The music sequences used for this test were uniformly deathly boring to listen to, with acres of undifferentiated sound barely changing in texture or colour from one piece to the next.

It was the almost complete absence of bass that led to the almost compete lack of colour. The less severe lack of real treble meant that subtle matters of inflection and instrumental timbre were subsumed in what was left namely that rather pushy sounding midband. There were also some microphony problems, associated with the plastic mouldings that envelop the capsules.

I have heard more bass from some true miniature in-ear models, a paradox that arises from the way they interact with the design of the ear canal itself. With some headphones, the lack of low



frequency grunt can be attributed to poor sealing around the ears.

But although the design of the seals does indeed appear to be deficient, holding the capsules firmly against the ears failed to produce the expected benefits in the deeper regions, indicating that the bass loss is inherent to the generating system — the drive unit and perhaps the bass loading applied by the outer shell that covers the capsule. In fact, treble definition picked up significantly when the capsules were pressed inwards.

About the best excuses the ATH-M2a has to offer is that its cheap, comfortable and well built. It is also true that the ATH-M2a lacks some of the overt colorations inherent in a large number of the competition. But the limitations are simply too severe to avoid censure, even at so low a price.

#### VERDICT

- Cheap; extremely comfortable: good build quality and adequate (if over exposed) midband.
- Threadbare audio performance at both ends of spectrum.



- ⋈ Audio-Technica, Technica House, Unit 2, Royal London Trading Estate, Old Lane, Beeson, Leeds LS118AG.
- **1** (0532) 771441

### BEYER DT 311

eyer is one of the big three \_ the triumvirate of top European microphone manufacturers with headphone making arms. The others are Sennheiser and AKG who, along with Sony of Japan, have come to dominate the quality middle price headphone market.

The DT 311 is an entirely characteristic Beyer. It has an open back design, is light in weight (124gm) and it has a modestly high impedance (40 ohms) which will match well with the headphone drive circuit on virtually any amplifier.

At the same time, the Beyer is one of the least sensitive models I have

encountered, and certainly the least sensitive in this test. Most battery driven equipment, and even the odd cassette deck or CD player fitted with a fixed output level headphone socket, may find that this model gives volume levels which are too low to be viable.

Dressed in a fetching modern black and red colour scheme, the DT 311 has a single hoop headband, strategically padded, which is claimed to be unbreakable, and which exerts somewhat higher inwards pressure on the ears than usual. The capsules are foam-lined, and covered in a cloth that feels cool on the ears. The lead is 1.8 metres in length, and terminated by a 'Y' attachment at one end, and a 6.3/3.5mm dual plug at the other.

Overall, this is a likeable headphone, though it's not a particularly accurate or analytical one. It has a slightly tubby bass and forward midband. It worked quite well with most of the rock music extracts used for this test, but it made something of a meal of the classical pieces. This was thanks to a rather thick and inappropriate rollicking midband which underplayed the elegance and beauty of Mozartian strings (to give a representative example).

The real Achilles' heel of the DT 311, however, is the treble, which lacks the openness, clarity and



Beyer Dynamic's *DT 311*; good on rock, but too thick-sounding for classical music.

sheer class of something like the Sennheiser HD430. The problem was obvious even with speech, which failed to articulate sibilants. 'S' sounds reproduced as 'sch' and a rather heavy-handed variant at that, not the lighter and more feline 'sch... you know who' species.

Stereo soundstaging also suffered, as it does when different parts of the audio frequency band are not treated in a mutually consistent way, the net effect being rather close, even in the head.

Despite these shortcomings, the Beyer is bold and colourful, with strong midrange dynamics. It also sustains protracted use rather better than many, despite the rather high inwards pressure on the ears. This is perhaps because of the combination of open back construction and the artful design of the ear cushions. Not an instant hit, but definitely worth a listen.

#### **VERDICT**

Firm, but comfortable; positive, engaging sound.

Lacks refinement in the treble, and control in the bass; stereo imagery lacks spaciousness and consistency.

SOUND \*\*\* VALUE \*\*\* PRICE £49.95

☑ Beyer Dynamic (GB) Ltd, Unit 14, Cliffe Industrial Estate, Lewes, West Sussex BN8 6JL.

(0273) 479411.

# Koss TD/60

hat can I tell vou about these phones? The packaging gives very little away, but that is what I was referred to when I asked the Koss distributor for information. About all I can say is that the TD/60's impedance is 27 ohms and weight is 7.3oz (that's about 204 gm in real money).

While a sheet of comprehensive instructions are not a prerequsite for a pair of headphones, the level of information on the packaging is rather poor. One interesting snippet I did glean from the packing, however, is that this latest testament to US high

technology is made in South Korea.

The TD/60 is a very simple headphone. It's a sealed design with non-permeable covered foam ear cushions that sit on the ears, a simple padded steel hoop headband and a two metre lead with a 'Y' piece at one end to connect to both capsules, and a 90 degree 3.5/6.3mm plug at the other. The TD/60 neither looks nor feels like a quality item, but it's a competent one, and it fits the head like a glove (er, like a glove fits a hand, that is).

Within the rather limited brief that seems to have been set here. the TD/60 is a success. But there is one sour note; the ear cushions are fixed in place with glue. They can be wiped clean, but cannot be easily replaced if they are damaged, which from their uninspiring construction looks all too probable.

The Koss is closest in overall performance to the Ross and Maxell models described later in this test. All three have the same bandwidth problem for example. The bass is lacking to the extent that changing to a more capable design (such as the Sennhesier HD320 — see page 69) reveals the presence of previously unsuspected instruments - or, in the case of orchestral recordings, whole orchestral sections, such as the cellos and basses.



A perfect fit for the Gold head, but does the Koss TD/60 have a sound to match.

These instruments aren't merely well hidden through the Koss, they're not there at all. The Koss draws a veil over everything that happens below, say, 150Hz.

Treble quality, by contrast, is reasonable. It is possible to follow fine detail, though instrumental colours tend to be on the squeaky side of neutral. The Koss has a pervading quacky, almost plasticky midband coloration, and a ringing quality that is excited by certain sounds, but not by others.

Treble quality of the Koss still transcends most of the other sealed headphones in this group (though the Sony CD450 is an honourable exception here).

The Koss is also a great deal more open and spacious sounding than its most direct competition. But this in itself is not enough, and even at £30, the Koss TD/60 does not look cheap.

### **VERDICT**

The Koss is on the whole better behaved than most of the direct (non open-back) competition. Like listening to AM radio; colorations in the midband and higher frequencies.

PRICE £30.00

SOUND \*\*\* VALUE \*\*\*

M HW International, 167-171 Willoughby Lane, Brantwood Industrial Area, London N17 oSB. 081-808 2222.

# MAXELL HP-3000

y first impressions of these £30 compact sealed headphones was favourable. The HP-3000 make a colourful display in their packaging. which showcases the gold-plated 3.5mm captive plug and 6.3mm plug on adapter. The good impression is sustained out of the packaging, thanks to the contemporary rounded appearance and sumptuous padding around the headband. The whole effect is pleasing, but is badly let down when they are used for the first time in anger.

Sad to relate, the Maxell are not

comfortable headphones. I felt claustrophobic wearing them. The bearing surfaces were poorly shaped and knobbly, and the 'dual axis' freedom of movement promised on the back of the pack was insufficient to allow the phones to sit flat on my ears in the lateral plane. They exerted considerable pressure too, though this would probably not have attracted adverse comment had other comfort related aspects been more favourable.

Maxell gives little away about the technology on offer beneath the sheets, as it were. Beyond the anodyne suggestion that the HP-3000 are 'digital' stereo headphones, there is little to say. Impedance is given as 32 ohms, and the headphone is wired with 120 inches of thin cable to a standard dual plug. The lead is wired to the left hand earpiece only, and a volume control and mono/stereo switch are fitted to a small in-line remote control.

Musically, the HP-3000 is uninspiring, though by the standards that prevail in these price latitudes, it is not offensive. The mid and treble are smoother and less overtly coloured than some, but tonally the balance is extremely dull, with little fine detail on offer.

As usual with budget sealed designs, it is the sound of the capsule housing that predominates,



Maxell's HP-3000 looks attractive but is not comfortable to wear and sounds congested.

and while there is no sharp high-Q resonance to draw the ear, the overall effect is boxy and slurred. Notes tend to run together in a blur, and subtle ambient effects are swamped by the general low frequency noise generated by the capsule housings when energised by the music.

There is little energy at either frequency extreme, the bass being particularly lightweight, though there is plenty of upper bass which might be mistaken for real bass.

One other property, noted repeatedly, was the close, in-head presentation. The sound is very tight and congested, with absolutely no sense of air and space, and it was this, as much as the physical discomfort of the ear cushions, that set the tone for what followed. In short, this model has little to do with high fidelity or entertainment.

#### VERDICT

- In-lead volume and stereo/mono controls; build quality is okay; smooth, basic sound.
- Congested; dull; lacks dynamics and resolving power; poor comfort levels.

SOUND \*\*\* VALUE \*\*\* PRICE £29.99

Maxell UK Ltd, 3a High Street, Rickmansworth. Hertfordshire WD3 1HR.

**2** (0923) 777171.

### PIONEER SE-400D

ioneer's contribution to this test is one of the new breed of compact, semi-sealed designs. The £37 SE-400D has the added spice of two small horn shaped vents behind the cone in an attempt to wring extra bass from the relatively compact design. The cable is three meters long and of oxygen-free Litz construction. It's connected to both earpieces through a 'Y'-section, and terminated in a 3.5mm plug, with a push-on 6.3mm stereo jack adapter.

The Pioneer's physical design draws a lot from the Maxell and the Ross models also covered in this

test, and it is not the most comfortable headphone in the group. Straight from the box, it clamps the head rather hard, and I was only able to slacken the headband a little by repeatedly bending it back.

The ear cushion consists of an impermeable oval synthetic cloth over a foam base. It is quite well shaped, and sits on, rather than around, the ears. It felt okay but warmed up quickly. The other negative is the headband, a simply covered circular single hoop.

Finally, the Pioneer is microphonic. Talking with the phones in place was like listening through a stethoscope, and though this might not matter in secluded listening, the same quality shaped all sounds from the headphones.

The Pioneer's saving grace is a decently engineered pair of transducers. Although performance overall is barely enough to qualify as high fidelity (leaving aside what the term means), even this modest level of achievement places the Pioneer light years ahead of more than a few of the rest.

The basic requirements for decent headphone performance are met. The Pioneer is smooth and neutral. The treble offers a fair degree of clarity and presence, with little of the sharpness or obvious resonance problems endemic at this



Solid, comfortable design from Pioneer in the shape of the compact, semi-sealed *SE-400D*.

end of the price tree. This generally respectable showing is matched by a bass quality which is open a good half octave more than other ostensibly similar headphones in this test. Maybe those odd looking horn mouldings do work after all.

There are cabinet induced colorations which, in common with other models sharing the same general construction, means some rather heavy midband colorations and overhang. This gives the Pioneer SE-400D a rather lumpy, undifferentiated quality, notwithstanding the behaviour of the treble in isolation — the only caveats being that that these things are not enough to totally swamp the positive features.

This is an enjoyable headphone to use. At the end of a couple of hours solid use. I wasn't itching to pull them off, at least as long as the volume hadn't been set too high.

#### VERDICT

- Adequate comfort levels are offset by a staid but presentable, ven likeable, sound quality. The usual culprits, including
- some obvious (though not ruinous) midband colorations.

SOUND \*\*\* VALUE \*\*\* PRICE £36.95

- ☑ Pioneer Hi-Fidelity (GB) Ltd, Pioneer House, Holybush Hill. Stoke Poges, Slough SL2 4PQ.
- (0753) 789500

## Ross RCH-300CD

impressions of these £20 compact, sealed headphones was favourable. They make a colourful display in their packaging, which showcases the goldplated 3.5mm captive plug and 6.3mm plug on adapter . . . Hang on, haven't we been here before?

The answer is yes, with the Maxell HP-3000. The Ross and Maxell have almost the same physical design. They seem to come from the same Chinese supplier, with some mild customisation of (probably) off the shelf components.

Read all about it under Maxell HP-

3000. Just because the structure is largely identical, however, there is no reason to assume that the capsules themselves are the same. They don't sound the same (though there are some similarities), and they are not acoustically loaded in the same way. The Ross uses a semi-sealed loading design, with a single vent in the outer covers that surround the capsules.

The drive unit is also promising. Ross specifies samarium cobalt magnets and Mylar diaphragms. though the 'high velocity' drive units should not be confused with socalled velocity drive, which relies on full open back working.

The Ross is fitted with impermeable on-ear oval cushions. Impedance is low, and weight is a very moderate 155gm, which is actually too low for effective sound isolation. A fair amount of solidity and damping is needed for effective sound insulation, and both properties demand a certain amount of weight. The three metre cable is attached to one capsule only, which is an advantage. An inlead control is fitted for volume and mono/stereo switching.

As it happens, the external similarity with the Maxell is not matched by the listening results. On the one hand, the Ross has a cleaner, clearer and more detailed sound than the Maxell; on the



Ross *RCH-300CD* bears a striking similarity to the Maxell *HP-3000* also in this test.

other, there is a sharpness and strain in the higher frequencies that suggests a sharp treble resonance or break-up mode, which make these headphones extremely tiring to listen to. Speech is reproduced with an aggressive, pushy quality that quickly had me reaching for the volume control.

Music, though easier to follow, was similarly sharp and graceless in character, and the ability to extract detail from the music was much too low to act as any kind of compensation.

And so the story continues. The bass is shallow, but with the same upper bass prominence identified with the Maxell; this part of the audio spectrum is dominated by the structure of the capsule.

My abiding impression however, was one of relief - when the time came to move on to the next model in the test.

### **VERDICT**

- In-line volume control and stereo/mono switch. I found these headphones a trial; they are uncomfortable. aggressive and shallow in
  - expression and tonal colour. VALUE \*\*\* PRICE £19.99
- ⋈ Ross Consumer Products Ltd, Emlyn Street, Farnworth, Bolton, Lancs BL4 7EB.
- (0204) 862026.

SENNHEISER HD320

he *HD320* is a junior member of Sennheiser's new Expression Line. The style is highly distinctive, and several novel and clever features have been introduced, the most important of which is a dual headband design (see AKG) with a novel locking head size adjustment. This is both comfortable and unlikely to lose its adjustment — a common failing with dual headband headphones.

Another important feature is a new oxygen-free copper (OFC) lead which interweaves the conductor with Kevlar to increase strength. Previous generations

used a plug on the end of the cable 'Y' lead to mate with matching sockets in each capsule housing.

With the Expression Line range, this feature has been dropped in favour of a single connecting point on one earpiece only, in response (says Sennheiser) to consumer demand. This change coincides with a change to a permanently soldered lead, just like all other brands. Sennheiser probably reasoned that a single plug and socket would be far too vulnerable to everyday accidents, such as treading on the lead when walking about.

Other elements in the HD320 include Sennheiser's most famous feature: the 'unbreakable' headband which can be contorted to some unlikely shapes without risk of fracture or distortion. The lead is three metres long, and is equipped with the usual twin plug.

The ear cushions are covered in a soft, permeable cloth which is always cool and comfortable, and inwards pressure on the ears is low, which makes them exceptionally easy to wear, especially in extended use. Only rapid side to side head movement can dislodge them. The ear cushions are fully replaceable. Indeed, Sennheiser is the only maker of the 10 to explicitly recommend regular replacement, citing reasons of hygiene.

Sound quality is exceptional,



easily the best of the group. Veering on the side of euphony rather than analytical clarity, the HD320 sounds full and warm, but with less coloration than any model in the group. Compared to any of the other nine models, the level of detail reproduced from all sources is nothing less than prodigious.

Switching from any of the other models to the Sennheiser was to change a flat, dimensionless radio play into a living, breathing space. It added depth as well as width, in which the actors interacted in a believable way, the acoustic of the space around them being properly defined. With music too, similar qualities were apparent.

Instruments were more clearly and distinctively formed, and the Sennheiser HD320 was the only model tested capable of doing justice to the expressiveness and dynamics of fine playing.

### VERDICT

- The best of the group; clear, concise, overhang-free sound. A drier balance might have been referable; not suitable for the highly mobile.
  - - PRICE £39.95
- ☑ Sennhesiser UK Ltd, 12 Davies Way, Knaves Beech Business Centre, Loudwater, High Wycombe, Bucks HP10 9Qy.
- (0628) 850811.

et another sealed headphone. the CD450 is a more serious looking design than most. The capsules are large in size, with an 'ear conscious' inclined oval ear cushion that sits around, rather than on, the ears for good acoustic sealing. Weight is higher than the group average at 250gm, but clever detail design, and the wide 'footprint' of the ear cushions, makes this a comfortable

protracted use. The drive unit is built around high energy neodymium rare earth magnets, and appears to be quite high-tech in design, though

headphone, even in

Sony's descriptive matter is notably short on specifics, contenting itself with such observations as 'allows expression of a delicate and beautiful sound.' Well, that's okay then. The OFC cable is three meters long, with a 'Y' connection to both capsules, and a dual plug at the far end. For once, the 6.3mm adapter screws onto the 3.5mm plug soldered to the lead, which should make a more reliable long-term connection, though I'm not sure that it is 'resistant to a secular change' as Sony claims.

In stark contrast to most of the other sealed headphones in our group, the CD450 actually offers some useful attenuation of sound from the outside world. Its large size, and the circumaural earpads, clearly stand it in good stead here. Even so, the reduction in sound from the outside world is only a matter of a few decibels - easily noticeable, but far from dramatic.

I liked the sound of this model. which displayed an airy quality, a scale and spaciousness quite out of the ordinary for the group as a whole, or for a sealed headphone in particular. Like any good headphone, the Sony has a reasonably even spread of abilities. Tonally, the CD450 is close to neutral, though there was some masking of very high frequencies which reduced vocal clarity to a



certain extent. The midband was

clean, open and colourful, and the bass was fairly well extended, tuneful and, well, just plain competently executed.

The only problem identified on test was a degree of low level coloration associated with the ceramic composite housings. This coloration is related to the microphonic construction of the conch-like housing — listen to the handling noise when you run a finger across the capsule casing while they're on your head. This problem is far from uncommon with sealed phones, but at least it doesn't overwhelm the sound, as it often does elsewhere.

Taking everything together, this is a strong performer, which will be of particular interest to those who need a degree of isolation from outside sources of interference at a reasonable price.

### **VERDICT**

- Solid, neutral sound quality; fair isolation from the outside world. Loss of treble clarity, which
- affects music and speech subtleties; low-level structurerelated colorations.

SOUND 🔭 VALUE \*\*\*

PRICE £44.99

☑ Sony Consumer Products Ltd, Sony House, South Street, Staines, Middx, TW184PF.

**2** (0784) 467000.

## **VIVANCO SR606**

ere is an exception to the current trends at this price level. The £40 SR606 is an unfashionably generous semi-open back design, with wide diameter ear cushions which fit comfortably around the ears. This is a factor which improves long-term comfort immeasurably, even though the various bits of padding are harder than I would have preferred.

Notwithstanding the open-back design, the substantial build and large physical appearance has the unexpected side effect of ensuring that the ability to block sounds from the outside world is

comparable to most of the sealed models in this test. This is as much an indictment of the unsatisfactory isolation afforded by some of the latter as it is a positive statement about the Vivanco. These comments do not include the Sony, which, in this respect at least, is made from sterner stuff.

The cable is rather thick and inflexible, though it is more or less non-microphonic. A short 'Y' section couples it to both earpieces, and at the other end is a standard dual plug arrangement.

Although the Vivanco SR606 is not the crispest or the most detailed sounding headphone in existence, the model is a genuinely civilised design. It sounds open and clean, with a warmth and graciousness denied most of its competitors. On the showing of this test at any rate, it's also bolder and more colourful than most.

It is instructive to compare this model to the only one in this test capable of playing in the same ballpark — the Sennheiser HD320. The Vivanco is the stronger meat. It has a richer, more varied sense of tonal colour and a fuller bass, in some way like a pair of HD320 played through an amplifier whose loudness control has been turned on. Where the Vivanco looses out is in the general area of refinement. The SR606 is just perceptibly thicker



The big, bold semi-open Vivanco *SR606* is costly, but it lives up to its price-tag.

in texture and less subtle.

The Vivanco is also a tad boxy, and there is a certain loss of separation, and of the independence of related but separate sounds. Orchestral strings for example have a homogenised, rather samey quality. But this model remains a fine all-rounder. Its easy, outgoing and undemanding sound quality makes the SR606 easy to listen to, if not through.

This model remains one of the good guys, a model that will suit a wide variety of users. Its positive, outgoing character makes it easy on the ear, and a more attractive initial proposition than some technically more neutral designs. The physical design makes it possible to listen for long periods without too much danger of listening fatigue. And if the Vivanco SR606 isn't quite the most refined headphone in its class, it isn't too far short.

### VERDICT

- Unusually comfortable; bold, colourful and dynamic music; articulate speech.
- Lacks a little refinement and spaciousness by the best standards.

VALUE \*\*\* PRICE £39.99

- ☑ Vivanco UK Ltd, Unit C, Boundary Way, Hemel Hempstead, Herts HP2 755.
- (0442) 231616.

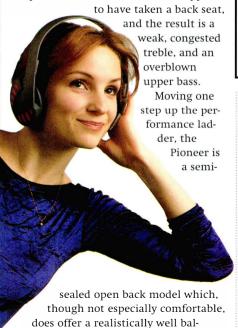
## **HEADPHONES**

## Conclusions, best buys and recommendations

efore looking at the individual models, I have a couple of more general observations to get off my chest. The first is that there is a greater variation in the performance of these headphones than in any other group of hi-fi products I can name, even products as notoriously variable as loudspeakers.

The second concerns the sheer incompetence of a large proportion of the group. The most charitable explanation is that not all the designers involved used the same design goalposts. Several of the models tested were so bad that it seems scarcely credible that they were ever properly auditioned by informed, musical ears. The fact that exceptions exist, however, demonstrates that something approaching true excellence is possible for less than £50.

Least satisfactory of all those tested were the Ross RCH-300CD and the Maxell HP-3000, both of which can best be described as crude and A-musical. The Maxell has the edge, but at two-thirds the price, the Ross offers better value for money. The Koss TD/60 was somewhat better, though again very limited in its capabilities, especially towards the frequency extremes. The Audio Technica ATH-M2a is thin and utterly devoid of bass, though it is comfortable and it does have an acceptable midband. The AKG K70, the first of the open back models, is well built, but the performance of the drive unit appears



anced performance, along with a num-

## **Best Buy and Recommended models**



Another classic from Sennheiser, the *HD440II* is an alternative design to try in this price range.

#### **Best of the Rest**

The £20-£50 price band is home to a variety of similar models under different product names. As there is relatively little continuity from all but the largest handful of suppliers, it is hard to be definitive about which models to include in a shortlist. A few names do spring to mind, however, along with a couple which cost just over £50 which should be considered by anyone interested in spending towards the top of the band. One example of the latter is the Vivanco SR808 Classic, which is an excellent open back model that costs £55. Another is the Beyer DT411, which at £59 is generally more successful than the *DT311* covered in this test.

Within the price band tested, the obvious stand out model is another Sennheiser, the £35 HD440 II, a classic model which has been and updated is light open and airy, if slightly 'cold' tonally. There is also an excellent closed back model called the MDR-CD350 from Sony, a snip at £30, and almost certainly the cheapest satisfactory sealed headphone you can buy. At the bargain basement end of the price band, look out for the Kenwood KH-1000, a kind of outsize

miniature that will set you back just £20, which places it in direct competition with the Ross RCH-300CD. As an alternative, Aiwa produces a model called the HP-X30 which costs a little more, £26, and which does a broadly similar job, albeit with a rather heavier, bassier balance.

#### **Best Buy**

The £39.95 Sennheiser HD320 stood out as the best of the group. Extremely expressive and clear headphones - but don't dance around too much as they may fall off.



and the very appealing Vivanco SR606, right.

#### Recommended

Pioneer's £36.95 SE-400D is part of the current trend for compact, semi-sealed models. Sounds great and is comfortable to wear.

The reasonably priced MDR-CD450, at £44.99, is a sealed design from Sony that ensures a fair degreee of isolation together with a solid neutral sound.

Vivanco's SR606, £39.99, should prove to be a popular buy. It's attractive, comfortable and very easy on the ears.

ber of, mainly low-level, colorations -Recommended

On to the Sony and own up time. This is the second time I have crossed the MDR-CD450's path, and although the basic observations (its lack of clarity, and the colorations attributable to the microphonic capsule construction) were confirmed, I find myself better disposed towards it this time. The reason of course is the general standard (or lack of standards) of the group as a whole, especially the sealed models. If you really want a sealed headphone, then at least as far as this test group is concerned, the Sony is still the best, and arguably the only game in town. A cautious Recommendation is in order.

The open Beyer *DT311* offers a slightly shambolic set of virtues and vices. It is well built and mainly comfortable, if a bit firm, but the bass is boomy, and the treble lacks vitality and resolution, which is slightly disappointing given the track record of this usually excellent source. In many ways, the Vivanco offers comparable qualities to the Beyer but without the shortcomings, and this model therefore gains a Recommendation. There is no doubt about the winner though. The Sennheiser HD320 is so far ahead of the field as to leave its Best Buy status beyond question. The only real problem is that it is a rather loose fit, and users who move around while listening may notice a tendency for them to slip off the head.

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FACTORS SOUND AND VISION, 16 Hill Avenue, Amersham, Buckinghamshire HP6 5BW. (0494) 432944. Sony, Panasonic, Kenwood, Technics, JVC, Denon, JPW, KEF, Tannoy, Bose, Aiwa Grundia. In shop and in home facilities. No appts required, service dept, free install, home trial, Access, visa, int free credit. Open Mon-Sat 9.30-5.30 closed Thur.

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PETERS HI-FI, 4 St Michaels Sq, Grosvenor Precinct, Chester, (0244) 322063/319392. Arcam, Technics, Sony, Marantz, Dual, Denon, Tannoy, Wharfedale, Quad. 2 Single speaker Dem rooms, no appts nec, free installation service dept. Access, Visa, Amex. Peters credit chargecard. Mon-Sat 9-5.30.

THE HI-FI SHOWROOMS, 12A West Str, Congleton, Cheshire (0260) 280017. Celestion, Creek, Exposure, Musical Fidelity, Naim, Pink Triangle, Project, Rotel, Ruark, Systemdek, Tannoy, TDL, Technics. 5 Dem Rooms, No appts necc, Home trial, Free install, Service dept. Access, Visa, Lombard Tricity, Open 9-5:30, Closed Wed.

VIFT Hi-Fi, St Annes Parade, Wilmslow. (0625) 526213. Aura, B&W, Denon, Kenwood, Marantz, NAD, Pioneer, Rotel, Systemdek, Tannoy, Revolver, JPW. Open 9:30am-6:00pm dem room. No pressure!

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ACTION ACOUSTICS, 155-157 High Street, Redcar, Cleveland TS10 3AN. 0642 480723. Audio Innovations, Denon, Harman-Kardon, JBL Michell, Musical Fidelity, Pink Triangle, Revox, Rogers, Thorens, etc. Dem Room. Appts nec. Home trial facilities, free installation, service dept. Access, Visa & H.P. Open 9.15-5.30.

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UPTON ELECTRONICS, 31 Torquay Road, Paignton, Devon TQ3 3DT. (0803) 551329. Pioneer, Denon, Sony, Technics, Harman-Kardon, Quad, Tannoy, JPW, Monitor Audio, Audio Innovations etc. Single speaker demonstration. No appts required, service dept, free install, home trial. Access, Amex, Inst credit, Visa. Open Mon-Sat 9-5.30, Wed 9-1pm.

#### DORSET

DAWSONS, 23 Seamoor Road, Westbourne, Bournmouth, Dorset. (0202) 764965. B&O, Canon, Jamo, JBL, Pioneer, Sony, Target, TDL, Technics. No appts necessary. Free install, Service depart. Various credit facilities available. Open 9-5.30 6 days a week.

MIKE MANNING AUDIO New branch now open at: 128 Pool Road, Westbourne, Bournemouth. (0202) 751522. For details see main entry under Somerset.

HI-FI 18 Westover Road, SUTTONS Bournemouth. 0202 555512. Linn, Arcam, Mission, Quad, Audiolab, Rotel, Yamaha, Denon.etc. 2 Single Speaker Listening Rooms. Home Demonstrations, Free Installations.Open Mon-Sat 9-5:30. Call for details.

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BRENTWOOD HI-FIDELITY, 2 Ingrave Rd, Brentwood, Essex, CM15 8AT. (0277) 221210. Audio Innovations, Denon, DNM, EAR, Marantz, Micromega, Mission, Pink Triangle, Quad, Tannoy plus many more. Single speaker dem rooms, home trials, evening appts (high end), home installations. Mon-Sat 9.30-5.30 . Access. Visa. Service Facilities. Advice second to none. BADA RAYLEIGH HI-FI, 44a High Street, Rayleigh, Essex. (0268) 779762/747571, 216 Moulsham St, On-the-Parkway, Chelmsford. (0245) 265245. 132-134 London Road, Southend-on-Sea. (0702) 435255. A&R, Audiolab, Cyrus, Denon, Epos, Linn, Marantz, Meridian, Mission, Naim, Quad, Rega, Roksan, Royd. 0% finance. Excellent audio visual range, home cinema Dolby Pro-Logic multi-room specialist.

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AUDIO FILE, 27 Hockerill St, Bishops Stortford, Herts CM23 2DW. (0279) 506576. 9.30-5.30, Oean G days. Dealer of the Year 1988/89, Naim, Quad, Cyrus, Arcam, Roksan, Denon, Epos, Rotel, KEF, ProAc. 0% credit.

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STUDIO 82, 82 High Street, Harpenden, Herts AL5 2SP. (0582) 764246, Fax (0582) 467022. ATC/AVI, Arcam, Aura, Audiolab, Bang & Olufsen, Denon, Epos, Mission Cyrus, Naim Audio, Nakamichi, Quad, Nad etc. Quiet single speaker dem room. Appts nec. Home trial, free install Service Dept. Visa, Access & finance terms. Open 9-5.30pm (Mon;Sat). Closed Weds.

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KIMBERLEY HI-FI, 193 Broadway, Bexleyheath, Kent. (081) 304 3272. Pioneer, Technics, Kenwood, Denon, NAD, Aiwa, Tannoy, Mission, Wharfedale, B&W. Separate dem room, no appt nec. Free installation. Service Dept. Instant credit facilities. 9.30-5.30. No early closing.

V J HI-FI, 29 Guildhall St, Folkestone. (0303) 256860. Mission, Kenwood, Tannoy, Marantz, Sony, Rogers, Denon, Musical Fidelity, Quad, Yamaha. Dem and home trial facilities, free local install. No appts necessary, service dept. Amex, Diners, Visa, Access, Int free credit, Instant credit. Mon-Sat 9-6.

V J HI-FI, 119 High Street Margate. (0843) 226977. For full details see our above entry. BADA

#### **LANCASHIRE**

NORMAN AUDIO, 131 Friargate, Preston, Lancs PR1 2EE. Tel (0772) 253057. Fx (0772) 562731. Marantz, Pioneer, Yamaha, Audiolab, arcam, Mission, Cyrus, B&W, KEF. Send for catalogue. Home cinema demo room. No appointment nec, home trial facilities, free installation. Instant credit subject to status. Open 9.30-5.30, late night Wed till 8pm.

NORMAN AUDIO, also at 216 Church Street, Blackpool, Tel (253) 295661, Fx (0253) 295722

#### **LEICESTERSHIRE**

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LISTEN INN, 6 Hotel Street, Leicester. (0533) 623754 (Fax) 0533 623758. Linn, Arcam, Royd, Heybrook, Creek, Neat, Mission, Cyrus, Audiolab, Quad, Denon, etc. 2 Dem Rooms.

**SOUND ADVICE**, The Factory, Duke St, Loughborough LE11 1ED. (0509) 218254. Shahinian, Rega, Naim, Linn, Royd, Yamaha, Rotel, Arcam, Nakamichi, JPW. 3 demonstration areas, no appts necessary, free installation, service department. Lombard credit charge, Access, Visa. Mon-Fri 9.30-6.00, Sat 9.30-5.30.

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BOSTON HI FI CENTRE, 65a Wide Bargate, John Adams Way, Boston, Lincs PE21 6SG. (0205) 365477. Denon, Quad, Nakamichi, Arcam, Onkyo, Marantz, NAD, Castle, Tannoy, Rogers, etc. Separate demo studio. Home trial. Free installation. Access, Visa. Tues - Sat 9-5 pm. STAMFORD HI-FI CENTRE, 9 Red Lion Square, Stamford, Lincs PE9 2AJ. (0780) 62128. Pioneer, Technics, Marantz, Cyrus-Mission, Rotel, NAD, Yamaha, Kenwood, Quad, plus all major speaker manufacturers. Expert advice, comparator demonstrations, on two floors, part exchange

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charge, finance available. Mon-Sat 9-5.30pm,

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SUPERFI, 271A High Str, Lincoln LN2 1JG.
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#### LONDON

BILLY VEE SOUND SYSTEM 248 Lee High Road, Lewisham, London SE13 5PL. 081-318 5755/081-318 1321. Arcam, Denon, Marantz, Linn, Mission, Cyrus, Naim, Nakamichi, Quad, Rega, etc. 2 domestic style listening lounges. Appts required, service dept, home trial facilities, Int. free credit, instant credit. Access, Visa Open Mon-Sat 10-6.30, Closed Thurs. CORNFLAKE SHOP, 37 Windmill Street (just off Tottenham Court Road), London W1. Tel 071-631 0472 (all enquiries), Fax 071-436 7165. Open Tues-Sat 10-7pm. Rega, Roksan, Naim, Monitor Audio, Arcam, Nakamichi, ATC, AVI, Rotel, Epos, Meridian and Linn. 3 dem rooms (incl home cinema). Friendly professional service Home trial facilities. Appointments preferred, full delivery and repair service, multiroom specialists. Access, Visa and Amex.

GRAHAMS HI-FI, Canonbury Yard, 190a New North Rd, London N1. 071-226 5500. Winner Sony/HFN Greater London Dealer Award 1986/89/90. "One of the 5 best hi-fi shops in the world". Arcam, Linn, Meridian, Naim, Rega, etc. Systems from £500. FREE PARKING, 4 dem rooms, service dept, open Tues-Sat. RING FOR APPOINT

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HI-FI EXPERIENCE. Lion House, 227 Tottenham Court Road, London W1P - HX. Tel Help Line 071-580 3535 24 hour, fax 071-436 4733. Agencies include: Arcam, Audiolab, Bang & Olufsen, Castle, Celestion, Chord, Cyrus, Denon, Heybrook, Harman, IMF, KEF, Marantz, Mission, Musical Fidelity, Meridian, Nakamichi, Nad, Pioneer, Quad, Rotel, Shearne, Tannoy, TDL, Yamaha. 8 listening rooms, 3 years guarantee. Free delivery and simple installation (M25 periphery), home cinema specialist. INFIDELITY, 9 High Str, Hampton Wick, Kingstonupon-Thames. (081) 943 3530. For full details see entry under SURREY.

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SOUND SENSE, 350 Edgeware Road, London W2 1DX. (071) 402 2100. Alphason, B&W, Kenwood, Nakamichi, Celestion, Denon, Monitor Audio, Marantz, NVA, Sony ES, Yamaha. Appts preferred. Installations available. Access, Visa, Standard credit facilities. Mon-Sat 9.30-6.30.

STUDIO 99, 79-81 Fairfax Road, Swiss Cottage, London NW6. 071-624 8855, Fax 071-624 5315. Naim, Meridian, Quad, Mission/Cyrus, Rega, KEF, Arcam, Epos, Acoustic Energy, Yamaha, Nakamichi, NAD, Sonus Faber, B&O etc. Single speaker dem room, AV demos. Multiroom. Service dept. Visa/Access credit facilities. 10-7 Mon-Fri, 10-6 Sat.

UXBRIDGE AUDIO - CHISWICK, 109 Chiswick High Road, Chiswick, W4 2ED (081) 742 3444 Fax (081) 742 3295. 2 Demo Rooms, Installations, 2 Year Guarantee, 7 day exchange. Major credit cards, Tues - Sat 10 - 6, See Middlesex entry for brands stocked.

ZEBRA, 18-24 Brighton Road, South Croydon CR2 6AA. 081 688 2093. Audio lab, Arcam, KEF Reference, Marantz, Mission, Micromega, Pioneer, Rotel, Sony, Tannoy, and large range of AV equipment. S2 Air Conditioned Demo Rooms. in a more casual environment. Service department. The UK's leading home cinema centre. Mon-Sat 9.30-6.00. Access, Visa, Switch & instant credit up to £1000 subject to status.

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THE AUDIO COUNSEL, 12 Shaw Road, Oldham, Manchester OL1 3L0. (061) 633 2602. Linn, Yamaha, Rega, Rotel, Arcam, Micromega, EPOS, Creek, Nakamichi, Denon. 2 dem rooms. Free install. Visa, Access, Licenced credit brokers up to £1000 instant credit. 10.00-5-30 Tues, Weds, Sat; 10.00-7 Thurs& Fri. Closed Mon.

SWIFT OF WILMSLOW, 4-8 St Annes Parade, Wilmslow. (0625) 526213. Aura, B&W, Denon, Kenwood, Marantz, NAD, Pioneer, Rotel, Tannoy, Revolver, JPW. Open 9:30am-6:00pm 2 dem rooms. No pressure!

#### **MIDDLESEX**

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MUSICAL IMAGES LTD, 45 High Street, Hounslow, Middlesex TW3 1IR. (081) 569 5802. FAX (081) 569 6353. & 173 Station Road, Edgware HA8 7JX (081) 952 5535. FAX (081) 951 5864. Authorised dealer for over 100 brands. Interest free credit, anywhere in the UK, subject to status. Demo rooms including big screen TVs. Repairs and service. Open all week including Sundays. Home cinema specialist. Mail order world wide. Part exchange. Musical Images club.

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Innovations, Castle, Dual, Denon, KEF, Luxman, Michell, Musical Fidelity, Micromega, Marantz, Nakamichi, Rotel, Spendor, Systemdek, Tannoy, Yamaha. One demo room, in-car demo for car hifi systems. Appts not always necessary. Home trial facilities. Free installation, service dept. Lombard Tricity, Access, Visa, Amex, Diners Club. Mon-Sat 9.30-6, Thurs, Fri 9.30-7.

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WA. BRADY & SON, 401 Smithdown Rd, Liverpool L15 3JJ. (051) 733 6859. 'Largest choice of specialist Hi-Fi in N.W. £100-£20K'. All credit cards. 3 dem rooms. Closed Monday.

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PETERS HI-FI, 11 St Werburgh Squ, Birkenhead. Also at 8 High Str, Bromborough. 051-334 1874/2825. Open 9-5.30 6 days a week. See Cheshire entry for details.

#### **WEST MIDLANDS**

AMADEUS SOUND & VISION, 10 Boldmere Road, Sutton Coldfield, West Midlands. 021-354 2311. Audio Innovations, aura, B&O, B&W, Castle, Marantz, Micromega, Musical Fidelity, Nakamichi, Harman Kardon, OED. Single speaker demo, appts preferred, service available, installations, B&O link install, home trials. Access, Visa, interest free credit available subject to study. 9.30-60m. 6 days.

FRANK HARVEY HI-FI EXCELLENCE, 163 Spon Street, Coventry CU1 3BB. (0203) 525200. Audiolab, Arcam, Bang & Olufson, Mission-Cyrus, Denon, Marantz, Meridian, Nakamichi, NAD, Quad, Rega, Rotel, Yamaha. 3 floors, 3 demonstration rooms, nice staff, nice coffee. Appts nec, service dept, free install, home trial facilities.

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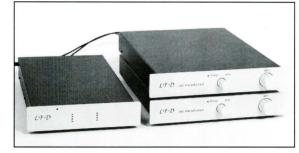
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## **Readers Classified**

LUXMAN L507 AMP (recently serviced) £75, Lentek Entre moving coil head-amp £40, Sound Organisation T/T table £40, 10" Z speaker stands £30, Van den Hul Clearwater speaker cable 2x5m £20. Offers. William ② 071-436 1553 (day) ② 081-994 0408 (eve).

WANTED TARGET HJ 12" speaker stands, wall shelf, 4-tier equipment stand or similar. William 

☑ 071-436 1553 (day) ☑ 081-994 0408 (eve).

DECCA LONDON, export £90, Linn K18 new £100, ATOC5 £60, Loral MC81 new £55, MC88E 30 GOL dring epic £10, Meridian MCD £100, Goodmans SCD100 (Nakamichi)£90. Kent ② (0474) 704382

PIONEER F757 tuner JGC, boxed £85 ono. **№** (0934) 813666, after 6pm.

QUAD IIv2 power amps Quad 22 Quad FM tuner £250, Gerrard 301 £80 SME 3009 £50. Manchester 2061-2267021

GARRARD 301 African mahogany heavy plinth SME 3009 Mk3, V15 cart, stunning. ☎ (0203) 679165

MISSION 753 loudspeakers (superb condition) rosewood finish. £500 no offers. Linn K20 speaker cable 4x2.7m runs terminated with banana plugs for biwiring £50. Swansea ☎ (0269) 850022

WANTED Pioneer 1750 Laserdisc player. Swop for Rotel RCD-965BX CD player and Arcam Alpha 3 amplifier. Both very good condition. John, Hants (1935) 20608

LINN ISOBARIKS DMS & stands walnut finish, £700 ono, or swap with cash for SBLs 9150. Naim 32-5 preamp fitted with both mm/mc boards £225 ono.

NAIM 01 tuner £450. 72-Hicap £680 Nap 250 £675. W Sussex ☎ (0903) 756582

LINN LP12, Ittok LV1, Isaka £1,000 ono. Pioneer A400 £150, Tannoy J95 £300, Michell Iso £250. ☎ 081-743 1334

WANTED: AUDIO ALCHEMY PS2 and DTI. Must be mint condition. Richard, S london ☎ 081-689 2692 (Day)

NAKAMICHI DRAGON cassette deck boxed VGC £2,350. New accept £999 ono. ☎ 081-981 7896

MARANTZ DD82 DCC used only once in original packing £250. Dunstable ☎ (0582) 867463

MICHELL SYNCRO RB300, Ausio Technica AT-OC 5, very little use, boxed, instructions, £425 ono. Milton Keynes 22 (0908) 696869

CELESTION SL6 speakers with high quality, high mass stands and cable £200, no offers. Also, wanted Linn Keildh with dedicated stands in walnut, mint condition. Nottingham 22 (0602) 463693 (evenings)

MUSICAL FIDELITY MA50 £425 Naim NAC12 preamp £70, 12 metres Ixos bi-wired speakers cable £28 target turntable shelf £25. Hereford ☎ (0432) 830599

WANTED FURUKAWA analogue interconnects, unbalanced preferred. Surrey eves ☎ 081-689 6855

REVOX B160 FM tuner £295. FM300A power amplifier £295. ☎ (0483) 69814

WHARFEDALE 505 II speakers with Heybrook stands £120, Cambridge P40 amp £80, both excell. Cleveland ☎ (0429) 235706

PIONEER PL-2470 turntable, F-2570L tuner, A-2370 amplifier, GR2370 graphic equaliser, CT-2370WR double cassette deck, PD-2970M compact disc player, 4 speakers (inc surround sound) 2 years old, exc cond, €750. Clwyd ❷ (0244) 544403

AT-OC 9 £110, RB300 £90, Hitachi D2200M, 3-head, 2 capstan, auto calibrate, £130. ☎ 081-741 2813

AUDIO INNOVATIONS Series 500 amplifier, pristine conition, boxed, £495 Sony DAT-DTC 690, excellent condition 2mths old £295, Sony DAT-TD750, VGC £195. Derby ☎ (0332) 271088

TANNOY original unchanged VGC 15in DC Moniter Gold Lancasters, Roksan DP1 transport, ROK DA1 DAC, ROK DS1 power supply, 12 months old, hardly used. Highest offer takes equipment. Beckenham © 081.658.8765

Sony MZ1 MD recorder as new, boxed £280. Gwent 

② (0633) 865255

WANTED: ARCAM Alpha CD transport 170.2 or 170.3 must be mint. Leicester ☎ (0533) 350494

TECHNICS amplifier SUA700 RC £175 45RIPC long warranty, replaced by AV amp, well reviewed mint condition. Swansea 22 (0792) 206948

AUDIOLAB 8000P preamp and 8000C power amp, only 6 months old, in mint condition, 2 year BADA guarantee, cost £1,100, will accept £750. Nottingham **2** (10602) 878883

LINN ISOBARIKS outboard crossover panel stands 4 years old £1,500 Aktiv £600. Middlesex

2 (0895) 444911

DENON DCD1520 CD player, excellent condition, boxed £175 ono, London 2071-351 2383

MUSICAL FIDELITY MC4 loudspeakers, black ash finish, excellent condition with Target HS20 stands £300 ono. Ayrshire ☎ (0475) 675996

NAIM 42.5 pre amp VGC £120. QED speaker stands £10. Norfolk ☎ (0379) 853580

ACOUSTIC ENERGY AE1 speakers, with AE stands, cost over £1,000, bargain at only £499 (no offers) can deliver. Cornwall **22** (0566) 782237

TARGET AUDIO stand 5 tier £60 ono. WANTD: Linn LK100 power amp K400 cable. Bedfordshire 

2 (0767) 312507

CYRUS 1 series 8 amp, boxed as new £200, Audioquest Quartz 1 metre £70 and 0.5 metre £50. Huddersfield **2** (0484) 649074

WANTED: Stereo DBX decoder type II for tapes, eg model 20 and Toshiba adres unit model AD-2T. Both working or faulty but cheap. Call Drew, Cheshire 2 (0270) 764624 after 6pm

REGA PLANAR II and Superbias cartridge £100. Denon TU260L £60, Target 5 Tier EQT stand £60. Surrey ☎ (0372) 742659

SONY ST-S370 RDS tuner C/W aerial hardly used £85, no offers. Coventry  ${\bf \Omega}$  (0203) 464937

SYSTEMDEK IIX/E 900AP with Moth arm Goldring 1012 cartridge (£550) £275; Royd Apex loudspeakers (£485) £230. Bucks ☎ (0296) 713311

MUSICAL FIDELITY A1 amp, £150 Linn Helix speakers and matching stands, £150. Norwich  $extbf{2}$  (0603) 35547

ARCAM CD BB3 DAC Audiolab 8000A Thorens TD160 Rega R200 £600 will split **22** (0256) 389402

PIONEER A-300 amp, as new, boxed £160. John, Manchester ☎ 061-248 8056

NAIM NAT 01, NAC 52 pre amp, NAXO 6X NAP 135, Linn Isobarik. Half price-ish. Sussex 🕿 (0323) 870160

TANNOY MERCURY M20 speakers £55 ono. Dual 505 turntable £45. ☎ (0892)835907

KEF CR200s flush fitting wall mounts, as new, never used, cost €360, €220 ono. Somerset ☎ (0963) 350844

WANTED: MAGNEPLANERS KEF1053, Quad 63, Yamaha NS1000, Stax ELSF81, Linn Isobarik, Naim SBL, Stax phones, Bandor and Jordan drivers, Bose AM5, ARMS 774 Mission. Cleveland ☎ (0642) 559543

YAMAHA DSP A2070 AV amplifier, new £800 Kenwood centre speaker and CM5ES surround speakers £100 for both, must collect. Bath № (0225) 337129

LINN KEILIDHS, black ash, fast and detailed, 7 months old, VGC, only £450 ovno. John, West Sussex 

② (0444) 230010

ROGERS CADET 3 valve amp, complete, but not working. Offers to Dominic, Blackheath № 081-852 7553

AUDIOLAB 8000C and 8000P, Quad FM4, Denon DRM24HX cassette. As new, boxed £1,200 ovno. Essex 

② (0268) 695223

QUAD 606 £380, Musical Fidelity 3B preamp £250, Meridian 263 D/A converter £300 (as new). Yamaha DSP-E1000 pro-logic processor £450 (as new). S Ellerton EC1 ② 071-253 1845 (after 7pm)

ROTEL RCD 965BX CD player. Top rated, best buy. As nmew £195 Torquay 22 (0803) 606220

MERIDIAN 263DAC, superb sound, Delta Sigma chip, 16 months old with 3 year guarantee, immaculate, £295. Musical Fidelity 3B pre-amp & P170 power-amp (cost £1,000) bargain at £350. Reading 

② (0734) 412221

ROKSAN DA1 DAC brand new £280. Marantz PM40SE amp £100 or both for £350. N'hants ☎ (0604) 712156

NAIM NAP180 £600 NAC42.5 £120 HICAP £280 (old style) Ruark Templars (Burr) £300, excellent condition, boxed. Hereford ☎ (0432) 268484

SOUND ORGANISATION 3 Tier Table £30. Manchester 20 061-740 9821

WANTED PIONEER CLD-1750 laser disc player. Edinburgh ☎ 031-664 1358

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Please return the completed coupon to: <i>Hi-Fi Choice</i> , Reader Classifieds, 19 Bolsover Street. London W1P 7HJ.

## **HI-FI CHOICE SPECIAL OFFERS**

## Choice accessories

This month we are pleased to be able to offer a selection of cables and interconnects to improve the sound of your system. Although some people consider cables to be a mere accessory, in fact without them you'd get no sound at all from your system!

By choosing the very best possible cables you can make the most of the rest of the separates that make up your hi-fi system.

## Speaker Cables AudioQuest F-14

No, it's not a fighter plane, its an affordable flat cable that is ideal for audio visual applications where rear channel speaker cable has to be run under carpets or along skirting boards. Don't let the low price tag fool you, though, it's still a vast improvement over bell wire or other non-specialist alternatives. Earning a Recommended tag back in our August issue, AudioQuest F-14, at a mere 2mm thick, could well be the answer to those tricky cabling dilemmas. Available in white.

Order ref	Length	
ZLI4WR/I	I metre	£28.90
ZLI4WR/2	2 metre	£32.80
ZLI4WR/3	3 metre	£36.70
ZLI4WR/4	4 metre	£40.60
ZLI4WR/5	5 metre	£44.50

If you require longer lengths, add an additional £3.90 per metre

#### AudioQuest Type 4

This corking cable uses four solid OFHC conductors wound in a spiralled Hyperlitz configuration. You can either pair up conductors to form a superior single run of cable or the cable can be sent to you pre-terminated for bi-wiring, enabling you to enjoy all the advantages of this method of connection without the mass of spaghetti that normally threatens to take over the living room. A very cost effective up-grade.

Order Ref: ZLT43PR - 3 Metre length £57.00 Order Ref: ZLT45PR - 5 Metre length £75.00

#### AudioQuest Indigo

The obvious next step up from Type 4, Indigo uses ten solid conductors, again in a Hyperlitz array and finished in a tasteful blue satin jacket. When the five red or black conductors are connected together this gives a 2.6 mm2 signal area. Not the cheapest cable on the market, but nonetheless







highly recommended for those wanting to pull the very best from their systems.

Order Ref: ZLI3PR - 3 metre length £75.00 Order Ref: ZLI5PR - 5 metre length £105.00

#### AudioQuest Crystal

Crystal uses twelve solid conductors, spiralled together in a Hyperlitz array under a slate blue satin jacket. The cable is rather unusual in that it contains a mix of conductors, six conductors are 0.65 mm<sup>2</sup> PHFC copper and six are 0.52 mm2 FPC copper. In normal use Crystal is a 3.51 mm<sup>2</sup> cable. The FPC copper acts like a bypass, allowing most of the high frequency benefits of this superior material. The less expensive OFHC copper provides bulk so Crystal can provide a powerful full range sound. Together the OFHC and FPC allow Crystal to have extraordinary performance at a reasonable price. Crystal is also an extremely effective single biwire cable, which is best achieved by using the six OFHC conductors for the bass and the six superb FPC conductors for the treble.

Order Ref: ZLCY3SBW - 3 metre £144.00 Order Ref: ZLCY5SBW - 5 metre £200.00

#### **Interconnect cables**

Although you could connect your equipment together with a damp piece of string, the chances are the results would be rather disappointing. What is often glossed over is that there are more than one type of interconnect cable on the market and that different cables are needed for different tasks. The first use for interconnects is to enable you to link line level signals between units, for example to wire the analogue output of your  $\ensuremath{\mathsf{CD}}$ player to your amplifier, or to use between pre-amp and amplifier. We offer three choices of cable intended for this purpose, AudioQuest Turquoise, Ruby and

Quartz, so there should be one there to suit your budget.

#### AudioQuest Turquoise

Our cheapest interconnect uses four solid OFHC copper conductors in a novel symmetrical Hyperlitz arrangement. Two of these conductors are insulated and together become the positive conductor. The other two are uninsulated and make contact with the 100% coverage shield, together they become the negative conductor.

Order Ref: ZIUPI - I metre £34.95 Order Ref: ZIUP2 - 2 metre £40.95

#### AudioQuest Ruby

Ruby is one of the most popular cables in the AudioQuest range, and it's easy to see why. A fully balanced cable featuring Hyperlitz construction. Ruby uses four solid FPC copper conductors, all polypropylene insulated. Two together carry the positive signal and two carry the negative. Excellent value for a high performance cable.

Order Ref: ZIRPI - I metre 669.95

#### AudioQuest Quartz

Quartz uses the same Hyperlitz balanced construction as Ruby, but with FPC-6 copper (99% purity). The RCA plug is resistance welded to Quartz in a process which actually commingles the molecules of the cable and plug into an alloy. The plug uses an unusual patented design which eliminates extra internal contacts, ensures a large, self-wiping (cleaning) contact area and provides extraordinary strain-relief. The plug is not difficult to push on, but it does make the best contact.

Order Ref: ZIQPI - I metre

## **Optical cables**

Many CD players and transports feature a fibre optic digital output. This allows you to send the digital signal, in the form of light, to a separate digital-to-analogue converter.

The quality of the fibre optic cable used can make nearly as much difference as your choice of CD player. A poor fibre optic cable can totally destroy the value of a separate D/A converter. OptiLink X and OptiLink Z will make sure you get the performance you paid for. Available in 1 metre lengths.

AudioQuest OptiLink X<sup>TM</sup> Order ref: ZOXTI-OptiLink X (I metre, Toslink) £49.95







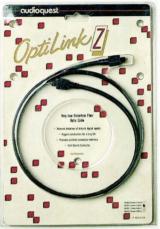
AudioQuest OptiLink Z<sup>TM</sup>
Order ref: ZOZTI-OptiLink
Z (I metre, Toslink) £99.95

### Digital cables

The characteristics a cable needs to carry a digital signal are very different from those required of an analogue cable and if you want to get the very best from your system then you need a cable designed to do the job. Video cables, which are designed for high frequency signals in the first place, are ideal for carrying digital signals, and they can also be used to give a boost to your A/V system.

Video X is available in 1, 2 and 5m lengths while for those of you with a little more money to spend, we can also supply the superior Video











attract admiring glances. Order ref: JE22A/L (Large) Order ref: JE22A/XL (Extra Large) Price: £15.00



Z, one of the very few digital interconnects to earn a coveted Best Buy rating in our recent market survey.

AudioQuest Video X
Order ref: ZIXPI
(I metre) £29.95
Order ref: ZIXP2
(2 metre) £36.95
Order ref: ZIXP5
(5 metre) £57.95
AudioQuest Video Z
Order ref: ZIZPI
(I metre length) £49.95

If you have any technical queries regarding the cables, please call Alisdair Patrick on 0223 440964.

#### AudioQuest CD Feet

Improve the performance of your CD player or any other vibration sensitive equipment.

Sorbothane® CD feet absorb energy, increasing both damping and isolation. Each foot should not support more than 4 pounds (2kg) or about 16 pounds for a set of

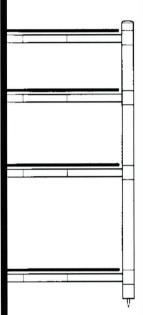
Order ref: ZAFC4 Price: £29.95

#### AudioQuest Big Feet

Same as the above only bigger, to support heavier equipment.

Order ref: ZAFB4 Price: £47.95

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



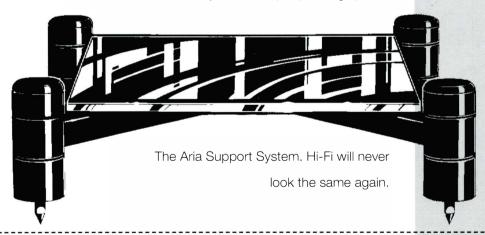
Introducing the Aria Modular Hi-Fi Support
System. It can change the way you look
at your components.

Build up separate vertical shelves. Or link units side by side. Either way, Aria lets you vary shelf heights to suit your components.

Start with a Base Pack and go from there.

There's no limit to the number of ways you can build it up.

Not only does Aria give you more flexibility
than any other hi-fi system, it also
provides sound deadening and
decoupling benefits. With black tubular steel
legs. Grey tinted glass or black MDF shelves.
And adjustable carpet-piercing spikes.



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

Name Address

Post Code



Our components improve yours

Zenith Crown Ltd., Tipton Road, Dudley, West Midlands, DY1 4SQ Tel: 021 520 5070/1432



#### AudioQuest LaserGuide

The most effective optical disc treatment available. Using LaserGuide improves virtually all aspects of CD and LaserDisc performance. CD's actually sound smoother, clearer and more dynamic.

Order ref: ZBLGB Price: £14.95

#### Hi-Fi Choice CD Rack

Available as single units, the interlocking Choice CD rack is only £1.25 — a small price to pay for keeping your collection in order.

Order ref: JE36A Price: £1.25

## 4mm Banana Plugs - Gold Plated

Top quality solderless gold plated banana plugs for use with speaker cables. Simply push the speaker cable into the body of the plug and tighten for a perfect connection. Sold in packs of four.

Order ref: ZCBG Price: £8.95

#### CD Jewel Case (Five Pack)

Replace broken CD jewel cases and ensure your discs are properly protected. Order ref: JE33A

Price: £5.00

#### **Back Issues**

Back issues are priced at £4.00 each (UK). £6.95 each (Overseas) inc postage and packing.

December 1993 - Issue 125

STACK SYSTEMS - 6 tested plus Buyer's Guide. 18 pages of products tested and rated. Order Ref: AE25B

#### January 1994 - Issue 126

SPEAKERS - four floorstanding loudspeakers reviewed. Plus a FREE 16 page guide to buying blank audio cassettes. Order Ref: AE26B

#### March 1994 - Issue 128

CD PLAYERS for under £190 Subwoofers – 8 on test Your chance to have your Hi-Fi checked by an expert Order ref: AE28B

#### Nagaoka Anti-Static Record Sleeves No 102

Packs of 50 plastic record sleeves that can be used on their own or inserted into an existing card or paper sleeve. The sleeves eliminate static and keep records dust free.

Order ref: JEI5A Price: £6.99



## **Priority Ordering**

Use the Dennis Direct orderline - **0789 490 215** or just enter your details on the coupon and fax it to us on 0789 490 878 if you're ordering with a credit card or send with the correct payment to DENNIS DIRECT, PO BOX 2505, ALCESTER B50 4JU. Prices shown include VAT and fulfilment in the UK. Please add postage as detailed at the bottom of this form. Be aware that all items on offer are subject to availability and a maximum of 28 days should be allowed for delivery.

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Please add £3.50 to your order total to cover the additional postage. Please note that we can only accept Visa/ MasterCard and Eurocheques in £s sterling and sterling cheques drawn on a London bank.

Important: To prevent any delay with processing your order, please enter the correct codes clearly! If necessary, please use a separate sheet.

Order Ref	Description	Quantity	Price
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			£
			£
			£
			£
		Order total:	£
For UK add £2.0	00 per order for postage	Order total:	£
For Europe add for postage	£10.00 per order	Order total:	£
For Rest of Wor for postage	rld add £12.00 per order	Order total:	£
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Please charge	my 🗆 Visa 🗆 MasterCa	rd(Access) for £	-
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Should you find any local dealer offering

a better price for goods currently in stock at

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**MARANTZ CD52 MK11SE** - CD PLAYER

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**MARANTZ PM44SE** - AMPLIFIER

**MISSION 751 - SPEAKERS** 

**SONY TCK-611S** - CASSETTTE DECK

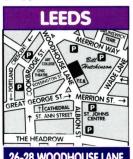
**SONY STS 311** - TUNER

AIWA NSX-360 - MINI SYSTEM

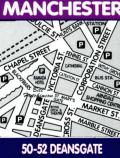
- AWARD WINNER '93

TECHNICS SC-CH950 - PRO-LOGIC SYSTEM - AWARD WINNER '93

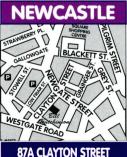
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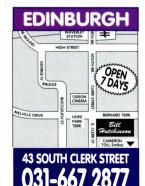
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The most comprehensive hi-fi listing in the known universe

THE FINEST HI-FI MAGAZINE IN THE WORLD

Welcome to the Hi-Fi Choice Buyer's Guide, the UK's biggest and best guide to choosing hi-fi. Over 2,500 items are listed, with up-to-date prices and specifications. Part two comprises the unique review-based Directory, containing our views on over 700 components that have been tested and rated by the Hi-Fi Choice experts.

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AND HI-FI, IT'S HERE.	
PRODUCT CATEGORIES	

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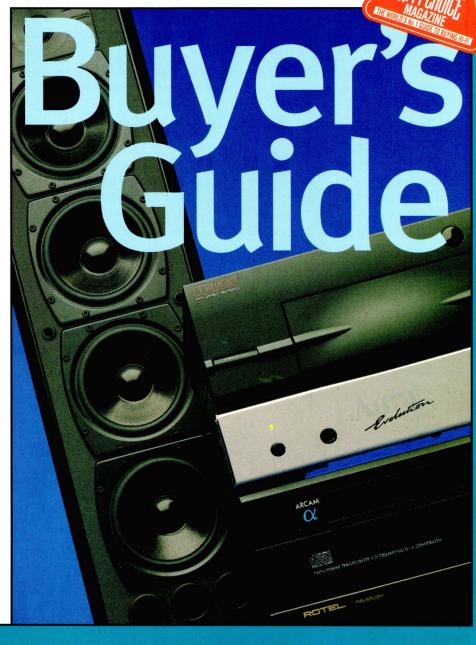
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THE ORIGINAL, THE MOST AUTHORITATIVE, THE BEST. OUR UNIQUE REVIEW-BASED GUIDE TO OVER 700 PRODUCTS TESTED IN HI-FI CHOICE. BEWARE CHEAP IMITATIONS...

THE DIRECTORY



## The Forefront of Technology







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- Power output of 35 Watts (DIN,
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- CD-Deck Synchro
- Auto BLE
- Horizontal loading cassette deck
- Dolby B/C/HX-Pro noise reduction
- Music power speakers

Considerable time and effort has gone into the creation of the Bill Hutchinson Innovation Award Scheme, drawing from more than two decades of experience and expertise.

The Innovation Award is designed to assist you in identifying state of the art equipment that matches your expectations whilst being of a build quality that ensures many years of enjoyment.

A list of priorities have been drawn up in order to establish the framework of the Award Scheme. The main priorities are, sound, value, construction, design, style and originality.

The choice of dealer should be given the same care and attention as is given to your choice of equipment, so that you may receive the kind of quality service and advice that compliments equipment of the same standard. The type of service you ultimately receive will reflect on your overall enjoyment of the product. A long-term association with a professional dealer has real benefits and will serve as your personal contact for information and advice on the Manufacturers latest **Innovations** 

If it is not possible to visit a Bill Hutchinson Hi-Fi AV Centre, simply contact the Manufacturer for details of your nearest authorised stockist. PIONEER FREEPHONE 0800 480480



Size



Key to amplifiers
Price - typical retail, to nearest
pound.
Power - output power in watts, per
channel, RMS.
Inputs - MM/MC - phono moving coil
and moving magnet, L - line (CD, aux
et(), T - tape.
A/V - includes Dolby Surround or Pro
Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier.
Headphone - Y - yes, N - no.
Remote - Y - yes, N - no.
Size - width x height x depth in cm. Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.



**AMPLIFIERS** Audiolink P400

Price

467

Powe

Key to amplifiers
Price - typical retail, to nearest
pound.
Power - output power in watts, per
channel, RMS.
Inputs - MM/MC - phono moving coil
and moving magnet, L - line (CD, aux
etc), T - tape.
A/V - includes Dolby Surround or Pro
Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier. Headphone - Y - yes, N - no. Remote - Y - yes, N - no. Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

43,7,270 Available in chrome

	.P	7		Powe	Inp	Headphones	Remote		
Model	Price	Туре	Ş	wer	Inputs	nes	ote	Size	Special
AMPLIFIERS	4.00	le t	A1	40	MM OLAT				0
Aiwa XA-003 Aiwa XA-950	140 230	Int Int	N N	40 100	MM,2L,1T MM/MC,2L,2T	Y	N	-	2 speaker circuits 2 speaker circuits
Albarry AP3	300	Pre	N	-	3L,1T	N	N	-	г арсакот спсина
Albarry AP4	350	Pre	N	-	MM,4L,1T	N	N	-	
Albarry PPi	400	Int	N	45	1	N	N	-	
Albarry PP1	430 500	Int	N	45	MM,4L,2T	N	N	-	
Albarry PPI Audiophile Albarry S508	500	Int Pwr	N	45 50	MM,MC,4L,1T	N	N		
Albarry M408	850	Pwr	-	50		-	-	-	2x monoblocks
Albarry M100B	1100	Pwr	-	100	-	-	-	-	2x monoblocks
Albarry AP2	1500	Pre	N	-	MM/MC,4L,1T	N	N	-	
Alchemist Kraken/pre Ann		Pre		N	MM,3L,2T	N	N	25,9,25	Stainless steel/gold finish
Alchemist Kraken/Pwr Ant Alchemist Kraken/Pre	380	Pwr Pwr	-	60 60		N	N	32,9,25 32,9,25	Stainless steel/gold finish Bridgable
Alchemist Kraken/mono	380	Pwr	N	60		N	N	32,9,25	bridgable
Alchemist Kraken	395	Pre	N	-	5L,1T	N	N	25,9,25	Bridging circuit built-in
Alchemist Kraken/Pwr	399	Int	N	60	3L,2T	N	N	32,9,25	MM £45 option
Alchemist Kraken Anniv	499	Int	Ν	60	MM,3L,2T	N	N	25,9,25	Stainless steel/gold finish
Alchemist Forseti	899	Int	N	100	4L,2T	N	N	47,10,39	
Alchemist Freya Alchemist Odin	1020 1020	Pre Pwr	N	80	6L,1T	N	N	31,7,30 31,14,30	Stereo
Alchemist Genesis	1525	Pwr	-	110	-	-	-	25.14.30	Pair monoblocks
AMC AV81 Control	289	Pre	Υ	-	8L,2T	N	Υ	- 1,00	
AMC 2445	299	Pwr	-	45	-	-	-		4 channels
AMC 1030	379	Pre	N	-	MM	N	N	-	
AMC 2030 AMC S84	449 479	Pwr Pre	- Y	30	- 8L	- N	- Y		Multiroom, halfunhal incuts
AMC S84  AMC AV81 H.T. Control	479	Pre	Y		8L,2T	N	N	-	Multiroom, bal/unbal inputs As AV81 plus Dolby Pro Logi
AMC CVT3030	529	Int	N	30	6L,1T	Y	N	-	Tube amp
Analogue Saturn	75	Pre	N	_	MM	N	N	-	
Analogue Saturn MC	75	Pre	N	-	MC	N	N	-	
Analogue Jupitor	330	Int	N	30	MM,4L,1T	N	N		
Arcam Alpha 5 Arcam Alpha 6	230 330	Int Int	N N	40 50	MM,3L,2T MM,3L,2T	Y	N Y	43,8,30 43,8,30	Bypassable tone controls Remote volume facility
Arcam Delta 290	450	Int	N	75	4L,2T	Y	Y	43,9,32	Opt MM/MC phono module
Arcam Delta 110S	520	Pre	N	-	MM/MC,3L,2T	Υ	Υ	43,7,30	As Delta 110, w/o DAC
Arcam Delta 120.2	550	Pwr	N	100	-	Υ	Υ	43,9,30	Bridgeable
Arcam Delta 110	750	Pre	N	-	MM/MC,2L,2T	Υ	Υ	43,7,30	On-board DAC, 2 inputs
Art Audio VPL Art Audio VPA	699 750	Pre	N	-	6L,2T	N	N	-	
Art Audio VPA Art Audio VP1	880	Pre Pre	N N		M/MC,3L,1T MM,3L,1T	N N	N N	-	
Art Audio Quintet	1156	Pwr	-	15	-	-	-		Class A triode
Art Audio Integra	1395	Int	N	30	5L,2T	N	N		
Art Audio Concerto	1628	Pwr	-	30	-	-	-	-1	2x mono Class A triode
Art Audio Tempo	1980	Pwr	-	30	-:	-	-		2x mono Class A triode
Art Audio Maestro Audio Innovation L1	2960 299	Pwr Pre	- N	10	3L,1T	- N	- N	25,10,30	2x mono Class A triode
Audio Innovation Alto	299	Int	N	35	4L,2T	N	N	43,8,30	
Audio I Ser 200 Pre	349	Pre	N	-	MM,3L,T	N	N	50,12,30	
Audio I Ser 200 Pwr	499	Pwr	N	12	-	N	Ν	50,12,30	
Audio Innovation Ser 300	499	Int	N	10	MM,3L,1T	N	N	50,12,30	
Audio I Classic 25 Audio Innovation L2	699 699	Int	N	25	4L,1T	N	N	46,15,34	Kit amplifier
Audio Innovation L2  Audio Innovation P2	699	Pre Pre	N	-	4L,1T MM	N	N	50,12,30 50,12,30	Phono stage
Audio Innovation Ser 800	849	Pwr	N	25		N	N	41,15,34	ono orage
Audio Innovation P2MC	899	Pre	N	-	MM/MC	N	N	50,12,30	Phono stage
Audio Innovation Ser 500	999	Int	N	25	MM,3L,2T	N	N	41,15,34	
Audio Innovation Ser 700	999	Int	N	25	4L,1T	N	N	41,15,34	Manablanta
Audio Innovation 1000 Audio I First Audio	1499 1549	Pwr Pwr	N N	50 7.5		N N	N N	41,15,34 41,15,34	Monoblocks
Audio Innovation 1000SE	2249	Pwr	N	50		N	N	41,15,34	Silver circuit board
Audio I 2nd Audio	2999	Pwr	N	15		N	N	41,15,34	Monoblocks
Audio Note Ongaku	22411	Int	N	26	6L	N	N	120	Single-ended Class A tube
Audio Note Oto	1250	Int	N	24	MM/MC,4L,1T	N	N	40 4 4 0 7	A disease in a
Audio Research LS-3 Audio Research PH-1	1599 1649	Pre Pre	N N		5L,1T MM/MC	N N	N N		1 direct input Phono preamp
Audio Research LS-3b	2250	Pre	N	-	5L,1T	N	N		1 direct input
Audio Research LS-2	2796	Pre	N	-	5L.1T	N	N		1 direct input/hybrid
Audio Research D-200	2800	Pwr	N	110	-	-	-	48,14,31	
Audio Research SP9 II	2850	Pre	N	-	MM/MC,4L,2T	N	N	48,14,26	
Audio Research PH-2 Audio Research LS-2b	2895 3355	Pre Pre	N N		MM/MC	N N	N N	48,14,26	
Audio Research LS-2b  Audio Research V35	3355	Pre	N	30	5L,1T	IV .	IV	48,14,26 48,18,37	
Audio Research V70	4480	Pwr	N	60	-	-	-	48,18,40	
Audio Research D-300	4800	Pwr	N	160	-	-	-	48,18,33	Single ended, balanced
Audio Research LS-5	5290	Pre	N	-	5L,1T	N	N	48,14,30	Full balanced in/out
Audio Research D-400II	6200	Pwr	N	200	1	-	-	48,23,33	
Audio Research V140 Audio Research VT150	8960 14900	Pwr Pwr	N N	120 130			-	48,22,30 37,31,56	Monoblocks, hybrid Monoblocks, tube
Audio Research VI 150 Audiolab 8000C	460	Pre	N	-	MM/MC,1T,3T	Υ	N	45,8,36	2 pairs of outputs
Audiolab 8000A	480	Int	N	60	MM,MC,1T,3T	γ	N	45,8,36	Preout/main in
Audiolab 8000P	650	Pwr	-	100	-	-	N	45,8,36	
Audiolab 8000M	700	Pwr	-	125	-	-	N	45,8,36	Single monoblock
Audiolab 8000PPA	800	Pre	N	- 60	MM/MC	- 61	- N	45,8,36	Phono preamplifier
Audiolink Sterling II	350	Int	N	60	MM/MC	N	N	43,7,270	Available in chrome

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see p123

Audiolab 8000A 450 Int N 60 MM,MC,1T,3T Y N 45,8,36 Preout/main in

Audiolink P400	467	Pre	N	and the same	4L	N	N	43,7,270	Available in chrome
Audiolink PR401	583	Pwr	N	100	-	N	N	43,10,37	Available in chrome
Aura VA80	280	Int	N	45	5L,1T	γ	N	43,6,31	Chrome finish, £50 extra
Aura VA100	380	Int	N	70	MM,4L,1T	v	N	43,6,31	
		distance and the	IV	and the same of	1V11V1,4E, 1 1	-	14	43,0,31	Chrome finish add £50
AVI S2000MA	549	Pwr	-	90		-	-		
AVI S2000MP	699	Pre	N	=	7L,1T	N			
AVI S2000MM	999	Pwr	-	150	-	-		-	2x monoblocks
Beard VM-P	795	Pre	N	_	MM/MC,3L,1T	N	N		Hybrid tube/MOSFET
Beard CA-35	995	Pre	N		MM/MC,3L,1T	N	N		Tube Class A
		-		50				-	
Beard VMI-50	995	Int	N	50	MM/MC,3L,1T	N	N	•	Hybrid tube/MOSFET
Beard P-35	1395	Pwr	-	35	-	N	N	-	Tube, Class A
Beard CA-506	1695	Pre	N	-	MM/MC,3L,2T	N	N	-	Tube, Class A
Beard A-70	2895	Pwr	-	70		N	N	-	Monoblock, tube, Class A
Beard M-1000	5900	Pwr	N	100			-		Pair monoblocks
		-		100		_	-		Pair Monobiocks
Bryston .4	641	Pre	Υ	-	4L,1T	N	N	48,5,25	
Bryston BP1	673	Pre	Υ	-	MM or MC	N	N	48,5,25	Phono stepup, bal & unbal
Bryston 2B-LP	750	Pwr	Υ	75	-	N	N	48,5,25	Bridgable
Bryston BP4	802	Pre	γ	-	4L,1T	N	N	48.5.25	Balanced out
Bryston BP5	889	Pre	v	_	MM/MC,3L,1T	N	N	48,5,25	MM or MC, balanced out
Cole Charles of the Cole of th		Pre	V			N	N		
Bryston BP20	1126	distance of the last	1	-	8L,1T			48,5,25	Balanced in/out
Bryston 3B-NRB	1159	Pwr	Υ	150	-	N	N	48,13,23	
Bryston THX3B	1262	Pwr	Υ	150	7	N	N	48,13,23	2 channels, THX approved
Bryston 4B-NRB	1756	Pwr	Υ	300	-	N	N	48,13,39	Bridgable, bal & unbalanced
Bryston 7B-NRB	1815	Pwr	γ	500		N	N	48,13,39	
Bryston THX4B	1858	Pwr	v	300		N	N	48,13,39	
100 comments and a second and a	1917	Pwr	V	500		N	N		
Bryston THX7B			1					48,13,39	
Bryston 8B-NRB	2195	Pwr	Υ	150		N	N		4 channels, bridgeable
Bryston THX8B	2400	Pwr	Υ	150	-	N	N·	48,13,39	4 channels, THX approved
CAT SL1 Sig line	5000	Pre	N	-	3L,1T	-	N	31,48,14	
CAT SL1 Sig phono	5500	Pre	N	-	MM,2L	-	N	31,48,14	
CAT JL1	13500	Pwr	N	200	-			, .5,11	_ 200,000, 10110
		_	14	_					
Chord SPM800	1749	Pwr	-	160		-	-	-	
Chord SPM1000	2150	Pwr	-	200	-	-	-	*	
Chord SPM1200	2995	Pwr	-	250	-		-	-	
Chord SPM3000	5327	Pwr	-	250	-	-	-	2	4 amps for biamping
Classe Audio 3D	1320	Pre	N	_	MM/MC.4L.1T		R	48,7,28	
Classe Audio 70	1399	Pwr		75	19119171910, 12,11		-	48,12,30	Single ended, balanced
			-	75	F1 47		-		
Classe Audio 4L	1697	Pre	N	-	5L,1T		N	48,9,34	Remote option
Classe Audio 4	1735	Pre	N	-	MM/MC,4L,1T		N	48,9,34	Remote option
Classe Audio 10	2299	Pwr	-	125	-	-	-	48,17,42	Single ended, bal bridgable
Classe Audio 5L II	2395	Pre	N	-	5L,1T		N	48,15,43	Remote option
Classe Audio 5 II	2657	Pre	N		MM/MC,4L,1T		N	48,15,43	
Classe Audio 15	3399	Pwr	-	175				48,19,42	
	_	_		175	EL AT	-			
Classe Audio 6L II	3469	Pre	N	-	5L,1T	-	N	48,15,43	
Classe Audio 6 II	3817	Pre	N	-	MM/MC,4L,1T		N	48,15,43	
Classe Audio 25	4639	Pwr	-	250	-	-	41	48,20,53	Single ended, bal bridgable
Classe Audio M-700	7690	Pwr	2	700	-	-	40	48,19,44	Single ended, bal monoblock
Classe Audio M-1000				1k				48,22,53	
	9968	Pwr	-						
	9968	Pwr	- NI	IK	EI	NI.	N	40,22,00	
Concordant Exhilerant	900	Pre	N	- IK	5L	N	N	-	6 tube pre, wood case option
Concordant Exhilerant Concordant Exquisite	900 1950	Pre Pre	N	- -	5L	N	N	4	6 tube pre, wood case option 10 tubes, 2 line out, ext PSU
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL	900 1950 995	Pre Pre Pre	N N	- -	5L 5L	N N	N N	-	6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A
Concordant Exhilerant Concordant Exquisite	900 1950	Pre Pre	N		5L	N	N	4	6 tube pre, wood case option 10 tubes, 2 line out, ext PSU
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL	900 1950 995	Pre Pre Pre	N N		5L 5L	N N	N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-12L	900 1950 995 1250 2250	Pre Pre Pre Pre Pre	N N N	- - - -	5L 5L MC,4L 5L	N N N	N N N	- -	6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-12L Conrad-Johnson PV-12	900 1950 995 1250 2250 2750	Pre Pre Pre Pre Pre Pre	N N N N		5L 5L MC,4L	N N N	N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV-10A Conrad-Johnson PV-12L Conrad-Johnson PV-12L Conrad-Johnson PV-12 C-J Premier 11A	900 1950 995 1250 2250 2750 3500	Pre Pre Pre Pre Pre Pre Pre Pre	N N N N N	- - - - - - 70	5L 5L MC,4L 5L MC,4L	N N N N N	N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV-10A Conrad-Johnson PV-12L Conrad-Johnson PV-12 Conrad-Johnson PV-12 C-J Premier 11A C-J Premier 10	900 1950 995 1250 2250 2750 3500 3900	Pre Pre Pre Pre Pre Pre Pre Pre Pre Pwr	N N N N N		5L 5L MC,4L 5L MC,4L - 5L	N N N N -	N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-12L Conrad-Johnson PV-12L Corrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED	900 1950 995 1250 2250 2750 3500 3900 6700	Pre Pre Pre Pre Pre Pre Pre Pwr Pre Pre	N N N N N N N	- - - - - - 70 -	5L 5L MC,4L 5L MC,4L	N N N N N	N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV-10A Conrad-Johnson PV-12L Conrad-Johnson PV-12 Conrad-Johnson PV-12 C-J Premier 11A C-J Premier 10	900 1950 995 1250 2250 2750 3500 3900	Pre Pre Pre Pre Pre Pre Pre Pre Pre Pwr	N N N N N		5L 5L MC,4L 5L MC,4L - 5L	N N N N -	N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-12L Conrad-Johnson PV-12L Corrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED	900 1950 995 1250 2250 2750 3500 3900 6700	Pre Pre Pre Pre Pre Pre Pre Pwr Pre Pre	N N N N N N N	- - - - - - 70 -	5L 5L MC,4L 5L MC,4L - 5L	N N N N -	N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-12L Conrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12	900 1950 995 1250 2250 2750 3500 3900 6700 7000	Pre Pre Pre Pre Pre Pre Pre Pwr Pre Pre Pre Pre	N N N N N N N N	- - - - - 70 - - 140	5L 5L MC,4L 5L MC,4L - 5L MC,4L -	N N N N - N	N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-12L Conrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 7B C-J Premier 8A	900 1950 995 1250 2250 2750 3500 3900 6700 7000 11000	Pre Pre Pre Pre Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pre Pwr	N N N N N N N N N N N N N N N N N N N	- - - - - 70 - - 140 - 275	5L 5L MC,4L 5L MC,4L - 5L MC,4L - - MC,4L	N N N N N N N N N N N N N N N N N N N	N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10AL Conrad-Johnson PV-12L Conrad-Johnson PV-12L Corrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 78 C-J Premier 8A Copland CSA14	900 1950 995 1250 2250 2750 3500 3900 6700 7000 11000 999	Pre Pre Pre Pre Pre Pwr Pre Pwr Pre Pwr Int	N N N N N N N N	- - - - - 70 - - 140	5L 5L MC,4L 5L MC,4L 	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	- - - - - - - - - - - - - - 43,13,38	6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10AL Conrad-Johnson PV-12L Conrad-Johnson PV-12L C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 78 C-J Premier 78 C-J Premier 8A Copland CSA14 Copland CTA 301	900 1950 995 1250 2250 2750 3500 3900 6700 7000 11000 16000 999 1250	Pre Pre Pre Pre Pre Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pre Pwr	N N N N N N N N N N N N N N N N N N N	- - - - - 70 - - 140 - 275	5L 5L MC.4L 5L MC.4L - 5L MC.4L - MC.4L - - MC,4L - - MM,3L,1T MM/MC,3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N	- - - - - - - - - - - - 43,13,38 43,13,38	6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-12L Conrad-Johnson PV-12L C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 7B C-J Premier 8A Copland CSA14 Copland CTA 301 Copland CTA301	900 1950 995 1250 2250 2750 3500 3900 6700 7000 11000 16000 999 1250 1250	Pre	N N N N N N N N N N N N N N N N N N N	- - - - - - 70 - - 140 - 275 60 - -	5L 5L MC,4L 5L MC,4L 	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	- - - - - - - - - - - - 43,13,38 43,13,38	6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube, soft start
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-12L Conrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 78 C-J Premier 78 C-J Premier 8A Copland CSA14 Copland CTA 301 Copland CTA 301 Copland CTA-501	900 1950 995 1250 2250 3500 3900 6700 7000 11000 16000 999 1250 1250 1420	Pre	N N N N N N N N N N N	- - - - - - 140 - 275 60 - - 30	5L 5L MC,4L 55 MC,4L - 5L MC,4L - MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T	N N N N - N - N - N - N - N	N N N N N - N N - N N - N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10AL Conrad-Johnson PV-12L Conrad-Johnson PV-12L Corrad-Johnson PV-12L C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 7B C-J Premier 8A Copland CSA14 Copland CTA 301 Copland CTA-501 Copland CTA-501 Copland CTA-501	900 1950 995 1250 2250 3500 3900 6700 7000 110000 999 1250 1420	Pre	N N N N N N N N N N N N N N N N N N N	- - - - - - - 140 - 275 60 - - - 30 30	5L 5L MC,4L 5.5 MC,4L - 5L MC,4L - MC,4L - MM,3L,1T MMM/SL,1T MM,3L,1T - 2L	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube, has vol control
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-12L Conrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 78 C-J Premier 78 C-J Premier 8A Copland CSA14 Copland CTA 301 Copland CTA 301 Copland CTA-501	900 1950 995 1250 2250 3500 3900 6700 7000 11000 16000 999 1250 1250 1420	Pre	N N N N N N N N N N N	- - - - - - 140 - 275 60 - - 30	5L 5L MC,4L 55 MC,4L - 5L MC,4L - MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T	N N N N - N - N - N - N - N	N N N N N - N N - N N - N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube, has vol control
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10AL Conrad-Johnson PV-12L Conrad-Johnson PV-12L Corrad-Johnson PV-12L C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 7B C-J Premier 8A Copland CSA14 Copland CTA 301 Copland CTA-501 Copland CTA-501 Copland CTA-501	900 1950 995 1250 2250 3500 3900 6700 7000 110000 999 1250 1420	Pre	N N N N N N N N N N N N N N N N N N N	- - - - - - - 140 - 275 60 - - - 30 30	5L 5L MC,4L 5.5 MC,4L - 5L MC,4L - MC,4L - MM,3L,1T MMM/SL,1T MM,3L,1T - 2L	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube pust/pull ultra-linear
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10AL Conrad-Johnson PV-12L Conrad-Johnson PV-12L Cory Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 78 Copland CSA14 Copland CTA 301 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504	900 1950 995 1250 2250 3500 6700 7000 11000 16000 999 1250 1250 1420 1420 1495	Pre	N N N N N N N N N N N N N N N N N N N		5L 5L MC,4L 5.5 MC,4L - 5L MC,4L - MC,4L - MM,3L,1T MMM/SL,1T MM,3L,1T - 2L	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10AL Conrad-Johnson PV-12L Conrad-Johnson PV-12L Conrad-Johnson PV-12L C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 7B C-J Premier 8A Copland CSA14 Copland CSA14 Copland CTA 301 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504 Copland CTA-504 Copland CTA-504 Copland CTA-504	900 1950 995 1250 2250 2750 3500 6700 7000 11000 16000 999 1250 1420 1420 1495 1750	Pre	N N N N N N N N N N N N N N N N N N N	70 140 - 275 60 30 30 30 50	5L 5L MC,4L 5.5 MC,4L - 5L MC,4L - MC,4L - MM,3L,1T MMM/SL,1T MM,3L,1T - 2L	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Switchable tetrode/triode
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10AL Conrad-Johnson PV-10A Conrad-Johnson PV-12L Corrad-Johnson PV-12L C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 C-J Premier 8A Copland CSA14 Copland CTA 301 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504	900 1950 995 1250 2250 3500 3900 6700 7000 11000 16000 999 1250 1420 1420 1420 1750 1750 895	Pre	N N N N N N N N N N N N N N N N N N N		5L 5L MC,4L 5L MC,4L - 5L MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T MM/MC,3L,1T - 2L MM,3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-12L Conrad-Johnson PV-12L Cory Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 C-J Premier 8A Copland CSA14 Copland CTA301 Copland CTA301 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA504 Counterpoint Solid 1EM Counterpoint Solid 8E	900 1950 995 1250 2250 3500 3900 6700 7000 11000 16000 1250 1250 1420 1420 1495 1750 1750 895	Pre	N N N N N N N N N N N N N N N N N N N	70 140 - 275 60 30 30 30 50	5L 5L MC.4L 5L MC.4L 5L MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T MM/MC,3L,1T - 2L MM,3L,1T - 3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Switchable tetrode/triode
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-11 Conrad-Johnson PV-12 Conrad-Johnson PV-12 Conrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 7B C-J Premier 7B C-J Premier 8A Copland CSA14 Copland CTA301 Copland CTA301 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA504 Counterpoint Solid 1EM Counterpoint Solid 8E Counterpoint Solid 8E	900 1950 995 1250 2750 3500 3900 6700 11000 16000 999 1250 1420 1420 1420 145 1750 1750 1075	Pre Pre Pre Pre Pre Pre Pre Pre Pre Pwr Pre Pwr Int Pre Pwr Pre Pre Pre Pre Pre Pre Pre Pre	N N N N N N N N N N N N N N N N N N N	70 140 275 60 30 30 30 50 50 100 	5L 5L MC,4L 5L MC,4L - 5L MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T MM/MC,3L,1T - 2L MM,3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-12L Conrad-Johnson PV-12L Cory Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 C-J Premier 8A Copland CSA14 Copland CTA301 Copland CTA301 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA504 Counterpoint Solid 1EM Counterpoint Solid 8E	900 1950 995 2250 2750 3500 7000 11000 16000 1250 1250 1420 1420 1750 895 1075 1075 1095 1295	Pre	N N N N N N N N N N N N N N N N N N N		5L 5L MC.4L 5L MC.4L 5L MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T MM/MC,3L,1T - 2L MM,3L,1T - 3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Switchable tetrode/triode
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-11 Conrad-Johnson PV-12 Conrad-Johnson PV-12 Conrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 7B C-J Premier 7B C-J Premier 8A Copland CSA14 Copland CTA301 Copland CTA301 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA504 Counterpoint Solid 1EM Counterpoint Solid 8E Counterpoint Solid 8E	900 1950 995 1250 2750 3500 3900 6700 11000 16000 999 1250 1420 1420 1420 145 1750 1750 1075	Pre Pre Pre Pre Pre Pre Pre Pre Pre Pwr Pre Pwr Int Pre Pwr Pre Pre Pre Pre Pre Pre Pre Pre	N N N N N N N N N N N N N N N N N N N	70 140 275 60 30 30 30 50 50 100 	5L 5L MC.4L 5L MC.4L 5L MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T MM/MC,3L,1T - 2L MM,3L,1T - 3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-12L Corrad-Johnson PV-12L Corrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 C-J Premier 8A Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504 Counterpoint Solid 8E Counterpoint Solid 1EM Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint Solid 1E Counterpoint Solid 1E Counterpoint Solid 1E	9900 1950 995 2250 2750 3500 3900 11000 16000 999 1250 1420 1495 17750 895 1075 1095 1095 1495	Pre Pre Pre Pre Pre Pre Pre Pre Pre Pwr Int Pre Pwr Int Pwr Pwr Pwr Pre Pwr Pwr Pwr Pwr Pwr Pwr Pwr Pre Pwr Pre Pre Pwr Pre Pre Pre Pre Pre Pre Pre Pre Pre Pr	N N N N N N N N N N N N N N N N N N N		5L 5L MC.4L - 5L MC.4L - 5L MC.4L - MC.4L MC.4L MM.3L,1T MM/MC,3L,1T MM/MSL,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono Mono
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-11A Conrad-Johnson PV-11A Conrad-Johnson PV-12L Corrad-Johnson PV-12L Corpand CO-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 C-J Premier 8A Copland CSA14 Copland CTA-301 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504 Counterpoint Solid 1EM Counterpoint Solid 8E Counterpoint Solid 8E Counterpoint Solid 1E Counterpoint SA-1000 Counterpoint SA-2000E	900 1950 1250 2250 2750 3500 6700 7000 11000 999 1250 1420 1495 1750 895 1075 1095 1295 1075 1095 1295	Pre	N N N N N N N N N N N N N N N N N N N	70 70 140 275 60 30 30 30 30 50 50 100 100 100	5L 5L MC.4L 5L MC.4L 5L MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T MM/MC,3L,1T - 2L MM,3L,1T - 3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube pust/pull ultra-linear Switchable tetrode/triode Mono Mono Mono Hybrid
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-112 Cory Premier 11A Cory Premier 11A Cory Premier 10 C-J Premier 10 C-J Premier 12 C-J Premier 78 C-J Premier 8A Copland CSA14 Copland CTA301 Copland CTA301 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA501 Copland CTA504 Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint SA100	900 1950 995 2250 2250 2750 3500 6700 7000 11000 16000 1250 1250 1420 1420 1495 1750 1095 1095 1095 1095 1095	Pre Pre Pre Pre Pre Pre Pre Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pwr Pwr Pwr Pre Pwr Pre Pre Pre Pre Pre Pre Pre Pre Pre Pr	N N N N N N N N N N N N N N N N N N N		5L 5L MC.4L 5L MC.4L 5L MC,4L - MC,4L - MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T MM/MG,3L,1T - 3L,1T MM/MC,3L,1T 3L,1T MM/MC,3L,1T 4L,2T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube, soft start Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Switchable tetrode/triode Mono Mono Hybrid Hybrid
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10A Conrad-Johnson PV-10A Conrad-Johnson PV-112 Corrad-Johnson PV-12 C-J Premier 11A C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 C-J Premier 8A Copland CTA-301 Copland CTA-301 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504 Copland CTA-504 Counterpoint Solid 1EM Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint Solid 1E Counterpoint SA-1000 Counterpoint SA-1000 Counterpoint SA-1000 Counterpoint SA-2000E Counterpoint SA-2000E Counterpoint SA-2000E Counterpoint SA-2000E Counterpoint SA-3000	900 1950 2250 2250 2250 3900 6700 7000 11000 999 1250 1420 1475 1750 895 1075 1095 1295 1495 1595	Pre Pre Pre Pre Pre Pre Pre Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pwr Pwr Pwr Pwr Pre Pre Pwr Pre Pre Pre Pre Pre Pre Pre Pre Pre Pr	N N N N N N N N N N N N N N N N N N N	70 140 330 30 30 50 50 100 100 100 100 200	5L 5L MC.4L - 5L MC.4L - 5L MC.4L - MC.4L MC.4L MM.3L,1T MM/MC,3L,1T MM/MSL,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Switchable tetrode/triode Mono Mono Hybrid Hybrid Separate PSU
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-112 C-J Premier 11A C-J Premier 11A C-J Premier 10 C-J Premier 12 C-J Premier 12 C-J Premier 18 C-J Premier 18 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504 Counterpoint Solid 1EM Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint SA-1000 Counterpoint SA-100 Counterpoint SA-3000 Counterpoint SA-3000 Counterpoint NPS-200E	900 1950 2250 2250 2750 3500 6700 7000 11000 999 1250 1420 1420 1420 1750 895 1075 1095 1495 1495 1495 1495 1495 1495 1495 14	Pre Pre Pre Pre Pre Pre Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pwr Pwr Pwr Pwr Pwr Pwr Pre Pre Pwr Pre Pre Pwr Pre Pre Pwr	N N N N N N N N N N N N N N N N N N N		5L 5L MC.4L 5L MC.4L 5L MC,4L - MC,4L - MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T MM/MG,3L,1T - 3L,1T MM/MC,3L,1T 3L,1T MM/MC,3L,1T 4L,2T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono Mono Hybrid Hybrid Separate PSU Rated at 4ohms, hybrid
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10A Conrad-Johnson PV-10A Conrad-Johnson PV-112 Corrad-Johnson PV-12 C-J Premier 11A C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 C-J Premier 8A Copland CTA-301 Copland CTA-301 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504 Copland CTA-504 Counterpoint Solid 1EM Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint Solid 1E Counterpoint SA-1000 Counterpoint SA-1000 Counterpoint SA-1000 Counterpoint SA-2000E Counterpoint SA-2000E Counterpoint SA-2000E Counterpoint SA-2000E Counterpoint SA-3000	900 1950 2250 2250 2250 3900 6700 7000 11000 999 1250 1420 1475 1750 895 1075 1095 1295 1495 1595 1595	Pre Pre Pre Pre Pre Pre Pre Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pwr Pwr Pwr Pwr Pre Pre Pwr Pre Pre Pre Pre Pre Pre Pre Pre Pre Pr	N N N N N N N N N N N N N N N N N N N	70 140 330 30 30 50 50 100 100 100 100 200	5L 5L MC.4L 5L MC.4L 5L MC,4L - MC,4L - MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T MM/MG,3L,1T - 3L,1T MM/MC,3L,1T 3L,1T MM/MC,3L,1T 4L,2T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Switchable tetrode/triode Mono Mono Hybrid Hybrid Separate PSU
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-112 Corpad-Johnson PV-12 Corpad-Johnson PV-12 Corpad-Johnson PV-12 Corpad-Johnson PV-12 Corpade To Septiment To	900 1950 2250 2250 2750 3500 6700 7000 11000 999 1250 1420 1420 1420 1750 895 1075 1095 1495 1495 1495 1495 1495 1495 1495 14	Pre Pre Pre Pre Pre Pre Pre Pwr Pre Pwr Pre Pwr Pre Pwr Pwr Pwr Pwr Pwr Pwr Pwr Pre Pre Pwr Pre Pre Pwr Pre Pre Pwr	N N N N N N N N N N N N N N N N N N N		5L 5L MC.4L 5L MC.4L 5L MC,4L - MC,4L - MC,4L - MC,4L - MM,3L,1T MM/MC,3L,1T MM/MG,3L,1T - 3L,1T MM/MC,3L,1T 3L,1T MM/MC,3L,1T 4L,2T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono Mono Hybrid Hybrid Separate PSU Rated at 40hms, hybrid Hybrid
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-11 Conrad-Johnson PV-12L Conrad-Johnson PV-12L Conrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 78 C-J Premier 8A Copland CSA14 Copland CSA14 Copland CTA301 Copland CTA501 Counterpoint Solid 1EM Counterpoint Solid 8E Counterpoint Solid 1E Counterpoint SA100 Counterpoint SA100 Counterpoint SA-2000E Counterpoint SA-3000 Counterpoint SA-3000 Counterpoint SA-4 Counterpoint SA-5000E	900 1950 995 2250 2250 2750 3500 6700 7000 11000 16000 1250 1250 1420 1420 1495 1075 1095 1295 1495 1495 1495 1495 1495 1495 1495 14	Pre	N N N N N N N N N N N N N N N N N N N		5L 5L MC.4L - 5L MC.4L - 5L MC,4L - MC,4L MM,3L,1T MM/MC,3L,1T 3L,1T MM/MC,3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono Mono Hybrid Hybrid Separate PSU Rated at 40hms, hybrid Hybrid
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV-10AL Conrad-Johnson PV-112A Conrad-Johnson PV-12L Corrad-Johnson PV-12L C-J Premier 11A C-J Premier 11A C-J Premier 12 C-J Premier 12 C-J Premier 18 C-J Premier 8A Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504 Counterpoint Solid 1EM Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint Solid 2E Counterpoint Solid 3E Counterpoint	900 1950 2250 2250 2250 3900 6700 7000 11000 999 1250 1420 1420 1475 1750 895 1075 1095 1295 1495 1295 1495 1295 1495 1295 1495 1295 1495 1295 1495 1295 1495 1295 1495 1295 1295 1295 1295 1295 1295 1295 12	Pre	N N N N N N N N N N N N N N N N N N N		5L 5L MC.4L - 5L MC.4L - 5L MC,4L - MC,4L MM,3L,1T MM/MC,3L,1T 3L,1T MM/MC,3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Switchable tetrode/triode Mono Hybrid Hybrid Separate PSU Rated at 4ohms, hybrid Hybrid Separate PSU
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-112 C-J Premier 11A C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 C-J Premier 18 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504 Counterpoint Solid 1EM Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint SA-1000 Counterpoint SA-2000E Counterpoint SA-2000E Counterpoint SA-2000 Counterpoint SA-2000 Counterpoint SA-2000 Counterpoint SA-2000 Counterpoint SA-2000 Counterpoint SA-2000 Counterpoint SA-3000 Counterpoint SA-500 Counterpoint NPS-400 Counterpoint NPM-E Counterpoint NPS-400	900 1950 2250 2250 2750 3500 6700 7000 11000 999 1250 1420 1420 1420 1475 1075 1095 1495 1495 1495 1595 1495 1495 1495 14	Pre	N N N N N N N N N N N N N N N N N N N		5L 5L MC.4L - 5L MC.4L - 5L MC.4L - MC.4L MC.4L MM.3L,1T MM/MC,3L,1T 2L MM.3L,1T 3L,1T MM/MC,3L,1T	N N N N N N N N N N N N N N N N N N N	N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono Mono Hybrid Hybrid Separate PSU Rated at 4 ohms, hybrid Hybrid Separate PSU Rated at 4 ohms, hybrid
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-11A Conrad-Johnson PV-11A Conrad-Johnson PV-12L Corrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 Copland CTA501 Copland CTA301 Copland CTA501 Copland CTA504 Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint Solid 2E Counterpoint Solid 2E Counterpoint Solid 2E Counterpoint SA-3000 Counterpoint NPS-200E Counterpoint NPS-200E Counterpoint NPM-E Counterpoint NPM-E Counterpoint NPM-E Counterpoint NPM-E	900 1950 1250 2250 2750 3500 6700 7000 11000 16000 999 1250 1750 1750 1750 1750 1995 1995 1995 1995 3578 3798 3995	Pre	N N N N N N N N N N N N N N N N N N N	- 140 - 140 - 275 60 30 30 30 30 50 100 200 1100 1200 140 - 150 400 150	5L 5L MC.4L - 5L MC.4L - 5L MC,4L - MC,4L MM,3L,1T MM/MC,3L,1T 3L,1T MM/MC,3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono Mono Hybrid Hybrid Separate PSU Rated at 4 ohms, hybrid Phono stepup
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-11A Corrad-Johnson PV-11A Corrad-Johnson PV-12L Cory Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 C-J Premier 8A Copland CSA14 Copland CTA301 Copland CTA301 Copland CTA501 Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint Solid 1E Counterpoint SA100 Counterpoint SA-2000E Counterpoint SA-3000 Counterpoint SA-3000 Counterpoint SA-4 Counterpoint SA-5000E Counterpoint SA-5000E Counterpoint NPM-E Counterpoint NPS-400E Counterpoint NPS-400E Counterpoint NA-9 C'point Nat Progress	9900 1950 9951 2250 2250 2250 2750 3500 6700 7000 11000 16000 1250 1250 1420 1495 1075 1095 1095 1995 1995 1995 3798 3995 3798 3995 4125	Pre	N N N N N N N N N N N N N N N N N N N		5L 5L MC.4L - 5L MC.4L - 5L MC.4L - MC.4L MC.4L MM.3L,1T MM/MC,3L,1T 2L MM.3L,1T 3L,1T MM/MC,3L,1T	N N N N N N N N N N N N N N N N N N N	N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube, has vol control Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono Mono Hybrid Hybrid Hybrid Separate PSU Rated at 4 ohms, hybrid Hybnon stepup Mono, hybrid
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-11A Conrad-Johnson PV-11A Conrad-Johnson PV-12L Corrad-Johnson PV-12 C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 Copland CTA501 Copland CTA301 Copland CTA501 Copland CTA504 Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint Solid 2E Counterpoint Solid 2E Counterpoint Solid 2E Counterpoint SA-3000 Counterpoint NPS-200E Counterpoint NPS-200E Counterpoint NPM-E Counterpoint NPM-E Counterpoint NPM-E Counterpoint NPM-E	900 1950 1250 2250 2750 3500 6700 7000 11000 16000 999 1250 1750 1750 1750 1750 1995 1995 1995 1995 3578 3798 3995	Pre	N N N N N N N N N N N N N N N N N N N	- 140 - 140 - 275 60 30 30 30 30 50 100 200 1100 1200 140 - 150 400 150	5L 5L MC.4L - 5L MC.4L - 5L MC.4L - MC.4L MC.4L MM.3L,1T MM/MC,3L,1T 2L MM.3L,1T 3L,1T MM/MC,3L,1T	N N N N N N N N N N N N N N N N N N N	N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono Mono Hybrid Hybrid Separate PSU Rated at 4 ohms, hybrid Phono atepup Mono, hybrid Phono amp MM/MC, & PSU Rated at 4 ohms, hybrid Phono amp MM/MC, & PSU Rated and MM/MC, & PSU
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-11A Corrad-Johnson PV-11A Corrad-Johnson PV-12L Cory Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 18 C-J Premier 8A Copland CSA14 Copland CTA301 Copland CTA301 Copland CTA501 Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint Solid 1E Counterpoint SA100 Counterpoint SA-2000E Counterpoint SA-3000 Counterpoint SA-3000 Counterpoint SA-4 Counterpoint SA-5000E Counterpoint SA-5000E Counterpoint NPM-E Counterpoint NPS-400E Counterpoint NPS-400E Counterpoint NA-9 C'point Nat Progress	9900 1950 9951 2250 2250 2250 2750 3500 6700 7000 11000 16000 1250 1250 1420 1495 1075 1095 1095 1995 1995 1995 3798 3995 3798 3995 4125	Pre	N N N N N N N N N N N N N N N N N N N	- 140 - 140 - 275 60 30 30 30 30 50 100 200 1100 1200 140 - 150 400 150	5L 5L MC.4L - 5L MC.4L - 5L MC.4L - MC.4L MC.4L MM.3L,1T MM/MC,3L,1T 2L MM.3L,1T 3L,1T MM/MC,3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono Mono Hybrid Hybrid Separate PSU Rated at 4 ohms, hybrid Phono atepup Mono, hybrid Phono amp MM/MC, & PSU Rated at 4 ohms, hybrid Phono amp MM/MC, & PSU Rated and MM/MC, & PSU
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10A Conrad-Johnson PV-10A Conrad-Johnson PV-112 Corrad-Johnson PV-12 Corrad-Johnson PV-12 C-J Premier 11A C-J Premier 11A C-J Premier 10 C-J Evolution 20 SP ED C-J Premier 12 C-J Premier 7B C-J Premier 8A Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504 Copland CTA-504 Counterpoint Solid 1EM Counterpoint Solid 1EM Counterpoint Solid 1E Counterpoint SA-1000 Counterpoint SA-1000 Counterpoint SA-2000E Counterpoint SA-2000E Counterpoint SA-4 Counterpoint SA-4 Counterpoint SA-2000E Counterpoint SA-4 Counterpoint SA-5000E Counterpoint NPS-200E Counterpoint NPS-200E Counterpoint NPS-400E Counterpoint SA-9 C'point Nat Progress Credo PMP003 Credo HMP003 Credo HMP003	900 1950 2250 2250 2250 3500 6700 7000 11000 11000 1250 1420 1420 1475 1075 1075 1295 1495 1295 1495 1595 1995 2495 3575 3995 3995 4125 3995 3995 388	Pre	N N N N N N N N N N N N N N N N N N N		5L 5L MC.4L - 5L MC.4L - 5L MC,4L - MC,4L - MC,4L - MM.3L,1T MM.3L,1T 3L,1T MM.MC,3L,1T 3L,1T MM.MC,3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono Mono Hybrid Hybrid Separate PSU Rated at 4 ohms, hybrid Hybrid Separate PSU Rated at 4 ohms, hybrid Phono stepup Mono, hybrid Phono amp MM/MC, & PSU Class A headphone amp
Concordant Exhilerant Concordant Exquisite Conrad-Johnson PV10AL Conrad-Johnson PV10AL Conrad-Johnson PV-10A Conrad-Johnson PV-112 C-J Premier 11A C-J Premier 11A C-J Premier 10 C-J Premier 12 C-J Premier 12 C-J Premier 18 C-J Premier 18 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-501 Copland CTA-504 Counterpoint Solid 1EM Counterpoint Solid 3E Counterpoint Solid 1E Counterpoint Solid 1E Counterpoint Solid 2E Counterpoint Solid 3E C	900 1950 2250 2250 2250 3500 6700 7000 11000 11000 1250 1420 1420 1475 1075 1075 1295 1495 1295 1495 1595 1995 2495 3575 3995 3995 4125 3995 3995 388	Pre	N N N N N N N N N N N N N N N N N N N		5L 5L MC.4L - 5L MC.4L - 5L MC,4L - MC,4L - MC,4L - MM.3L,1T MM.3L,1T 3L,1T MM.MC,3L,1T 3L,1T MM.MC,3L,1T	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N		6 tube pre, wood case option 10 tubes, 2 line out, ext PSU Line version of PV-10A Tube Line version of PV-10A Tube Line version of PV-12 Tube Baby Premier 8 Line version of Premier 7B Poor man's Premier 7B Monoblock pair Ext PSU, twin mains leads Monoblocks, price per pair Hybrid tube/transistor Tube Tube, soft start Tube Tube, has vol control Tube push/pull ultra-linear Switchable tetrode/triode Mono Mono Hybrid Hybrid Separate PSU Rated at 4 ohms, hybrid Hybrid Separate PSU Rated at 4 ohms, hybrid Phono stepup Mono, hybrid Phono amp MM/MC, & PSU Class A headphone amp

Audiolab 8000A 450 Int N 60 MM,MC,1T,3T Y N 45,8,36 Preout/main in

## The Forefront of Technology











 The DSP-A2070 lets you select from among 11 Cinema DSP and 12 HiFi DSP programs.

 Cinema DSP multiplies the effects of Dolby Pro Logic Surround and Digital Sound Field processing to create sound fields such as the Concert Hall, Church or Movie Theatre.

Cinema DSP gives you the same dynamic, all enveloping experience that the sound director intended you to have.

Considerable time and effort has gone into the creation of the Bill Hutchinson Innovation Award Scheme, drawing from more than two decades of experience and expertise.

The Innovation Award is designed to assist you in identifying state of the art equipment that matches your expectations whilst being of a build quality that ensures many years of enjoyment.

A list of priorities have been drawn up in order to establish the framework of the Award Scheme. The main priorities are, sound, value, construction, design, style and originality.

The choice of dealer should be given the same care and attention as is given to your choice of equipment, so that you may receive the kind of quality service and advice that compliments equipment of the same standard. The type of service you ultimately receive will reflect on your overall enjoyment of the product. A long-term association with a professional dealer has real benefits and will serve as your personal contact for information and advice on the Manufacturers latest

If it is not possible to visit a Bill Hutchinson Hi-Fi AV Centre, simply contact the Manufacturer for details of your nearest authorised stockist. YAMAHA 0923 233166



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Key to amplifiers
Price - typical retail, to nearest
pound.
Power - output power in watts, per
channel, RMS.
Inputs - MM/MC - phono moving coil
and moving magnet, L - line (CD, aux
etc), T - tape.
A/V - includes Dolby Surround or Pro
Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier. Headphone - Y - yes, N - no. Remote - Y - yes, N - no. Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

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Model	Price	Туре	A/V	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS		0							
Credo MMP002	439	Pre	N	-		N	N	-	Mic amp, phantom power
Credo IMP702	499	Int	N	70	6L	-	N	44,6,31	
Credo IMP703 Credo CMP004	538 799	Int Pre	N N	70	MM/MC, 6L 6L	N	Y N	44,6,31	As above, with remote
Credo CMP004 Credo CMP005	1119	Pre	N	-	6L	N	Y	44,6,31	3 outputs Remote controlled pre
Credo PMP154	1699	Pwr	N	150	OL -	IV	N	44,16,31	hemote controlled pre
Credo PMP303	1699	Pwr	N	30		-	N	44,16,31	Class A power amp
Credo PMP102	2181	Pwr	N	100		-	N	44,21,31	Class A power amp
Credo PMP252	2509	Pwr	N	250		-	N	44,21,31	Ciass A power amp
Creek P42	250	Pre	-	-	4L,2T	Υ	-	42.6.20	Plug-in modules available
Creek R42	250	Pwr		50	-	-	-	42,6,20	riag in modulos araitable
Creek 4240	250	Int	N	40	3L,1T	Υ	N	42,6,20	Optional phono input
Crimson 620	395	Pwr	N	40	-	*	-	-	
Crimson 610	395	Pre	N	F	MM/MC,2L,1T	N	N	Э.	Star earth
Crimson CS610	395	Pre	N	-	MM/MC,2L,1T	N	N	9,10,35	
Crimson CS610B	395	Pre	N	-	MM/MC,3L,1T	N	N	-	
Crimson CS620	395	Pwr	N	40	-	-		9,10,35	
Croft Micro	299	Pre	N		MM,3T,1T	N	N	-	
Croft Micro	400	Pre	N	-	MM,3L,1T	N	N	43,10,36	Tube
Croft Series 5	549	Pwr	N	35	-	N	N	-	Ultralinear design
Croft Integrated	599	Pre	N	25	MM,3T,1T	N	N	-	
Croft Integrated	599	Int	N	35	MM,3L,1T	N	N	12 10 00	Tuho
Croft Charisma Croft Series X	700 800	Pre Pwr	N N	25	MM,3L,1T	N	N	43,10,36	
Croft Enigma	999	Pwr	N	20	- MM,3T,1T	N	N	43,10,36	OTL amp, triode
Croft Enigma	1100	Pre	N		MM,3L,1T	N	N	43.10.36	Tube
Croft Series 6	1300	Pwr	N	120	-		14	43,10,36	
Croft Series IIIR	1599	Pwr	N	35		N	N	-	OTL, regulated PSU
Croft Series III R	1600	Pwr	N	45	-	-	-	50,20,25	
Croft Absolut 1	1999	Pre	N		MM,3T,1T	N	N	-	
Croft Series IIR	5500	Pwr	N	100	-	N	N	-	Monoblock OTL
Dawn Audio Cmd 2 by 20	890	Pwr	-	200	-	N	N	38,11,26	Single monoblock
Dawn Audio Prelude +50	951	Pre	N	-	MM/MC,2L,2T	N	N	38,9,26	Pre out line driver
Denon PMA-250 III	160	Int	N	30	MM,3L,1T	Υ	N	44,10,28	
Denon PMA-350 II	220	Int	N	50	MM,3L,2T	Υ	N	44,12,28	UK design
Denon PMA-480R Denon PMA-450	220	Int	N N	50	MM,3L,2T	Υ	Y N	44,12,29	UIV desire
Denon PMA-880R	250 300	Int Int	N	60 75	MM,3L,2T MM,3L,2T	Y	Y	44,14,36 44,16,40	UK design
Denon AVC-1530	480	Int	V V	70	MM,2L,2T	Υ	Y	44,16,40	
Denon AVC-3020	730	Int	V	80	MM,4L,4T	Υ	Υ		Learning remote
Denon AVC-3530	1000	Int	Υ	110	MM,4L,4T	Υ	Υ	44,16,43	
DNM 3 Start	850	Pre	N	-	MM/MC,2L,1T	N	N	27,13,16	
DNM 3A Start	1200	Pre	N	+	MM/MC,2L,1T	N	N	27,13,16	
DNM PA1	1450	Pwr	N	45	-	-	6	27,13,18	Triwire output
DNM 3B Primus E	2050	Pre	N	-	MM/MC,4L,1T	N	N	27,13,16	
DNM 3B Twin E	3050	Pre	N	-	MM/MC,4L,1T	N	N	27,13,16	
DNM PA2BE	3550	Pwr	N	90	-	-	71	27,13,18	Triwire output
DNM 3B Six E	4050	Pre	N	-	MM/MC,4L,1T	N	N	27,13,16	To be a few
DNM PA2BS DNM PA2BS-1	4450 4800	Pwr Pwr	N N	90 90	1		-	27,13,18 27,13,18	
DPA DSP200S	495	Pre	N	90	5L,1T	N	N	27,13,10	mwire output
DPA DPA200S	750	Pwr	-	60	JE, 11	14	14		Bridgable
EAR EAR802	1440	Pre	N	-	MM.2L.2T	N	N		Tube
EAR EAR802MC	1580	Pre	N	_	MC.2L.2T	N	N	2	Tube
EAR G88	5770	Pre	N	-	MM/MC,3L,2T	N	N	2	
ECA Vista	760	Pre	N	4	4L,1T	N	N	39,10,39	Phase coherent design
ECA Lectern	760	Pwr	-	50	4			39,10,30	Phase coherent design
ECA Prisma	760	Pre	-	-	MM,MC	-	-	39,10,23	
E'paniet ECP-1	502	5	N	=	MM/MC	-	5.	24,7,16	Adjustable MC input
E'paniet EC-4 Line	1332	Pre	N	-	5L,2T	-	7	48,9,23	
E'paniet EC-3MM	1556	Pre Pre	N	-	MM,4L,2T	-	-	48,9,23	
E'paniet EC-3 MC E'paniet AW100DMB	1865 2018	Pre	N N	100	MC,4L,2T	(2)		48,9,23 48,13,36	High current (80A)
E'paniet EC1-1	2018	Int	N	100	5L,2T	-		45,13,36	
E'paniet AW250DMB	4370	Pwr	N	250	-	-		48,22,45	
EMF Audio Sequel	349	Int	N	50	MM,4L,1T	Υ	N	-	
Exposure XX	625	Int	N	40	4L,2T	N	N	43,85,35	
Exposure XiX	725	Pre	N	-	5L	N	N	43,85,35	
Exposure XV	725	Int	N	40	MM,MC,3L,2T	N	N	43,85,35	
Exposure XIV	750	Pre	N	-	MM,MC,3L,2T	N	N	48,8,30	Digital in
Exposure XVIII	750	Pwr	N	60	1	N	N	43,85,35	
Exposure XVIII (er)	775	Pre	N	-	MM,MC,3L,2T	N	N	43,85,35	Ou mana secretal at
Exposure XVIII (pr) Exposure IV	1500 1800	Pwr Pwr	N N	60		N N	N N	43,85,35	2x mono monoblock
Forte Audio Model 40	1250	Pre	N	80	- MM/MC/2L,2T	N	N	48,13,35	
Forte Audio Model 40 Forte Audio Model 5	1295	Pwr	14	100	- WINNING/2L,21	14	10		
Forte Audio Model 7	1295	Pwr		75				_	Class A monoblock
Forte Audio Model 4	1795	Pwr		60		-		e e	Class A Monoblock
Forte Audio Model 6	1795	Pwr		150				2	
Fullers Pre 1	599	Pre	N	2	MM/5L,1T	N	N	48,9,30	Optional MC stage
Fullers Pre 1+	649	Pre	N	-	6L,2T	N	N	48,9,30	No phono option - hard wired
Fullers A10	1200	Pwr	-	10	*	-	*	48,13,30	
Fullers Audio A1	1200	Pwr	-	12	5	1	+	-	Single ended Class A
Grant CD10	482	Pre Pre	N N	-	4L MM,2L,1T	N N	N N	-	
Grant G100P	764								

Count GSDA		, .	_		Po	Ing	adphones	Remote		
Grant GRIGAM   1726	Model	Price	Туре	\$	Power	Inputs	nes	ote	Size	Special
Source CSCOMANS										
Sant SSDA	High Colombia and American Section 1974			-	_	•	-	-	-	Monoblocks
Same Decodows				-		-	-	-	-	
Sunding V120				-		-			-	Monoblocks
Sunding VI				N		MM.5L.1T	Υ	Υ	36.12.35	
Sourchy V2		150	Int	N	50	MM,5L,1T	Υ	Υ	43,14,30	
Sounding Name	Grundig V310		Int			MM,5L,1T		-	36,12,30	Pre-main split
STAUGO Per   2000   20			_					_		
STANDED PRIMER   STANDED   Say   N   N   S   S   S   S   S   S   S   S					120			_	43,14,30	
	Control of the Contro		_		20	MM,3L,11	_	_		
Name				_		MM.3L.2T			45.11.37	mode switchable (Tow)
Harman-Radrich MedSS   939			Pwr	-		-	-	-		
Harman-Rasdon H6650	Harman-Kardon HK1400	399	Int	N	40	MM/MC,3L,2T	N	N	45,11,37	
Harman Kardon AP2500   Ago   Per   N								Υ	45,11,37	
Harman Kardon PA2200					60		-			
Harmana Asardon HAG6S0				N	70	MM/MC.6L,21	N	N		
				Υ		MM/MC 4L 2T	Υ	Υ		Video circuitry
Herman-Rardon PA2400   999				Υ				_		
Negrotokinlegra		899	Pwr	-	120		-	-		
Inca Tech Oberon Pre   100   200   201	Harman-Kardon HK6950	1299	Int	Υ		MM/MC5L,2T	Υ	_	45,16,40	Video circuitry
IRCA TECH Oberon Pwr   IRCA TECH Oberon Pwr   IRCA TECH Oberon   450   Int   N					70		Υ			
Incat and Dutwern				N	- 70	MM/MC,6L,2T	N			
Judis G.PP.   200				- N	70	AMM/MC CL OT	Υ	_	,-,	
Jadis JP-P.200			_				Υ	IV		
Jadis DEPY-7										
Sedis DEPY-7					-				-	
Sedis JP-30MC				-	100	-		-	49,23,63	Tube
Jadis J.P.S2	Jadis JA30	5760	Pwr	-	30	-	-	-	21,21,46	Tube, 1x monoblock
Jadis JR-BOMC	Jadis JP-30MC	6444	Pre	N	-	MM/MC,4L,1T	-	-	-	
Jadis JP-80MC				N	-	6,1T	-	-	-	
Jadis JA-200				-	60	1	-	-	23,26,58	Tube, 1x monoblock
Jadis JR-200MC				N	4.00	MM/MC,4L,11	-	-	- 00 00 50	T.b
Juck Alson   Juc			-	T.	160	MM/MC 5L 1T	-	-	26,23,58	Tube, monoblock (four boxes)
JUC AX-RE62BK   250				IN .	400	- IVIIVI/IVIG, SE, TT			28 36 70	Tuhe monoblock (four hoves)
JVC AX-R62BK   250	A contract to the second contract of the seco			N		MM.3L.2T	Υ	N		Tube, Monoblock (four boxes)
MC AX-Z1010TN   650				N			Υ	_		
KAL Magician	JVC AX-A662BK	330	Int	N	90	MM/MC,3L,2T	Υ	N	44,13,31	
KAL Empress 3600 Pre N - MM/MC, 2L, 1T Y N - Tube  KAL Empress 3600 Pre N - MM/MC, 2L, 1T Y N - Tube  KAL Empress 4375 Pwr - 9	JVC AX-Z1010TN	650	Int	N	100	MM/MC,3L,2T	Υ	Υ	44,13,46	
KAL Emprors  AL Emprors  AL Emprors  AL Emprors  AL Emprors  AL Emprors  AL Empror  AL Conqueror  Int  N 30 MM/MC,3L,1T N N N  Emwood KA-1030  Int  N 65 MM,3L,2T Y N A 44 wide  Kenwood KA-2060R  Iro  Int  N 50 MM,3L,2T Y N A 44 wide  Kenwood KA-3020SE  Emwood KA-3060R  Iro  Int  N 50 MM,3L,2T Y N A 44 wide  Kenwood KA-3060R  Iro  Int  N 50 MM,3L,2T Y N A 44 wide  Kenwood KA-3060R  Iro  Int  N 50 MM,3L,2T Y N A 44 wide  Kenwood KA-4050 N 200  Int  N 70 MM,3L,2T Y N A 44 wide  System control  Kenwood KA-4050 N 200  Int  N 70 MM,3L,2T Y N A 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,4L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,4L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  N 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y 44 wide  System control  Kenwood KA-9050 N 300  Int  Y 100 MM,3L,2T Y Y Y 44 wide  System control  Kenwood KA-9050 N 3			_		3		_		-	
KAL Emperor 4375 Pwr - 9 Single ended tube Class A KAL Conqueror 12500 Int N 30 MM/MC,3L,1T N N N Single ended tube Class A KAL Conqueror 12500 Int N 65 MM,3L,2T Y N N 44 wide Kenwood KA-2060R 170 Int N 65 MM,3L,2T Y N 44 wide Kenwood KA-3020SE 200 Int N 50 MM,3L,2T Y N 44 wide Kenwood KA-30020					-			-		
Kenwood KA-1030 Kenwood KA-2000R Kenwood KA-3020 Int N 65 MM,3L,2T Y N 44 wide Kenwood KA-3020S Kenwood KA-3020S Kenwood KA-3020S Int N 45 MM,3L,2T Y N 44 wide Kenwood KA-3020S Kenwood KA-3020S Kenwood KA-3020S Kenwood KA-3020S Int N 50 MM,3L,2T Y N 44 wide Kenwood KA-3020S Kenwood KA-3020S Kenwood KA-5020 Int N 80 MM,3L,2T Y N 44 wide Kenwood KA-4050R Renwood KA-4050R Renwood KA-4050R Renwood KA-4050R Int N 70 MM,3L,2T Y N 44 wide Kenwood KA-93700 Int N 95 MM,3L,2T Y N 44 wide Kenwood KA-7050R Kenwood KA-7050R Sol Int N 95 MM,3L,2T Y Y 44 wide System control Kenwood KA-7050R Kenwood KA-7050R Kenwood KA-7050R Renwood KA-7050R R				N	0	MM//MC,2L,11	Υ	N	-	
Kenwood KA-1030         140         Int         N         655         MM,3L,2T         Y         N         44 wide         System control           Kenwood KA-2020         170         Int         N         655         MM,3L,2T         Y         Y         44 wide         Kenwood KA-3020         Wenwood KA-3060R         200         Int         N         45         MM,3L,2T         Y         N         44 wide         UK Special Edition           Kenwood KA-3060R         230         Int         N         80         MM,3L,2T         Y         N         44 wide         System control           Kenwood KA-4050R         280         Int         N         80         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-9050R         350         Int         N         95         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-98500         700         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control	The second secon			NI.		MM/MC 3L 1T	- N	- N		Single ended tube class A
Kenwood KA-2000R         170         Int         N         65         MM,3L_2T         Y         Y         44         System control           Kenwood KA-3020SE         200         Int         N         45         MM,3L_2T         Y         N         44 wide         Will Special Edition           Kenwood KA-3000R         230         Int         N         45         MM,3L_2T         Y         Y         44 wide         System control           Kenwood KA-4050R         280         Int         N         70         MM,3L_2T         Y         Y         44 wide         System control           Kenwood KA-4050R         280         Int         N         70         MM,3L_2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         Int         N         100         MM,3L_2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         Int         N         100         MM,3L_2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         Int         N         100         MM,3L_2T         Y         Y         44 wide         System control			_				_	_	44 wide	
Kenwood KA-3020SE         200         Int         N         50         MM,3L,2T         Y         N         44 wide         UK Special Edition           Kenwood KA-3060R         230         Int         N         45         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-4050R         280         Int         Y         70         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         300         Int         Y         100         MM,4L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         Int         Y         45         MM,11L,1T         Y         Y         44 wide         System control           Kenwood KA-7050B         700         Int         Y         45         MM,11L,1T         Y         Y         44 wide         System control           Krell KSA-200         700         Int         Y         55         MM,11L,1T         Y         Y         44 wide         System control <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Υ</td> <td>_</td> <td>44</td> <td>System control</td>							Υ	_	44	System control
Kenwood KA-3060R         230         Int         N         45         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-5020         230         Int         N         80         MM,3L,2T         Y         N         44 wide         System control           Kenwood KA-050R         280         Int         N         70         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         350         Int         N         95         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         Int         Y         45         MM,11L,1T         Y         Y         44 wide         System control           Kenwood KA-76500         700         Int         Y         45         MM,11L,1T         Y         Y         44 wide         System control           Krell KSA-50S         3490         Pwr         N         -         4L,1T         N         N         48,7,36         Opt. MM/MC stage <tr< td=""><td>Kenwood KA-3020</td><td>170</td><td>Int</td><td>N</td><td>45</td><td>MM,3L,2T</td><td>Υ</td><td>N</td><td>44 wide</td><td></td></tr<>	Kenwood KA-3020	170	Int	N	45	MM,3L,2T	Υ	N	44 wide	
Kenwood KA-5020         230         Int         N         80         MM,3L,2T         Y         N         44 wide         System control           Kenwood KA-4050R         280         Int         N         70         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         Int         N         95         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         600         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-70500         700         Int         Y         45         MM,1L,1T         Y         Y         44 wide         5 pre-outs, learning remote           Krell KSA-50S         3490         Pwr         J         6,1T         N         N         48,7,36         Opt MM/MC stage           Krell KSA-50S         3980         Pre         N         -         61,1T         N         Y         48,7,36         Opt MM/MC stage <th< td=""><td>Kenwood KA-3020SE</td><td>200</td><td>Int</td><td></td><td></td><td>MM,3L,2T</td><td>Υ</td><td></td><td>44 wide</td><td>UK Special Edition</td></th<>	Kenwood KA-3020SE	200	Int			MM,3L,2T	Υ		44 wide	UK Special Edition
Kenwood KA-4050R         280         nt         N         70         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-V3700         300         int         Y         100         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         int         N         100         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         600         int         Y         45         MM,11L,1T         Y         Y         44 wide         System control           Kenwood KA-V7700         600         int         Y         45         MM,11L,1T         Y         Y         44 wide         System control           Krell KSA-500         700         ntt         Y         55         MM,11L,1T         Y         Y         44 wide         5ystem control           Krell KSA-508         3490         Per         N         -         4L,1T         N         N         48,7,36         Opt. MM/MC stage           Krell KSA-100s         5290         Pwr         N         100         -         -         48,22,50         Sustained Plateau Bias           Kre	THE REAL PROPERTY OF THE PARTY		_					_		System control
Kenwood KA-V3700         300         Int         Y         100         MM.4L.2T         Y         Y         44 wide         System control           Kenwood KA-5050R         350         Int         N         955         MM.3L.2T         Y         Y         44 wide         System control           Kenwood KA-V700         600         Int         Y         45         MM.11L.1T         Y         Y         44 wide         System control           Kenwood KA-V700         600         Int         Y         45         MM.11L.1T         Y         Y         44 wide         System control           Kenwood KA-V700         600         Int         Y         45         MM.11L.1T         Y         Y         44 wide         System control           Krell KSL-2         3000         Pre         N         -         4L.1T         N         N         48,72,50         Opt. MM/MC stage           Krell KSA-500         5290         Pwr         N         100         -         -         -         48,22,50         Sustained Plateau Bias           Krell KSA-200S         7450         Pwr         N         200         -         -         -         48,22,50         Sustained Plateau Bias			_	_	_		Y	N		0
Kenwood KA-7050R         350         nt         N         95         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-7050R         500         nt         N         100         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-V7700         600         nt         Y         45         MM,11L,1T         Y         Y         44 wide         System control           Krell KSC-2         3000         Pre         N         -         4L,1T         N         N         48,7,36         Opt. MM/MC stage           Krell KSA-50S         3490         Pwr         N         100         -         -         -         48,22,50         Sustained Plateau Bias           Krell KSA-100S         5290         Pwr         N         100         -         -         -         48,22,50         Sustained Plateau Bias           Krell KSA-200S         7450         Pwr         N         200         -         -         -         48,22,50         Sustained Plateau Bias           Krell KSA-300S         8900         Pwr         N         200         -         -         -         48,22,50         Sustained Plateau Bias							Y	Y		
Kenwood KA-7050R         500         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           Kenwood KA-V8500         700         Int         Y         45         MM,1L,1T         Y         Y         44 wide         5 pre-outs, learning remote           Krell KSL-2         3000         Per         N         -         4L,1T         N         N         48,7,36         Op. MM/MC stage           Krell KSA-50s         3490         Per         N         -         6L,1T         N         Y         48,7,36         Opt MM/MC stage           Krell KSA-100s         5290         Per         N         -         6L,1T         N         Y         48,7,36         Opt MM/MC stage           Krell KSA-200s         7450         Pwr         N         200         -         -         -         48,22,50         Osustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         350         -         -         -         48,22,52         Osustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         300         -         -         -         48,22,52         Osustained Plateau Bias <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>				_				_		
Kenwood KA-V7700         600         Int         Y         45         MM,11L,1T         Y         Y         44 wide         5 pre-outs, learning remote           Kenwood KA-V8500         700         int         Y         55         MM,11L,1T         Y         Y         44 wide         5 pre-outs, learning remote           Krell KSL-2         3000         Per         N         -         4L,1T         N         N         48,7,36         Opt. MM/MC stage           Krell KSA-50S         3490         Pwr         N         -         6L,1T         N         Y         48,7,36         Opt. MM/MC stage           Krell KSA-100S         5290         Pwr         N         100         -         -         -         48,22,50         Sustained Plateau Bias           Krell KSA-300S         6977         Pvr         N         200         -         -         -         48,22,50         Sustained Plateau Bias           Krell KSA-300S         8900         Pwr         N         200         -         -         -         48,22,62         Sustained Plateau Bias           Krell KSA-300S         8900         Pwr         N         350         -         -         -         48,22,62         Sustained Platea								_		
Kenwood KA-V8500         700         Int         Y         55         MM,11L,1T         Y         Y         44 wide         5 pre-outs, learning remote           Krell KSL-2         3000         Pre         N         -         4L,1T         N         N         48,7,36         Opt, MM/MC stage           Krell KSA-50s         3490         Pre         N         -         6L,1T         N         Y         48,22,40         Ost ball and ball a			_					_		*
Krell KSL-2         3000         Pre Nr         -         4L,1T         N         N         48,7,36         Opt, MM/MC stage           Krell KSA-50s         3490         Pwr         -         50         -         -         -         48,22,40         Sustained Plateau Bias           Krell KSC-2s         3980         Per         N         -         6L,1T         N         Y         48,22,50         Sustained Plateau Bias           Krell KSA-100s         7450         Pwr         N         200         -         -         -         48,22,50         Sustained Plateau Bias           Krell KSA-200s         7450         Pwr         N         200         -         -         -         48,22,54         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         300         -         -         -         48,25,54         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         300         -         -         -         48,25,45         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         350         -         -         -         48,25,45         Sustained Plateau Bias			_	Υ				Υ		
Krell KRC-2s         3980         Pre N         N         -         6L,1T         N         Y         48,7,36         Opt MM/MC stage           Krell KSA-100s         5290         Pwr         N         100         -         -         -         48,25,50         Sustained Plateau Bia           Krell KSA-200s         7450         Pwr         N         200         -         -         -         48,22,54         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         300         -         -         -         48,22,62         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         350         -         -         -         48,22,62         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         350         -         -         -         48,34,64         Monoblocks           Lecson 380X         255         Int         N         60         MM/MC,6L         N         N         44,6,27         Pre out/main in           Lecson Quattra         420         Int         N         50         MM/MC + N/A         N         N         44,6,27         Separate PSU				N	-	4L,1T	N	N		Opt. MM/MC stage
Krell KSA-100s         5290         Pwr         N         100         -         -         -         48,22,50         Sustained Plateau Bia           Krell KSA-200s         7450         Pwr         N         200         -         -         -         48,22,54         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         300         -         -         -         48,22,54         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         300         -         -         -         48,22,62         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         350         -         -         -         48,22,62         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         350         -         -         -         48,22,54         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         350         -         -         -         48,22,54         Monoblocks           Lecson Sustained Plateau Bias         March         M         N         44,627         Pre         M         44,627         Pre         M         4				-	50	-	-	-		
Krell KRCs         6777         Pre N         N         -         6L,1T         N         Y         48,7,36         Opt MM/MC stage           Krell KSA-200s         7450         Pwr         N         200         -         -         -         48,22,54         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         300         -         -         -         48,24,54         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         350         -         -         -         48,34,64         Monoblocks           Lecson Solvere 383X         295         Int         N         35         MM/MC,6L         N         N         44,6,27         Pre out/main in           Lecson Quattra         420         Int         N         50         MM/MC + IVA         N         N         44,6,27         Separate PSU           LFD Phonostage MM0         369         Pre         N         -         MM, MC         N         N         30,6,37         Switchable MM/MC           LFD Phonostage MSD         499         Pre         N         -         50         MM/MC,4I/T         N         N         30,6,37         Hard made, custom p					100	6L,11	N	Υ		
Krell KSA-200s         7450         Pwr         N         200         -         -         48,22,54         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         300         -         -         -         48,22,54         Sustained Plateau Bias           Krell KSA-300s         8900         Pwr         N         350         -         -         -         48,24,62         Sustained Plateau Bias           Lecson Stereo 383X         295         Int         N         350         -         -         -         48,34,62         Monoblocks           Lecson Ouattra         420         Int         N         30         MM/MC, EL         Y         N         44,6,27         Pre out/main in           Lecson Ouattra         420         Int         N         30         MM/MC + N/A         N         N         44,6,27         Pre out/main in           LED Scon Quattra         420         Int         N         50         MM/MC + N/A         N         N         44,6,27         Pre out/main in           LED Scon Quattra         430         469         Pre N         -         MM, MC         N         N         30,6,37         Seprate PSU         LED Demostage MMO<					100	6L 1T	- N	ν.		
Krell KSA-300s         8900         Pwr N         N         300         -         -         -         48,22,62         Sustained Plateau Bias           Krell K.A.S.         29500         Pwr N         350         -         -         -         48,34,64         Monoblocks           Lecson Sucreo 383X         295         Int N         60         MM/MC,6L         N N         44,6,27         Pre out/main in           Lecson Quattra         420         Int N         30         MM/MC + N/A         N N         44,6,27         Separate PSU           LFD Phonostage MMO         369         Pre N         -         MM, MC         N N         30,6,37         Switchable MVMC           LFD Dintegrated So         469         Pre N         -         55,11         N N         30,6,37         Switchable MVMC           LFD Integrated Zero         479         Int N         50         55,11         N N         30,6,37         Switchable MVMC           LFD Integrated Zero         479         Int N         50         55,11         N N         30,6,37         Hand made, custom parts           LFD Linestage         749         Pre N         -         MC         N N         30,6,37         Phono stepup, zero feedback <td></td> <td></td> <td>_</td> <td></td> <td>200</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td>			_		200	-	-			
Regil K.A.S.   29500   Pwr   N   350   -										
Lecson 380X         255         Int         N         35         MM/MC,6L         N         N         44,6,27           Lecson Ouattra         420         Int         N         60         MM/MC,6L         Y         N         44,6,27           Lecson Quattra         420         Int         N         30         MM/MC + N/A         N         N         44,6,27         Pre out/main in           Lecson Quattra Plus         655         Int         N         50         MM/MC + N/A         N         N         44,6,27         Separate PSU           LFD Phonostage MM0         369         Pre         N         -         MM/MC         N         N         30,6,37         Switchable MM/MC           LFD Linestage LSO         469         Pre         N         -         51,1T         N         N         30,6,37         Zero feedback           LFD Int Zero (Ph)         650         Int         N         50         51,1T         N         N         30,6,37         Phono stepup, zero feedback           LFD MCI Phonostage         699         Pre         N         -         MC         N         N         30,7,36         Discrete circuit           LFD PAI         Powerstage			_			-	-	-		
Lecson Quattra         420         Int         N         30         MM/MC + N/A         N         N         44,6,27         Pre out/main in           Lecson Quattra Plus         655         Int         N         50         MM/MC + N/A         N         N         44,6,27         Separate PSU           LFD Dhonostage MM0         399         Pre         N         -         MM, MC         N         N         30,6,37         Switchable MM/MC           LFD Integrated Sero         469         Pre         N         -         50         -         N         N         30,6,37         Steree MOSFET           LFD Integrated Zero         479         Int         N         50         5L,1T         N         N         30,6,37         Phono stepup, zero feedback           LFD Int Zero (Ph)         650         Int         N         50         MM/MC,5L,1T         N         N         30,6,37         Phono stepup, zero feedback           LFD MC1 Phonostage         699         Pre         N         -         MC         N         30,6,37         Phono stepup, zero feedback           LFD PA1 Powerstage         749         Pre         N         -         MC         N         48,7,33         MOSFETs, custom pa					35	MM/MC,6L		N		
Lecson Quattra Plus         655         Int.         N         50         MM/MC + N/A         N         N         44,6,27         Separate PSU           LFD Dinestage LSD         469         Pre         N         -         MM, MC         N         N         30,6,37         Switchable MM/MC           LFD Dinestage PAO         469         Pvr         N         50         -         N         N         30,6,37         Stereo MOSFET           LFD Integrated Zero         479         Int.         N         50         5L,1T         N         N         30,6,37         Phono stepup, zero feedback           LFD Int Zero (Ph)         650         Int.         N         50         5L,1T         N         N         30,6,37         Phono stepup, zero feedback           LFD Int Zero (Ph)         650         Int.         N         50         MM/MC,5L,1T         N         N         30,6,37         Phono stepup, zero feedback           LFD MC1 Phonostage         699         Pre         N         -         MC         N         N         30,7,36         Discrete circuit           LFD Linestage         749         Pvr         N         60         -         N         N         48,7,33         MOSFE	The second secon							_		
LFD Phonostage MMO         369         Pre         N         -         MM, MC         N         N         30,6,37         Switchable MM/MC           LFD Linestage LSO         469         Pre         N         -         5L,1T         N         N         30,6,37         Zero feedback           LFD Integrated Zero         479         Int         N         50         5L,1T         N         N         30,6,37         Hand made, custom parts           LFD Int Zero (Ph)         650         Int         N         50         MM/MC, SL,1T         N         N         30,6,37         Phono stepup, zero feedback           LFD MCI Phonostage         699         Pre         N         -         MC         N         N         30,6,37         Phono stepup, zero feedback           LFD LST Linestage         749         Pre         N         -         MC         N         N         48,7,33         Switched attenuator, passive           LFD PPS         899         Pre         N         -         2L,1T         N         N         13,6,27         Switched attenuator, passive           LFD Phonostage MC2         1099         Pre         N         -         MC         N         N         48,7,37         <								_		
LFD Linestage LSO	Charles and the second second				50		_			
LFD Powerstage PAO         469         Pwr Int N         50         -         N         N         30,6,37         Stereo MOSFET           LFD Integrated Zero         479         Int N         50         5L,1T         N         N         30,6,37         Hand made, custom parts           LFD Int Zero (Ph)         650         Int N         50         MM/MC,5L,1T         N         N         30,6,37         Phono stepup, zero feedback           LFD MCI Phonostage         699         Pre N         -         MC         N         N         30,6,7,36         Discrete circuit           LFD LS1 Linestage         749         Pre N         -         4L,1T         N         N         48,7,33         MOSFETS, custom parts           LFD PA1 Powerstage         749         Pre N         -         2L,1T         N         N         48,7,33         MOSFETS, custom parts           LFD Integrated 1         999         Int N         60         -         N         N         13,6,27         Switched attenuator, passive           LFD Integrated 1         999         Int N         N         48,7,37         More powerful Int Zero           LFD Linestage LS2         1250         Pre N         -         4L,1T         N								_		
LFD Integrated Zero         479         Int.         N         50         5L,1T         N         N         30,6,37         Hand made, custom parts           LFD Int Zero (Ph)         650         Int.         N         50         MM/MC,5L,1T         N         N         30,6,37         Phono stepup, zero feedback           LFD MCI Phonostage         699         Pre         N         -         MC         N         N         30,7,36         Discrete circuit           LFD Linestage         749         Pre         N         -         4L,1T         N         N         48,7,33         MOSFETs, custom parts           LFD PPS         899         Pre         N         -         2L,1T         N         N         13,6,27         Switched attenuator, passive           LFD Integrated 1         999         Int         N         65         MM/MC,4L,1T         N         N         13,6,27         Switched attenuator, passive           LFD Integrated 1         999         Int         N         65         MM/MC,4L,1T         N         N         48,7,33         More powerful Int Zero           LFD Integrated 2         1250         Pre         N         -         MC         N         N         48,7,37 <td></td> <td></td> <td>_</td> <td></td> <td>50</td> <td>-</td> <td></td> <td>_</td> <td></td> <td></td>			_		50	-		_		
LFD Int Zero (Ph) 650 Int N 50 MM/MC,5L,1T N N 30,6,37 Phono stepup, zero feedback LFD MC1 Phonostage 699 Pre N - MC N N 30,7,36 Discrete circuit LFD LS1 Linestage 749 Pre N - 4L,1T N N 48,7,33 Zero feedback LFD PAI Powerstage 749 Pre N - 2L,1T N N 48,7,33 Zero feedback LFD PAS 899 Pre N - 2L,1T N N 13,6,27 Switched attenuator, passive LFD Integrated 1 999 Int N 65 MM/MC,4L,1T N N 48,7,37 More powerful Int Zero LFD Phonostage MC2 1099 Pre N - MC N N 30,7,36 Hand tuned MC1 LFD Linestage LS2 1250 Pre N - 4L,1T N N 48,7,37 Hand tuned CS1 LFD Powerstage PA2 1250 Pre N - MC, N N 48,7,37 Hand tuned PA1 LFD Linestage LS2 1499 Pre N - MM/MC,4L,1T N N 48,7,37 As LS2 with phono stage						5L,1T		_		
LFD MC1 Phonostage         699 Pre LFD LS1 Linestage         N - MC         N N N 30,7,36         Discrete circuit           LFD LS1 Linestage         749 Pre N - 4L,1T N N N 48,7,33         Zero feedback           LFD PA1 Powerstage         749 Pwr N 60 - N N N 48,7,33         MOSFETS, custom parts           LFD PPS         899 Pre N - 2L,1T N N N 13,6,27         Switched attenuator, passive           LFD Integrated 1         999 Int N 65 MM/MC,4L,1T N N 48,7,37         More powerful Int Zero           LFD Linestage LS2         1250 Pre N - 4L,1T N N 48,7,37         Hand tuned MC1           LFD Powerstage PA2         1250 Pwr N 75 - N N N 48,7,33         Hand tuned PA1           LFD Linestage LS2P         1499 Pre N - MW/MC,4L,1T N N N 48,7,37         As LS2 with phono stage								-		Phono stepup, zero feedback
LFD PA1 Powerstage         749 Pwr         N 60 - N N N 48,7,33         MOSFETS, custom parts           LFD PPS         899 Pre N - 2L,1T N N 13,6,27         Switched attenuator, passive           LFD Integrated 1         999 Int N 65 MM/MC,4L,1T N N 48,7,37         More powerful Int Zero           LFD Phonostage MC2         1099 Pre N - MC N N 30,7,36         Hand tuned MC1           LFD Linestage LS2         1250 Pre N - 4L,1T N N 48,7,37         Hand tuned LS1           LFD Powerstage PA2         1250 Pwr N 75 - N N N 48,7,33         Hand tuned PA1           LFD Linestage LS2P 1499 Pre N - MM/MC,4L,1T N N 48,7,37         As LS2 with phono stage				_	-					
LFD PPS         899         Pre Integrated 1         N         -         2L,1T         N         N         13,6,27         Switched attenuator, passive McPassive	LFD LS1 Linestage	749			-	4L,1T	N	N	48,7,33	
LFD Integrated 1         999         Int         N         65         MM/MC,4L,1T         N         N         48,7,37         More powerful Int Zero           LFD Phonostage MC2         1099         Pre         N         -         MC         N         N         30,7,36         Hand tuned MC1           LFD Linestage LS2         1250         Pre         N         -         4L,1T         N         N         48,7,37         Hand tuned LS1           LFD Powerstage PA2         1250         Pwr         N         75         -         N         N         48,7,33         Hand tuned PA1           LFD Linestage LS2P         1499         Pre         N         -         MM/MC,4L,1T         N         N         48,7,37         As LS2 with phono stage			_		60			_		
LFD Phonostage MC2         1099         Pre         N         -         MC         N         N         30,7,36         Hand tuned MC1           LFD Linestage LS2         1250         Pre         N         -         4L,1T         N         N         48,7,37         Hand tuned LS1           LFD Powerstage PA2         1250         Pwr         N         75         -         N         N         48,7,33         Hand tuned PA1           LFD Linestage LS2P         1499         Pre         N         -         MM/MC,4L,1T         N         N         48,7,37         As LS2 with phono stage			_	_	-			_		Switched attenuator, passive
LFD Linestage LS2         1250         Pre N         N         -         4L,1T         N         N         48,7,37         Hand tuned LS1           LFD Powerstage PA2         1250         Pwr N         N         75         -         N         N         48,7,33         Hand tuned PA1           LFD Linestage LS2P         1499         Pre N         N         MM/MC,4L,1T         N         N         48,7,37         As LS2 with phono stage					65			_		
LFD Powerstage PA2         1250         Pwr         N         75         -         N         N         48,7,33         Hand tuned PA1           LFD Linestage LS2P         1499         Pre         N         -         MM/MC,4L,1T         N         N         48,7,37         As LS2 with phono stage			_		-		-	_		
LFD Linestage LS2P 1499 Pre N - MM/MC,4L,1T N N 48,7,37 As LS2 with phono stage					75	4E, 11		-		
			_		-	MM/MC,4L.1T		_		and the second s

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see p123

Audiolab 8000A 450 Int N 60 MM,MC,1T,3T Y N 45,8,36 Preout/main in

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see p123

Audiolab 8000A 450 Int N 60 MM,MC,1T,3T Y N 45,8,36 Preout/main in

## The Forefront of Technology





The experience of sound

Frequency response: 50Hz-20kHz+3dB

• Sensitivity: 85dB, 25.3v at 1M

Amplifier requirements: 10-125W

• Impedance: 6 ohms





Model No: Q30

• Net Weight: 9.3kg/20.5lbs

Dimensions: (HxWxD) 700 x 190 x 301mm,

27.5 x 7.5 x 11.85in

Considerable time and effort has gone into the creation of the Bill Hutchinson Innovation Award Scheme, drawing from more than two decades of experience and expertise.

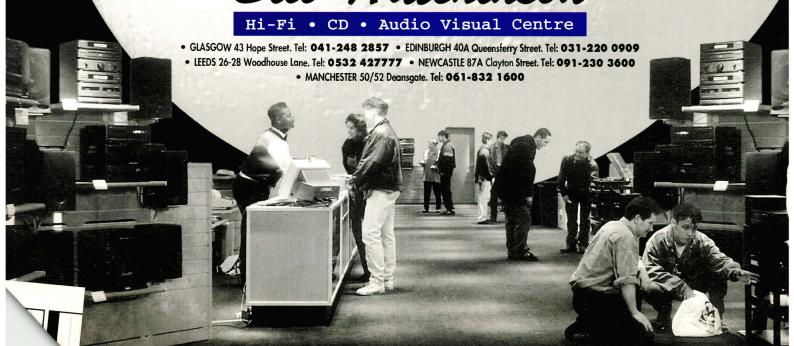
The Innovation Award is designed to assist you in identifying state of the art equipment that matches your expectations whilst being of a build quality that ensures many years of enjoyment.

A list of priorities have been drawn up in order to establish the framework of the Award Scheme. The main priorities are, sound, value, construction, design, style and originality.

The choice of dealer should be given the same care and attention as is given to your choice of equipment, so that you may receive the kind of quality service and advice that compliments equipment of the same standard. The type of service you ultimately receive will reflect on your overall enjoyment of the product. A long-term association with a professional dealer has real benefits and will serve as your personal contact for information and advice on the Manufacturers latest Innovations

If it is not possible to visit a Bill Hutchinson Hi-Fi AV Centre, simply contact the Manufacturer for details of your nearest authorised stockist.

KEF 0622 672261





Key to amplifiers
Price - typical retail, to nearest
pound.
Power - output power in watts, per
channel, RMS.
Inputs - MM/MC - phono moving coil
and moving magnet, L - line (CD, aux
etc), T - tape.
A/V - includes Dolby Surround or Pro
Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier.
Headphone - Y - yes, N - no.
Remote - Y - yes, N - no.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.



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Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Marantz PM-53         250 Int.         Int.         N.         655 MM,3L,2T         Y         Y         42,14,30         Marantz PM-638E         300 Int.         N.         700 MM/MC,3L,2T         Y         N.         42,16,34         Audiophile components           Marantz PM-63         300 Int.         N.         700 MM/MC,3L,2T         Y         N.         42,16,34         Audiophile components           Marantz PM-801         480 Int.         N.         100 MM/MC,3L,2T         Y         Y         42,16,34         Dolby Pro Logic           Marantz PM-808         650 Int.         N.         100 MM/MC,3L,2T         Y         Y         42,10,34         Dolby Pro Logic           Mark Levinson PM-80SE         650 Int.         N.         110 MM/MC,3L,3T         Y         N.         42,17,34         Audiophile components           Mark Levinson PM-80SE         650 Int.         N.         110 MM/MC,3L,2T         N.         V.         42,17,34         Audiophile components           Mark Levinson PM-50 SE         2950 Prevalum Pm-8 Novalum         N.         100 Pm-9 Novalum         N.         N.         42,10,34         Dolby Pro Logic           Mark Levinson PM-7 SE         2509 Prevalum         Pm-9 Novalum         N.         N.         N.         2	$\overline{}$							_		
The Distriction   Section   Sectio	Model	Price	Туре	AV	Power	Inputs	Headphones	Remote	Size	Special
LIPP Powerstage PACAM		LD.	(D	•	7	6.7	U)	(D	3120	эресіаі
LEP DISP. PRIVATE   1985   1	LFD Linestage LSB		-		-	4L,1T	_			
Limit Major   Limit Name					100	-		-		
Chem Name   Chem			_	_	-	THE RESERVE OF THE PARTY OF THE				
Limin Kalim Promo			_	N	_	4L,21	Y			
Link Name   1398			_	NI.		MM MC 2L 2T	- V			
Link Nation			_		33					
Lim Mourie   Part			-		-		-	-		
Lumiery Reference PMO	CONTRACTOR DE LA CONTRA		_	-	80	-	-	-		
Lumiery Reference PPI	Lumley Reference PP70	325	Pre	N	-	6L,1T	-	N	36,46,6	Passive, for ST40 or ST70
Lumiery Reference NST   120	Lumley Reference PP40	325	Pre	_	-	6L,1T	-	N	29,40,6	Bolts onto ST40 or ST70
Lumisy Reference 5140   1500	ADDRESS OF THE PARTY OF THE PAR		_	_	-		-	-		
Lumisky Reference NY   100	CONTROL OF THE PARTY OF THE PAR			-	-		-	-	29,44,6	
Luminy Reference MT/0   200				_	40			_		the state of the s
Lumisy Reference M120   2000   Por   N   120   1.			_		70	IVIIVI, DL, I I		-	36 46 18	
Lumler perference M500   1000   own   N   S   S   S   N   N   S   S   S   N   S   S	The state of the s					-	-	_		
Lournant LF70	And the second s			-	-		-	N		
Lymwood Ruly	CONTRACTOR AND ADDRESS OF THE PROPERTY OF THE PARTY OF TH	3750		N	50	MM/MC,4L,3T	N	N		
Magnum	Lynwood Opal		_	N		7L,1T	N	N	-	
Magnum MF125				+	_	-	-	-		
Magnum MF305				_	-		_	_		
Magnum MF300         595 bit No. Magnum M500 class A M500 clas				N		MM,3L,2T	Υ	N		Manablast
Magnum MAGOO				-	-	-	-	-		
Magnariz PM-32    1295   Part   -     280   Part   -     -     -     -			-	- NI		MM/MC 2L 1T	T.	_	-	MONODIOCKS
Marantz PM-43E				IN		IVIIVI/IVIC,3L,11	IV	N		Monoblocks
Marantz PM-43E   180				N	-	MM.3L 1T	γ	N	42 14 28	INIOI IUUIUUNA
Marantz PM-4581			_	_			Υ	-	, ,	Audiophile components
Marantz MA-500         200 Int. N S 50 MM.3L.2T V S N 42,14.30         V. 42,14.30         D-bus, monoblocks, bridgable Marantz PM-53 S 250 Int. N 8 65 MM.3L.2T V Y Y 42,14,30         V. 42,14,30 Marantz PM-53E S 250 Int. N 8 65 MM.3L.2T V Y Y 42,14,30         V. 42,14,30 Marantz PM-53E S 300 Int. N 8 65 MM.3L.2T V Y N 42,16,34 Audiophile components Marantz PM-63E 300 Int. N 70 MM.MC.3L.2T Y Y V 42,16,34 Audiophile components Marantz PM-63E 450 MM.3L.2T V Y V 42,16,34 Audiophile components Marantz PM-700AV 450 Int. N 100 MM.MC.4L.2T V N 42,14,30 Doby Pro Logic Marantz PM-700AV 450 Int. N 100 MM.MC.4L.2T V N 42,14,30 Doby Pro Logic Marantz PM-700AV 450 Int. N 100 MM.MC.4L.2T V N 42,17,34 Audiophile components Marantz PM-60SE 650 Int. N 110 MM.MC.3L.3T N N 1 A2,17,34 Audiophile components Mark Levinson No.25 599 Pre N - 50 MM.MC.4L.2T N N N 42,17,34 Audiophile components Mark Levinson R2.5 599 Pre N - 100			_	_			Y	-	- ' '	/ daloprillo componento
Marantz PM-538   250				_			Υ	-		
Marantz PM-58SE         300         Int         N         70         MM/MC,3L,2T         Y         N         42,16,34         Audiophile components           Marantz PM-64S         300         Int         N         65         MM/MC,3L,2T         Y         N         42,16,34         Audiophile components           Marantz PM-700AV         450         Int         N         100         MM,5L,2T         Y         Y         42,16,30         Dobty Pro Logic           Marantz PM-806         550         Int         N         100         MM/MC,4L,2T         Y         Y         42,17,34         Dobty Pro Logic           Mark Levinson 26         650         Int         N         110         MM/MC,3L,3T         Y         N         42,17,34         Audiophile components           Mark Levinson 26         5599         Per         Y         MM,3L,2T         N         N         -         -           Mark Levinson 26         5599         Per         N         -         MM,3L,2T         N         N         -         -           Mark Levinson 23.5         7399         Per         N         -         MM,3L,2T         N         N         -         -         -         -	Marantz MA-500	250	Pwr	N	125		-	-	9,15,45	D-bus, monoblocks, bridgable
Marantz PM-54SE         300         Int         N         65         MM/MC/3L,2T         Y         N         42,16,34         Audiophile components           Marantz PM-60II         480         Int         Y         48         MM, SL,2T         Y         Y         42,16,34         Dolby Pro Logic           Marantz PM-80II         480         Int         N         100         MM, MC, AL, ZT         Y         Y         42,10,34         Dolby Pro Logic           Marantz PM-80SE         650         Int         N         100         MM, MC, BL, ZT         N         Y         42,17,34         Audiophile components           Mark Levinson No 25         550         Pre         N         MM, MC, BL, ZT         N         N         -           Mark Levinson 20, 5         5399         Pwr         -         100         MM, MC, BL, ZT         N         N         -           Mark Levinson 20, 6         15790         Pwr         -         100         MM, MC, BL, ZT         N         N         -           Mark Levinson 20, 6         15790         Pwr         -         100         MM, MC, SL, ZT         N         N         -           Mark Levinson 20, 6         15790         Pwr	Marantz PM-53	250	Int		65	the same of the sa	Υ	Υ		
Marantz PM-66         300         Int         V         70         MM.SL.2T         Y         Y         42,14,30         Dotby Pro Logic           Marantz PM-700AV         450         Int         N         100         MM.MCL.2T         Y         Y         42,17,34         Dotby Pro Logic           Mark Levinson Dos         550         Pre         N         100         MM.MCL.2T         N         N         42,17,34         Audiophile components           Mark Levinson Dos         2950         Pre         N         100         N         N         -         -           Mark Levinson 23,5         7399         Pvr         -         100         -         -         -         -           Mark Levinson 23,5         7399         Pvr         -         100         -         -         -         -         -           Mark Levinson 23,5         7399         Pvr         100         -			-		-	And the second s	_	_		
Marantz PM-700AV         450         Int         Y         450         Int         Y         450         Int         Y         Y         Y         42,13,34         Doity Pro Logic           Marantz AV-5005         550         Per         Y         N         Y         N         Y         21,13,34         Doity Pro Logic           Mark Levinson No 25         350         Int         N         Y         N         Y         N         42,17,34         Audiophile components           Mark Levinson 29         3450         Pur         -         100         -         -         -         -         -         -           Mark Levinson 26         5399         Pur         -         100         -	CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE		_	_	-	And the second s				Audiophile components
Marantz PM-80 II         480         Int.         N         100         MM/MC,4L,2T         Y         N         42,17,34         420 by Pro Logic           Marantz PM-808E         650         Int.         N         110         MM/MC,4L,2T         Y         N         42,17,34         Audiophile components           Mark Levinson No 25         599         Pwr         1         50         MM,3L,2T         N         N         -         -         -           Mark Levinson No 26         5450         Pwr         1         50         -	AND DESCRIPTION OF THE PARTY OF			_	_	And and a final design of the second	and the latest designation of the latest des	-	-	Delles Dee Leele
Marantz AV-500         550         Free V.         V.         M. M., TL, ZT.         N.         Y.         42,10,34         Dolby Pro Logic           Marantz PM-80SE         650         N.         N.         10.         MM/MC,3,3T         Y.         N.         42,17,34         Audiophile components           Mark Levinson 29         3450         Pwr.         1.50  Mornal Collegion           Mornal Collegion          Mornal Collegion          Mornal Collegion          Mornal Collegion          Mornal Collegion          Mornal Collegion          Mornal Collegion          Mornal Collegion          Mornal Collegion          Mornal Collegion          Mornal Collegi	STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		_	_	_		-	-		Dolby Pro Logic
Marantz PM-80SE         650         Int         N         110         M/M/MC_3L_3T         Y         N         42,17,34         Audiophile components           Mark Levinson 29         3450         Pwr         50         -	DESCRIPTION OF THE PERSON OF T			N V	100			_		Dollhy Pro Logic
Mark Levinson No 25         2950         Pre Name No 25         No 100			_	N	110	The state of the s		_		
Mark Levinson 29         3450 hr         Pwr         -         500 hr         -			-	-	-		-	Accessed to		Addioprilic components
Mark Levinson No 26         5450         Pre No - 200			_	-	50	-	-	-	-	
Mark Levinson 23.5         7399         Pwr         - 200         Monoblocks, Class A           Mark Levinson 20.6         15790         Pwr         - 100         Monoblocks, Class A           Matisse Reference         3500         Pre         Y MMMC, SL, 2T N N N	Mark Levinson 27.5	5399	Pwr	-	100		-	-	-	
Marks Levinson 20.6         15790         Pwr         -         100         -         6L,2T         N         -         Line stage           Matisse Reference         35000         Pre         Y         -         6L,2T         N         N         -         Line stage           McIntosh MC7100         959         Pwr         N         100         -	Mark Levinson No 26		-	N	-	MM,3L,2T	N	N	-	
Matisse Fantasy         2300         Pre Ver Volume         Model of the Model of the Matisse Reference         3500 Matisse Reference         Model of the Mo	CTATALOGUE AND		_	->	_	-	-	-	(4)	
Matisse Reference         3500         Pre bywr N         100			_	-	100	-	-	-	-	
McIntosh MC7100         959 Pwr McIntosh C712         N. 100 Pre N			_	Y	-	And in column 2 is not a second and	_	_	121	Line stage
MocIntosh C712         1249         Pre No.         N.          GL, 2T         Y.         Y.         Y.          Multi-room, balanced out           MocIntosh MC7150         2159         Pre No.         N.          MM, 5L, 3T         Y.         Y.          Multi-room, balanced out           McIntosh MC7160         2695         Pre No.         N.          MM, 6L, 3T         Y.         Y.          Balanced in/out           McIntosh MC730         295         Pwr No.         100          N.         N.          Sx channel THX amp           McIntosh MC7300         295         Pwr No.         300          N.         N.          Classic valve amp           McIntosh MC2600         5195         Pwr No.         N.         600          N.         N.          Classic valve amp           McIntosh MC1000         8995         Pwr No.         N.         600          N.         N.         N.         Monoblocks           Meridian 561         595         Pwr No.         N.         600          N.         N.         33,9,34         Mcoption         Mcoption </td <td></td> <td></td> <td>_</td> <td>_</td> <td>100</td> <td>IVIIVI/IVIU,5L,21</td> <td>IN</td> <td>IN</td> <td></td> <td></td>			_	_	100	IVIIVI/IVIU,5L,21	IN	IN		
McIntosh C38         1995         Pre Number 150         N.          MM. 5L, 3T         Y.         Y.         Y.         H.         L.         Multi-room, balanced out           McIntosh MC7150         2159         Pwr         N.         150          N.         N.         N.          Multi-room, balanced out           McIntosh MC303         2795         Pre N.         Y.          MM, 10L (6 Vid)         Y.         Y.          Two zone, THX compatable           McIntosh MC7300         2995         Pwr         N.         300          N.         N.          Six channel THX amp           McIntosh MC2750         3595         Pwr         N.         500          N.         N.          Classic valve amp           McIntosh MC2600         5195         Pwr         N.         600          N.         N.          Classic valve amp           McIntosh MC1000         8995         Pwr         N.         600          N.         N.         33,9,34         MC option, system handset           Meridian 551         695         Int         N.          MM,AL,T         Y. </td <td>STREET, STREET, STREET</td> <td></td> <td>-</td> <td>_</td> <td>-</td> <td>6L 2T</td> <td>γ</td> <td>Υ</td> <td>-</td> <td></td>	STREET, STREET		-	_	-	6L 2T	γ	Υ	-	
McIntosh MC7150         2159         Pre Nr Pre N M, 101 (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7					-			_	-	Multi-room, balanced out
McIntosh C40         2695         Pre value         N.          MM, 6L, 3T         Y.         N.          Balanced in/out           McIntosh C39         2795         Pre value         V.          MM, 10L (6 Vid)         Y.         V.          Two zone, ThX compatable           McIntosh MC7300         2995         Pwr.         N.         300          N.         N.          Classic valve amp           McIntosh MC2600         5195         Pwr.         N.         600          N.         N.          Classic valve amp           McIntosh MC2600         5195         Pwr.         N.         600          N.         N.          Monoblocks           Meridian 501         595         Pre.         N.          MM,4L,T.         Y.         N.         33,9,34         MC option, system handset           Meridian 505         595         Pre.         N.          MM,4L,T.         Y.         N.         33,9,34         MC option, system handset           Meridian 501         745         Pre.         N.          MM,4L,T.         Y.         N.         33,9,34         MC	McIntosh MC7150			_	150	-	N	N	(=)	
McIntosh MC7106         2895         Pwr         Y         100          N         N          Six channel THX amp           McIntosh MC7300         2995         Pwr         N         300          N         N          Classic valve amp           McIntosh MC2600         5195         Pwr         N         600          N         N          Monoblocks           McIntosh MC1000         8995         Pwr         N         100          N         N          Monoblocks           Meridian 501         595         Pwr         N         600          N         N         33,9,34         MC option, system handset           Meridian 562         625         Pwr         N         60          N         N         33,9,34         MC option, system handset           Meridian 562         625         Pwr         N         55         MM.AL,T         Y         N         33,9,34         MC option, system handset           Meridian 562         625         Pre         N         -         MM.AL,T         Y         N         33,9,34         MC option, system handset           Meridian				N	-	MM, 6L, 3T	Υ		100	Balanced in/out
McIntosh MC7300         2995         Fwr         N         300          N         N         N          Classic valve amp           McIntosh MC275         3595         Fwr         N         600          N         N          Classic valve amp           McIntosh MC2600         5195         Fwr         N         600          N         N         N         Classic valve amp           McIntosh MC2600         595         Fwr         N         100          N         N         N         Monoblocks           Meridian 501         595         Fwr         N         60         -         N         N         33,9,34         Mc option, system handset           Meridian 562         625         Fvr         N         MB, L, T6D         N         N         33,9,34         Mc option, system handset           Meridian 561         685         Int         N         5         MM, AL, T         V         N         33,9,34         Mc option, system handset           Meridian 562V         825         Fvr         V         -         MM, AL, T         V         N         33,9,34         Mc option, system handset <th< td=""><td></td><td></td><td></td><td>Υ</td><td>-</td><td>MM, 10L (6 Vid)</td><td>Υ</td><td></td><td>100</td><td></td></th<>				Υ	-	MM, 10L (6 Vid)	Υ		100	
McIntosh MC275         3595         Pwr         N         75          N         N          Classic valve amp           McIntosh MC2600         5195         Pwr         N         600          N         N          Monoblocks           Meridian 501         595         Pre         N         -         MM.AL,T         Y         N         33,9,34         MC option, system handset           Meridian 555         595         Pre         N         -         60         -         M.M.BL,T.60         N         N         33,9,34         MC option, system handset           Meridian 551         695         Pre         N         -         60         -         MM.BL,T.60         N         N         33,9,34         MC option, system handset           Meridian 561         695         Int         N         5         MM.AL,T         Y         N         33,9,34         MC option         MC option           Meridian 561V         825         Pre         Y         -         MM.AL,T         Y         N         33,9,34         As 562, plus video switching           Metaxas Charisma         1525         Pre         N         -         MM.MC,3L,T				Υ		-	_	-		Six channel THX amp
McIntosh MC2600         5195         Pwr         N         600						-	-	-		Oleveir
Molntosh MC1000         8995         Pre Nr P			_	-						Classic valve amp
Meridian 501         595         Pre Myr         N          MM,4L,T         Y         N         33,9,34         MC option, system handset           Meridian 555         595         Pwr         -         600         -         N         N         33,9,34         MC option, system handset           Meridian 562         625         Pre         N         -         MM,8L,T,6D         N         N         33,9,34         Igital main out. MC option           Meridian 561         695         Int         N         5         MM,4L,T         Y         N         33,9,34         MC option           Meridian 562V         825         Pre         Y         -         MM,4L,T         Y         N         33,9,34         As 501, plus video switching           Meridian 601         250         Pre         N         -         MM,4L,T         Y         -         Deptone control, MC option           Metaxas Karus II         1350         Int         N         4         4         M,4M,L,T         N         N         40,740         Deptone control, MC option           Metaxas Karus II         1350         Int         N         4         4         M,4MMC,3L,2T         -         N         2,51,42				_	_	-	-		(=)	Monoblocks
Meridian 555         595         Pwr         -         60         -         N         N         33,9,32         Stereo           Meridian 562         625         Pre         N         -         MM,8L,T,6D         N         N         33,9,34         Digital main out. MC option           Meridian 551V         745         Pre         Y         -         MM,4L,T         Y         N         33,9,34         MC option           Meridian 562V         825         Pre         Y         -         MM,4L,T         Y         N         33,9,34         As 501, plus video switching           Meridian 601         2750         Pre         N         -         MM,8L,T,6D         N         N         33,9,34         As 562, plus video switching           Metaxas Karus II         1350         Pre         N         -         MM/MC,3L,2T         N         40,740         Metaxas Charisma         1525         Pre         N         -         MM/MC,3L,2T         -         N         29,745         Separate PSU           Metaxas Solitaire         2350         Pre         N         -         MM/MC,3L,2T         -         N         29,745         Separate PSU           Metaxas Solitaire         2300					-	MM.4LT		-	33.9.34	
Meridian 562         625 byte         N         -         MM.BL.T.6D         N         N         33,9,34         Digital main out. MC option           Meridian 551         695 byte         Int         N         55         MM.AL.T         V         -         33,9,34         Mcoption           Meridian 561V         825 byte         Y         -         MM.AL.T         Y         N         33,9,34         As 561, plus video switching           Meridian 601         2750 byte         Pre         N         -         MM.AL.T         Y         Y         -         DSP tone control, MC option           Metaxas Ikarus II         1350 byte         Int         N         40         MMMC,3L,2T         N         N         40,740         Sperate PSU           Metaxas Irakis         1625 byte         Pre         N         -         MM/MC,3L,2T         -         N         29,745         Separate PSU           Metaxas Solitaire         2350 byte         Pre         N         -         MM/MC,3L,2T         -         N         29,745         Separate PSU           Metaxas Soliticire         2500 byte         N         100 byte         -         MM/MC,3L,2T         -         N         39,745         Separate PSU	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		_	-	60	-	_	-		
Meridian 551         695         Int.         N         55         MM,4LT         Y         N         33,9,34         MC option           Meridian 561V         745         Pre         Y         -         MM,4LT         Y         N         33,9,34         As 501, plus video switching           Meridian 562V         825         Pre         N         -         MM,4LT         Y         Y         -         DSP tone control, MC option           Metaxas Ikarus II         1350         Int.         N         4         MM/MC,3L,1T         N         4         40,740         DSP tone control, MC option           Metaxas Irakiis         1625         Pre         N         -         MM/MC,3L,2T         -         N         36,6,29         Separate PSU           Metaxas Srikiis         1625         Pre         N         -         MM/MC,3L,2T         -         N         2,97,45         Separate PSU           Metaxas Solidare         2350         Pre         N         -         MM/MC,3L,2T         -         N         39,745         Separate PSU           Michell Argo         5990         Pre         N         100         -         -         N         39,745         Separate PSU			_	N	-	MM,8L,T,6D	_	_		
Mendian 562V         825         Pre very land of the properties of the propert					55					
Meridian 601         2750         Pre Nt					-		-	_		As 501, plus video switching
Metaxas Ikarus II         1350         nt.         N.         40         MMMC,3L,1T         N.         40,740         40,740         Separate PSU           Metaxas Charisma         1625         Pre         N.         -         MMMC,3L,2T         -         N.         36,629         Separate PSU           Metaxas Kariquis         2250         Pre         N.         -         MMMC,3L,2T         -         N.         29,745         Separate PSU           Metaxas Solidare         2350         Pwr         N.         130         -         -         N.         39,745         Separate PSU           Metaxas Solidouy         590         Pwr         N.         100         -         -         N.         39,745         Separate mains isolated PSU           Michell Iso         393         Pre         N.         -         MM or MC         N.         N.         39,745         Separate mains isolated PSU           Michell Alego         689         Pre         N.         -         MM or MC         N.         N.         331,719         2 pairs outputs           Michell Alecto Stereo         150         Pwr         N.         50         -         N.         N.         32,20,36         -			-		-		N	_	33,9,34	As 562, plus video switching
Metaxas Charisma         1525         Per More No.         N.          MMMC,3L,2T.          N.         36,6,29         Separate PSU           Metaxas Varquis         250         Pwr.         N.         50            43,18,37         Separate PSU           Metaxas Solitiare         2350         Pwr.         N.         130          M.         29,7,45         Separate PSU           Metaxas Opulence         5500         Pre.         N.         100          MMMC,3L,2T          N.         39,7,45         Separate mains isolated PSU           Michell Iso         3990         Pwr.         N.         100          MM or MC         N.         N.         39,7,45         Separate mains isolated PSU           Michell Iso         990         Pwr.         N.         100          MM or MC         N.         N.         small         Phono stage           Michell Iso HR         850         Pre.         N.          3L,1T         N.         N.         332,19         2 pairs outputs           Michell Aget More Iso         150         Pwr.         N.         50			_		-		Y	_	40 7 40	USP tone control, MC option
Metaxas Iraklis         1625         Pwr Number         N. Source         MMMMC,3L,2T         V. N. 29,7,45         Separate PSU           Metaxas Solitaire         2350         Pwr Number         N. Source         V. MMMMC,3L,2T         V. Source         297,45         Separate PSU           Metaxas Solitaire         590         Pwr Number         N. Source         V. Source         <				_	40		IV	-		Sonarato PCII
Metaxas Marquis         2250         Pre Number Numb					50	- WIWWW,3L,21		IN .		ουμαιαιε του
Metaxas Solitaire         2350         Pwr         N         130           52,19,42         Separate mains isolated PSU           Metaxas Opulence         5500         Pre         N          MM/MC,3L,2T          N         39,7,45         Separate mains isolated PSU           Michell So         393         Pre         N          MM or MC         N         N         small         Phono stage           Michell Argo         689         Pre         N          3L,1T         N         N         33,7,19         2 pairs outputs           Michell Alecto Stereo         1150         Pwr         N         5-         3L,1T         N         N         332,20,36           Michell Argo HR         1300         Pre         N          3L,1T         N         N         32,20,36         2           Michi RHC-10         795         Pre         N          3L,1T         N         N         32,20,36         2           Michi RHG-10         995         Pre         N          SL          N         N         32,20,36         2         2 pairs outputs           Michi RHG-10			_		-	MM/MC.3L 2T		N		Separate PSU
Metaxas Opulence         5500         Pre Number         N.          MM/MC,3L,2T          N.         39,7,45         Separate mains isolated PSU Michael Science           Michell Iso         3990         Pwr Number         100           52,19,42         Pair monoblocks           Michell Iso         397         Pe Number          Mm or MC         Number				_	130	-		-		
Metaxas Solifoquy         5990         Pwr         N         100           5-         52,19,42         Pair monoblocks           Michell So         333         Pre         N          MM or MC         N         N         small         Phono stage           Michell So HR         650         Pre         N         -         Mm or MC         N         N         33,7,19         2 pairs outputs           Michell Alecto Stereo         1150         Pwr         N         5         -         Mm or MC         N         N         32,20,36         -           Michell Argo HR         1300         Pre         N         -         31,11         N         N         32,20,36         -           Michell Alecto Mono         1879         Pre         N         -         31,11         N         N         36,22         2 pairs outputs           Michi RHC-10         955         Pre         N         -         5L         -         47,834         Passive           Michi RHB-10         1550         Pwr         N         -         5L         -         -         47,19,37         Prono equaliser           Michi RHB-10         1550		_			-	MM/MC,3L,2T	-	N		Separate mains isolated PSU
Michell Argo         689 Pre No. John Michell So HR         N. John Mor MC	Metaxas Soliloquy	5990	Pwr	_	100	-	-	-		
Michell Iso HR         850         Per Number         N         -         MM or MC         N         N         Small         Phono stage           Michell Alecto Stereo         1150         Pwr         N         50         -         N         N         32,20,36         -           Michell Alecto Mono         1879         Pwr         N         100         -         N         N         32,20,36         -           Michi RHC-10         795         Pre         N         100         -         SL         -         47,834         Passive           Michi RHA-10         995         Pre         N         -         MLMMC         -         47,834         Phono equaliser           Michi RHA-10         995         Pre         N         -         MLMMC         -         47,834         Phono equaliser           Michi RHB-10         1550         Pwr         N         200         -         -         47,19,37         47,19,37           Mission Cyrus III         500         MM,511         Y         N         22,836         PSX-R outboard PSU option			_	_	-	The second secon	_	-		
Michell Alecto Stereo         1150 Pwr Name         N Solution         9 Solution         N Solution         N Solution         9 Solution	Control of the Contro		-		-					
Michell Argo HR         1300         Pre N         N         -         SL,1T         N         N         36,822         2 pairs outputs           Michell Alecto Mono         1879         Pre N         N         100         -         N         N         32,20,36         Passive           Michi RHC-10         955         Pre N         N         -         SL         -         -         47,834         Passive           Michi RHA-10         995         Pre N         N         -         SL         -         47,834         Phono equaliser           Michi RHB-10         1550         Pwr N         N         200         -         -         -         47,19,37         -         Active           Mission Cyrus III         500         III.         N         50         MM,5L,1T         Y         N         22,836         PSX-R outboard PSU option			_		-	MM or MC				Phono stage
Michell Alecto Mono         1879         Pwr         N         100          N         N         32,20,36          Alector           47,834         Passive           Michi RHG-10         995         Pre         N         -         MLC         -         -         47,834         Phono equaliser           Michi RHA-10         995         Pre         N         -         5L         -         -         47,834         Active           Michi RHB-10         1550         Pwr         N         200         -         -         -         4,719,37           Mission Cyrus III         500         III         N         50         MM,5L,1T         Y         N         22,836         PSX-R outboard PSU option			-	_	50	- 2L 1T	-	and the second		2 naire outoute
Michi RHC-10         795         Pre N Pre			-		100	3L, 11	-	Accordance -		2 pairs outputs
Michi RHQ-10         995 Pre No. 1         N. 2         MM,MC          47,834         Phono equaliser           Michi RHA-10         995 Pre No. 2         N. 3         5L          Y. 47,834         Active           Michi RHB-10         1550 Nu. 1         N. 200 Nu. 2           47,19,37            Mission Cyrus III         500 Nu. 2         NM,5L,1T         Y. N. 22,8,36         PSX-R outboard PSU option			-	_	-	51	- 14	- 14		Passive
Michi RHA-10         995 Pre No. 1550         N - SL         - Y 47,834         Active           Michi RHB-10         1550 Pwr No. 1550         N 200 No. 1550         N No. 1550         - N No. 155	CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE	_			-		-	-		
Michi RHB-10         1550 Pur Int         N South         200 Pur Int         - Pur Int			_	_	0		-	Υ		
	Michi RHB-10	1550	-	N			-	-		
Moth 30 Passive 149 Pre N - 3L,1T N N -	The second secon		-	-	50			and the same of	22,8,36	PSX-R outboard PSU option
	Moth 30 Passive	149	Pre	N	-	3L,1T	N	N	-	

Model         Breath           AMPLIFIERS           Moth 30 RIAA         199         Pre           Moth 30 Series Power         239         Prw           Moth 30 Active         249         Pre           Moth 30 Active         299         Pre           Moth 30 Active 100VA         349         Pre           Muss-Fid The Preamp         219         Pre           Muss-Fid Typhoon         349         Pre           Muss-Fid Typhoon         349         Pre           Muss-Fid Typhoon         349         Pre           Muss-Fid Typhoon         349         Pre           Mussical Fidelity ATC         549         Int           Musical Fidelity F22         999         Pre           Musical Fidelity F15         1899         Pwr           Musical Fidelity F15         1899         Pwr           NAD 302         169         Int           NAD Monitor 1000         199         Pre           NAD Monitor 2100         199         Pre           NAD Monitor 200         329         Pwr           NAD Monitor 200         329         Pwr           NAD Monitor 200         329         Pwr	Se .		Po	<u> </u>	ız	lä I		
Moth 30 RIAA         199         Pre           Moth 30 Series Power         239         Pwr           Moth 30 Active         249         Pre           Moth 30 Active 100VA         349         Pre           Mus Fid The Preamp         219         Pre           Mus Fid Top Preamp         349         Pre           Mus Fid Typhoon         349         Pre           Mus Fid Typhoon         349         Pwr           Musical Fidelity A13         349         Pwr           Musical Fidelity A165         950         Pwr           Musical Fidelity F15         1999         Pwr           Musical Fidelity F15         1899         Pwr           Musical Fidelity F15         1899         Pwr           Musical Fidelity F18         3999         Pwr           NAD 302         169         Int           NAD 304         229         Pwr           NAD 304         229         Pwr           NAD 306         329         Int           NAD 307         349         Pre           NAD Monitor 200         459         Pwr           NAD Monitor 200         459         Pwr           NAD Monitor 200         459		Price	Power	Inputs	Headphones	Remote	Size	Special
Moth 30 Series Power         239         Pwr           Moth 30 Active         249         Pre           Moth 30 Active         249         Pre           Moth 30 Active         100VA         399         Pre           Mush 30 Active         100VA         399         Pre           Mush 30 Active         100VA         399         Pre           Mush 30 Active         100VA         399         Pre           Muss 47 Fid Preamp         349         Pre           Muss 57 Typhoon         349         Pre           Musical Fidelity F12         999         Pre           Musical Fidelity F22         999         Pre           Musical Fidelity F15         1899         Pwr           Musical Fidelity F18         3999         Pwr           Musical Fidelity F18         3999         Pwr           NAD 302         169         Int           NAD 304         NaD         299         Pwr           NAD 3034         229         Int           NAD 306         329         Int           NAD Monitor 200         329         Pwr           NAD Monitor 2700         459         Pwr           NAD Monitor 2700	1.0	400		101110	N	N		
Moth 30 Active         249         Pre Moth 30 RIAA 100VA         299         Pre Moth 30 RIAA 100VA         299         Pre Moth 30 RIAA 100VA         349         Pre Moth 30 RIAA 100VA         349         Pre Moth 30 RIAA 100VA         349         Pre Musical Fidelity A1 3         329         Int Moth 30 RIA 100VA         349         Pre Musical Fidelity F15         Mus Fid Typhoon         349         Pwr Musical Fidelity F12         999         Pwr Musical Fidelity F12         999         Pwr Musical Fidelity F15         1899         Pwr Musical Fidelity F15         <	N		30	MM/MC,	IV	IN		
Moth 30 RIAA 100VA         299         Pre           Moth 30 Active 100VA         349         Pre           Mus-Fid The Preamp         349         Pre           Mus-Fid Treamp 8         349         Pre           Mus-Fid Preamp 8         349         Pre           Mus-Fid Preamp 8         349         Pre           Musical Fidelity A120         549         Int           Musical Fidelity F15         1999         Pre           Musical Fidelity F15         1999         Pwr           Musical Fidelity F15         1899         Pwr           Musical Fidelity F18         3999         Pwr           NAD 302         169         Int           NAD Monitor 1000         199         Pwr           NAD 302         169         Int           NAD 304         229         Int           NAD 306         329         Pwr           NAD Monitor 200         499         Pwr           NAD Monitor 208         799         Pwr           NAD Monitor 208         799         Pwr           NAD 306         329         Int           NAD 406         405         Pre           Naim NAC92         405         Pwr	N		30	4L,1T	N	N		
Moth 30 Active 100VA         349         Pre Mus-Fid The Preamp         219         Pre Mus-Fid The Preamp         219         Pre Mus-Fid The Preamp         219         Pre Mus-Fid The Preamp         329         Int Mus-Fid Preamp 8         349         Pre Mus-Fid Typhoon         349         Pwe Mus-Fid Typhoon         349         Pwe Mus-Fid Typhoon         349         Pwe Mus-Fid Typhoon         349         Pwe Musical Fidelity A120         549         Int Musical Fidelity F120         Pwe Musical Fidelity F12         1099         Pwe Musical Fidelity F15         1099         Pwe Musical Fidelity F15         1899         Pwe Musical Fidelity F15         1899         Pwe Musical Fidelity F16	N		-	MM/MC	N	N		
Mus-Fid The Preamp         219         Pre           Mus-Fid Preamp 8         349         Pre           Mus-Fid Typhoon         349         Pwr           Mus-Fid Typhoon         349         Pwr           Musical Fidelity MA65         950         Pwr           Musical Fidelity F22         999         Pre           Musical Fidelity F15         1899         Pwr           Musical Fidelity F15         1899         Pwr           Musical Fidelity F18         3999         Pwr           NAD 302         169         Int           NAD Monitor 1000         199         Pvr           NAD 304         229         Int           NAD Monitor 2100         299         Pwr           NAD Monitor 2100         399         Pre           NAD Monitor 200         399         Pwr           NAD Monitor 2700         459         Pwr           NAD Monitor 2700	N		-	4L,1T	N	N	-	
Mus-Fid Preamp 8         349         Pre Mus-Fid Typhoon         349         Pwr Int.           Mus-Fid Typhoon         349         Pwr Int.         Musical Fidelity A120         549         Int.           Musical Fidelity A120         549         Int.         Musical Fidelity FS         1999         Pwr           Musical Fidelity FX         1099         Pwr         Musical Fidelity F15         1899         Pwr           Musical Fidelity F18         3999         Pwr         NAD 302         169         Int.           NAD 302         169         Int.         NAD Monitor 1000         199         Pwr           NAD Monitor 200         299         Pwr         NAD 306         329         Int.           NAD 306         329         Int.         NAD 306         329         Pwr           NAD Monitor 200         405         Pwr         NAD 406         Pwr         NAD 406         Pwr           NAD Monitor 200         405         Pwr         NAD 406         Pwr         Pwr           NAD 306         329         Pwr         NAD 406         Pwr         Pwr         NAD 406         Pwr         Pwr         NAD 406         Pwr         Pwr         NAD 406         Pwr         Pwr	N		-	4L,2T	N	N	44,8,32	XLR, opt phono/digital board
Musical Fidelity A120 Musical Fidelity MA65 Musical Fidelity F22 Musical Fidelity F22 Musical Fidelity F27 Musical Fidelity F15 Musical Fidelity F16 Musical Fidelity F16 Musical Fidelity F18 NAD 302 NAD Monitor 1000 NAD Monitor 1000 NAD Monitor 200 NAD Monitor	N	329	25	MM,MC,3L,1T	N	N	41,6,25	Near Class A, tape monitor
Musical Fidelity A120 549 Int Musical Fidelity AA65 950 Pwr Musical Fidelity F22 999 Pre Musical Fidelity F22 999 Pre Musical Fidelity F15 1999 Pwr NAD 302 169 Int NAD Monitor 1000 199 Pwr NAD 304 NAD Monitor 2100 299 Pwr NAD 306 329 Int NAD Monitor 2700 459 Pwr NAD Monitor 2700 479 Pwr NAIM NAC 2 405 Pre NAD MONITOR 2700 190 Pwr NAIM NAC 2 405 Pre NAIM NAC 2 407 Pwr NAIM NAC 2 407 Pwr NAIM NAC 2 407 Pre NAIM NA P-20 340 Int NA P-20 340 Int NA P-20 340 Pre NA P-35CD 450 Int NA AC 3 400 Pre Pre Pre NA AC 3 400 Pre Pre Pre NA AC 3 400 Pre Pre Pre Pre NA AC 3 400	N	349	-	MM/MC,3L,1T	N	N	41,6,25	Tape monitor, chrome finish
Musical Fidelity MA65         950         Pwr           Musical Fidelity F22         999         Pre           Musical Fidelity F2         1099         Pwr           Musical Fidelity F15         1899         Pwr           Musical Fidelity F15         1899         Pwr           Musical Fidelity F18         3999         Pwr           NAD 302         169         Int           NAD Monitor 1000         299         Pwr           NAD 304         229         Int           NAD Monitor 2100         299         Pwr           NAD Monitor 2100         399         Pwr           NAD Monitor 200         459         Pwr           NAD Monitor 208         799         Pwr           NAI MAP907         375         Pwr           NAI MAP908         398         Pwr           NAI MAP908         398         Pwr           Naim NAP180         898         Pwr           Naim NAC52         480         Pre           Naim NAC52         4741         Pr	N	349	45	-	9	-	44,8,32	XLR in, bridgeable
Musical Fidelity F22         999         Pre           Musical Fidelity FX         1099         Pwr           Musical Fidelity F15         1899         Pwr           Musical Fidelity F15         1899         Pwr           Musical Fidelity F18         3999         Pwr           Mus Cal Fidelity F18         3999         Pwr           NAD 302         169         Int           NAD Monitor 1000         299         Pwr           NAD Monitor 2100         299         Pwr           NAD Monitor 2700         349         Pwr           NAD Monitor 2700         459         Pwr           NAD Monitor 208         799         Pwr           NAD Monitor 208         799         Pwr           NAI MAD Monitor 208         405         Pwr           Naim MAP35         426         Pre           Naim MAP35         1424         Pwr           Naim MAP35         1424         Pwr           Naim MACS2 </td <td>N</td> <td></td> <td>40</td> <td>MM/MC,3L,2T</td> <td>N</td> <td>N</td> <td>44,10,35</td> <td>Class A</td>	N		40	MM/MC,3L,2T	N	N	44,10,35	Class A
Musical Fidelity XT         1099         Nur           Musical Fidelity A1000         1399         Int           Musical Fidelity F15         1899         Pur           Musical Fidelity F18         3999         Pur           NAD 302         169         Int           NAD 304         229         Int           NAD 304         229         Int           NAD Monitor 1000         319         Pre           NAD 306         329         Int           NAD Monitor 2700         459         Pur           NAD Monitor 28         499         Pur           NAD Monitor 2700         459         Pur           NAD Monitor 28         405         Pre           NAIM NAC92         405         Pre           Naim NAC92         405         Pre           Naim NAC92         405         Pre           Naim NAP135         1424         Pur           Naim NAP250         1424         Pur           Naim NAC52         4741         Pre           Nakamichi IA2         600         Int           Nakamichi IA3         350         Int           NVA P-50         260         Pre           <	N		65		-	2	41,6,25	Class A
Musical Fidelity A1000  Musical Fidelity F15  Musical Fidelity F15  NAD 302  NAD 302  NAD Monitor 1000  NAD Monitor 1000  NAD Monitor 2100  NAD Monitor 2100  NAD Monitor 2700  NAIM NACS2	N		-	5L,1T	N	Υ	49,12,33	Optional phono/digital board
Musical Fidelity F15   1899   Pwr   Musical Fidelity F18   3999   Pwr   Musical Fidelity F18   3999   Pwr   NAD 302   169   int   NAD 302   169   int   NAD 3034   229   int   NAD Monitor 1000   299   Pwr   NAD Monitor 1000\$   319   Pre   NAD Monitor 2100   459   Pwr   NAD Monitor 2700   459   Pwr   NAD Monitor 2700   459   Pwr   NAD Monitor 208   799   Pwr   NAI MAP90/3   375   Pwr   NAIm NAP90/3   375   Pwr   NAIm NAP90/3   375   Pwr   NAIm NAP140   634   Pwr   Naim NAP140   634   Pwr   Naim NAP135   1424   Pwr   Naim NAP135   1424   Pwr   Naim NAP250   1424   Pwr   Naim NAC52   4741   Pre   Naim NAC52   4741   Pre   Naim NAC52   4741   Pre   Naim NAC52   4741   Pre   Naim NAP   750   Int   NWA P-50   260   Pre   NWA AP-20C   290   Int   NWA P-90   340   Pre   NWA AP-35C   450   Int   NWA P-90   340   Pre   NWA AP-35C   450   Int   NWA P-35   500   Int   NWA AP0   470   Pwr   NWA TS   Pwr   P	N N		90 50	- AMMANAC OL 1T	- N	N	49,12,38 49,13,36	Ball/unbalanced in Separate PSU
Musical Fidelity F18         3999         Pwr.           NAD 302         169         Int           NAD 302         169         Int           NAD Monitor 1000         199         Pre           NAD Monitor 2100         299         Pwr           NAD Monitor 1000S         319         Pre           NAD 306         329         Int           NAD Monitor 2700         459         Pwr           NAD Monitor 208         799         Pwr           Naim NAP303         375         Pwr           Naim NAP22         405         Pre           Naim NAP140         634         Pwr           Naim NAP180         898         Pwr           Naim NAP135         1424         Pwr           Naim NAP250         1424         Pwr           Naim NACS2         488         Pre           Naim NACS2         4741         Pre           Naim NACS2	N		100	MM/MC,3L,1T	14	IN	49,19,38	Bal/unbalanced in/hybrid
NAD 302	N		220		-		49,19,67	Bal/unbalanced in/hybrid
NAD Monitor 1000         199         Pre           NAD 304         229         Int           NAD Monitor 2100         299         Pvr           NAD Monitor 2008         329         Int           NAD Monitor 2700         459         Pvr           NAIM NAD 400         634         Pvr           Naim NAC22         405         Pre           Naim NAP140         634         Pvr           Naim NAP180         898         Pvr           Naim NAC21         1880         Pvr           Naim NAC22         1880         Pre           Naim NAC32         1880         Pre           Naim NAC32         1880         Pre           Naim NAC32         1800         Int           Naim NAC32         1800         Int           Naim NAC32         4741         Pvr           Naim NAC32         4741         Pvr           Nakamichi IA1         750         Pre           NVA P	N		25	MM.3L.2T	Υ	N	-	baranbalancea ilirityona
NAD 304         229         int           NAD Monitor 2100         299         Pwr           NAD Monitor 1000S         319         Pre           NAD Monitor 2700         459         Pwr           NAD Monitor 2700         459         Pwr           NAD Monitor 208         799         Pwr           Naim NAP90/3         375         Pwr           Naim NAP90/3         375         Pwr           Naim NAP140         634         Pwr           Naim NAP135         1424         Pwr           Naim NAP135         1424         Pwr           Naim NAC52         480         Pre           Naim NAC52         4741         Pre           Nakamichi IA3         350         Int           Nakamichi IA3         350         Int           NAVA P-50         260         Pre           NWA P-50         260         Pre           NWA P-90         340         Int           NWA P-90         340         Int           NWA P-93         40         Int           NWA AP-35         500         Int           NWA AP-35         500         Int           NWA AP-35         500 <td>N</td> <td></td> <td>-</td> <td>MM/MC,3L,2T</td> <td>Y</td> <td>N</td> <td></td> <td></td>	N		-	MM/MC,3L,2T	Y	N		
NAD Monitor 2100         299         Pvr           NAD Monitor 1000S         319         Pre           NAD 306         329         Int           NAD Monitor 2700         799         Pvr           NAD Monitor 208         799         Pvr           NAIM NAP90/3         375         Pvr           Naim NAC92         405         Pre           Naim NAC92         405         Pre           Naim NAP140         634         Pvr           Naim NAP135         1424         Pvr           Naim NAP135         1424         Pvr           Naim NAC52         1880         Pre           Naim NAC52         4741         Pre           Naim NAC52         4741         Pre           Naim NAC52         4741         Pre           Nakamichi IA3         350         Int           Nakamichi IA1         750         Int           NWA P-50         260         Pre           NWA P-20C         340         Int           NWA P-20         340         Int           NWA P-3         450         Int           NWA P-90         340         Pre           NWA TSS (Pre)         420 <td>N</td> <td></td> <td>35</td> <td>MM,4L,2T</td> <td>Y</td> <td>N</td> <td></td> <td></td>	N		35	MM,4L,2T	Y	N		
NAD Monitor 1000S         319         Pre           NAD 306         329         Int           NAD Monitor 2700         459         Pwr           NAD Monitor 208         799         Pwr           Naim NAP90/3         375         Pwr           Naim NAC72         622         Pre           Naim NAP140         634         Pwr           Naim NAP180         898         Pwr           Naim NAP155         1424         Pwr           Naim NAP250         1424         Pwr           Naim NAC52         4741         Pre           Nakamichi IA3         350         Int           Nakamichi IA3         350         Int           NAVA P-50         260         Pre           NVA P-50         260         Pre           NVA P-20         340         Int           NVA P-20         340         Pre           NVA AP-20         340         Pre           NVA AP-35CD         450         Int           NVA AP-35CD         450         Int           NVA AP-35         500         Int           NVA AP-35         500         Int           NVA TIS         1100			60	-		-	-	
NAD 306  NAD Monitor 2700  NAD Monitor 2700  NAD Monitor 2708  NAD Monitor 2708  NAD Monitor 2708  NAD Monitor 2708  Per NAD Monitor 2708  NAD Monitor 2708  Per NAD Monitor 2708  NAD Monitor 2708  Per NAD Monitor 2708  NASIM NAP90/3  NASIM NAP140  NASIM NAP140  NASIM NAP135  NALE PRIVATION 1424  Per NASIM NAC52  NASIM NAC53  NAC54  NAC54  NAC54  NAC54  NAC55  NAC54  NAC55  NAC5	N		-	MM/MC,3L,2T	Υ	N	-	
NAD Monitor 2700	N		50	MM,4L,2T	Υ	N	-	
NAD Monitor 208         799         Pvr.           Naim NAP90/3         375         Pwr           Naim NAC92         405         Pre           Naim NAC12         622         Pre           Naim NAP140         634         Pwr           Naim NAP180         898         Pwr           Naim NAP135         1424         Pwr           Naim NAC52         1880         Pre           Naim NAC52         1880         Pre           Naim NAC62         1880         Pre           Naim NAC62         4741         Pre           NWA P-50         260         Pre           NWA P-20         340         Int           NWA P-90         340         Pre           NWA AP-35         500 <td< td=""><td>-</td><td></td><td>150</td><td>4</td><td></td><td>-</td><td>-</td><td>THX approved</td></td<>	-		150	4		-	-	THX approved
Naim NAP90/3         375         Pvr           Naim NAC92         405         Pre           Naim NAC72         622         Pre           Naim NAP140         634         Pvr           Naim NAP180         898         Pvr           Naim NAP155         1424         Pvr           Naim NAP250         1424         Pvr           Naim NAC52         1880         Pre           Nakamichi IA3         350         Int           Nakamichi IA2         600         Int           Nakamichi IA1         750         Int           NVA P-50         260         Pre           NVA P-20         340         Int           NVA P-20         340         Int           NVA P-20         340         Int           NVA P-20         340         Pre           NVA TSS (Pre)         420         Pre           NVA ABO         760         Pvr           NVA ABO         760         Pvr           NVA ABO         760         Pvr           NVA TIS         1100         Int           NVA TIS         100         Int           NVA TUS         300         Pvr			250	<b>4</b>	-	-	-	THX approved
Naim NAC72 622 Pre Naim NAP140 634 Pwr Naim NAP140 634 Pwr Naim NAP135 1424 Pwr Naim NAP250 1424 Pwr Naim NAP250 1424 Pwr Naim NAP250 1424 Pre Naim NAC52 1880 Pre Naim NAC52 4741 Pre Nakamichi IA3 350 Int Nakamichi IA3 350 Int Nakamichi IA1 750 Int NVA P-50 260 Pre NVA AP-20C0 290 Int NVA AP-20C0 490 Int NVA AP-35 100 Int NVA AP-35 500 Int NVA TSS (Pre) 420 Pre NVA TSS (Pre) 420 Pre NVA TSS (Pre) 420 Int NVA AP-35 500 Int NVA AP-35 500 Int NVA AP-35 500 Int NVA AP-35 500 Int NVA TSS (Pre) 3300 Pwr NVA TSS (Pre) 3300 Pwr NVA TSS (Pre) 3300 Int Onix OA24 400 Pre Onix OA24 400 Pre Onix OA24 400 Pre Onix OA251 430 Int Onix OA601 699 Pwr Onix OA601 699 Pwr Onix OA801 200 Int Onkyo A803 260 Int Onkyo A804 270 Int Onkyo A806 270 Int On	-	_	30	- 5	-	-	32,56,30	Latest style. Suits 92
Naim NAP140         634         Pwr           Naim NAP180         898         Pwr           Naim NAP185         1424         Pwr           Naim NAP250         1424         Pwr           Naim NACS2         1880         Pre           Naim NACS2         4741         Pre           Nakamichi IA3         350         Int           Nakamichi IA2         600         Int           NAVA P-50         260         Pre           NVA P-20CD         290         Int           NVA P-20         340         Int           NVA P-30         340         Pre           NVA P-90         340         Int           NVA P-91         340         Pre           NVA P-95         420         Pre           NVA AP-35         500         Int           NVA AP35         500         Int           NVA AP35         500         Int           NVA TO         470         Pwr           NVA TIS         1100         Int           NVA TIS         1100         Int           NVA TIS         1100         Int           NVA TIS         1100         Int	N	405	-	5 (L or T)	N	N	44,56,30	Latest style. Suits 90/3
Naim NAP180 898 Pvr Naim NAP135 1424 Pvr Naim NAP250 1424 Pvr Naim NAP250 1424 Pvr Naim NAC52 1880 Pre Naim NAC52 4741 Pre Naim Naim Naim Naim Naim Naim Naim Naim	N	622	-	2MM/MC, L,2T	N	N	21,76,30	Ugradable with PSU, MC I/F
Naim NAP135	-		45	-	*	-	21,76,30	
Naim NAP250	-		60	-	-	7	43,76,30	
Naim NAC82	-		70	7	7	-	43,76,30	
Nalm NAC52	-		70	-	-	-	43,76,30	
Nakamichi IA3 350 Int Nakamichi IA2 600 Int Nakamichi IA1 750 Int Nakamichi IA1 750 Int Nakamichi IA1 750 Int Nay AP-20 200 Int Nay AP-20 340 Int Nay AP-20 340 Int Nay AP-20 340 Int Nay AP-20 340 Int Nay AP-35 500 Int Nay AP-35	N		-	6 (L or T)	N	Υ	43,76,30	
Nakamichi IA2 Nakamichi IA1 Nakamichi IA1 Nakamichi IA1 Nova P-50 Nova P-50 Nova P-20 Nova AP-20 Nova AP-35 Nova AP-36 No	N		-	6 (see note)	N	Υ	43,76,30	Optional phono board
Nakamichi IA1	N		40	3L,2T	N	N	43,7,32	
NVA P-50  NVA P-20CD  NVA AP-20CD  290 Int.  NVA AP-20CD  340 Int.  NVA P-90  340 Int.  NVA P-90  340 Int.  NVA P-90  340 Int.  NVA P-90  AVO Pere  NVA AP-35CD  NVA AP-35CD  NVA APO  NVA TIS  1100  Int.  NVA TIS  1100  Int.  NVA TIS  2600  Pwr  NVA TIS  2600  Pwr  NVA TIS  NVA TIS  2600  Pwr  NVA TIS  NVA TI	N		50	MM/MC,3L,2T	Υ	Υ	43,12,36	
NVA AP-20CD  NVA AP-20  NVA AP-20  NVA AP-20  NVA P-90  NVA AF-35(Pre)  NVA AP-35CD  NVA AP-35   NVA AP-35  NVA AP-35  NVA AP-35  NVA AP-35  NVA AP-35  NVA AP-35  NVA AP-35  NVA AP-36  NVA TIS	N		80	MM/MC,3L,2T	Υ	Υ	43,12,36	
NVA AP-20 340 int NVA AP-30 340 pre NVA AP-90 340 pre NVA AP-90 340 pre NVA AP-35CD 450 int NVA AP-35CD 450 int NVA AP-35CD 470 pwr NVA AP-35CD 470 pwr NVA AP-35 500 int NVA AP-35 500 int NVA AP-35 500 int NVA AP-35 500 int NVA TS 1100 int NVA TS 2600 pwr NVA TS 2600 pwr NVA TS (Power) 3300 pwr NVA TS (Power) 3300 pwr NVA TS (Power) 3300 pwr NVA TS (Power) 3400 pw	N N		30	3L,1T	N N	N	-	
NVA P-90  NVA P-90  NVA SS (Pre)  420  Pre  NVA AP-35CD  450  Int  NVA AP0  NVA AB0  760  Pwr  NVA TS  NVA TS  100  NVA	N		30	3L,1T MM/MC.3L.1T	N	N N	-	
WA TSS (Pre)         420         Pre           NVA AP-35CD         450         Int           NVA A60         470         Pwr           NVA A70         470         Pwr           NVA A70         470         Pwr           NVA A70         470         Pwr           NVA A70         470         Pwr           NVA A80         760         Pwr           NVA TS         5000         Pwr           NVA TSS         2600         Pwr           NVA TUS         5000         Pwr           Onix OA30         300         int           Onix OA24         400         Pre           Onix OA31         430         Int           Onix OA31         480         Int           Onix OA801         200         Int           Onix OA801         200         Int           Onkyo A803         260         Int           Onkyo A911         350         Int           Orelle SC-200         400         Pre           Papworth PA66         0         Pre           Papworth MA00         3625         Pwr           Papworth M100         2645         Pwr	N		30	5L.	N	N	-	
NVA AP-35CD	N		-	5L,1T	N	N		
NVA A60	N		50	3L,2T	N	N	2	
NVA A70	-		60	-	-	17		
NVA AP-35 500 Int NVA AP-35 760 Pwr NVA AB0 760 Pwr NVA TIS 1100 Int NVA TIS 2100 Int NVA TIS 2100 Int NVA TIS 2100 Int NVA TIS 2100 Int NVA TIS 2600 Pwr NVA TIS 2600 Pwr NVA TIS 5000 Pwr NVA TIS 5000 Pwr NVA TUS 5000 Int OA24 400 Pre Onix OA21 400 Pre Onix OA21 430 Int Onix OA31 480 Int Onix OA601 699 Pwr Onix OA801 200 Int OA801 200 Int OA801 200 Int OA803 266 Int Onix OA803 266 Int Orelle SC-200 400 Pre Orelle SC-200 400 Pre Orelle SC-200 400 Pre Papworth PPA6 99 Pwr Papworth PPA6 99 Pwr Papworth PPA6 99 Pwr Papworth PPA6 90 Pre Papworth NA50 1425 Pwr Papworth MA50 3825 Pwr Philips FA930 200 Int Pioneer A-302R 200 Int Pioneer A-302R 200 Int Pioneer A-400 280 Int Pioneer A-502R 300 Int Pione			70	_	_	-		Mono
NVA A80 760 Pvr NVA T1S 1100 Int. NVA T1S 1100 Int. NVA T1S 2100 Int. NVA T1S 2100 Int. NVA T1S 2600 Pvr NVA T1S 5000 Pvr NVA	N		50	MM/MC,3L,1T	N	N		
NVA TCS	-		70	-	-	-	-	Mono
NVA TDS	N	1100	60	5L,1T	N	N		
NVA TSS (Power) 3300 Pwr NVA TUS 5000 Pwr Onix OA30 300 Int Onix OA21 400 Pwr Onix OA21S 430 Int Onix OA31 480 Int Onix OA601 699 Pwr Onix OA601 849 Pwr Onix OA601 350 Int Onix OA601 350 Int Onix OA601 400 Pre Onix OA601 400 Pre Onix OA601 400 Pre Onix OA601 400 Pre Original SA-020.3 499 Int Original SA-020.3 499 Int Original SA-020.3 499 Pwr Papworth PPA6/P 0 Pre Papworth PPA6/P 0 Pre Papworth TVA50 1425 Pwr Papworth M200 3825 Pwr Pillips FA930 200 Int Original SA-020	N	2100	70	5L,1T	N	N	-	
NVA TUS 5000 Pwr 100 P	-	2600	70	-	-	-	-	Mono
Onix OA30 300 Int OA30 300 Int OA30 300 Int OA24 400 Pre Onix OA24 400 Pre Onix OA215 430 Int Onix OA31 480 Int Onix OA601 699 Pwr Onix OA801 200 Int OA800 A801 200 Int OA800 A801 200 Int OA800 A803 260 Int OA800 A911 350 Int OA800 A911 350 Int OA800 A911 350 Int OA800 A911 350 Int OA800 A911 A99 Pwr Papworth PPA6 499 Pwr Papworth PPA6 499 Pwr Papworth PPA6/P A9200 A90 Pre Papworth M100 2645 Pwr Papworth M200 3825 Pwr Papworth M200 3825 Pwr Pioneer A-3028 200 Int OA800 A900 A900 A900 A900 A900 A900 A900	-		70	2	-1		-	
Onix OA24	-	5000	80	-	-	-	-	1x Monoblock
Onix OA401	N		40	5L,1T	Υ	N	43,77,33	
Onix OA21S         430         Int           Onix OA31         480         Int           Onix OA601         699         Pwr           Onix OA801         849         Pwr           Onixy OA801         200         Int           Onkyo A803         260         Int           Onkyo A850         370         Int           Orelle SC-200         400         Pre           Orelle SA-020.3         499         Int           Orelle SF150         499         Pwr           Papworth PPA6         0         Pre           Papworth PPA6/P         0         Pre           Papworth M100         2645         Pwr           Papworth M200         3825         Pwr           Philips FA930         200         Int           Pioneer A-102         130         Int           Pioneer A-302R         200         Int           Pioneer A-300X         230         Int           Pioneer A-400X         300         Int           Pioneer A-502R-6         300         Int           Pioneer A-602         350         Int	N		-	MM/MC,2L,2T	N	N	75,23,37	
Onix OA31	-		50		-		75,23,37	With internal supply for OA2
Onix OA601         699         Pwr           Onix OA801         849         Pwr           Onix OA801         200         Int           Onkyo A803         260         Int           Onkyo A-911         350         Int           Onkyo A-911         350         Int           Oncelle SC-200         400         Pre           Orelle SC-200         400         Pre           Orelle SP150         499         Pwr           Papworth PPA6         0         Pre           Papworth PPA6/P         0         Pre           Papworth M100         2645         Pwr           Papworth M100         3825         Pwr           Philips FA930         200         Int           Pioneer A-102         130         Int           Pioneer A-202         170         Int           Pioneer A-300X         230         Int           Pioneer A-400         280         Int           Pioneer A-502R         300         Int           Pioneer A-502R-602         350         Int           Pioneer A-602         350         Int	N		50	MM/MC,3L,1T	N	N	75,23,37	
Onix OA801 849 Pwr Onixyo A801 200 Int. Onixyo A803 260 Int. Onixyo A803 260 Int. Onixyo A803 260 Int. Onixyo A850 370 Int. Onixyo A850 370 Int. Orelle SC-200 400 Pre. Orelle SC-200 499 Pwr Papworth PPA6 0 Pre. Papworth PPA6/P 0 Pre. Papworth PPA6/P 0 Pre. Papworth M100 2645 Pwr Papworth M100 2645 Int. Proneer A-102 130 Int. Int. Proneer A-202 170 Int. Proneer A-300X 230 Int. Proneer A-400X 300 Int. Proneer A-502R 300 Int. Proneer A-502R 300 Int. Proneer A-502R 300 Int. Proneer A-502R 310 Int. Proneer A-502R 310 Int. Proneer A-602 350 Int.	N		60	MM/MC,4L,1T	Υ	N	43,77,33	Deculated DCU
Onkyo A801 200 Int Int Onkyo A803 260 Int Onkyo A803 260 Int Onkyo A803 260 Int Onkyo A850 370 Int Orelle SC-200 400 Pre Orelle SA-020.3 499 Int Orelle SP150 499 Pwr Papworth PPA6/P 0 Pre Papworth PPA6/P 0 Pre Papworth TVA50 1425 Pwr Papworth M100 2645 Pwr Papworth M200 3825 Pwr Philips FA930 200 Int Orelle SA-020 170 Int Orelle SA-020 Int Orelle SA-02	-	_	70		-			Regulated PSU
Onkyo A803 260 Int.  Onkyo A803 260 Int.  Onkyo A850 370 Int.  Onkyo A850 370 Int.  Orelle SC-200 400 Pre.  Orelle SA-020.3 499 Int.  Orelle SP150 499 Pwr.  Papworth PPA6 0 Pre.  Papworth PPA6/P 0 Pre.  Papworth M100 2645 Pwr.  Papworth M100 3825 Pwr.  Papworth M200 3825 Int.  Pioneer A-102 130 Int.  Int.  Pioneer A-202 170 Int.  Pioneer A-300X 230 Int.  Pioneer A-400 280 Int.  Int.  Pioneer A-502R 300 Int.  Int.  Pioneer A-602 350 Int.	T.		190	MM 2L 2T	Υ	N	75,46,36	2x monoblocks, massive PS
Onkyo A-911 350 Int. Onkyo A850 370 Int. Onkyo A850 370 Int. Onelle SC-200 400 Pre. Orelle SC-200.3 499 Int. Orelle SP150 499 Pwr Papworth PPA6 0 Pre. Papworth PPA6/P 0 Pre. Papworth MA50 1425 Pwr Papworth M100 3825 Pwr Philips FA930 200 Int. Pioneer A-102 130 Int. Pioneer A-302R 200 Int. Pioneer A-302R 200 Int. Pioneer A-400 280 Int. Pioneer A-400 300 Int. Pioneer A-502R 350 Int. Pioneer A-502R 350 Int.	N N		40 60	MM,3L,2T MM/MC,3L,2T	Y	Y	46,12,33 46,12,33	
Onkyo A850 370 Int.  Orelle SC-200 400 Pre  Orelle SC-200 499 Int.  Orelle SP150 499 Pur  Papworth PPA6 0 Pre  Papworth PPA6/P 0 Pre  Papworth M100 2645 Pur  Papworth M100 3825 Pur  Papworth M200 3825 Pur  Pioneer A-102 130 Int.  Int.  Pioneer A-302R 200 Int.  Pioneer A-400 280 Int.  Pioneer A-502R 300 Int.  Pioneer A-502R 350 Int.	N		70	MM,3L,2T	Y	Y	- 12,33	Mini component, 4ohm rati
Orelle SC-200         400         Pre           Orelle SA-020,3         499         Int           Orelle SP150         499         Pwr           Papworth PPA6         0         Pre           Papworth PPA6/P         0         Pre           Papworth M100         2645         Pwr           Papworth M100         3825         Pwr           Papworth M200         3825         Pwr           Philips FA930         200         Int           Pioneer A-102         170         Int           Pioneer A-202         170         Int           Pioneer A-300X         230         Int           Pioneer A-400X         300         Int           Pioneer A-502R         300         Int           Pioneer A-502R-302R-3         301         Int           Pioneer A-602         350         Int	N		60	MM/MC,3L,2T	Y	Υ	46,15,35	component, Territ fall
Orelle SA-020.3         499         Int           Orelle SP150         499         Pwr           Papworth PPA6         0         Pre           Papworth PPA6/P         0         Pre           Papworth PPA6/P         1425         Pwr           Papworth M100         2645         Pwr           Papworth M200         3825         Pwr           Philips FA930         200         Int           Pioneer A-102         130         Int           Pioneer A-202         170         Int           Pioneer A-300X         230         Int           Pioneer A-400         280         Int           Pioneer A-502R         300         Int           Pioneer A-502R-302R-3         300         Int           Pioneer A-602         350         Int	N	-	-	6L,1T	N	N	44,7,28	MM/MC option
Orelle SP150         499         Pwr           Papworth PPA6         0         Pre           Papworth PPA6/P         0         Pre           Papworth TVA50         1425         Pwr           Papworth M100         2645         Pwr           Papworth M200         3825         Pwr           Pinlips FA930         200         Int           Pioneer A-102         130         Int           Pioneer A-302R         200         Int           Pioneer A-302R         200         Int           Pioneer A-400X         300         Int           Pioneer A-502R         300         Int           Pioneer A-502R-6         310         Int           Pioneer A-602         350         Int	N		60	6L,1T	N	N	- ,	MM/MC option, MOSFET
Papworth PPA6 0 Pre Papworth PPA6/P 0 Pre Papworth TVA50 1425 Pwr Papworth M100 2645 Pwr Papworth M200 3825 Pwr Philips FA930 200 Int Prioneer A-102 130 Int Prioneer A-202 170 Int Prioneer A-302R 200 Int Prioneer A-400 280 Int Prioneer A-400X 300 Int Prioneer A-502R 300 Int Prioneer A-602 350 Int	-		75	-	-		44,7,28	MOSFET, vdH wiring
Papworth TVA50         1425         Pwr           Papworth M100         2645         Pwr           Papworth M200         3825         Pwr           Philips FA930         200         Int           Pioneer A-102         130         Int           Pioneer A-202         170         Int           Pioneer A-300X         230         Int           Pioneer A-400         280         Int           Pioneer A-400X         300         Int           Pioneer A-502R         300         Int           Pioneer A-502R-3         310         Int           Pioneer A-602         350         Int	N		-	6L	N	N	25,13,33	Bi-mono valve
Papworth M100         2645         Pwr           Papworth M200         3825         Pwr           Philips FA930         200         Int           Pioneer A-102         130         Int           Pioneer A-202         170         Int           Pioneer A-302R         200         Int           Pioneer A-300X         230         Int           Pioneer A-400         280         Int           Pioneer A-400X         300         Int           Pioneer A-502R         300         Int           Pioneer A-502R-G         310         Int           Pioneer A-602         350         Int	N		-	MM,MC,6L	N	N	25,13,33	
Papworth M200 3825 Pwr Int Int Pioneer A-400X 300 Int Pioneer A-502R 350 Int Pioneer A-602 350 Int Pi	N		50	- 100	N	N		Tube stereo
Philips FA930 200 Int Int Princer A-102 130 Int Int Princer A-202 170 Int Princer A-302R 200 Int Princer A-300X 230 Int Princer A-400X 300 Int Princer A-400X 300 Int Princer A-502R 300 Int Princer A-502R 300 Int Princer A-502R-G 350 Int Princer A-602 350 Int	N		100	-	N	N		Tube monoblock
Pioneer A-102 130 Int Int Pioneer A-202 170 Int Int Pioneer A-302R 200 Int Pioneer A-300X 230 Int Pioneer A-400X 300 Int Pioneer A-400X 300 Int Pioneer A-502R 300 Int Pioneer A-502R 300 Int Pioneer A-602 350 Int	N		200	-	N	N	46,20,31	Tube monoblock
Pioneer A-202     170     Int       Pioneer A-302R     200     Int       Pioneer A-300X     230     Int       Pioneer A-400     280     Int       Pioneer A-400X     300     Int       Pioneer A-502R     300     Int       Pioneer A-502R-G     310     Int       Pioneer A-602     350     Int	N		65	MM.2L,3T	Υ	Υ	44,14.30	
Pioneer A-302R         200         int           Pioneer A-300X         230         Int           Pioneer A-400         280         Int           Pioneer A-400X         300         Int           Pioneer A-502R         300         Int           Pioneer A-502R-G         310         Int           Pioneer A-602         350         Int	N	_	25	MM,2L,2T	Υ	N	42,11,29	
Pioneer A-300X     230     int       Pioneer A-400     280     Int       Pioneer A-400X     300     Int       Pioneer A-502R     300     Int       Pioneer A-502R-G     310     Int       Pioneer A-602     350     Int	N		35	MM,2L,2T	Υ	N	42,11,29	
Pioneer A-400         280         Int           Pioneer A-400X         300         Int           Pioneer A-502R         300         Int           Pioneer A-502R-G         310         Int           Pioneer A-602         350         Int	N	_	30	MM,3L,2T	Y	Y	42,13,34	
Pioneer A-400X         300         Int           Pioneer A-502R         300         Int           Pioneer A-502R-G         310         Int           Pioneer A-602         350         Int	N		30	MM,4L,2T	Υ	N	42,13,36	
Pioneer A-502R         300         Int           Pioneer A-502R-G         310         Int           Pioneer A-602         350         Int	N		50	MM/MC	Y	N	42,13,36	
Pioneer A-502R-G 310 Int Pioneer A-602 350 Int	N		50	MM/MC4,2	Y	N	42,13,36	
Pioneer A-602 350 Int	N		55	MM,3L,2T	Y	Υ	42,13,36	Catin gold A FOOD
	N N		55 70	MM,3L,2T	Y	Y N	42,13,36 42,17,44	Satin gold A-502R
JUI DUC   STOT-MON INT	N		-	MM/MC	V	N Y	42,17,44	Dolby Pro Logic
THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	N N		55	MM.2L,2T,5V MM/MC,3L,1T	Y	N	46,17,42	DOIDY FIO LUGIC
Pioneer C-73 550 Pre Pioneer VSA-D802S 600 Int	V		55	MM.2L,2T,5V	Y	Y	46,17,42	Dolby Pro Logic
Pioneer VSA-D802S 600 Int Pioneer M-73 750 Pwr	N		110	- TVIIVI. Z L, Z T, OV	Y	N	46,17,42	Class A/B switchable
PS Audio 6.1 799 Pre	N		110	4L,1T	N	N	43,6,19	Outboard PSU

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see p123

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see p123

Audiolab 8000A 450 Int N 60 MM,MC,1T,3T Y N 45,8,36 Preout/main in

450 Int N 60 MM,MC,1T,3T Y N 45,8,36 Preout/main in

## The Forefront of Technology



● Dolby B & C ● Dolby HX-Pro ● Feather touch IC Logic Control

Amorphous alloy head
 Record Mute

Anti-Modulation Tape Stabiliser (AMTS)
 Fine Bias adjustment

• System remote capable • 8 point LED Level Indicator • Music Sensor

Timer Operation
 Auto tape selector
 PC.OCC Wire

Considerable time and effort has gone into the creation of the Bill Hutchinson Innovation Award Scheme, drawing from more than two decades of experience and expertise.

The Innovation Award is designed to assist you in identifying state of the art equipment that matches your expectations whilst being of a build quality that ensures many years of enjoyment.

A list of priorities have been drawn up in order to establish the framework of the Award Scheme. The main priorities are, sound, value, construction, design, style and originality.

The choice of dealer should be given the same care and attention as is given to your choice of equipment, so that you may receive the kind of quality service and advice that compliments equipment of the same standard. The type of service you ultimately receive will reflect on your overall enjoyment of the product. A long-term association with a professional dealer has real benefits and will serve as your personal contact for information and advice on the Manufacturers latest Innovations

If it is not possible to visit a Bill Hutchinson Hi-Fi AV Centre, simply contact the Manufacturer for details of your nearest authorised stockist.



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• MANCHESTER 50/52 Deansgate. Tel: 061-832 1600



Key to amplifiers
Price - typical retail, to nearest
pound.
Power - output power in watts, per
channel, RMS.
Inputs - MM/MC - phono moving coil
and moving magnet, L - line (CD, aux
etc), T - tape.
A/V - includes Dolby Surround or Pro
Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier. Headphone - Y - yes, N - no. Remote - Y - yes, N - no. Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.



Key to cassette decks
Price - typical retail, to nearest
pound.
Type - T - twin transports, allowing
tape to tape dubbing, sequential play
etc, S - Single transport, AR - autoreverse.
Dolby - B (10dB noise reduction), C
(20dB), S (24dB). B is standard for
prerecorded material.

Heads - 2 - combination record/play heads; 3 - independent record/play heads, allowing real time off tape monitoring.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

				_					
Model	Price	Туре	A/V	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS									
PS Audio Phono Link	799	Pre	N	-	MM/MC	N	N	43,6,19	Outboard PSU
PS Audio 5.6	1090	Pre	N	100	MM/MC,3L,2T	N	N	43,6,19	Outboard PSU
PS Audio 100 Delta	1499	Pwr	-	120	-	-	-	42,15,35	
PS Audio 200 Delta	2279	Pwr	-	200		-	-	42,15,45	
PS Audio 200b Delta	2490	Pwr	-	200		-	-	42,15,45	
PS Audio 250 Delta	2980	Pwr	-	250	-	-	-	42,15,45	Monoblocks
QED Vector One	250	Pre	N	-	4L,1T	N	N	*	
QED C-300CD	259	Pre	N	-	MM/MC,4L,1T	N	N		
QED C-300PA	329	Pre	N	-	MM/MC,4L,1T	N	N		
QED A270CD	369	Int	N	55	MM,MC,3L,1T	Υ	N	-	
QED Vector Reference	399	Pre	N	-	5L,1T	N	N		
QED A270PA	429	Int	N	55	MM/MC,4L,1T	N	N		
Quad 306	350	Pwr	N	70	-	N	N	33,7,21	Stereo power amp
Quad 34	398	Pre	N	-	MM,2L,T	N	N	33,7,21	Optional MC phono input
Quad 606	690	Pwr	N	140	-	-	N	33,14,24	Stereo power amp
Quad 66	863	Pre	N	35	MM,4L,2T	N	Υ	33,8,26	Variable inputs, inc R/C
R Developments Kalypso	499	Int	N	15	5L	-	-	-	
R Developments Romulus	998	Int	N	35	5L	-	-	-	
Rega Brio	198	Int	N	30	MM,3L,1T	N	N	43,7,15	
Rega Elex	359	Int	N	50	MM,3L,1T	N	N	43,7,25	
Rega Elicit	730	Int	N	70	MM,MC,3L,1T	N	N	43,7,25	
Roksan ROK-L2	995	Pre	N	-	4L.1T	N	N		
Roksan ROK-S1	1495	Pwr	N	1	1	N	N	-	
Roksan ROK-L1	2250	Pre	N	1	4L,1T	N	N	:## E	
Roksan ROK-M1	4500	Pwr	N	-	5	N	N	-	Pair monoblocks
Rose RV-23	450	Pre	N	5	MM,2L,1T	N	N	33,9,26	Tube, zero feedback
Rose RV-23S	525	Pre	N	-	MM/MC,2L,2T	N	N	33,9,26	Tube, separate PSU
Rose RP-190 (Dual Mode)	550	Pwr	N	75	-	-	-	33,9,30	Low feedback monoblock (x2)
Rotel RC970BX	150	Pre	N	-	3L,2T	Υ	N	44,8,29	
Rotel RA930AX	175	Int	N	30	MM,3L1T	Υ	N	44,9,31	
Rotel RA935BX	225	Int	N	50	3L,2T	Υ	N	44,10,35	Separate listen/rec selectors
Rotel RB970BX	225	Pwr	N	60	-	-	-	44,8,29	
Rotel RA960BX2	325	Int	N	60	MM/MC,3L,2T	Υ	N	44,9,35	Separate listen/rec selectors
Rotel RC980BX	350	Pre	N	-	MM/MC,3L,2T	Υ	N	44,7,33	
Rotel RA980BX	425	Int	N	100	MM/MC,3L,2T	Υ	N	44,12,34	Separate listen/rec selectors
Rotel RB980BX	450	Pwr	N	120	-	-	-	44,12,33	
Rotel RC990BX	500	Pre	N	-	MM/MC,3L,2T	Υ	Υ	44,7,33	
Rotel RB990BX	750	Pwr	N	200	-	) <del></del>	-	44,12,38	
Sansui AU-X117	170	Int	N	30	MM,3L,1T	Υ	N	21	
Sansui AU-X3172.	275	Int	N	40	MM,3L,1T	Υ	N	∉चं/-	
Sansui AU-X417R	280	Int	N	45	MM,3L,2T	Υ	N	-	
Sansui AU-X517R	450	Int	N.	60	MM/MC,3L,2T	Υ	Υ		
Sansui AU-Alpha 607	1300	Int	N	90	MM/MC,2L,1T	Υ	Υ	-	
Sansui AU-Alpha707	1500	Int	N	90	MM/MC, 4L3T	Υ	Υ	-	Built in BS DAC
Sentec PP9 RIAA MM	500	Pre	N	-	MM	N	N	5,12,23	Phono step-up - MM
Sentec PP9 RIAA MC	600	Pre	N	-	MC	N	N	5,12,23	Phono step-up - MC
Sentec SC9	800	Pre	N	-	4L,2T	Υ	N	34,7,15	
Sentec PA9	1000	Pwr	N	60	2	-	-	20,8,30	Monoblocks
Shearne Phase II	549	Int	N	50	4L,2T	N	N	-	
Shearne Phase 1 Pre	1099	Pre	N	-	MM/MC/4L,2T	N	N	-	
Shearne Phase 1 Power	1199	Pwr	-	80		-		41	Dual mono
Sherwood Al 2210	60	Int	N	30	MM,3L,1T	Υ	N	-	
Sherwood Al 1110	100	Int	N	55	MM,4L,1T	Υ	N	(=)	
Sherwood Al 2010	120	Int	N	30	MM,4L,2T	Υ	N	-:	
Sherwood Al 3010	140	Int	N	40	MM,4L,2T	Υ	N	-	
Sherwood Al 5010	170	Int	N	70	MM,3L,2T	Υ	N	-	
Sherwood AM/AVP8500	800	-	Υ	230	-	Υ	Υ	-	A/V Pre/power amp
Sirius Control Unit	720	Pre	N	-	6L,2T	N	N	23,5,19	Passive preamp
Sirius 7B	2492	Pwr	N	200	-	N	N	30,23,19	1x monoblock
Sonic Link DM20	349	Int	N	25	MM,3L,1T	Υ	N	23,8,43	
Sonic Link DM20 Gold	598	Int	N	30	MM/MC,3L,1T	Υ	N	23,8,43	
Sonic Link DM30	725	Int	N	25	MM/MC,3L,1T	N	N	23,8,43	
Sony TAF211B	150	Int	N	30	MM/2L	Υ	N	43,14,31	Source direct
Sony TAF242B	200	Int	N	60	MM/2L	Υ	N	43,14.31	
Sony TAF444E	250	Int	N	40	MM,3L,2T	Υ	N	43,15,38	MOSFET power stage
Sony TAF542E	300	Int	N	90	MM/MC,3L,2T	Υ	N	43,15,38	UK optimised sound
Sony TA-AV570B	400	Int	Υ	70	MM,4L,5T	Υ	N	43,15,36	Dolby Pro Logic
Stemfoort Audio SF60	549	Int	N	60	4L,1T	N	N	43,8,35	Passive line amplifier
Stemfoort Audio SF100	849	Int	N	100	4L,1T	N	N	43,8,40	Passive line amplifier
Synergy 3080	0	N	15	MM,	N	N	-		
Teac A-X1030	180	Int	N	40	MM,3L,2T	Υ	N	44,13,36	Mic input
Teac A-X3030	220	Int	N	60	MM,3L,2T	Υ	N	44,13,36	Mic input
Teac A-X5030	260	Int	N	75	MM/MC,3L,2T	Υ	N	44,16,36	
Technics SU-VZ220	150	Int	N	40	MM,2L,1T	Υ	N	43,13,32	A/B speaker select
Technics SU-VZ320	190	Int	N	50	MC/MM,3L,2T	Υ	Υ	43,13,32	
Technics SU-A600	200	Int	N	40	MC/MM,3L,2T	Υ	N	43,13,32	
Technics SU-A700	250	Int	N	45	MC/MM,3L,2T	Υ	Υ	43,13,32	
Technics SU-A800	330	Int	N	55	MC/MM,3L,2T	N	Υ	43,14,37	
Technics SU-A900	400	Int	N	90	MC/MM,3L,2T	N	Υ	43,14,37	
Technics SU-C2000	700	Pre	N	-	-	N	Υ	45,13,35	
Technics SE-A2000	1050	Pwr	-	100			Υ	45,19,44	Meters, R-Core, MOS AA
Tesserac TAADA	1500	Pre	N	-	MM/MC	N	N	-	
Tesserac TALA	1500	Pre	N	-	5L,1T	N	N	-	
Tesserac TAHA	1800	Pre	N	-	MC,	Υ	N	-	
Tesserac TAP-A	5300	Pre	N	-	MM,3L,2T	N	N	-	
Listings marked in re-			_				haiaa		

Model	Price	Туре	A/V	Power	Inputs			Headphones	Remote	Size	Special
AMPLIFIERS											
Tesserac TAMP-60	7350	Pwr	- N	60		_		-		-	2x Monoblocks
Thule IA50	599	Int	N	50	4L,1			N	N	-	Fully balanced operation
Thule IA100	899	Int	N	50	4L,1	T		N	N	-	Fully balanced operation
TOCA 'A'22	1500	Pwr	N	22	-	DAC AL	ОТ	Y	- V	42,15,18	Class A
TOCA 'A' 1 TOCA 'A'50	2000	Pre Pwr	N N	50	IVIIVI	MC,4L	,21	T	Υ	42,8,24	Class A
Triangle TE60	549	Int	N	60	5L,1	т		Υ	N	42,15,18	Class A
Triangle Nemo Allion 02	1550	Int	N	80	5L,1			N	N		
Tube Tech Seer Line	575	Pre	N	-	5L,1			N	N	35,8,25	
Tube Tech Seer Phono	649	Pre	N	-		4L,1T		N	N	35,8,25	
TT Unisis Power Amp	1099	Pwr	N	30	-			N	N		Power amp to match Unisys
Tube Tech Prophet	1199	Pre	N	-	4L,1	Т		N	N	35,8,25	Two box pre, separate PSU
TT Unisis Super Line	1399	Int	N	30	4L,1	Т		N	N	35,17,27	Line level version of Unisys
Tube Tech Unisis	1399	Int	N	30	MM,	3L,1T		N	N	35,17,27	
Tube Tech Genesis	2599	Pwr	N	100	-			N	N	35,15,27	2x monoblocks
Tube Tech Synergy	3900	Int	N	150	5L,1	T,		N	Υ	47,18,47	
Woodside SC27 Line	705	Pre	N	-	2L,1	T		N	N	-	
Woodside SC27 MM	881	Pre	N	-	MM,	2L,1T		N	N	-	
Woodside ISA230 Disc	899	Int	N	30		2L,1T		N	N	-	
Woodside ISA230 Line	899	Int	N	30	4L,2	T		N	N	4	
Woodside ISA 2.40	949	Pwr	-	40				-		-	
Woodside SC27 MC	999	Pre	N	-	MC,	2L,1T		N	N	-	
Woodside MA50 Class A	1224	Pwr	-	50	_			-			1 channel monoblock
Woodside STA35	1323	Pwr	-	35		_		-	l.,		
Woodside SC25 Line	1420	Pre	N	-	2L,2		O.T.	N	N	8	
Woodside SC26 Phono	1931	Pre	N	-		MC,3L		N	N	-	
Yamaha AX-470	200	Int	N	95		MC,3L	,21	Y	N	-	
YBA Integre Line	999	Int	N	45	4L,1	1		N	N	43,9,33	
YBA 3 Power	1199	Pwr	- N	45	1 111	41 4 T		N	N	43,9,33	
YBA Integre YBA 3	1250	Int	N	45		4L,1T		N	N	43,9,33	
YBA 2	1699	Pre Pre	N			3L,1T		N	N	43,9,33 43,9,33	
YBA 2 Power	2150	Pwr	-	70	iviivi,	JL, II		- 14	18	43,9,33	
YBA 2 Power	2150	Pwr		70						43,9,33	
YBA 1	3750	Pre	N		MC.	4L,1T		N	N	43,9,33	
YBA 1 Power	4250	Pwr	-	85				-		43,14,33	
Model CASSETTE DECKS	Price	Туре	Dolby NR		Dolby HX Pro	Heads	Size		S	pecial	
Aiwa AD-F450	120	S	В,		Υ	2	-		St	per DX head	1
Aiwa AD-WX828	200	T	BO		Υ	2	-			vin auto reve	
Aiwa AD-F850	230	S	В,		Υ	3	-			per DX head	
Aiwa AD-WX929	250	T	BO		Υ	2					uick auto revers
Aiwa XK-S7000	550	S		C,S	Υ	3	-				built in DAC
Aiwa XK-S9000	700	S	_	C,S	Y	3	-	0.6.	_		built in DAC
Arcam Delta 100	850	S	_	C,S	N	3	43,1		Do	olby S	
Denon DRM-540	160	S	В,		γ	2	44,1		_		
Denon DRS-610	200	5	В,		T V	2	44,1		Dr	awer loading	J
Denon DRW-760	250	0	В,		Y	2	44,1		0	in annotar	
Denon DRM-710	260	S	В,		V		44,1		U	ual capstan	
Denon DRS-810	300 200	T	B,		N	3	44,1	J,3Z	D.	emote throug	sh annape
Dual CC8000 RS Goodmans Delta 700	100	T	B,	U	N N	2	44		IR	emote throug	III AUUURO
Goodmans GSW650	130	T	В		N		1		P/	oth auto-reve	reo
Grundig CCF210	150	T,AR			N	2	36,1	2 30			, hi speed dub
Grundig CCF2	170	T, All	В		N	2	44,1				R/C, display of
Grundig CCF310	190	T,AR		C	V	2	36,1				CD copy, AMS
Grundig CCF3	200	T,AR			Y	2	44,1				display switch
Grundig CF4	250	S	В,		Υ	3		3,30			AMS, monitor
			B/						1"		,
Harman-Kardon TD4400	349	S	D/		Υ	2	45,1	3,35			

	Harman-Kardon 1D4400	349	5	B/C	1	2	45,13,35	
	Harman-Kardon TD4500	499	S	B/C	Υ	2	45,13,35	
	Harman-Kardon DC5300	499	T	B,C	N	2	45,13,35	
	Harman-Kardon DC5500	599	T	B,C	Υ	2	45,13,35	
	Harman-Kardon TD4600	699	S	B,C,S	Υ	2	45,13,35	
	Harman-Kardon DC5700	699	T	B,C	Υ	2	45,13,35	Both transports record
	Harman-Kardon TD4800	1299	S	B,C,S	Υ	3	45,13,35	
	JVC TD-W106BK	120	T	В	N	2	44,13,24	Twin, one recording deck
	JVC TD-X352BK	150	S	B,C	Υ	2	44,13,33	
	JVC TD-W208BK	170	T	B,C	Υ	2	44,13,33	Twin, one recording deck
	JVC TD-W308BK	200	T,AR	B,C	Υ	2	44,13,33	Twin, one recording deck
	JVC TD-V562BK	220	S	B,C	Υ	3	44,13,33	Cassette stabiliser
	JVC TD-W708BK	250	T,AR	B,C	Υ	2	44,13,33	Twin record/play
	JVC TD-V662BK	270	S	B,C	Υ	3	44,13,33	Dual capstan
	Kenwood KX-3050	170	S	B.C	Υ	2	44,12,37	Tape path stabiliser
	Kenwood KX-W4060	180	T	B.C	Υ	2	44,13,30	Computer controlled recording
	Kenwood KX-W6060	200	T	B.C	Υ	2	44,13,30	Auto bias
	Kenwood KX-5530	220	S,AR	B.C	Υ	2	44,12,30	Auto bias
A	Kenwood KX-5050	230	S	B.C	Υ	2	44,12,30	Auto bias
	Kenwood KX-W8060	260	T	B.C	Υ	2	44,13,30	Auto bias
	Kenwood KX-7050	330	S	B.C	Υ	3	44,13,30	Auto tape calibration
	Kenwood KX-7050S	400	S	B.C	Υ	3	44,13,30	Auto tape calibration
	Kenwood KX-9050S	550	S	B.C	Υ	3	44,13,30	Auto tape calibration
			-				W- W E OL	1 0 1
	Akai GX-W45		own be	B,C	y cover	ea in 2	N/A	oice Directory, see page 123  Remote control

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see p123 Audiolab 8000A 450 Int N 60 MM,MC,1T,3T Y N 45,8,36 Preout/main in

## The Forefront of Technology









- Line inputs only Tone controls Tone defeat
- Independent record out Twin outputs

#### RB-970BX STEREO POWER AMPLIFIER

- 60 Watts RMS Per Channel
   200 Watts RMS Mono
- High Current capability
   Twin power supplies

Considerable time and effort has gone into the creation of the Bill Hutchinson Innovation Award Scheme, drawing from more than two decades of experience and expertise.

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A list of priorities have been drawn up in order to establish the framework of the Award Scheme. The main priorities are, sound, value, construction, design, style and originality.

The choice of dealer should be given the same care and attention as is given to your choice of equipment, so that you may receive the kind of quality service and advice that compliments equipment of the same standard. The type of service you ultimately receive will reflect on your overall enjoyment of the product. A long-term association with a professional dealer has real benefits and will serve as your personal contact for information and advice on the Manufacturers latest languagions.

If it is not possible to visit a Bill Hutchinson Hi-Fi AV Centre, simply contact the Manufacturer for details of your nearest authorised stockist.

ROTEL 0908 317707

## Bill Hutchinson





Key to cassette decks
Price - typical retail, to nearest
pound.
Type - T - twin transports, allowing
tape to tape dubbing, sequential play
etc; S - Single transport, AR - auto-

reverse.
Dolby - B (10dB noise reduction), C (20dB), S (24dB). B is standard for prerecorded material.

Heads - 2 - combination record/play heads; 3 - independent record/play heads, allowing real time off tape monitoring. Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.



Key to compact disc players, transports and DACS price - typical retail, to nearest pound.
DAC Type - MB - multibit, 1 bit - single bit, BS - Bitstream, DS - Delta Sigma, M - MASH, Hybrid - combines multibit and single bit.
Outputs Digital: Opt - optical (usually Toslimb, El - electrical (usually coaxial 5/PDIF).

Remote Control - Y - yes, N - No. Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test

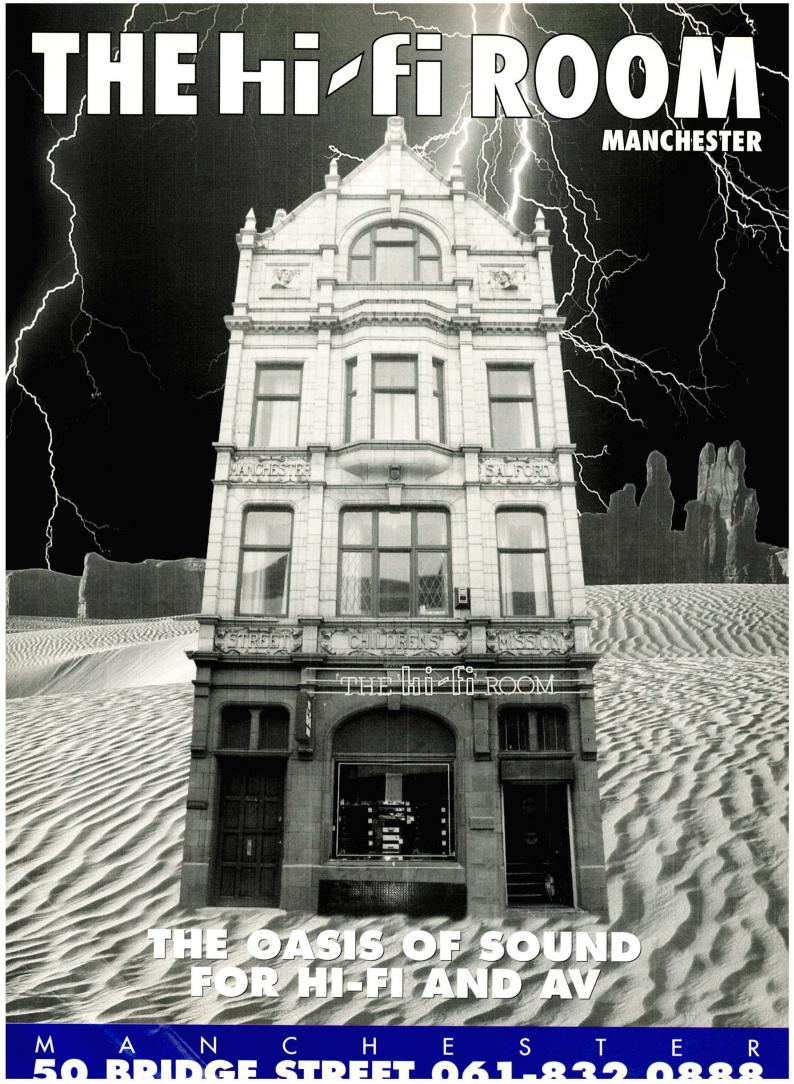
Model	Price	Туре	Dolby NR	Dolby HX Pro	Heads	Size	Special
CASSETTE DECKS	268					No.	
Marantz SD-53	200	S	B,C	Υ	2	43,14,30	D-bus
Marantz SD-415 II	210	T	B,C	Υ	2	43,14,30	D-bus, mic mixing
Marantz SD-63	250	S	B,C	Υ	3	43,14,30	D-bus
NAD 602	200	S	B,C	Υ	2		Play Trim
NAD Monitor 6100	299	S	B,C	Υ	2	-	Play Trim, remote cntrl, Dyneq
Nakamichi DR-3	400	S	B,C	N	2	43,10,32	
Nakamichi DR-2	600	S	B,C	N	3	43,10,32	Diffused resonance transport
Nakamichi DR-1	850	S	B,C	N	3	43,10,32	Manual azimuth calibration
Nakamichi CR-7E	1995	S	B,C	N	3	44,14,30	Auto tape calibration, R/C
Nakamichi Dragon	2350	AR	B,C	N	3	45,14,30	Auto azimuth correct
Onkyo TA201	200	S	B,C	Υ	2	46,12,13	
Onkyo TA-RW313	250	T	B,C	Υ	2	46,12,31	
Onkyo KR-609	350	AR	B,C	Υ	-		Mini component
Onkyo TA250	350	S	B,C	Υ	3	46,12,31	
Onkyo K-W606	370	T.AR	B,C	Υ	2	28,12,32	Mini component
Onkyo K-611	430	AR	B,C	Υ	-	3	Mini component
Pioneer CT-S220	170	S	B,C	Υ	2	42,13,28	System remote sockets
Pioneer CT-W420R	200	T,AR	B,C	Υ	2	42,13,25	Logic, double auto reverse
Pioneer CT-S320	200	S	B,C	Υ	2	42,13,28	Auto tape setup
Pioneer CT-W620R	250	T.AR	B,C	Υ	2	42,13,25	Auto tape setup
Pioneer CT-S420	250	S	B,C	Υ	3	42,13,28	Auto tape setup, CD synch
Pioneer CT-S520	280	S	B,C	Υ	3	42,13,28	Remote control CT-S420
Pioneer CT-W820R	300	T,AR	B,C	Υ	2	42,14,25	Remote control, parallel recor
Pioneer CT-S620	330	S	B,C	Υ	3	42,14,38	Slant Z-mechanism
Pioneer CT-S620-G	340	S	B,C	Υ	3	42,14,38	Satin gold CT-S620
Pioneer CT-M601R	380	AR	B,C	Υ	2	42,14,38	Five tape continuous record/pl
Pioneer CT-920S	680	S	B,C,S	Υ	3	42,14,38	Slant Z-mechanism
Pioneer CT-95	1000	S	B,C,S	Υ	3	44,15,38	Copper plated chassis
Sansui D-X117HX	220	S	B,C	Υ	2	-	
Sherwood DS1150	80	S	B,C	N	2		
Sherwood DS1010C	100	S	B,C	Υ	2	-	Mic input
Sherwood DD1030C	100	T	В	N	2	-	
Sherwood DS3010C	120	S	B,C	Υ	2		
Sherwood DD3010C	150	T	B,C	Υ	2	-	
Sherwood DS5010DC	170	S	B,C	Υ	2	-	
Sony TCFX211B	100	S	B,C	N	2	43,12,29	
Sony TCK 215B	130	S	B,C	Υ	2	43,12,31	Tape calibration
Sony TCK311B	130	S	B,C	Υ	2	43,12,31	Auto calibration
Sony TCW445B	150	T	B,C	Υ	2	43,12,31	Full logic control
Sony TCK415B	180	S	B.C	Υ	3	43,12,31	UK optimised sound
Sony TCWR545B	200	T	B,C	Y	2	43,12,29	Auto calibration
Sony TCWR645S	250	T	B,C,S	Y	2	43,12,31	UK optimised sound
Sony TCK511S	250	S	B,C,S	Υ	3	43,12,31	UK optimised sound
Sony TCK611S	300	S	B,C,S	Υ	3	43,12,30	UK optimised sound
Teac V-600	150	S	B,C	Υ	2	,,00	Fine bias
Teac W-700R	220	T,AR	B,C	Υ	2	44,15,29	Tillo blab
Teac V-1010	250	S	B,C	Υ	3	44,15,29	Fine bias
Teac V-3010	350	S	B,C	Υ	3	44,15,36	Copper chassis, remote
Teac V-2020S	380	S	B,C	Υ	3	44,15,29	Tape calibration
Teac W-6000R	450	T.AR	B,C	V	2	44,15,33	Pitch control, remote
Teac R-9000S	500	AR	B,C	Υ	3	49,15,36	Remote control
Teac V-8000S	700	S	B,C,S	Υ	3	48,15,36	Direct drive, tape cal, remote
Technics RS-TR232	180	T,AR	B,C	Y	2	43,14,29	Play transport unidirectional
Technics RS-BX404	180	AR	B,C	Υ	2	43,13,29	Mic inputs, auto tape cal
Technics RS-TR333	200	T,AR	B,C	Y	2	43,13,29	inio inputo, auto tapo cai
Technics RS-BX646	230	S S	B,C	Y	3		Auto tape cal, remote ready
Technics RS-BX646	250		B,C	Y		43,13,30 43,14,29	Optical quick reverse
Technics RS-BX747	300	T,AR S	B,C	V	2	43,14,29	Fine bias adj, THC lo-red base
Technics RS-TR979	380	T,AR	B,C	Y			Both decks record, quick rev
		S S	B/C	Y	3	43,13,28	DOLL GECKS TECOTO, QUICK TEV
Yamaha KX-650 Yamaha KX-W952	260 500	5 T	B,C	V	2		
Tattialla NA-WY902	500		0,0	_	2		

**DON'T MISS NEXT MONTH'S** FREE SUMMER SOUND SPECTACULAR. FOR MUSIC ON THE BEACH, ON THE PLANE, TRAIN AND IN THE **AUTOMOBILE — JUST ABOUT ANYWHERE YOU CARE TO ROAM. THIS IS THE ULTIMATE GUIDE TO PORTABLES AND** PERSONALS.

	_		_	_		
	Price	Dac Type	Outputs Dig	Remote	0:	One de la constant
Model	æ	е	g	ro .	Size	Special
CD PLAYERS Aiwa XC-300	150	1bit	0	Υ		
Aiwa DX-M100	150	1bit	U	Υ		Midi ciro
Aiwa XC-750	200			Υ	-	Midi size Peak search, record calibratio
Aiwa XC-950	250	1bit 1bit		Y		Peak search, record calibratio
	349	BS	E.0	Y		reak search, record campratio
AMC CD6				1	40.0.07	
Arcam Alpha 5	450	MB	E	_	43,8,27	
Arcam Delta 270	800	Hybrid	2E		43,9,28	
Audiomeca Kreatura	1199	MB	E	Υ	25,14,39	Heavily modified CDM
Aura CD50	400	BS	E	Υ	43,7,34	
Aura CD50CHR	450	BS	E	Υ	43,7,34	Chrome finish
AVI S2000MC	999	MB	E	Υ	-	
Cambs CD200 Mk II	150	1bit	-	Υ	42,9,29	
Cambridge Audio CD200	150	MB	N	Υ	42,9,29	Can play in reverse order
Denon DCD-595	180	MB	-	Υ	44,11,29	Digital attenuator
Denon DCD-695	200	MB	Е	Υ	44,11,28	
Denon DCD-890	270	MB	E	Υ	44,12,29	UK specified components
Denon DCD-1290	330	MB	0	Υ	44,12,23	UK specified components
			E.0			
Denon DCD-2560	600	MB	E,U	Υ	44,13,35	5-fold PSU
Eclipse CD101	80	MB	-	Υ	36,8,29	
Eclipse CD420	100	MB	-	Υ	42,8,29	
Eclipse CD720	120	MB	-	Υ	42,8,29	
Goodmans Delta 700	110	MB	N	Υ	-	
Goodmans GCD360R	120	MB	N	Υ	-	
Grundig CD210	120	BS	E	Υ	36,8,30	30 mem, random repeat
Grundig CD1	140	BS	Е	Υ	44,9,30	
Grundig CD2	190	BS	E	Υ	44,9,30	
Grundig CD3	240	BS	E	Υ	44,9,30	FTS, display off, fade, DAC7
Harman-Kardon HD7325	299	BS	E,0	Y	45,10,33	diopidy on, iddo, onor
	349	MB		Y	45,10,33	
Harman-Kardon HD7425		-	E	Y		
Harman-Kardon HD7525	449	MB	E	Y	45,10,33	
Harman-Kardon HD7625	549	MB	Е	Υ	45,10,33	
Harman-Kardon HD7725	799	MB	E,0	Υ	45,10,33	
Jadis JS-1	8068	MB	-	+		
JVC XL-V174BX	140	1bit	-	Υ	44,10,28	
JVC XL-V274BK	160	1bit	-	Υ	44,10,28	
JVC XL-M408BK	300	1bit	-	Υ	44,13,32	Six disc
JVC XL-Z1050TN	500	1bit	Е	Υ	45,11,34	
Kenwood DP-2050	170	1bit	-	Υ	44,10,26	Central mechanism
Kenwood DP-R4060	200	1bit		Υ	44,12,38	Five disc carousel
	200	1bit	-	Y	44,10,26	High precision master clock
Kenwood DP-3050			-	Y		0 1
Kenwood DP-M6060	270	1bit	-	-	44,12,36	Multiplay CD 6+1 disc
Kenwood DP-5050	270	1bit	-	Υ	44,12,31	High rigidity chassis
Kenwood DP-7050	350	1bit	0	Υ	44,12,31	High rigidity chassis
Krell CD DSPII 5000	5000	MB	2E	Y	42,13,28	Has digital in, balanced out
Linn Mimik	798	DS	E	Υ	32,8,33	BNC digital
Linn Karik	1497	DS	E,0	Υ	32,8,33	BNC digital
Luxman D500X's	3750	MB	0	Υ	44,12,39	Top loading
Marantz CD-53	200	BS	E	Υ	43,9,30	New transport, DAC, circuit
Marantz CD-52 II	230	BS	E	Υ	42,12,30	Selected passive components
Marantz CD-63	250	BS	E,0	Υ	42.9.30	As CD-53
Marantz CD-52 II SE	300	BS	E	V	42.12.28	Selected passive components
	600	BS	E,0	Y	42,12,28	As CD-52, 4V output
Marantz CD-72SE						
Marantz CD-10	1200	BS	E,0	Y	46,14,36	Twin DAC-7, heavy build
McIntosh MCD7008	1895	MB	E	Υ	-	Seven disc multiplayer
Meridian 506	795	DS	E,0	N	33,9,34	
Meridian 606	1350	1bit	3E,0	N		
Meridian 508	1350	DS	E,0	N	33,9,34	
Metaxas PHOS	1750	BS	E,0	Υ	42,16,42	
Micro-Seiki CD-M2DC	3695	MB	E	Υ	-	
Micro-Seiki CDM2000X	4689	MB	Е	Υ		
Micromega Stage 1	450	BS	E	Υ	43,28,88	Upgradable
Micromega Stage 2	600	BS	E	Y	43,28,88	Upgradable
Micromega Stage 3	800	BS	E	Υ	43,28,88	Upgradable
Micromega Stage 3	6000	BS	E	Y	34,48,31	AES/Toslink digital output
The state of the s		A STATE OF THE PARTY OF THE PAR		and the same		
Mission DAD5	300	BS	E	Y	37,11,29	Integrated CD player
Mission DAD7	900	MB	E	Υ	22,8,36	-
Mission Discmaster	1900	MB	Е	Υ	22,8,36	Two box player
Musical Fidelity CDT	519	MB	N	N	41,7,25	Tube output stage, top loading
Musical Fidelity FCD	1499	BS	2E,0	Υ	49,12,33	XLR balanced out, tube o/p sta
NAD 501	180	BS	-	N		
NAD 502	220	М	Е	Υ	-	
NAD Monitor 5000	309	М	E	Υ	-	
Naim CD3	898	MB	-	Y	32,6,30	1 box
Naim CDI	1677	MB		Y	43,16,30	One box, no digital output, to
		and the second				
Naim CD5	3254	MB		Y	43,16,30	Two box, no digital output, to
Nakamichi MB-4S	299	MB	-	Υ	43,10,27	Multi-CD, 16 x 4 oversampling
	380	MB	Е	Υ	43,10,32	
	650	MB	-	Υ	43,10,38	Multi CD, 18x8 oversampling
		MB	E	Υ	43,10,38	Multi-CD, 20x8 oversampling
Nakamichi MB3	850			Υ		
Nakamichi MB3 Nakamichi MB2	850 1500	BS	E	T	-	
Nakamichi MB3 Nakamichi MB2 NVA TES		BS BS	E .	-	43,8.33	DAC7
Nakamichi MB3 Nakamichi MB2 NVA TES Onix CD33	1500 999	BS	E - 0	-	43,8,33	DAC7
Nakamichi MB3 Nakamichi MB2 NVA TES Onix CD33 Onkyo DX710	1500 999 200	BS 1bit	- 0	- Y	46,11,31	DAC7
Nakamichi MB3 Nakamichi MB2 NVA TES Onix CD33 Onkyo DX710 Onkyo DX703	1500 999 200 240	BS 1bit 1bit	- 0 0	- Y Y		The state of the s
Nakamichi CD4 Nakamichi MB3 Nakamichi MB2 NVA TES Onix CD33 Onkyo DX710 Onkyo DX703 Onkyo DX703 Onkyo DX-711 Onkyo DX-C110	1500 999 200	BS 1bit	- 0	- Y	46,11,31	DAC7 Mini component

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see page 123

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see page 123.





Key to compact disc players, trans-ports and DACs

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Remote Control - Y - yes, N - No. Size - width x height x depth in cm.

11001	
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Key to compact disc players, transports and DACs Price - typical retail, to nearest pound. DAC Type - MB - multibit, 1 bit - single bit, BS - Bitstream, DS - Delta Sigma, M - MASH, Hybrid - combines multibit and single bit. Outputs Digital: Opt - optical (usually

Remote Control - Y - yes, N - No. Size - width x height x depth in cm. Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Price - typical retail, to nearest pound. DAC Type - MB - multibit, 1 bit - single bit, BS - Bitstream, DS - Delta Sigma, M - MASH, Hybrid - combines multibit and single bital: Opt - optical (usually roslink), El - electrical (usually coaxial S/PDIF).	

Model	Price	Dac Type	ıtputs Dig	Remote	Size	Special
CD PLAYERS						
Onkyo DX750	350	1 bit	0	Υ	46,11,31	
Orelle CD480	400	MB	E	Υ	44,10,28	DC coupled
Orelle CD160	750	MB	E	Υ	44,7,32	Passive filtering, DC coupled
Orelle CD260 II	900	MB	E	Υ	44,7,32	Audiophile components, DC cpld
Philips CD732	140	BS	E	Υ	44,11,30	
Philips CD920	160	BS	E	Υ	44,11,30	
Philips CD930	200	BS	E	Υ	44,13,30	5 5 00 1
Philips CDC935	230	BS	E	Υ	44,13,38	Five disc CD player
Pioneer PD-102	150	1-bit	-	N	42,11,28	Display off
Pioneer PD-202 Pioneer PD-S502	170	1-bit	-	Y	42,11,28	As 101, variable output & remo
Pioneer PD-S602	230	1-bit	-	Y	42,11,29	Stable Platter Mechanism
	270 270	1-bit	0	_	42,11,29	SPM, optical out
Pioneer PD-M602 Pioneer PD-S702	300	1-bit	-	Y	42,11,30	Six disc
Pioneer PD-M701		1-bit	0	Y	42,13,27	SPM, Legato Link filter
Pioneer PD-S802	330 350	1-bit 1-bit	E.0	Y	42,13,30	Six disc
Pioneer PD-S802 Pioneer PD-M901			E,U	Y	42,14,27	SPM, Legato Link filter
Pioneer PD-DM802	450	1-bit	-	Y	42,13,33	Six disc, DSP soundfield contr
Pioneer PD-DM802 Pioneer PD-S901	450 499	1-bit	E O	Y	42,14,31	Dual magazine 12-disc
Pioneer PD-S901 Pioneer PD-TM3	500	1-bit 1-bit	E,0	Y	42,13,33	SPM, Legato Link, Twin DAC Triple magazine, 18-disc
Pioneer PD-77	1100		E.0	Y	42,18,35	
Pioneer PD-95	2500	1-bit 1-bit	E,0	_	44,13,33	Satin gold finish
Quad CD67	825	DS DS	E,U	Y	44,16,34 33,8,26	Balanced out, Legato, SPM For use with 66 system
Roksan ATT-DP2P	1495	DS	E	Y	46,12,35	Player, four level isolation
Rotel RCD-945AX	230	BS	E	Υ	44,10,32	riayer, four lever isolation
Rotel RCD-965BX	300	BS	E	Υ	44,10,32	Audiophile components
Rotel RCD-965BX D	375	BS	E	Υ	44,10,32	Discrete output
Rotel RCD-965BX LED	425	BS	E	Υ	44,10,32	Discrete & slit foil caps
Sansui CD-270	180	BS	N	N	- 44,10,52	Discrete & sitt foir caps
Sansui CD-117K II	200	MB	N	N		
Sansui CD-X217i	200	MB	E	N	_	
Sansui CD-X317	250	BS	E,0	Υ	_	
Sansui CD-X617	350	BS	E,0	Υ		
Sentec Diana	1100	MB	E,0	N	12.5.23	20 bit
Sherwood CD3020R	130	BS	Y	N	12,0,20	20 01
Sherwood CD5010R	160	BS	Υ	N		
Sherwood CDC5030	200	1bit	N	Υ	44,10,38	Five disc carousel
Sony CDP-M302	130	1bit	N	Υ	36,10,33	Midi-size, full remote control
Sony CDP-312	150	1bit	-	Y	43,10,29	Digital servo
Sony CDP-C325M	230	1bit	N	Υ	36,10,39	Midi size, 5-disc player
Sony CDP-C345	230	1bit	-	Υ	43,13,39	Five disc player
Sony CDP-715E	250	1bit	0	Υ	43,11,30	UK optimised sound
Sony CDP-915E	300	1bit	0	Υ	43,11,36	UK optimised sound
Sony CDP-CX100	800	1bit	0	-	43,13,38	100 disc autochanger
Teac CD-P3500	200	BS	E	Υ	44,12,28	,
Teac CD-P4500	280	BS	E	Υ	44,12,29	Digital attenuator
Teac VRDS-7	600	BS	E,0	Υ	45,15,34	Twin BS
Teac VRDS-10	770	BS	E,0	Υ	45,15,34,	Twin DAC7, balanced output
Teac VRDS-20	1300	BS	E,0	-	50,15,34	Twin DAC7, balanced output
Teac X-1	2500	MB		Υ	46,14,40	Balanced out, 4x20bit
Teac X-1S	3500	MB	0	Υ	46,14,40	Balanced out, 4x 20bit
Technics SL-PG360A	140	M	N	Υ	43,10,29	Remote control capable
Technics SL-PG440A	170	M	N	Υ	43,10,29	4-DAC
Technics SL-PG560A	180	M	0	Υ	43,11,30	Selected audio parts
Technics SL-PS620A	200	M	0	Υ	43,12,29	·
Technics SL-PS740A	250	M	0	Υ	43,13,29	Centre tray
Technics SL-PS840	420	M	0	Υ	43,13,34	Advanced MASH converter
Technics SL-P2000	1000	M	0	Υ	45,13,33	THCB base, R-Core transformer
Wadia 6 Player	3995	MB	E,0	Υ	35,14,41	Digital volume, AT&T, balanced
Yamaha CDX-670	290	BS	E,0	Υ	-	
Yamaha CDC-635	300	BS	-	Υ	-	
Yamaha CDX870	330	BS	0	Υ	-	
Yamaha CDX-1000	599	BS	E,0	Υ	-	
YBA 2	2999	MB	E,0	Υ	43,10,33	Outboard power supply
				_		

Model CD TRANSPORTS	Price	Dac Type	Outputs Dig	Remote	Size	Special
Arcam Delta 250	750		2E, 0	-	43,9,28	BNC out. Has sync lock input
Audiolab 8000CDM	1250	-	E,0	Υ	45,8,36	Precision master clock
Audiomeca Kreatura	999	-	E,0	Υ	25,14,39	Heavily modified CDM
Audiomeca Mephisto	1999	-		Υ	43,15,33	Integral platter, layer suspen
Counterpoint DA-11E	1495	-	E,0	Υ	-	
DPA T1 Transport	895	4	-	Υ	-	'Deltran' clock locking (with
Jadis JCDT	8000	_		Υ	-	Top load
Krell MD-20 trans	4999	-	E,20	Υ	42,13,28	Top load, AT&T optical out
Krell MD-10 trans	7990	-	2E,0	Υ	42,13,28	
Krell DT-10 trans	9090	2	2E,0	Υ	42,13,28	Front loader
Meridian 200	895	-	E,0	Υ	32,32,10	
Meridian 500	975	-	E,0	Υ	32,33,9	
Meridian 602	1750	-	E,0	Υ	32,33,10	
Micromega Drive 1	600	-	E,0	Υ	43,28,88	Upgradable, AES/EBU out
Micromega Drive 2	900	-	E,0	Υ	43,28,88	Upgradable, AES/EBU out

	/	and sing Outputs Toslink), al S/PDII	Outputs Digital: Opt - optical (usually Toslink), E1 - electrical (usually coaxial S/PDIF).								
Model	Price	Dac Type	Outputs Dig	Remote	Size	Special					
CD TRANSPORTS	1000		-	V	00.00.00	T 1 5 AFO/FOU					
Micromega T-Drive	1200		E	Y	22,28,88	Tray loading, AES/EBU out					
Micromega Duo CD3-1	1350 2500	-	E,0 E,0	Y	34,9,31 34,9,31	Top loading, AES/EBU out					
Micromega Duo CD2-1 Orelle CD10-T	799		E,U	Y	44,10,32	Top loading, AES/EBU out Isolated PSU, silver wiring					
PS Audio Lambda tr	1990		E	Y	38,8,34						
Roksan ATT-DP2	1295	-	E	Y	46,12,35	AT&T, AES/EBU optional Four level isolation					
Roksan ATT-DP2A	1490	-	E	Y	46,12,35	AT&T optical					
Teac P-700	900		F 0	Y	1						
Teac P-2	3500		E,0 E,0	Y	23,14,40	Half width, anti-resonance cha					
Teac P-2S	4300	-		_		Cold plate sizewit heards					
Theta Data Basic	1990	-	0,E	Y	23,14,49	Gold plate circuit boards					
Theta Data II NTSC	3290	-	E	Y	42,8,34	AT&T, AES/EBU option					
Wadia 8	3195		E	Y	42,12,40 35,16,41	AT&T, AES/EBU option					
Wadia 7	9995	-	-	Y							
vvaula /	9995	-	-	T	35,16,46						
			9								
		Dac	Outputs Dig	, a							
	2	i j	ıs	Remote							
Model	Price	Туре	Dig	e e	Size	Special					
D/A CONVERTERS											
Arcam Black Box 50	450	Hybrid	E,0		43,7,28	Two inputs, sync lock					
Audio A DAC-in-the-box	200	MB	Е	-	-						
Audio Alchemy DDEv1.0	420	BS	E,0	14	-	Upradable external PSU					
Audio Note DAC1	600	MB	E,0	Υ	-						
Audio Note DAC3	1650	MB	E/0	Υ	-						
Audio Research DAC2	3940	MB	-	-	48,14,26	20bit, 8x o/s					
Audiolab 8000DAC	750	BS	-	-	45,8,36	Balanced AES/EBU input					
AVI S2000MD	549	MB	-	-	H						
Beard DAP-2 DAC	999	BS	E,0	Υ		Hybrid tube					
Beard DAP-1	1250	MB	-	-	-						
Counterpoint AD20	255	MB		-	-	DACCard for DA-10E					
Counterpoint CS18	355	MB	-	-	-	DACCard for DA-10E					
Counterpoint BB69	595	MB	-	-	-	DACCard for DA-10E					
Counterpoint UA20	995	MB	-	-	-	DACCard for DA-10E					
Counterpoint DA-11E	1495	-	E,0	Υ	49,6,27	Optional AT&T & AES/UBU balanc					
Counterpoint DA-10E	1675	40	E,0	Υ	-	Interchangeable DACs, optional					
DPA Little Bit II.	450	BS	E,0	-	-						
DPA Bigger Bit	695	BS	E,0	+	-						
DPA PDM256	2995	200	-	21	2	Unique DPA DX64 DAC					
DPA PDM10924	5995	-	-	-	-	Unique DPA DX128 DAC					
EMF Audio Crystal	500	BS	-	-	-						
Krell Studio 2	3198	MB	-	-	42,13,27	AT&T in					
Krell Studio	4450	MB	=	-	42,6,32	AT&T in					
Krell Reference 64	14300	MB	-	-	42,13,39	AT&T in					
Linn Numerik	1075	MB	-		32,8,33						
Meridian 563	695	DS	3E,0	N	33,9,34						
				1	OC 45 45	Futoroal DCII OO hit					
Metaxas Mas DAC	2800	MB	E,0	Υ	26,15,45	External PSU, 20 bit					
Metaxas Mas DAC Micromega Microdac	2800 349	BS	E,0 E,0	Υ -	22,5,15	Coax/optical					
		-									
Micromega Microdac	349	BS		Y - -	22,5,15	Coax/optical					
Micromega Microdac Micromega DAC	349 600	BS BS		Y	22,5,15 43,28,88	Coax/optical AES/EBU input					
Micromega Microdac Micromega DAC Micromega Duo BS2	349 600 600	BS BS BS		Y	22,5,15 43,28,88 8,28,9	Coax/optical AES/EBU input AES input					

	995	IVIB				DACCARD FOR DA-TUE
Counterpoint DA-11E	1495	-	E,0	Υ	49,6,27	Optional AT&T & AES/UBU balanc
Counterpoint DA-10E	1675	-	E,0	Υ	-	Interchangeable DACs, optional
DPA Little Bit II.	450	BS	E,0	-	-	
DPA Bigger Bit	695	BS	E,0	41	-	
DPA PDM256	2995	-	-	25	-	Unique DPA DX64 DAC
DPA PDM10924	5995	-	-	-	-	Unique DPA DX128 DAC
EMF Audio Crystal	500	BS	-	-	12	
Krell Studio 2	3198	MB	-	-	42,13,27	AT&T in
Krell Studio	4450	MB	+	-	42,6,32	AT&T in
Krell Reference 64	14300	MB	-	=.	42,13,39	AT&T in
Linn Numerik	1075	MB	-	-	32,8,33	
Meridian 563	695	DS	3E.0	N	33,9,34	
Metaxas Mas DAC	2800	MB	E,0	Υ	26,15,45	External PSU, 20 bit
Micromega Microdac	349	BS	E.0	-	22,5,15	Coax/optical
Micromega DAC	600	BS	-	-	43,28,88	AES/EBU input
Micromega Duo BS2	600	BS	-		8,28,9	AES input
Micromega T-DAC	800	BS	-	-	22,28,88	Four inputs
Micromega Duo Pro 2	1350	BS	-		34,48,31	AES input
Mission DAC5	300	BS	-	-	7,11,29	Outboard DAC, matches DAD5
Musical Fidelity Tubalog	499	MB	E,0	N	44,8,32	Tube o/p
NVA Dacon	1010	BS	Е	N		
Orelle DA-180	599	MB	E	N	44,7,28	2 outputs, twin transformers
Perception DAC	695	MB	-	-	-	1
Pink Triangle Ordinal	790	BS	E,0		23,8,35	Interchangable DAC & filter
Pink Triangle DaCapo	1450	BS	E,0	-	46,8,35	Interchangable DAC & filter an
Pink Triangle DC	1500	-	-	-	46,8,35	Massive battery PSU for DaCapo
PS Audio DigiLink II	688	MB	-	-	38,8,16	
PS Audio SuperLink 2	1230	MB	-	-	38,8,16	
PS Audio UltraLink	2390	MB	-	-	38,6,20	AT&T input option
PS Audio Reference L	5490	MB	-	-	38,8,36	AT&T input
Roksan ATT-DA2	549	DS	-	N	22,8,33	DAC 4 inputs, optional AT&T
Sentec Diana	993	MB	E,0		×.	
Teac D-700	600	MB	E,0	-	23,14,40	Matches P-700, 4x20bit
Teac D-2	2500	MB	-	-	23,14,49	18 bit, balanced output
Theta Pro-Prime	1449	BS	-	-	42,5,23	
Theta Probasic II	2299	MB	-	-:	42,5,29	
Theta Pro Gen III	4600	MB	-	-	42,8,34	AT&T input option
Wadia 12	1530	MB	E,0	N	-	Balanced and AT&T outputs
Wadia 15	3790	MB	E,0	Υ	35,9,41	Software upgradable
Wadia 64.4	4750	MB	E,0	N	35,8,28	Balanced output
Wadia 9	12790	MB	E,0	Υ	44,9,36	Digital volume, separate PSU
Woodside DAC2	509	MB	E,0	-	-	
Woodside DAC1	909	MB	E,0	2	ie.	

#### 100 HI-FI CHOICE BUYER'S GUIDE



Key to digital recorders
Price - typical retail, to nearest
pound.
Type - MD - MiniDisc - DCC - Digital
Compact Cassette, DAT - Digital Audio
Cassettes,
Digital In & Out - E - Electrical (usually Coaxial 5/PDIF), O - optical, (usually Toslink).

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

DAC Type - MB - multibit, 1 bit - single bit, BS - Bitstream, DS - Delta Sigma. Size - width x height x depth in cm.

Key to headphones Price - typical retail, to nearest pound. Type - Opn - open back, vented or velocity type; gives less environmen-tal isolation, but is usually more nat-ural feeling in extended use. Sld -sealed - the headphones form an air seal around the ears, helping reduce sound leakage. IR - Infra red cordless. Ear - in-ear model.

Weight - without cable. Impedance - in ohms.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model  DIGITAL RECORDERS	Price	Туре	Dig. In	Dig. Out	DAC Type	Size	Special
JVC XM-D1BK	900	MD	E,0	E,0	BS	18.5.13	
Marantz DD-82	399	DCC	E,0	E,0	MB/BS	42,15,34	DAC7 output
Marantz DD-92	800	DCC	E,0	E,0	MB/BS	46,15,34	DAC7, zinc side panels
Meridian CDR	4500	CD-R	E,0	Е	BS in/	-	
Nakamichi 10007	0	DAT	E,0	E,0	MB in/		
Philips DCC300	250	DCC -	E	Υ	BS in/	36,11,30	
Philips DCC600	300	DCC	E	Υ	BS in/	44,12,30	
Philips DCC900	350	DCC	E,0	Υ	BS in/	44,14,30	
Sharp MD-D10E	400	MD	-	Υ	-	3,9,11	World's smallest MD player
Sony DTC690	600	DAT	E,0	Υ	1bit i	43,11,35	UK sound, SCMS
Sony MDS101	700	MD	0	Υ	1bit i	23,8,29	Title display, full remote
Sony MBS501	800	MD	E,0	E,0	8	-	Sample rate converter
Sony DTC60ES	800	DAT	E,0	E,0	-	-	SBM
Technics RS-DC8	700	DCC	E,0	E,0	BS	43,12,35	

Meridian CDR	4500	CD-R E,O	E		BS in/	-	
Nakamichi 10007	0	DAT E,O		,0	MB in/	-	
Philips DCC300	250	DCC E	Y	,	BS in/	36,11,30	
Philips DCC600	300	DCC E	Y	/	BS in/	44,12,30	
Philips DCC900	350	DCC E,O	V	,	BS in/	44,14,30	
Sharp MD-D10E	400	MD -	,	,	50 110	3,9,11	World's amallast MD player
Sony DTC690			1	,	1bit i	43,11,35	World's smallest MD player
CONTRACTOR OF THE PERSON NAMED IN COLUMN 1	600	-	1	,			UK sound, SCMS
Sony MDS101	700	MD 0	Y		1bit i	23,8,29	Title display, full remote
Sony MBS501	800	MD E,0	-	,0	Ħ.	-	Sample rate cpnverter
Sony DTC60ES	800	DAT E,0	E	,0	-	-	SBM
Technics RS-DC8	700	DCC E,O	E	,0	BS	43,12,35	
			_	$\overline{}$			
				15			
			-	Impedance			
	후	J	Weight	l da			
Model	Price	Туре	E E	16		Special	
HEADPHONES		A3				-	
Aiwa HP-V141	7	Ear	5	10	6	Bass resonato	or ducts
Aiwa HP-A160	7	Opn	45	3		Banded, 3.5/6	
Aiwa HP-JB33	8	Opn	18	10		Vertical ear fit	
Aiwa HP-V143		the state of the s					
	9	Ear	5	10		Bass resonato	
Aiwa HP-A260	9	Opn	54	37	The second second second second second		resonator ducts
Aiwa HP-V145	10	Ear	5	10		Carrying case	
Aiwa HP-V147	10	Ear	5	10	ĵ .	Bass resonato	or ducts
Aiwa HP-X201	13	Sld	230	-		Dual plug	
Aiwa HP-A360	13	Opn	65	4(	)	Banded, bass	resonator ducts
Aiwa HP-X301	20	Sld	230	-		3m lead, dual	
Aiwa HP-VX303	25	Sld	230	-		In-line control	
Aiwa HP-X705	40	Sld	130	-		Dual plug, 2m	
AKG K2	23	Opn	70	21	00	Mini	
AKG K33	25	Opn	90	51	The second secon		
AKG K44	42	Opn	90	50			
AKG K135	46	Opn	160	_	50		
AKG K141	74	Opn	225	_			
CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT N					00		
AKG K240 Monitor	82	Opn	240		00		
AKG K270	112	Sld	250	7			
AKG K280 Parabolic	117	Opn	250	75			
AKG K400	118	Opn	250		20		
AKG K270 Studio	121	Sld	250	75			
AKG K500	138	Opn	250	12	20		
AKG K340	191	Opn	380	40	00		
AKG K1000	646	Opn	270	10	20		
Audio Technica ATH-309	36	Opn	140	30	)		
Audio Technica ATH-M4X	39	Opn	140	30	)		
Audio Technica ATH-909	60	Opn	200	60	00		
Audio Technica ATH-01	80	Opn	200	_	00		
Audio Technica ATH-910	90	Sld	200	_	00		
Audio Technica ATH-9000	245	Opn	240	3			
Beyer DT311	45	Opn	120	40			
Beyer DT331	49	Opn	120	_	50		
Bever DT411	59		_		50		
	-	Opn	120				
Beyer DT431	69	Opn	250	25			
Beyer DT-511	85	Opn Opn	200	40	the same of the same of		
Beyer DT990	119	Opn	200		00		
Beyer DT801	129	Sld	250	_	50		
Beyer DT100	135	Sld	350	_	00		
Beyer DT770 Pro	140	Sld	250	60	00		
Beyer DT811	159	Opn	245	2	50		
Beyer IRS790	165	Opn	120	-		Cordless infra	-red
Beyer DT990 Pro	169	Opn	250		00		
Beyer DT-901	179	Sld	280	2	50		
Beyer IRS890	199	Opn	120	60	00		
Beyer DT911	199	Opn	275		50		
Jecklin Float Model 1	75	Opn	400		00		
Jecklin Float Model 2	99	Opn	400	_	00		
Jecklin Float ELS	399	Opn	600	8	-	Electrostatic	
JVC HA-M3	6	Sld	33	3		1.2m dual plu	g lead
JVC HA-F15	9	Opn	6	10			5/6.3mm plug
JVC HA-X55	12	Sld	45	32		2m dual plug	
JVC HA-D410	15	Sld	90	3		2m, 3.5/6.3m	
JVC HA-X77	16	Sld	40	3		2m dual plug	
JVC HA-F35	16	Opn	6	3			5/6.3mm plug
JVC HA-X99	17	Sld	50	3		2m dual plug	
JVC HA-X99		Sld	-	_	And the second second		
	20		110	3		3m, 6.3/3.5m	
JVC HA-D610	25	Sld	120	3		3m, 6.3/3.5m	
JVC HA-D690	40	Sld	220	3		3m, 6.3/3.5m	
JVC HA-D710	55	Sld	210	32		3m, 6.3/3.5m	
JVC HA-D910	65	Sld	220	32		3m, 6.3/3.5m	
JVC HA-D1000	250	Sld	340	3	_	5m, 6.3/3.5m	ijacks
Kenwood KH-535	15	Ear	-	32	2	3.5mm plug	
Kenwood KH-757	20	Ear	-	32	2	3.5mm plug	
Kenwood KH-1000	20	Opn	30	32		2m OFC lead	
The second secon			-	_		Chaice Direct	

Model	Price	Туре	Weight	mpedance	Special
HEADPHONES					
Kenwood KH-959	25	Ear	-	32	3.5mm plug
Kenwood KH-2020	40	Sld	210	32	2.5m OFC lead
Kenwood KH-5000	70	Sld	280	32	2.5m OFC lead
					2.5III OFG lead
Coss TD60	29	Sld	150	27	
Koss TD65	45	Sld	150	100	
Coss MAC5	45	Opn	100	60	
Koss TD75	59	Sld	330	150	
Koss Porta Pro Jnr	59	Opn	65	60	
Coss Porta Pro 1	65	Opn	65	60	
Coss MAC7	65	Sld	160	60	
Coss Pro 480	115	Cld	250	100	
Koss Pro 4AA	129	Sld	425	230	
		the second secon			Ozadlara lafar and
Koss JCK200	195	Sld	240	100	Cordless infra-red
Koss JCK300	350	Sld	240	100	Cordless infra red
Coss ESP950	1995	Opn	350	-	Electrostatic
Maxell HP100	4	Ear	3	32	Replacable pads, 1m lead
Maxell HP200	5	Opn	30	32	Replacable pads, 1m lead
Maxell HP-400	8	Ear	4	32	With pouch, 6/3/3.5mm fit
Maxell HP300	8	Opn	40	32	6.3/3.5mm fit
Maxell HP-350	9	Eiar	5	32	Winder case, fold plug,
Maxell HP-500	13	Opn	45	22	2.7m lead, 6.3/3.5mm fit
Maxell HP1000	15	Opn	95	32	2.7m lead, digital ready
Maxell HP-4000	20	Ear	5	16	
Maxell HP2000					Volume control, winder case
	20	Opn	140	32	Volume control digital ready
Maxell HP-3000	30	Sed	120	32	Volume control digital ready
Nakamichi SP7	70	Opn	150	45	
Pioneer SE-5	16	Opn	-	30	2m cable
Pioneer SE-15	20	Opn	-	30	2m cable
Pioneer SE-32	23	-	-	40	Litz cable
Pioneer SE-52	25	-	-	32	Litz cable
Pioneer SE-15V	30	Opn	-	30	5m cable
Pioneer SE-330D	35	Sld		35	3m cable, bass boost duct
Pioneer SE-400D	37	Sld	_	35	3m cable
Charles and Charle	48	Sld	-	35	
Pioneer SE-500D		_	-		3m cable
Pioneer SE-700D	60	Sld	-	35	3m cable
Ross RE-233	5	Opn	25	8	Micro
Ross RIH-150	6	Ear	5	16	Inner ear headphone
Ross RE-235	6	Opn	5	16	Personal stereo
Ross RE-234	6	Opn	5	16	Personal stereo
Ross RE-229	6	Opn	35	8	Folding
Ross RE-2030	6	Opn	5	8	Personal stereo
Ross RMH-300	7	Opn	51	8	Lightweight
Ross RE-280	7	Ear	10	16	Vertical inner ear
Ross RE-246	7	and the same of th	5		
		Opn		16	Micro stereo phones
Ross RE-223	7	Sld	155	8	Stereo/mono
Ross RMH-500CD	9	Opn	48	16	Lightweight
Ross RIH-360CD	9	Ear	16	16-	Vertical inner ear
Ross RE-2060CD	9	Opn	5	16	Inner ear headphone
Ross RMH-310TV	10	Opn	51	8	For video and TV
Ross RIH-550	10	Ear	5	16	Inner ear, with volume control
Ross RIH-460CD	12	Ear	16	- 16	Vertical inner ear, volume pot
Ross RDH-200CD	13	Sld	150	8	Closed back
Ross RDH-100CD	15	Sld	144		CD headphone
			-	8	
Ross RDH-300CD	17	Sld	155	8	CD headphone
Ross RDH-400CD	22	Sld	186	8	Digital headphone
Sennheiser HD16	8	Opn	45	32	Mini, 1.2m lead, dual plug
Sennheiser HD36	11	Opn	62	32	Mini, 1.2m lead, dual plug
Sennheiser HD56	13	Opn	72	32	Mini, 1.2m lead, dual plug
Sennheiser Vegas	25	Opn	118	32	3m lead, 3.5/6.3mm
ennheiser Manhattan	25	Opn	118	32	3m lead, 3.5/6.3mm
Sennheiser HD60TV	35	Opn	118	32	6.8m lead (inc vol control)
Sennheiser HD440 II	35	Opn	125	60	3m lead, 3.5/6.3mm
Sennheiser HD320	40	Opn	120	60	3m lead, 3.5/6.3mm
CALCULATE AND ADDRESS OF THE ADDRESS	55				
Sennheiser HD330		Opn	120	100	3m lead, 3.5/6.3mm
Gennheiser HD340	65	Opn	120	100	3m lead, 3.5/6.3mm
Sennheiser HD25 SP	80	Sld	115	85	3m lead, 6.3mm plug
Sennheiser HD520 II	90	Opn	210	300	3m lead, 3.5/6.3mm
Sennheiser HD530 II	100	Opn	210	300	3m lead, 3.5/6.3mm
Sennheiser HD540 II	120	Opn	195	300	3m lead, 3.5/6.3mm
Gennheiser Set 90/UK	130	Ear	40	-	Infra-red cordless
Sennheiser HD560 Ovn II	140	Opn	210	300	3m lead, 3.5/6.3mm
Sennheiser HD25	140	Sld	140	70	1.5m lead, 3.5/6.3mm
Sennheiser S450	150	Opn	160		Infra-red cordless - hi-fi
			and the same of th		
Sennheiser Set 180/UK	150	Ear	43		Infra-red cordless
Gennheiser IS550	180	Opn	170	•	Infra-red cordless
Sennheiser HD 580	190	Opn	260	300	3m lead, 3.5/6.3mm
Sennheiser Charleston	224	Opn	210	140	3m lead, dual plug, leather tr
Sennheiser HE60/HEV70	998	Opn	260	-	Electrostatic with energiser
Sennheiser Orpheus	9652	Opn	365	-	Electrostatic, valve energiser .
Sony MDR-E515EX	8	Ear	5		1m lead, mini plug
The State of the S					
Sony MDR-007 Mk II	8	Opn	36		2m, 3.5/6.3mm plug
Sony MDR-009	10	Opn	40	-	2m, 3.5/6.3mm plug
Sony MDR-W07L	11	Ear	13	-	1m mini plug
Sony MDR-E505	12	Ear	-	-	
CORY MADE ACCO	12	Opn	-	-	
Sony MDR-A009	14_				



HUNDREDS OF LOWER PRICES PHONE FOR DETAILS

# **BRITAIN'S**

Our Massive Buying Power gives you the Best Possible Deal. Brand New Factory Sealed units – All Fully Guaranteed.

(NO REPAIRED UNITS, MAIL ORDER RETURNS OR GREY IMPORTS)

- All prices include V.A.T.
- We have Friendly Expert Advisers on hand at our 10,000sq. ft. Superstore at Barking. They can offer Advice and Full Demonstrations.
- We offer the Fastest Mail Order Department in the Business. Fully insured, specially packed 24 Hour securicor delivery
- 🔲 14 day exchange on all goods
- We Care. We have Fully Trained Service Personnel.
- We want your custom . . . If you have been satisfied with the Service at Hyper-Fi tell others. If you're not happy for any reason don't hesitate to tell us.

JUST WRITE TO: HYPER-FI P.R. DEPT. (RICHSIDE), FREEPOST, RM90, CHIGWELL, IG7 6BR.

## THIS MONTH'S STAR BUYS

#### SONY



STS311

- RDS TUNER WITH EON 3 BAND AM/FM DIGITAL SYSTEM DISPLAY MODEL, 30 PRESETS DIAL TUNING SYSTEM WHAT HI-FI AWARD WINNER

#### **TECHNICS**



#### SONY



- 3 HEAD DOLBY S CASSETTE POWER OPEN/CLOSE DISPLAY MODEL. 3 MOTOR SYSTEM CERAMIC CASSETTE HOLDER WHAT HI-FI AWARD WINNER

£239.95

## BARGAIN

NAKAMICHI IA3 AMPLI

NAKAMICHI CD4 CD PLAYER 'Clean shimmering sound" What Hi-Fi? Sound Quality \*\*

MISSION 7601 SPEAKERS

ALSO DR3 CASSETTE UNBEATABLE

## pecial Purchase

All brand new factory sealed. Most at trade price or less

Special Purchase

All equipment brand new sealed cartons fully guaranteed direct from SONY (U.K.) LTD.

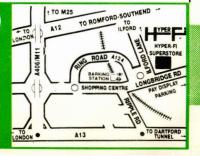
WE WILL BEAT ANY GENUINE ADVERTISED

UP TO



67-73 LONGBRIDGE ROAD BARKING, ESSEX. HOTLINE: 081-591 6961

NOW ONLY MINUTES AWAY FROM THE NEW M11 (A406) MOTORWAY CLOSE TO BARKING UNDERGROUND/MAINLINE STATION





#### AMPLIFIERS

#### AMPLIFIERS

**KENWOOD** 

#### **PIONEER**



- \* HIGHLY REVIEWED RANGE
- 2 x 25 WATTS OUTPUT
- 5 INPUTS 2 TAPE DUBBING \* BASS TREBLE TONE CONTROLS
- LOUDNESS SWITCH

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\* HEADPHONE SOCKET BLACK 420mm

A201

Also A102 x 30 WATT £99.95

- HIGHLY REVIEWED WHAT HI-FI
  44 KEY REMOTE CONTROL.
  2 x 60 WATTS 20HZ -20KHZ
  2 x 140 WATTS DYNAMIC POWER

**KA4040R** 

#### . •



STRD590

#### • • TUNERS

#### SONY



- \* 2 x 30 WATTS OUTPUT
- \* 5 INPUTS SPEAKER A/B
- \* DISPLAY MODEL SOURCE DIRECT \* TWIN DRIVE POWER SUPPLY

\* EUROPEAN AMP OF THE YEAR

\* HEAVY DUTY BINDING POSTS

\* PRE/POWER OUT TERMINALS

\* BEST BUY HI-FI CHOICE

\* 2 x 25 WATTS RMS

Also TAF319R 40 WATT REMOTE £129.95

#### SONY



- EXCLUSIVE U.K. AUDIOPHILE DESIGN HIGHLY REVIEWED 2 x 90 WATTS RMS 8 OHMS PURE STRAIGHT PATH DESIGN MM + MC CART INPUTS
  - TAF540E Also TAF 442ED
  - TAF 542ED £169.95

PHILIPS

- QUALITY DIGITAL TUNER
  AM/FM 30 PRESETST
  REMOTE CONTROL OPTION
- REMOTES WITH FA920 AMP

FT910

NAD

## **PIONEER**



- **NAD 302**
- Also 304 & 705 UNPRINTABLE
  - - RECORD SELECTOR HIGH GAIN PHONE EQ

#### A676G

- Also A676BL £249.95
- 2×95 WATTS 20HZ 20KHZ 2 × 200 WATTS DYNAMIC POWER SUPER LINEAR CIRCUIT DIRECT SWITCH 7 INPUTS

#### **KENWOOD**



- FM/LW/MW/ 30 PRESETS
- 12 STATION NAME PRESETS
- 6 EVENT PROGRAMME TIMER
   60 MINUTE SLEEP TIMER
- \* SUPERB QUALITY

#### YAMAHA ÆÆ

**£**Censored



- \* 90 WATTS PER CHANNEL \* INFRA-RED REMOTE

SAVE £60

- \* 6 INPUTS INC TWO TAPE \* SOURCE DIRECT. LOUDNESS \* TWIN SPEAKER OUTPUTS

#### SONY



- TAF670ES

#### **TECHNICS**



- QUALITY TECHNICS TUNER
- IS WAVE BAND M.W./L.W./FM.
  QUARTZ LOCKED SYNTHESIZER

DELUXE BLACK FINISH

## ST610L

KT2030L

#### **NAKAMICHI**



- HIGHLY REVIEWED WHAT HI-FI & HI-FI CHOICE
- \* "SWEET CRISP DETAILED AMPLIFIER"
- \* AUTHORISED U.K. DEALER STOCK \* 2 x 40 WATTS 8 OHMS
- \* 2 x 57 WATTS DYNAMIC POWER

1A3

#### **KENWOOD**



- \* 5 STAR REVIEW WHAT HI FI \* GOOD REVIEW HI FI CHOICE \* ULTIMATE HOME THEATRE \* 2 × 85 WATTS FRONT 2 × 45 WATTS REAR \* 1 × 45 WATTS CENTRE \* DOLBY PRO LOGIC DSP \* SIX AUDIO SIX VISUAL CONNECTIONS \* FULL REMOTE CONTROL

#### **PIONEER**



- \* DIGITAL DIRECT DECODER \* 3 BAND FM/MW/LW \* 36 RANDOM PRESETS \* SYSTEM REMOTE
- 3 SPEED SEARCH

F401L Also F301RDS £149.95

## CASSETTE DECKS CASSETTE DECKS

#### SONY



- QUALITY CASSETTE DECK
  DOLBY B+C
  FINE BIAS ADJUST
  AUTO TAPE SELECT
  MULTIPLEX FILTER

#### TCFX170

Also TCFX211 £59.95

TCK411

#### SONY



- HIGHLY REVIEWED RANGE
   3 HEAD CASSETTE DECK
   TWIN MOTOR SYSTEM
   DOLBY B/C HX PRO
   MULTO AMS. FULL LOGIC

#### SONY

#### DOLBY S PRICE BREAK THROUGH



- \* 3 HEAD DOLBY S. \* 3 HEAD 2 MOTOR \* DOLBY B 7 C 7 S 7 HX PRO \* MID SHIP DRIVE MULTI AMS

#### **PIONEER**



- 3 HEAD CASSETTE INFRA RED REMOTE. DOLBY B. C. HX PRO ELECTRONIC COUNTER H/P OUTPUT MUSIC SEARCH

Also CTS210 £69.95 CTS620 £199.95 CTW820R £249.95

## .

#### PIONEER



- HIGHLY REVIEWED CASSETTE
   DUAL CAPSTAN 3 HEAD DECK
   DOLBY BC HA PRO
   CD DECK SYNCRO
   MUSIC SKIP DISPLAY OFF

#### **NAKAMICHI**



- FIVE STAR WHAT HI-FI REVIEW
   HIGHLY REVIEWED HI-FI CHOICE
   SUPERB QUALITY 2 HEAD MACHINE
   OUTSTANDING RECORD QUALITY
   AUTHORISED UK DEALER STOCK

Also DR2 UNPRINTABLE

## Censored

#### AKAI



- \* RECOMMENDED HI-FI CHOICE
- \* RECOMMENDED HI-FI CHOICE

  3 HEAD SUPER GX (10 YEAR GUARANTEE)

  \* CLOSED LOOP DUAL CAPSTAN DRIVE

  \* DOLBY B, C & HX PRO (SWITCHABLE)

  \* AZIMUTH & HEIGHT ADJUSTMENT

#### SONY



- \* FULL SIZE DAT RECORDER FULL SIZE DAT RECORDER.

  1 BIT A/D AND PULSE D/A CONV
  3 MOTOR SYSTEM
  LONG PLAY MODE A/B REPEAT
  LINEAR TAPE COUNTER
  REMOTE CONTROL

  TC690

  \*\*REMOTE CONTROL

  \*\*REMOTE CONTROL

- DTC690

## 

COMPACT DISC

#### AKAI



CDM659

CDPM43

**CDP597** 

- QUALITY COMPACT DISC
   3 BEAM LASER PICK UP
   20 SELECTION PROGRAM
   REMOTE OPTIONAL
   DIGITAL OPTICAL OUTPUT
   SLIMLINE BLACK 240 VOLT

9

#### SONY



- QUALITY COMPACT DISC

  1 BIT D/A CONVERTOR

  45 BIT NOISE SHAPING DIGITAL FILTER

  20 TRACK MUSIC CALENDER

  PEAK SEARCH

#### **PHILIPS**



- FAMOUS PHILIPS QUALITY CD920
  HIGHLY REVIEWED WHAT HI-FI.
  BITSTREAM D.A.C. DIGITAL OUTPUT
  FULL FUNCTION REMOTE ALSO CD162 MIDI CD £69.95 DIRECT ACCESS EDIT MODES

#### SONY



- GREAT FEATURE REVIEW WHAT HI-FI
   45 BIT 8 DAC D/A CONVERSION.
   DIGITAL SERVO SYSTEM
   FULL REMOTE/REM VOL
   TIME/MANIALEADE
- TIME/MANUAL FADE



- \* HIGHLY REVIEWED WHAT HI-FI \* FOUR STAR SOUND QUALITY \* DIGITAL COAXIAL OUTPUT
- \* SUPERB BUILD QUALITY
  \* FULL REMOTE CONTROL

#### MARANTZ



- HIGHLY REVIEWED WHAT HI-FI 7 HI-FI CHOICE
   DIFFERENTIAL MODE BITSTREAM CONVERTOR
   OPTICAL AND CO-AXIAL DIGITAL OUTPUT.
   FTS MOTORIZED VOLUME CONTROL
   REMOTE CONTROL
   CD72

3

## IMPORTANT NOTICE AUTHORISED DEALERS

Not all advertisers in this magazine are authorised dealers for the products they stock. If you check with major manufacturers they will advise you to buy from authorised dealers to ensure full company guarantee back up.

Hyper-Fi only sells brand new factory sealed stock direct from the manufacturers and is an authorised dealer for all its brands

## COMPACT DISC

#### **PIONEER**



- "RECOMMENDED" HI-FI CHOICE
   4 STAR SOUND QUALITY WHAT HI-FI
   SUPERB TOP OF THE RANGE BUILD QUALITY.
   STABLE PLATTER MECHANISM
   CENTRE TRAY FULL REMOTE

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#### SONY



- TOP OF THE RANGE ES. QUALITY
  HIGHLY REVIEWED HI-FI CHOICE
  DIGITAL OPTICAL OUTPUT.
  FULL REMOTE CONTROL
  FIVE STAR REVIEW WHAT HI-FI

SPEAKERS

#### MORDAUNT SHORT AVV

MS5.10S

FULLY SHEILDED MAGNETS SUITABLE FOR ALL A/V APILCATIONS

HIGHLY REVIEWED HI-FI SPEAKER
NEW IMPROVED TWEETER
POSITEE PROTECTION SYSTEM

SHELF OR FLOOR STAND USE

100 WAITS HANDLING
DELUX BLACK FINISH

IDEAL CENTRE SPEAKER





#### J.P.W.

#### MINIM

- IMPROVED MODEL UP FROM MINI MONITOR
  RECOMMENDED HI-FI CHOICE
- RECOMMENDED HI-TI CHOICE
  TO WATTS POWER RATING
  FERRO FLUID DOME TWEETER
  HARD WIRED X/OVERS
  LARGE DIAMETER TERMINALS
  WALNUT FINISH



#### J.P.W.

#### SONATA

- \* HIGHLY REVIEWED WHAT HI-FI
- \* WHAT HI-FI AWARD WINNER • HI-FI CHOICE BEST BUY
- \* 70 WATTS HANDLING
- \* FREQ RANGE 70HZ 20KHZ
- WALNUT FINISH 320 x 230 x 210mm



#### SPEAKERS

#### **MORDAUNT SHORT**

MS.10



- HIGHLY REVIEWED HI-FI CHOICE FIVE STAR REVIEWED WHAT HI-FII 100 WATTS REPAC UNITS ALUMINIUM DOME TWEETER DELUXE BLACK FINISH

#### MORDAUNT SHORT

- \* HIGHLY REVIEWED NEW RANGE
  \*TWO WAY INFINITE BAFFLE
  \*100 WATTS REPAC UNITS
  \*ALUMINIUM DOME TWEETER
  \*MCS WOOFER BI. WIRE
- 25 x 43 x 28cm BLACK FINISH



#### **CELESTION**

CELESTION 9

- HIGHLY REVIEWED HI-FI CHOICE
- HIGHLY REVIEWED WHAT HI-FI
   100 WATTS HANDLING
   3 WAY BASS REFLEX
   SUPERB BLACK FINISH

ALSO DELUXE OAK FINISH £199.95

#### CELESTION

#### CELESTION 15

- RECOMMENDED HI-FI CHOICE HIGHLY REVIEWED WHAT HI-FI FLOOR STANDING 2 WAY DESIGN TITANIUM DOME TWEETER

- SUPERB BLACK FINISH

ALSO DELUXE OAK FINISH £299.95



#### MORDAUNT SHORT AVV

- MS5.50

  \* HIGHLY REVIEWED SPEAKER

  \* FLOOR STANDING BASS REFLEX

  \* 89 DB 1 WATT SENSITIVITY

  \* TWIN BASS UNITS DOME TWEETER

  \* ROSEWOOD FINISH

Also DELUXE BLACK FINISH





#### **PIONEER**

- DOLBY PRO LOGIC
- VOCAL CANCEL & MIC MIXING
- \* TWIN AUTO/REV B.C. HX PRO

MR100 Multi Room Adaptor £29.95



£69.9

### SPEAKERS

#### MONITOR AUDIO MA800GOLD

- HIGHLY REVIEWED SPEAKER
- \* HIGHLY REVIEWED SPEAI
  \* 120 WATTS HANDLING
  \* GOLD ANODIZED ALLOY
  TWEETER DIE CAST BASS
  \* DELUXE ROSEWOOD





## SYSTEMS

#### AIWA

#### NSX360G

- AWARD WINNING SYSTEM
- \* AWARD WINNING SYSTEM
  \* 2 x 30 WATTS OUTPUT
  \* 5 BAND SPECTRUM ANALYSER
  \* KAROKE MIC MIXING
  \* FULL REMOTE CONTROL
  \* 3 WAY SPEAKERS £30 PAIR

Also NSX 500 3 Disc Auto 7 Band Spectrum £279.95



#### **PIONEER**

#### J20 • DOLBY SURROUND SOUND

- SYSTEM

  2 × 50 WATTS FRONT
  2 × 10 WATTS REAR

  SOUND FIELD CONTROL

- SOUND FIELD CONTROL
  + MOVE MODE

  7 BAND EQUALIZER, VIDEO INPUT
  36 PRESET AW/FM TUNER

  1 BIT 24 TRACK CD PLAYER

  TWIN A/REV DOLBY B & C
  QUALITY TURNITABLE



#### **PIONEER**

- J40

  2 × 100 WATTS RMS OUTPUT

  SEPARATE POWER AMPUFIER

  A/B A-B SPEAKER SWITCHING

  7 BAND EQUALIZER

  STABLE PLATTER C.D. PLAYER

  36 PRESET AM/FM TUNER

  TWIN AUTO/REV B.C. HX PRO

  QUALITY BELT DRIVE T/TABLE

MR100 Multi Room Adaptor £29.95





2 x 66 WATTS 3 x 15 WATTS (RMS) MUITI ROOM COMPATABLE

\* 1 BIT SINGLE C.D. PLAYER



## WE WILL BEAT ANY GENUINE ADVERTISED PRICE



CD72 CD10

AMPLIFIERS	AX550 £139.95	PHILIPS	KENWOOD	CEL 9BL £169.95	MINIL CYCTCAG	M27 £449.9
AKAI	AX570 P.O.A.	FT910 £79.95	KX3050 P.O.A.	CEL 9 OAK £199.95	MINI SYSTEMS  AKAI	M47 £499.9 M56 £499.9
AMM659 £89.95		FT920 £99.95	KX5050 P.O.A. KX5030 £129.95	CEL 15OAK £299.95	MX92 £269.95	M76 £599.9
AM47 £129.95	CELESTION	<b>PIONEER</b> F201L £79.95	K:W8040 £149.95	5000 £399.95 CERWIN VEGA	MX570 £349.95 MX670 £399.95	M57 £699.9 M77 £799.9
XA003 £99.95		F202L £99.95	KX9050S P.O.A.  MARANTZ	AT40 £249.95	MX770 £449.95	M97 £949.9
XA950 £149.95	<b>DENON</b> AVC1530ED £399.95	F676 £119.95 F550RDS £119.95	SD52 £139.95	AT60 £299.95	MX970 £499.95	PIONEER
A75 £49.95	AVC3020ED £599.95	F401L £119.95 F301RDS £149.95	SD62 £149.95 SD63 £229.95	AT80 £399.95 VS10 P.O.A.	NSX270 £199.95 LCX9 P.O.A.	J10 £299.9 J20 £399.9
P75 £99.95 <b>DENON</b>	AVR1000 P.O.A. AVC 3530 P.O.A.	F502RDS P.O.A.	SD63 £229.95 SD53 £269.95	VS12 P.O.A.	NSX360G £239.95	J10M £349.9
PMA250 £119.95	JPW	ROTEL RT930AX £159.95	NAKAMICHI	AT100 £499.95 VSI515 P.O.A.	NSX340 £249.95 LCX7 £269.95	J30 £399.9 J20M £549.9
PMA350 £149.95 PMA480R £219.95	KENWOOD	RT950BX £199.95	DR3 P.O.A. DR2 P.O.A.	JPW	LCX10 P.O.A.	J30M £499.9
PMA450 £249.95	KDV4040ED 0200 05	SONY STS211LB P.O.A.	PHILIPS	MINIM WL £49.95 MINIM BL P.O.A.	NSX430 P.O.A. NSX520 P.O.A.	J40 £599.9 J40M £599.9
PMA880R £299.95	KRV7050ED £349.95	STS170 £119.95 STS311LB P.O.A.	DCC900 £249.95 PIONEER	SUBWOOFER P.O.A.	NSX500 £279.95 NSXD707 £399.95	J50 £599.9
JVC AXA662 £229.95	KAV8500 £489.95 <b>MARANTZ</b>	STS570ES £199.95	CTS210 £69.95	SONATA WL £69.95 SONATA BL £99.95	NSXD909 £449.95	J50M £599.9
KENWOOD	SP50ED £149.95	STS505E\$ P.O.A. STS770 ES £199.95	CTS310 £89.95 CTW420R P.O.A	Pl P.O.A.	DENON D65 P.O.A.	C108CD £269.9
KA1030 £119.95 KA3020ED £139.95		TECHNICS	CTS410 £149.95	AP2 P.O.A. AP3 P.O.A.	D70 £449.95 D100 £499.95	C109CD £269.9 C190 £329.9
KA3050R £169.95	MA500 P.O.A.	\$7610LED £99.95 \$TG630RDS P.O.A.	CTS320 £149.95	MISSION	D90 P.O.A.	C195 £379.9
KA4040R £169.95 KA5040R £169.95		STGT550 P.O.A.	CTW620R P.O.A CTS520 £169.95	760i £129.95 760iSE £149.95	D110 P.O.A. D250 P.O.A.	C159CD £399.9 C209CD £399.9
KA7020 £169.95 KA5050RED £249.95	MV633 P.O.A.	STG90LKED £199.95	CTS510 £169.95	761i £179.95	JVC P.O.A.	C259CD £349.9
KA7050RED £249.95	FULL RANGE P.O.A.	STGT650 P.O.A.	CTS620 £199.95 CTS810 £199.95	780SE £239.95 762i £249.95	UX1 £229.95	C359CD £549.9 C559CD £499.9
KAV8500 £489.95 KAV7700 £489.95	MONITOR AUDIO FULL RANGE P.O.A.	TX550 £99.95	CTS610 £199.95	762i £249.95 781 £249.95	UX A3 £259.95 UXT1 £259.95	C759CD £549.9
KAV7700 £489.95 <b>MARANTZ</b>	PIONEER	TX350 £129.95 TX950 £149.95	CTW820R £249.95 CTS900S £399.95	763 £379.95	UXA5 £319.95	TECHNICS
PM42 £99.95		RECEIVERS	SONY	764i £479.95 765i £679.95	ADAS20 P.O.A. ADA S2 £299.95	CDX120 P.O.A CDX320 P.O.A
PM40SE £129.95 PM32 £139.95	VS701S P.O.A.	DENON	TCFX211 £59.95 TCFX170B £69.95	STANDS £59.95	UXA4 £299.95 ADAS30 P.O.A.	CDX520 P.O.A
PM52 £149.95		DRA435 £199.95	TCK311ED £109.95	MONITOR AUDIO STUD5. £299.95	ADA \$3 £349.95	COMPACT DISCS
SP50 ED £149.95 PM44SE £179.95	CLD1850 P.O.A.	DRA345R £249.95 DRA545R £319.95	TCK370 £119.95 TCK411 £139.95	MA800G RO £349.95	ADA \$4 £399.95 ADA \$6 £469.95	AIWA
PM52SE £299.95		JVC	TCK470 £149.95	MA14GII £399.95 MA800G BL £399.95	ADA G7 £699.95	XC300 P.O.A XC750 £129.9
PM54SE £299.95 PM700ED £349.95	ROTEL	RX506VBK £199.95	TCWR435 £169.95 TCWR535B £169.95	STUD 6 £499.95	KENWOOD	XC950° £149.9
302 P.O.A.	RB956AX £324.95 RSP960AX £399.95	KENWOOD KRA5040 £199.95	TCK511S £169.95	STUD 10 £699.95 MA1800 RO £699.95	MSA7 £299.95 UD301 £339.95	<b>DENON</b> DCD690* £129.9
304 P.O.A.	<b>SONY</b> STRD590 £189.95	KRV6050 £289.95	TCC5 £229.95 TCK611S P.O.A	STUD 15 £799.95	UD351M £389.95 UD500 £399.95	DCD595* £179.9
306 P.O.A. NAKAMICHI	STRD511ED £189.95	KRV6060 £299.95 KRV7050ED £349.95	TCWR635S £249.95	MORDAUNT SHORT MS5.10.SBL £49.95	UD551M £539.95	DCD695 £199.9 DCD890* £269.9
1A3 £169.95		MARANTZ	DTC690 £399.95	MS10 P.O.A	UD701 £599,95 UD751M £649.95	DCD1290* £329.9
1A2 P.O.A. 1A1 P.O.A.	TAAV570B P.O.A.	SR53 £199.95.	TECHNICS RSBX404ED £139.95	MS5.10 BL £99.95 MS20 P.O.A	UD901 £699.95 UD951M £849.95	DCM340° £349.9 DCD2560° £599.9
PHILIPS	TANNOY	NAD 701/705 £249.95.	RSTR232KED £139.95	MS30 £169.95	PIONEER N33 £199.95	KENWOOD
FA920 £119.95 FA930 £149.95	FULL RANGE P.O.A.	PIONEER	RSTR333KED £159.95 RSBX646KED £179.95	MS5.50RO £329.95 MS5.50BL £349.95	N53 £299.95	DP5040 £129.9 DP2050 £149.9
FA890 £149.95		SX777 £199.95	RSTR515KED £199.95	MS40 P.O.A	N53M £349.95 N63T £349,95	DP3050 £179.9
PIONEER A201 £69.95	SAGX550LK P.O.A.	SONY STRD311 P.O.A.	RSBX747KED £249.95	MS50 P.O.A	N73T £399.95 N73M £449.95	DP5050 £229.9 DPM6650 £239.9
A102 £99.95		STRD390 £179.95	KX260 £139.95	801 P.O.A.	N93T £699.95 N93M £799.95	DP7050ED £249.9
A351R £149.95 A202 £119.95	DSPA1000 P.O.A.	STRD590 £189.95 STRD511ED £189.95	KXW162 £149.95 KXW262 £149.95	802ED £169.95 804ED £289.95	SONY	MARANTZ CD53 P.O.A
A300X P.O.A. A400 P.O.A.	DSPA2070 P.O.A. DSPE200 P.O.A.	STRD790 £199.95	KX360 £159.95	SONY	MHC450 £299.95 MHC550 £329.95	CD42II £129.9
A676G £179.95	DSPE1000 P.O.A.	STRD711 P.O.A.	KX650 £229.95	SSA505 £49.95 SS85E P.O.A	MHC550 £329.95 MHC510CD £329.95 MHC650 £379.95	CD52IIED £149.9 CD63 P.O.A
A400X P.O.A. A602 £249.95	RXV470 P.O.A. DSPA970 P.O.A.	TECHNICS SAGX530LK P.O.A.	TURNTABLES	SS125E P.O.A	MHC710CD £399.95	CD52 IISED \$100 0
A676BL £249.95		SAGX130DLK£159.95	<b>DUAL</b> CS431 £59.95	APM181ES £199.95 SSS70ES £319.95	MHCC50CD £449,95 MHC2900 £499.95	
ROTEL RA920AX £89.95	NSC110 P.O.A.	SAGX230DLK£199.95 SAGLX550LK P.O.A.	CS435 P.O.A. CS503/2 P.O.A.	TANNOY	MHC2800CD £499.95 MHCC70CD £539.95	JOHN Y
RA 930 £169.95 RA935 £199.95	TUNERS	SAGX350LK £329.95	CS505/4 P.O.A.	603.2ED £99.95 605.2ED £129.95	MHC3800CD £599.95	S COLBY
RA 960 BX P.O.A.	AIWA	YAMAHA	KENWOOD KD491F P.O.A.	607.2ED £169.95	TECHNICS SCCH550 £399.95	DOLBY
RA 980 BX P.O.A. <b>SONY</b>	XT003 £99.95	RX550 £199.95 RXV470 P.O.A.	P26 £79.95	609.2ED £199.95 611.2ED £349.95	SCCH404 £429.95 SCCH650 £449.95	COLLINIO
TAF211 £99.95	T50 £79.95	RX360 £359.95	SONY PSLX100B £54.95	613.2ED £499.95	SCCH505 P.O.A. SCCH655 £499.95	SOUND
TAF242ED £119.95 TAF319R £129.95		CASSETTE DECKS	PSLX150B £99.95 PSLX431B £149.95	615.2ED £599.95 WHARFEDALE	SCCH750 £749.95	60
TAF442ED £159.95 TAF440E £159.95	TU560L £159.95	AKAI	TECHNICS	Delta 30 II £49.95	SCCH950 £799.95 MIDI SYSTEMS	2 FRO
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TAF540E £169.95 TAF542ED £169.95		AIWA	SL1210 P.O.A.	CRS5 £129.95	M55CD £249.95	£12
TAF670ES £299.95	KT1030L £79.95	ADF450 P.O.A.	SPEAKERS	425 £129.95 CRS7 £199.95	FX630CD £349.95	FOR
	KT2030L £89.95 KT3050LED £129.95	ADF410 £99.95 ADWX727ED£149.95	B & W	CRS9 £299.95	FX830CD £449.95	
TECHNICS	KT7020 £129.95	ADWX828ED £169.95	DM600IMP P.O.A. DM610IMP P.O.A.	YAMAHA	7720 £299 95	OPENI
SUVZ220ED £99.95 SUVZ320 £139.95	KT6040 £169.95	ADWX929ED£199.95 ADF850 P.O.A.	DM620IMP P.O.A.		ZD3000 £399.95 ZD5000M £449.95	MON - SAT 9-
SLIAKOOK POA	CT3.51 COO O.5	ADF810 £179.95	CELESTION CEL1 P.O.A.	EQUALISERS	ZD7000M £599.95	CLOSED
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AX350 £99.95	402ED £149.95	DRS810 P.O.A.	DITTON 2BL £149.95	TECHNICS	CM7ES £99.95	31/
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M76	£477.73 £599.95		£149.95	
M57	£599.95 £699.95	501 ED 502 ED	£149.95 £179.95 <b>MICHI</b> £239.95	
M77	£799.95	NAKA/	C239 95	
M97 PION	£949.95	PHIL	IPS	
J10	£299.95	CD162	£69.95 £89.95	
J20	£399.95	CD164 CD692	£99.95 £119.95 £129.95 £129.95 £169.95	
J10M	£349.95	CD732 CD930	£119.95	•
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C108CD	£269 95	PDSSOZ	£149.95	
CIUACD	£269.95 £329.95	PDM602ED PDS701	£169.95 £179.95 £179.95	
C190 C195	£329.95 £379.95	PDS702	£179.95	
C159CD	C200 05	PDS801ED	£1/9.95 £199.95	
C209CD	£399.95	CLD2600 PDS802	£177.73 £229.95 £269.95 £299.95	
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CDX120	P.O.A.	CDPM33 CDPM43	£69.95	***
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DCM340*	£349.95	SIPI38	£99.95	
DCD2560° KENW	£599.95	SLPG340ED* SLP520A	£129.95 £129.95	
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DP2050 DP3050 DP3050 DP5050 DP5050 DPM6650 DP7050ED MAR* CD52 ISED CD62 ISED CD62 ISED CD60  CD6	\$229.95 \$239.95 \$249.95 \$149.9	SLPGA40EDS SLPGSA40ENS SLPSSA40AKS CDX650 CDX670 C	E1949 93 E2149 93 E2149 93 E2149 93 E2149 93 E2159 93 E159 93 E169 E169 E169 E169 E169 E169 E169 E169	
DP2050 DP3050 DP3050 DP5050 DP5050 DPM6650 DP7050ED MAR* CD52 ISED CD62 ISED CD62 ISED CD60  CD6	\$229.95 \$239.95 \$249.95 \$149.9	SLPGA40EDS SLPGSA40ENS SLPSSA40AKS CDX650 CDX670 C	E1949 93 E2149 93 E2149 93 E2149 93 E2149 93 E2159 93 E159 93 E169 E169 E169 E169 E169 E169 E169 E169	
DP2050 DP3050 DP3050 DP5050 DP5050 DPM6650 DP7050ED MAR* CD52 ISED CD62 ISED CD62 ISED CD60  CD6	\$229.95 \$239.95 \$249.95 \$149.9	SLPGA40EDS SLPGA40EDS SLPGSA40ENS SLPGSA40ENS SLPGSA40ENS SLPGGA40ENS SLPGGA40	E199,95 E219,95 E219,95 P.O.A. HA E159,95 E169,95 E179,95 E179	
DP2050 DP3050 DP3050 DP5050 DP5050 DPM6650 DP7050ED MAR* CD52 ISED CD62 ISED CD62 ISED CD60  CD6	\$229.95 \$239.95 \$249.95 \$149.9	SLPGA40EDS SLPGA40EDS SLPGSA40ENS SLPGSA40ENS SLPGSA40ENS SLPGGA40ENS SLPGGA40	E1949 93 E2149 93 E2149 93 E2149 93 E2149 93 E2159 93 E159 93 E169 E169 E169 E169 E169 E169 E169 E169	
DP2050 DP3050 DP3050 DP5050 DP5050 DPM6650 DP7050ED MAR* CD53 CD42II CD52IIED CD63 CD52 IISED  LIALL L	\$239.95 \$239.95 \$249.95 NTZ P.O.A. \$129.95 P.O.A. \$199.95 P.O.A. \$	SLPGA40EDS SLPGA40EDS SLPGSA40ENS SLPGSA40ENS SLPGSA40ENS SLPGGA40ENS SLPGGA40	E199,95 E219,95 E219,95 P.O.A. HA E159,95 E169,95 E179,95 E179	



Please supply (mak	e/model)	
I enclose Cheque/P.(	)	Payable "Hyper-fi'
Mastercard or Visa No.	EXPIRY DATE / /	
	Signature	

#### 106 HI-FI CHOICE BUYER'S GUIDE



Key to headphones
Price - typical retail, to nearest
pound.
Type - Opn - open back, vented or
velocity type; gives less environmental isolation, but is usually more natural feeling in extended use. Sid sealed - the headphones form an air
seal around the ears, helping reduce
sound leakage. IR - Infra red cordless.
Ear - in-ear model.

Weight - without cable. Impedance - in ohms.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.



Key to loudspeakers
Price - typical retail, to nearest
pound.
Type - 2x, 3x etc - number of independent drive units, Pt - ported, IBsealed, Active - dedicated active
crossover, needs amps for each driver, ABR - auxiliary bass radiator, Subsubwoofer, Uni-Q - KEF prop. coaxial
drive unit, Horn - horn loading, MC moving coil, ESL - electrostatic, CC coupled cavity, Hybrid - dynamic

bass/ESL or ribbon top.
Sens - output at given power input
level.
Impedance - in ohms. Power - maximum recommended amplifier output.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Туре	Weight	Impedance	Special
HEADPHONES					
Sony MDR-E515V	12	Ear	5	-	1m lead, mini plug
Sony MDR-V50	13	Sld	-	-	-
Sony MDR-E525	15	Ear	5	-	1m lead, mini plug
Sony MDR-24	15	Opn	-	-	7m, 3.5/6.3mm plug
Sony MDR-W12L	16	Ear	-	-	1.2m mini plug
Sony MDR-008TV	17	Opn	-	-	5m, 3.5/6.3mm plug
Sony MDR-E535	18	Ear	5	*	1.2m lead, mini plug
Sony MDR-44	18	Opn	-	-	7m, 3.5/6.3mm plug
Sony MDR-009TV	19	Opn	-	-	5m, 3.5/6.3mm plug
Sony MDR-CD30	20	Sld	47	4	2m, 3.5/6.3mm plug
Sony MDR-E747MP	20	Ear	6	4	1.2m lead, mini plug
Sony MDR-CD50	20	Sld	180	24	2m, 3.5/6.3mm plug
Sony MDR-5747	20	Ear	6	-	1.2m lead, mini plug
Sony MDR-P1TV	22	Sld	-	-	5m, 3.5/6.3mm plug
Sony MDR-A22L	22	Ear	-	-	1.2m mini plug
Sony MDR-CD250EX	28	Sld	-	-	3m, 3.5/6.3mm lead
Sony MDR-CD450	45	Sld	260	24	3m, 3.5/6.3mm plug
Sony MDR-CD550	60	Sld	270	45	3m, 3.5/6.3mm plug
Sonv MDR-D33	70	Sld	120	45	1.5m, 3.5/6.3mm plug
Sony MDR-IF210K	80	IR	170	2	Seven meter range infra red
Sony MDR-D55	90	Sld	120	45	1.5m, 3.5/6.3mm plug
Sonv MDR-CD750	90	Sld	290	45	3m. 3.5/6.3mm plug
Sony MDR-D77	120	Sld	140	45	1.5m, 3.5/6.3mm plug
Sony MDR-610k	190	IR	470	-	Seven meter range infra-red
Sony MDR-CD1000	200	Sld	330	45	1.5m, 3.5/6.3mm plug
Stax SR34	169	Opn	170	-	Horri, G.G. G.G.IIII plag
Stax SR Gamma	239	Opn	300	-	
Stax SR84	259	Opn	160	_	
Stax SR Lambda	349	Opn	325		
Stax Gamma Pro	399	Opn	300		
Stax Lambda Pro	449	Opn	325		
Stax Lambda Fig	549	Opn	325		
Technics RP-HT77	30	Sld	150	32	3m lead
Technics RP-HT86	40	Sld	150	35	3m lead
Technics RP-HT116	60	Sld	190	35	3m lead
Technics RP-F10	100	Sld	300	32	3m lead
				32	
Technics RP-F30	180	Sld	340		3m lead
Vivanco SR35 Micro	12	Ear	4	18	For personal stereos
Vivanco SR65 Mini	13	Opn	30	32	For portable CD players
Vivanco SR25 Micro	14	Ear	4	18	Includes case
Vivanco SR45 Micro	15	Ear	4	18	Including volume control
Vivanco SR474	32	Opn	110	36	Soft ear cushions
Vivanco SR606	40	Opn	225	32	3.5/6.3mm plug
Vivanco SR808	55	Opn	250	30	3.5/6.3mm plug
Vivanco SR909	70	Opn	285	600	Remote control lead, all plugs
Vivanco IR900	70	Opn	235	-	Infra-red cordless
Vivanco SR10001/1	110	Opn	265	100	In-front localisation
Vivanco SR9001s	120	Opn	280	-	Infra-red cordless

Model	Price	Туре	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS	450	0.0	0.0	0	450	04.00.00	Chand are at a saturation
Acoustic Energy Aegis 1	452 799	2x Pt 2x Pt	86 86	8	150 200	21,39,26	Stand mount, metal cone
Acoustic Energy Aegis 2	950		88	8	200	33,106,26	Floor, reflex, metal cone
Acoustic Energy AE1	1175	2x Pt	91	8	200	26,30,18	Metal dome/cone, solid enc
Acoustic Energy AE2		2x Pt 3x Pt	87	6		24,40,32	Twin bass, metal cone
Acoustic Energy AE3	1650	3X Pt		4	250	37,27,63	Simplified metal dome/cone
Advent Mini	99	-	88	8	120	16,28,14	Bookshelf/stand mount
Advent Baby 2	149	2x	89	8	75	26,39,15	Bookshelf/stand mount
Advent Graduate	219	2x	89	8	210	28,44,17	Bookshelf/stand mount
Advent Prodigy	299	-	89	8	300	24,68,20	Floor standing, free space
Advent Legacy 2	349	-	90	8	500	38,67,22	Floor standing, free space
Advent Laureate	499	-	90	8	500	21,80,29	Floor standing, free space
Advent Heritage	579	-	90	8	600	25,89,31	Floor standing, free space
Allison AL100	100	2x	90	4	150	33,24,19	Boundary, stand mount
Allison AL105	170	2x	90	4	150	24,37,21	Boundary, stand mount
Allison MS200	220	-	90	4	75	13,25,14	Boundary, stand mount
Allison AL110	220	-	90	4	150	24,40,23	Floor standing, free space
Allison AL115	280	-	90	4	150	28,51,26	Boundary, stand mount
Allison CD6	300	-	90	4	150	29,29,29	Cuboid, wall mount
Allison CD7	380	-	90	4	150	24,70,24	Floor standing, free space
Allison AL120	420	-	90	4	200	28,61,29	Floor standing, free space
Allison CD8	550	-	90	4	200	27,73,27	Floor standing, free space
Allison AL125	650	-	90	4	200	28,78,29	Open space, free standing
Allison AL130	800	-	90	4	200	32,95,34	Open space, free standing
Allison I.C. 10	2500	-	87	6	200	48,102,27	Floor standing, free space
Allison I.C. 20	5500	=	87	6	400	53,122,31	Floor standing, free space
AMC WM50	120	-	86	8	60	19,28,7	Ceiling mount
AMC WM75	160	-	86	8	80	22,30,9	Ceiling mount
AMC WM100	210	-	86	8	100	26,36,10	Ceiling mount
Apogee Grand	0	Ribbon	86	-	-	71,194,86	Three way ribbon, active sub
Apogee Centaur Minor	1345	Hybrid	88	4	100	30,88,20	Ribbon/dynamic
Apogee Ribbon Wall	1690	Hybrid	89			27,120,7	Ribbon/dynamic

150

24,40,23 Floor standing, free space

220 N/A

	Model	Price	Туре	Sens	Impedance	Power	Size	Special
Accepted CDS Subworder   April   Mortis   AF							5.20	-p-9/m
Mongae Sulpe   364	Apogee Centaur	2300	Hybrid	88	4	150	33,102,25	Ribbon/dynamic
Accepted Supplementary   Accepted Supplement	Apogee CDD Subwoofer	3490	Hybrid	87	+	4	63,38,55	
Acopes Calabar May 699   Acopes Salage   4990   Acopes Calabar May 68   4   20   40,141   27   400   40,141   27   400   40,141   27   42   43   43   44   44   44   44   44				_	-	-		
Access Audio Grant Major   4900   Appendix   4   200   40,142   Appendix   40,000   Ap	, 0 , 0		and the second	-	-	-		
ABONES SALIGO Grand 1 490   14			Section 1999	-	-	-		
AR M.S.   139			and the second second	223	4	200		
ABP From the Partner				_	-	-		
ABF Fur Parlamer  ARP Filmor  ARP Milmor  ARP Di Timor  ARP Di Timor  ARP Di Timor  ARP Cor Parlamer  ARP Cor Parlamer  ARP Cor Parlamer  AR Sulzworder 1MS  AR Porturer  AR MIM  Ary 9  AR MIM  AR Sulzworder  AR MIM  Ary 9  ARY 8  ARY 9  ARY 8  ARY 9  ARY 9  ARY 8  ARY 9			2x					
ARP PITWO  ARP NITWO  ARP NITWO  ARP NITWO  ARP NITWO  ARP ALTHON  ALTHON  ARP ALTHON  ARP ALTHON  ARP ALTHON  ALTHON  ARP ALTHON				10000		1900		
ARP NIT rose			-					
ARP TITNEE  ARP ACHINE Patrine  200  AR ROWNER Patrine  201  ARR MX  202  AR Subnoofer 1MS  300  301  302  AR Subnoofer 1MS  300  303  AR Subnoofer 1MS  300  301  302  303  AR Subnoofer 1MS  300  303  304  305  305  307  308  308  309  308  308  309  308  308			-					
AB Active Partner  AB No. Partner  240  AB MS 299  290  400  8126  244 2.58  Coundary, bookshelf mount  291  AB No. Partner  392  AB No. Partner  393  AP Prover 199  AB No. Partner  399  AB No. Part			-	50703		2000000		
ARR Developer 1MS			Antino	69	0	100		
AR MS Supmorder IMS			Active	- 00	0	100		
AR Subrovier MS			-		_			
AR MS AR Powered Partiner  399 AR Proure 939 AR Proure 939 AR MA 409 AR BS B				Committee of the last of the l				
ARP OF FOUR 1999 39 - 88 8 8 125 25,57,27 1997,16 1997,16 1997,17 1997 1997 1997 1997 1997 1997 1			-	_		_		
AR PK 600			Activo	90	0			
AR MA AR MS			Active	80	0			
AR M6								
AR MG ARCHADEITA 2 300 2x P1 88 88 75 2x B8 80 87 475 22,38,28 Stand mount 161 2x B8 83 80 300 31,72,34 ARSSMDO ART SCMDO 3128 ART SCMDO 3218 3x P1 385 80 300 31,72,34 ARSSMD J ART SCMDO 3218 3x P1 385 80 300 31,72,34 ARSSMD J ART SCMDO 363 3x P1 885 80 300 31,72,34 ARSSMD J ART SCMDO 363 3x P1 885 80 300 31,72,34 ARSSMD J ART SCMDO 363 3x P1 885 80 300 31,72,34 ARSSMD J ARD SCMDO 364 ART SCMDO 365 ART SCMDO 367 ART SCMDO 368 ART SCMDO 497 ARD SCMDO 497 ARD SCMDO 497 ARD SCMDO 499 90 80 100 28,46,23 Free space, stand mount 400 ARD SCMDO 48,623								
Arcambella 2 300								
ATC SCM10			2v Pt					
ATC SCM20								Ottaria Mount
ATC SCM20 Tower  1999  2x B								Massive build
ATC SCM500 3219 3x PI 88 8 8 40,84 150 31,72,43 170 special order 1 ospecial order 1 ospeci								
ATC SCM100  3683  ALF SCMSOA  4497  Active  4498  Audio Note AN-KSP  4499  4498  Audio Note AN-KSP  4499  4498  Audio Note AN-KSP  4499  4497  Audio Note AN-KSP  4499  4497  Audio Note AN-LSP  4499  4497  Audio Note AN-LSP  4499  4497  4406  44						100000		
ATC SCM50A  4497 ACIDS CM100A  ACIDS CM10A  ACIDS CM10A  ACIDS CM100A  ACIDS CM100A  ACIDS CM100A  ACIDS CM100A  A				100		-		
Audio Note AN-KB  409  Audio Note AN-KSP  699  908  8100  28,46,23  Free space, stand mount  Fre				-		350		
Audio Note AN-K/B Audio Note AN-L/B 99								
Audio Note AN-K/SP			-	90		and the same of th		
Audio Note AN-J/B Audio Note AN-J/B 999 - 993		_	-	-0.00				
Audio Note AN-J/SP			-	7.0				
Audio Note AN-E/B  Audio Note AN-E/SP  Audio N			_	and the same of	_			
Audio Note AN-E/SP  Auria SP-50  Auria SP-50  BAO Becova KL1000  BBO BBO BBO RL1000  BBO BBO BBO RL1000  BBO BBO BBO BBO BBO BBO BBO BBO BBO BB		1299	-	94				
Aura SP-50				94				
B80 Beovox CX100         285         2x IB         89         6         100         12,21,21         12,32,21           B80 Beovox RL6000         355         3x         87         8         100         41,54,18         Simplified RL7000           B80 Beovox RL7000         665         3x         88         8         90         45,38,8           B80 Beolab 4500         1350         Active         -         45         45,38,8         Attaches to wall, display           B80 Beolab 4500         1350         Active         -         -         80         20,110,21         Column, two amps, shielded           B80 Beolab 6000         2025         Active         -         -         150         22,165,34         Attaches to wall, display           B8W 2001         120         Pt         87         4         36         18,28,20         Usumn, two amps, shielded           B8W 2001         120         Pt         87         4         36         18,28,20         Usumn, two amps, shielded           B8W 2016 Team         140         Pt         87         4         36         18,28,20         Usumn, two amps, shielded           B8W 2016 Team         150         2x         89         8         70			Pt	87				
B80 Beovox CX1000         395 B80 Beovox RL0000         435 days         87 B 8 9 00         12,32,21 days         Simplified RL7000           B80 Beovox RL0000         435 days         87 B 8 9 00         41,54,18 days         Simplified RL7000           B80 Beolab 4500         665 days         88 B8 B				2007	8	11700		
B&O Beovox RL6000         435         3x         87         8         100         41,54,18         Simplified RL7000           B&O Beovox AFL7000         650         3x         87         8         90         45,38,8           B&O Beolab FO00         615         3x         88         8         200         50,70,24         Twin bass           B&O Beolab B000         1350         Active         -         45         45,38,8         Attaches to wall, display           B&O Beolab B000         2055         Active         -         150         22,165,34         Line array column, two built in amps           B&W 2001         120         Pt         87         4         80         18,28,20         Budget hi-fi range, black ash           B&W 2001         120         Pt         87         4         80         18,28,20         Budget hi-fi range, black ash           B&W 2002         160         Pt         87         4         80         18,28,20         Budget hi-fi range, black ash           B&W 2003         190         Pt         89         4         100         20,43,24         White & black finish           B&W 2003         190         Pt         89         4         100         20,43,	B&O Beovox CX50	285	2x IB	89	6	100	12,21,21	
B80 Beovox 4500         450         2x Pt         87         8         90         45,38,8         Twin bass           B80 Beovox RL7000         665         3x         88         8         200         50,70,24         Twin bass           B80 Beolab 6000         1350         Active         -         45         45,38,8         Attaches to wall, display           B80 Beolab 6000         2025         Active         -         160         20,110,21         Column, two amps, shelded           B80 Beolab Penta         3         2375         Active         -         160         22,165,34         Line array column, three-way           B8W Solid Team         140         Pt         87         4         75         14,20,14         White & black finish           B8W Solid Team Bass         160         Sub         91         4         100         20,45,34         White & black finish           B8W Solid Team Bass         160         Pt         87         4         90         18,52,0         White & black finish           B8W Solid Team Bass         230         Sub         91         4         100         21,36,25         Stand/shelf mount           B8W Colon         190         x B         4         1	B&O Beovox CX100	395	2x IB	89	6	200	12,32,21	
B&O Beovox RL7000         665         3x         88         8         200         50,70,24         Twin bass         Attaches to wall, display           B&O Beolab 6000         11250         Active         -         -         45,38,8         Attaches to wall, display           B&O Beolab 8000         2025         Active         -         -         100         15,132,15         Column, two amps, shielded           B&O Beolab Penta 3         2375         Active         -         -         150         22,165,34         Line array column, three-way           B&W 2001         120         Pt         87         4         80         18,28,20         Line array column, three-way           B&W 2002         160         Sub         91         4         70         16,22,7         In wall           B&W 2002         160         Sub         91         4         100         20,43,24         White & black finish           B&W 2003         190         Pt         87         4         100         21,36,25         Stand/shelf mount           B&W CWIM6         220         2x         89         8         70         23,32,8         Budget hi-fi range, black ash           B&W DME10i         250         2k	B&O Beovox RL6000	435	3x	87	8	100	41,54,18	Simplified RL7000
B80 Beolab 4500         1125         Active         -         -         45         45,38,8         Attaches to wall, display           B80 Beolab 6000         1350         Active         -         -         80         20,110,21         Column, two amps, shielded           B80 Beolab 8000         2025         Active         -         -         150         22,165,34         Line array column, two built in amps           B8W 2001         120         Pt         87         4         80         18,28,20         Budget hi-fi range, black ash           B8W 2001         150         2x         89         8         70         16,22,7         Image to thick thish           B8W 2003         160         2x         89         8         70         16,22,7         Image to thick thish           B8W 2003         190         2x         89         4         100         20,43,24         White & black finish           B8W 2003         190         2x         89         4         100         21,36,25         Stand/shelf mount           B8W W CWM6         20         2x         89         8         70         23,32,8         In wall           B8W Solid Twin Bass         230         Sub         91	B&O Beovox 4500	450	2x Pt	87	8	90	45,38,8	
B&O Beolab 6000         1350 B&O Beolab 6000         Active B&O Beolab 6000         2025 Active 100         15,132,15 Column, two built in amps         Column, two built in amps           B&O Beolab Penta 3         2375         Active 150         22,165,34 Line array column, three-way           B&W 2001         120 Pt 87 4 80 18,28,20 Budget hi-fi range, black ash           B&W Solid Team Bass         150 Sub 91 4 100 20,45,34 White & black finish           B&W 2002         160 Pt 87 4 80 18,35,20 Budget hi-fi range, black ash           B&W 2003         190 Yt 89 4 100 20,45,34 White & black finish           B&W CWM6         220 2x 89 8 70 23,32,8 Bwdget hi-fi range, black ash           B&W CWM6         220 2x 89 8 70 23,32,8 In wall           B&W Solid Twin Bass         230 Sub 91 4 150 45,20,60           B&W Solid Twin Bass         230 Sub 91 4 150 24,49,31         Stand/shelf mount           B&W CWM8         250 Pt 99 4 100 28,38,9         In wall           B&W Solid Ovale         250 Pt 91 4 100 24,83,41         In wall           B&W Solid Ovale         250 Pt 91 4 100 24,49,31         In wall           B&W OWN6         250 Pt 91 4 100 24,49,31         In wall           B&W OWN6         250 Pt 91 4 100 28,38,9         In wall           B&W OWN6         250 Pt 91 4 100 24,49,31         In wall           B&W OWN6	B&O Beovox RL7000	665	3x	88	8	200	50,70,24	Twin bass
B&O Beolab 8000         2025 Active         Active         -         -         100         15,132,15 Column, two built in amps           B&O Beolab Penta 3         2375 Active         -         -         150         22,165,34 Line array column, three-way           B&W 2001         120         Pt         87         4         80         18,28,20         Budget hi-fi range, black ash           B&W Solid Team         140         Pt         87         4         75         14,20,14         White & black finish           B&W Solid Team Bass         160         Sub         91         4         100         20,45,34         White & black finish           B&W 2002         160         Pt         87         4         80         18,35,20         Budget hi-fi range, black ash           B&W 2003         190         Pt         89         4         100         21,36,25         Stand/shelf mount           B&W 2004         250         2x         89         8         70         23,32,8         In wall           B&W Solid Winites         220         2x         89         8         70         23,32,8         In wall           B&W Solid Winites         250         2x Ill         90         8         150	B&O Beolab 4500	1125	Active	-	-	45	45,38,8	Attaches to wall, display
B&O Beolab Penta 3         2375         Active         -         -         150         22,165,34         Line array column, three-way           B&W 2001         120         Pt         87         4         80         18,28,20         Budget hi-fir range, black ash           B&W CWM5         150         2x         89         8         70         16,22,7         White & black finish           B&W Solid Team Bass         160         Pt         87         4         80         18,35,20         Budget hi-fir range, black ash           B&W 2003         190         Pt         89         4         100         20,43,24         Budget hi-fir range, black ash           B&W 2003         190         Pt         89         4         100         20,43,24         Budget hi-fir range, black ash           B&W 2003         190         Pt         89         8         70         23,32,8         In wall           B&W 2006         220         2x         89         8         70         23,32,8         In wall           B&W 2016 World         250         2x IB         89         4         150         42,49,31         3           B&W 2016 World         250         2x IB         89         4	B&O Beolab 6000	1350	Active	-	-	80	20,110,21	Column, two amps, shielded
B&W 2001         120         Pt         87         4         80         18,28,20         Budget hi-fi range, black ash           B&W CWM5         150         2x         89         8         70         16,22,7         In wall         In wall           B&W CWM5         150         2x         89         8         70         16,22,7         White & black finish         In wall           B&W 2002         160         Pt         87         4         80         18,35,20         Budget hi-fi range, black ash           B&W 2003         190         Pt         89         4         100         21,36,25         Stand/shelf mount           B&W CWM6         220         2x         89         8         70         23,32,8         In wall           B&W Solid Twin Bass         230         Sub         91         4         150         45,20,60         White & black finish           B&W Solid Ovalic         250         Pt         90         8         150         17,24,15         Various colours           B&W CWM8         250         2x IB         89         4         150         24,49,31         Stand/shelf mount           B&W CWM8         250         2x IB         89         <	B&O Beolab 8000	2025	Active	-	-	100	15,132,15	Column, two built in amps
B&W Solid Team         140         Pt         87         4         75         14,20,14         White & black finish           B&W CWM5         150         2x         89         8         70         16,22,7         In wall           B&W 2002         160         Pt         87         4         100         20,45,34         White & black finish           B&W 2003         190         Pt         89         4         100         21,36,25         Stand/shelf mount           B&W 2003         190         Pt         89         4         100         20,43,24         Budget hi-fi range, black ash           B&W CWM6         220         2x         89         8         70         23,32,8         In wall           B&W Solid Twin Bass         230         Sub         91         4         150         45,20,60         White & black finish           B&W CMIG         250         2x IB         89         4         150         24,49,31         Stand/shelf mount           B&W DM610i         250         2x IB         89         4         100         28,38,9         Usald           B&W Solid Verticale         400         Sat/sub         84         100         -         Lifestyl	B&O Beolab Penta 3	2375	Active	-		150	22,165,34	Line array column, three-way
B&W CWM5         150         2x         89         8         70         16,22,7         In wall           B&W Solid Team Bass         160         Sub         91         4         100         20,45,34         White & black finish           B&W 2003         190         Pt         87         4         100         21,36,25         Budget hi-fi range, black ash           B&W 2003         190         Pt         89         4         100         20,43,24         Budget hi-fi range, black ash           B&W 2003         190         Pt         89         4         100         20,43,24         Budget hi-fi range, black ash           B&W CWM6         220         2x         89         8         70         23,32,8         In wall           B&W Solid Twin Bass         230         Sub         91         4         150         45,20,60         White & black finish           B&W Solid Twin Bass         230         Sub         91         4         150         24,49,31         Stand/shelf mount           B&W DM610i         250         Pt         91         4         120         20,65,24         Budget hi-fi range, black ash           B&W CWM6         250         2x         90         4 <td>B&amp;W 2001</td> <td>120</td> <td>Pt</td> <td>87</td> <td>4</td> <td>80</td> <td>18,28,20</td> <td>Budget hi-fi range, black ash</td>	B&W 2001	120	Pt	87	4	80	18,28,20	Budget hi-fi range, black ash
B&W Solid Team Bass         160         Sub         91         4         100         20,45,34         White & black finish           B&W 2002         160         Pt         87         4         80         18,35,20         Budget hi-fir range, black ash           B&W 2003         190         Pt         89         4         100         20,43,24         Budget hi-fir range, black ash           B&W CWM6         220         2x         89         8         70         23,32,8         In wall           B&W Solid Twin Bass         230         Sub D         91         4         150         45,20,60         White & black finish           B&W Solid Monitor         250         2x IB         89         4         150         45,20,60         White & black finish           B&W CWMB         250         2x IB         89         4         150         45,20,60         White & black finish           B&W CWMB         250         2x IB         89         4         150         47,24,15         Various colours           B&W CWMB         250         2x IB         89         4         150         24,75,31         In wall           B&W CWMG10i         230         24x 54         100         - <td>B&amp;W Solid Team</td> <td>140</td> <td>Pt</td> <td>87</td> <td>4</td> <td>75</td> <td>14,20,14</td> <td>White &amp; black finish</td>	B&W Solid Team	140	Pt	87	4	75	14,20,14	White & black finish
B&W 2002         160         Pt         87         4         80         18,35,20         Budget hi-fi range, black ash           B&W DM6001         190         Zx IB         87         4         100         21,36,25         Stand/shelf mount           B&W CWM6         220         Zx         89         8         70         23,32,8         In wall           B&W Solid Twin Bass         230         Sub         91         4         150         45,20,60         White & black finish           B&W Solid Monitor         250         Pt         90         8         150         17,24,15         Various colours           B&W CWM8         250         2x IB         89         4         150         24,49,31         Stand/shelf mount           B&W CWM8         250         2x IB         89         4         100         28,38,9         In wall           B&W CWM8         250         Pt         91         4         120         20,65,24         Budget hi-fi range, black ash           B&W OMG01         300         Sat/sub         8         4         100         -         Lifestyle speaker, 3 boxes           B&W DM6201         430         2x/sub         8         4         100	B&W CWM5	150	2x	89	8	70	16,22,7	In wall
B&W 2002         160         Pt         87         4         80         18,35,20         Budget hi-fi range, black ash           B&W DM6001         190         Zx IB         87         4         100         21,36,25         Stand/shelf mount           B&W 2003         190         Pt         89         4         100         20,43,24         Budget hi-fi range, black ash           B&W Solid Twin Bass         230         Sub         91         4         150         45,20,60         White & black finish           B&W Solid Nonitor         250         Pt         90         8         150         17,24,15         Various colours           B&W CWM8         250         2x IB         89         4         150         24,49,31         Stand/shelf mount           B&W CWM8         250         2x IB         89         4         150         24,93,31         In wall           B&W CWIGH         250         Pt         91         4         120         20,65,24         Budget hi-fi range, black ash           B&W DM60i         300         Sat/sub         88         4         100         -         Lifestyle speaker, 3 boxes           B&W DM620i         430         2x,48P         90	B&W Solid Team Bass	160	Sub	91	4	100	20,45,34	White & black finish
B&W 2003         190         Pt         89         4         100         20,43,24         Budget hi-fi range, black ash In wall           B&W CWM6         220         2x         89         8         70         23,32,8         In wall           B&W Solid Twin Bass         230         Sub         91         4         150         45,20,60         White & black finish           B&W Solid Moritor         250         Pt         90         8         150         17,24,15         Various colours           B&W DM610i         250         2x IB         89         4         150         24,49,31         Stand/shelf mount           B&W 2004         250         2x         90         4         100         20,65,24         Budget hi-fi range, black ash           B&W Solid Verlicale         300         Sat/sub         88         4         100         -         Lifestyle speaker, 3 boxes           B&W DM620i         430         2x ABR         90         4         150         24,75,31         Floor standing           B&W MM630i         700         3x Pt         91         4         200         24,85,41         Floor standing           B&W MM640i         90         3x Pt         91 <td< td=""><td></td><td>160</td><td>Pt</td><td>87</td><td>4</td><td>80</td><td></td><td></td></td<>		160	Pt	87	4	80		
B&W CWM6         220         2x         89         8         70         23,32,8         In wall           B&W Solid Twin Bass         230         Sub         91         4         150         45,20,60         White & black finish           B&W DM610i         250         Pt         90         8         150         17,24,15         Various colours           B&W CWM8         250         2x         89         4         150         24,49,31         Stand/shelf mount           B&W CWM8         250         Pt         91         4         120         20,65,24         Budget In-if range, black ash           B&W Solid Verticale         400         Sat/sult         88         4         100         -         Lifestyle, 3 boxes           B&W DM620i         430         2x ABR         90         4         150         24,75,31         Floor standing           B&W MM630i         700         3x Pt         91         4         200         24,85,41         Floor standing           B&W Matrix 805 V/H         895         Pt         87         8         120         33,32,1         Floor standing           B&W Matrix 804         1495         Pt         89         8         200	B&W DM600i	190	2x IB	87	4	100		Stand/shelf mount
B&W Solid Twin Bass         230         Sub         91         4         150         45,20,60         White & black finish           B&W Solid Monitor         250         Pt         90         8         150         17,24,15         Various colours           B&W CWM8         250         2x IB         89         4         150         24,49,31         Various colours           B&W CWM8         250         2x B         99         4         100         28,38,9         In wall           B&W 2004         250         Pt         91         4         120         20,65,24         Budget hi-fi range, black ash           B&W Solid Verticale         400         3x Sufsut         88         4         100         -         Lifestyle speaker, 3 boxes           B&W DM630i         700         3x Pt         91         4         200         24,75,31         Floor standing           B&W Matrix 805 V/H         895         Pt         87         8         120         33,33,21         Outboard tweeter (vert/horiz)           B&W Matrix 804         195         Pt         89         8         200         26,92,26         Matrix enclosure           B&W Matrix 801 S3         3500         Pt         90	B&W 2003	190	Pt	89		100	20,43,24	Budget hi-fi range, black ash
B&W Solid Monitor         250         Pt         90         8         150         17,24,15         Various colours           B&W DM610i         250         2x IB         89         4         150         24,49,311         Stand/shelf mount           B&W CWMB         250         2x IB         89         4         100         28,38,9         In wall           B&W 2004         250         Pt         91         4         120         20,65,24         Budget hi-fir range, black ash           B&W Solid Verticale         400         Sat/sub         88         4         100         -         Lifestyle, 3 boxes           B&W DM630i         400         2x ABR         90         4         150         24,75,31         Floor standing           B&W DM630i         700         3x Pt         91         4         200         24,85,41         Floor standing           B&W MAtrix 805 VH         895         Pt         87         8         120         33,33,21         Outboard tweeter (vert/horiz)           B&W MAtrix 804         1495         Pt         89         8         200         26,92,26         Matrix enclosure           B&W Matrix 802 S3         291         4         200         8 <td>B&amp;W CWM6</td> <td>220</td> <td>2x</td> <td>89</td> <td>8</td> <td>70</td> <td>23,32,8</td> <td>In wall</td>	B&W CWM6	220	2x	89	8	70	23,32,8	In wall
B&W DM610i         250         2x IB         89         4         150         24,49,31         Stand/shelf mount           B&W CWM8         250         2x         90         4         100         28,38,9         In wall           B&W 2010         250         Pt         91         4         120         20,65,24         Budget hi-fi range, black ash           B&W Solid Verticale         400         Sat/sub         88         4         100         -         Lifestyle speaker, 3 boxes           B&W DM620i         430         2x ABR         90         4         150         24,75,31         Floor standing           B&W MBG30i         700         3x Pt         91         4         200         24,85,41         Floor standing           B&W DM640i         900         3x Pt         91         4         200         24,97,41         Floor standing           B&W Matrix 804         1495         Pt         89         8         200         26,92,26         Matrix enclosure           B&W Matrix 802 S3         2445         Pt         90         8         250         26,101,34         Matrix enclosure           B&W Matrix 801 S3         3500         Pt         87         8         <		230	Sub	91	4	150	45,20,60	White & black finish
B&W CWM8         250         2x         90         4         100         28,38,9         In wall           B&W 2004         250         Pt         91         4         120         20,65,24         Budget hi-fi range, black ash           B&W 20id Verticale         400         Sat/sult         88         4         100         -         Lifestyle speaker, 3 boxes           B&W DMG20i         430         2x ABR         90         4         150         24,75,31         Floor standing           B&W MMG30i         700         3x Pt         91         4         200         24,85,41         Floor standing           B&W MAtrix 805 VH         895         Pt         87         8         120         33,33,21         Floor standing           B&W Matrix 804         1495         Pt         89         8         200         26,92,26         Matrix enclosure           B&W Matrix 803 S2         1945         Pt         90         8         500         30,104,37         Matrix enclosure           B&W Matrix 801 S3         3500         Pt         87         8         600         44,100,56         Floor, standing           Bose XL1000         115         Pt         8         600		250	Pt	90		150	17,24,15	
B&W 2004         250         Pt         91         4         120         20,65,24         Budget hi-fi range, black ash           B&W Solid Ovale         300         Sat/sub         88         4         100         -         Lifestyle speaker, 3 boxes           B&W DM620i         430         2x ABR         90         4         150         24,75,31         Floor standing           B&W DM630i         700         3x Pt         91         4         200         24,85,41         Floor standing           B&W Matrix 805 V/H         895         Pt         87         8         120         33,33,21         Outboard tweeter (vert/horiz)           B&W Matrix 804         1495         Pt         89         8         200         26,92,26         Matrix enclosure           B&W Matrix 802 S3         2445         Pt         90         8         500         30,104,37         Matrix enclosure           B&W Matrix 801 S3         3500         Pt         87         8         600         44,100,56         Floor, studio monitor           Bose XL1000         115         Pt         -         8         50         29,19,17         Boses 24,545,24         External crossover           Bose XL2000         160						200000		
B&W Solid Ovale         300         Sat/sub         88         4         100         -         Lifestyle speaker, 3 boxes           B&W Solid Verticale         400         Sat/sub         88         4         100         -         Lifestyle, 3 boxes           B&W DM620i         430         2x ABR         90         4         150         24,75,31         Floor standing           B&W DM630i         700         3x Pt         91         4         200         24,85,41         Floor standing           B&W DM640i         900         3x Pt         91         4         200         24,97,41         Floor standing           B&W Matrix 803         2         1945         Pt         89         8         200         26,92,26         Matrix enclosure           B&W Matrix 803         2         1945         Pt         90         8         250         26,101,34         Matrix enclosure           B&W Matrix 801         33         3500         Pt         87         8         600         44,100,56         Floor, studio monitor           B&W Sulver Signature         4500         Pt         8         50         29,19,17         External crossover           Bose XL3000         160         Pt<						10000		
B&W Solid Verticale         400         Sat/sub         88         4         100         -         Lifestyle, 3 boxes           B&W DM620i         430         2x ABR         90         4         150         24,75,31         Floor standing           B&W DM630i         700         3x Pt         91         4         200         24,85,41         Floor standing           B&W MAtrix 805 WH         990         3x Pt         91         4         200         24,97,41         Floor standing           B&W MAtrix 804         1495         Pt         89         8         200         26,92,26         Matrix enclosure           B&W Matrix 803 S2         1945         Pt         90         8         250         26,101,34         Matrix enclosure           B&W Matrix 801 S3         3500         Pt         87         8         500         30,104,37         Matrix enclosure           B&W Silver Signature         4500         Pt         88         8         120         25,45,24         External crossover           Bose XL1000         115         Pt         -         8         50         29,19,17         29,19,17           Bose XL3000         180         Pt         -         8			The state of the s			175,000	20,65,24	
B&W DM620i         430         2x ABR         90         4         150         24,75,31         Floor standing           B&W DM630i         700         3x Pt         91         4         200         24,85,41         Floor standing           B&W Matrix 804         190         3x Pt         91         4         200         24,97,41         Floor standing           B&W Matrix 804         1495         Pt         89         8         200         26,92,26         Matrix enclosure           B&W Matrix 803 S2         1945         Pt         90         8         250         26,101,34         Matrix enclosure           B&W Matrix 801 S3         3500         Pt         87         8         600         44,100,56         Floor, studio monitor           Bose XL1000         115         Pt         -         8         50         29,19,17         External crossover           Bose XL2000         160         Pt         -         8         70         36,23,18         Black finish           Bose XL3000         180         Pt         -         8         70         36,23,18         Black finish           Bose VS100         250         -         -         8         100         <			100000000000000000000000000000000000000				-	
B&W DM630i         700         3x Pt         91         4         200         24,85,41         Floor standing           B&W Matrix 805 V/H         985         Pt         87         8         120         33,33,21         Floor standing         Outboard tweeter (vert/horiz)           B&W Matrix 804         1495         Pt         90         8         200         26,92,26         Matrix enclosure           B&W Matrix 803 S2         1945         Pt         90         8         250         26,101,34         Matrix enclosure           B&W Matrix 801 S3         3500         Pt         87         8         600         44,100,56         Floor, studio monitor           B&W Silver Signature         4500         Pt         88         8         120         25,45,24         External crossover           Bose XL2000         160         Pt         -         8         50         29,19,17         Bose 20         Bose 21,200         Bose 21         Pt         -         8         90         47,29,23         Black finish           Bose XL3000         180         Pt         -         8         90         47,29,23         Black finish           Bose LY000         250         -         -         8 <td></td> <td></td> <td>A COMPANY OF THE PARK OF THE P</td> <td></td> <td></td> <td></td> <td>-</td> <td></td>			A COMPANY OF THE PARK OF THE P				-	
B&W Matrix 805 V/H         895         Pt         87         8         120         33,33,21         Outboard tweeter (vert/horiz)           B&W MM640i         900         3x Pt         91         4         200         24,97,41         Floor standing           B&W Matrix 804         1495         Pt         89         8         200         26,92,26         Matrix enclosure           B&W Matrix 803 S2         1945         Pt         90         8         250         26,101,34         Matrix enclosure           B&W Matrix 801 S3         3500         Pt         87         8         600         44,100,56         Floor, studio monitor           BSW SUBVER Signature         4500         Pt         8         70         36,23,18         External crossover           Boses XL3000         160         Pt         -         8         70         36,23,18         Black finish           Bose XL4000         180         Pt         -         8         90         47,29,23         Black finish           Bose XL4000         250         -         -         4         60         13,23,15         Black finish           Bose VIdeo Nommental         270         -         -         8         -			A CONTRACTOR OF THE PERSON NAMED IN					
B&W DM640i         900 bit         3x Pt bit         91 bit         4 control of the pit         200 control of the pit         24,97,41 bit         Floor standing bit with enclosure           B&W Matrix 803 S2         1945 bit         Pt         89 8 200 26,92,26 bit         Matrix enclosure           B&W Matrix 802 S3         2445 bit         90 8 500 30,104,37 bit         Matrix enclosure           B&W Matrix 801 S3         3500 bit         Pt         87 8 600 44,100,56 bit         Floor, studio monitor           Bose XL1000 bit         115 bit         - 8 50 29,19,17 bit         29,19,17 bit         External crossover           Bose XL2000 bit         160 bit         - 8 70 36,23,18 bit         Bit         Bit         - 7,29,23 bit           Bose St XL3000 bit         180 bit         - 8 90 47,29,23 bit         Bit         Bit         - 8 100 57,32,30 bit           Bose St XL4000 bit         220 bit         - 8 100 57,32,30 bit         Bit         Bit         - 23,15,15         Bit           Bose St 161 Freestyle         275 bit         - 6 60 24,14,16 bit         Waterproof/suitable for extrem           Bose Cyluter RoomMate         300 Active         - 60 24,14,16 bit         Self powered AC/shielded, vol           Bose Roomate II         300 Active         - 60 24,14,16 bit         Self powered AC/shielded, vol<				-	_			
B&W Matrix 804         1495         Pt         89         8         200         26,92,26         Matrix enclosure           B&W Matrix 803 S2         1945         Pt         90         8         250         26,101,34         Matrix enclosure           B&W Matrix 801 S3         3500         Pt         87         8         600         44,100,56         Floor, studio monitor           Bose XL1000         115         Pt         -8         50         29,19,17         External crossover           Bose XL2000         160         Pt         -8         90         47,29,23         Back thisis           Bose XL4000         190         -         4         60         13,23,15         Black finish           Bose XL4000         220         Pt         -         8         100         57,32,30         Black finish           Bose VS100         250         -         -         8         60         24,14,16         Waterproof/suitable for extrem           Bose 161 Freestyle         275         -         6         60         25,14,16         Self powered AC/shielded, vol           Bose Cyluter RoomMate         300         Active         -         60         24,14,16         Self powered AC/shielded, vol								
B&W Matrix 803 S2         1945         Pt         90         8         250         26,101,34         Matrix enclosure           B&W Matrix 801 S3         2445         Pt         90         8         500         30,104,37         Matrix enclosure           B&W Silver Signature         4500         Pt         87         8         600         44,100,56         Floor, studio monitor           Bose XL1000         115         Pt         -         8         50         29,19,17           Bose XL2000         160         Pt         -         8         50         29,19,17           Bose XL3000         180         Pt         -         8         90         47,29,23           Bose XL4000         190         -         -         4         60         13,23,15         Black finish           Bose VA1000         220         Pt         -         8         100         57,32,30         Black finish           Bose Sc V1000         250         -         -         8         -         23,15,15           Bose 151 Environmental Sose 201 Ser III         270         -         -         6         60         24,14,16         Waterproof/suitable for extrem           Bose 20 Ser User R					_			
B&W Matrix 802 S3         2445 Pt         90         8         500         30,104,37 Matrix enclosure         Matrix enclosure           B&W Matrix 801 S3         3500         Pt         87         8         600         44,100,56         Floor, studio monitor           Bose XL 1000         115         Pt         -8         8         120         25,452,18         External crossover           Bose XL 2000         160         Pt         -8         70         36,23,18         Base In Instance           Bose XL 3000         180         Pt         -8         90         47,29,23         Back finish           Bose XL 4000         220         Pt         -8         100         57,32,30         Back finish           Bose VS100         250         -8         -23,15,15         Back finish         Back finish           Bose 151 Environmental Bose 161 Freestyle         275         -8         -23,15,15         Waterproof/suitable for extrem           Bose 201 Ser III         290         -8         -8         38,20,25         Direct/reflecting technology           Bose Cyuter RoomMate         300         Active         -         -60         24,14,16         Self powered AC/shielded, vol           Bose Roomate II         300			_					
B&W Matrix 801 S3         3500         Pt         87         8         600         44,100,56         Floor, studio monitor           B&W Siliver Signature         4500         Pt         88         8         120         25,45,24         External crossover           Bose XL2000         160         Pt         -         8         50         29,19,17         29,19,17           Bose XL3000         180         Pt         -         8         90         47,29,23         47,29,23           Bose IO1 Mible Monitor         190         -         -         4         60         13,23,15         Black finish           Bose VX1000         220         Pt         -         8         100         57,32,30         Black finish           Bose SV100         250         -         -         8         -         23,15,15         Black finish           Bose SV300         250         -         -         8         -         23,15,15         Waterproof/suitable for extrem           Bose 151 Freestyle         275         -         -         6         60         25,14,16         Waterproof/suitable for extrem           Bose 20 Sec Pouter RoomMate         300         Active         -         -								
B&W Silver Signature         4500         Pt         88         8         120         25,45,24         External crossover           Bose XL1000         115         Pt         -         8         50         29,19,17         -           Bose XL3000         180         Pt         -         8         70         36,23,18           Bose XL4000         190         -         -         4         60         13,23,15         Black finish           Bose VS100         250         -         -         8         -         23,15,15         Black finish           Bose 151 Environmental         270         -         -         6         60         24,14,16         Waterproof/suitable for extrem           Bose 201 Ser III         290         -         -         8         60         38,20,25         Direct/reflecting technology           Bose Video RoomMate         300         Active         -         -         60         24,14,16         Self powered AC/shielded, vol           Bose Roomate II         300         Active         -         -         60         24,14,16         Self powered AC/12V DC								
Bose XL1000								
Bose XL2000				88				External crossover
Bose XL3000				-				
Bose 101 M'ble Monitor   190   -				-				
Bose XL4000			Pt	-				Disabilitate
Bose VS100   250     8   -   23,15,15     270     6   60   24,14,16     Waterproof/suitable for extrem			- Dt	-				BIACK TINISN
Bose 151 Environmental   270   -			Pt	-		100		
Bose 161 Freestyle         275         -         -         6         60         25,14,16         Direct/reflecting technology           Bose 201 Ser III         290         -         -         8         60         38,20,25         Direct/reflecting technology           Bose C'puter RoomMate         300         Active         -         -         60         24,14,16         Self powered AC/shielded, vol           Bose Roomate II         300         Active         -         -         60         24,14,16         Self powered AC/shielded, vol			-	-		-		Makagagatta
Bose 201 Ser III         290         -         -         8         60         38,20,25         Direct/reflecting technology           Bose C'puter RoomMate         300         Active         -         -         60         24,14,16         Self powered AC/shielded, vol           Bose Video RoomMate II         300         Active         -         -         60         24,14,16         Self powered AC/shielded, vol           Bose Roomate II         300         Active         -         -         60         24,14,16         Self powered AC/12V DC			-	-	2.5	170		Waterproot/suitable for extrem
Bose C'puter RoomMate         300         Active         -         -         60         24,14,16         Self powered AC/shielded, vol           Bose Video RoomMate         300         Active         -         -         60         24,14,16         Self powered AC/shielded, vol           Bose Roomate II         300         Active         -         -         60         24,14,16         Self powered AC/12V DC			*			177/W/W		Direct/reflection to the
Bose Video RoomMate         300         Active         -         -         60         24,14,16         Self powered AC/shielded, vol           Bose Roomate II         300         Active         -         -         60         24,14,16         Self powered AC/12V DC			Α-4:	-	8	11000		
Bose Roomate II 300 Active - 60 24,14,16 Self powered AC/12V DC				-				The state of the s
				-	*	1952	The second second second	
DOSE SOLIVINI SOU - 8 /3 Z4,43,27 Direct/reflecting technology			ACTIVE	-	- 0		THE RESERVE AND ADDRESS OF THE PARTY OF THE	
	Page 201 VAA				- 14		144371	• Threchtenechod technology



Key to loudspeakers
Price - typical retail, to nearest
pound.
Type - 2x, 3x etc - number of independent drive units, Pt - ported, IB
sealed, Active - dedicated active
crossover, needs amps for each driver, ABR - auxiliary bass radiator, Sub
- subwoofer, Uni-Q - KEF prop. coaxial
drive unit, Horn - horn loading, MCmoving coil, ESL - electrostatic, CC
- coupled cavity, Hybrid - dynamic

bass/ESL or ribbon top.
Sens - output at given power input
level.
Impedance - in ohms. Power - maximum recommended amplifier output.
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Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.



Key to loudspeakers Price - typical retail, to nearest pound.

Priće - typical retail, to nearest pound.
Type - 2x, 3x et. number of independent drive units, Pt. ported., IB-sealed, Active - dedicated active crossover, needs amps for each driver, ABR - auxiliary bass radiator, Sub-subwoofer, Uni-Q - KEF prop. coaxial drive unit, Horn - horn loading, MC - moving coil, ESL - electrostatic, CC - coupled cavity, Hybrid - dynamic

bass/ESL or ribbon top.
Sens - output at given power input level.
Impedance - in ohms. Power - maximum recommended amplifier output. Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

		couple	ed cavity	, Hybi	rid - dynan	nic				coupled ca	
Model	Price	Туре	Sens	Impedance	Power	Size	Special	Model	Price	Туре	Sens
LOUDSPEAKERS	400	0		0	100	00.45.00	Tall stand second beautiful	LOUDSPEAKERS	420	2Dt	00
30se 305	430	2x	-	8	100	23,45,28	Tall stand mount, boundary	Fullers Sultan H.E. Fullers Pharaoh 1	439 649	2xPt 2xPt	98 88
Bose A'mass AM3 II Bose 401	500 500	-		4-8	50 100	36,20,20 30,30,76	Acoustimass technology Direct/reflecting technology	Fullers Audio Pharoah 1	649	ZXFL	88
Rose SE-5 Ser II System	760		-	4-8	100	90,100,18	Direct/renecting technology	Fullers Sphinx	839	3x	89
Bose A'mass AM511	760	-		4-8	200	49,35,19	Acquatimage direct/reflection	Fullers A Sphinx	999	3X	89
Bose A'mass AM7	830		-			35,49,19	Acoustimass direct/reflecting	Fullers Pharaoh 2	1200	3xPt	88
ose 601 MKIII	880	-	-	4-8 8	100		Acoustimass direct/reflecting  Direct/reflecting technology	Fullers A Pharoah 2	1200	SXFL	88
lose 901 V1	1650	4	-		200	32,31,76	Direct/reflecting technology	Fullers Pharaoh 3	2499	4xPt	88
lost 901 V1		1x	- 00	8	-	33,53,32	0 0,	Fullers A Pharoah 3	2499	4871	88
Soston Acoustics 325	139 139	2x	89	8	50	25,16,18	Bookshelf, black	Genelec 1019A	1572	Active	00
	169	-	90 89	8	50	17,17,5	Wall/ceiling white flush mount White indoor/outdoor system	Genelec 1019A Genelec Blamp 1031A	2068		-
Boston Runabout		2	90	8	50	22,15,16		The second secon	3055	Active Active	-
loston Acoustics HD7 loston Satellites	169 170	2x			75	36,23,18	Bookshelf, black	Genelec Triamp S30	4982	Active	-
The contract of the contract o		2x	89	8	50	04 17 0	Satellite speakers	Genelec Triamp 1037A	80	Active	-
Roston Acoustics 350	179	-	-	4	50	24,17,6	Wall/ceiling white flush mount	Genexxa GX330		-	00
Boston Acoustics 335	179	-	90	8	50	18,9	Wall mount, round	Genexxa GX650	140	-	90
Boston Acoustics HD8	199	-	90	8	75	46,29,20	Stand/shelf, black	GLL Arena	89	-	87
Boston 360 Ser II	209	- ADD	89	8	60	22.15,7	Wall/ceiling, white, flush mou	GLL Maxim	119	-	86
Boston Acoustics HD9	249	2x ABP	90	8	100	62,32,25	Stand/shelf mount	GLL Mezzo	159	-	88
oston Acoustics 380	249	-	90	8	75	31,24,8	Wall/ceiling white flush mount	GLL Magnum	199	- A - 11	86
Boston Acoustics Voyager	299	-	89	8	60	26,16,17	White indoor/outdoor, metal	Goodmans Active 75	65	Active	7.
Boston Acoustics SW10	449	Sub	-	-	100	34,17,42	Powered subwoofer	Goodmans M100	80	2x	86
Boston SubSat Six	450	Sat/sut	89	8	100	-	Passive subs and two satellite	Goodmans HT100	100	-	86
Soston SubSat 7	549	-	89	8	125	-	PAssive sub & 2 satellites	Goodmans HT170	150	-	92
Boston Lynfield 300L	1499	-	83	8	250	23,34,28	Stand mount, black	Grundig MBX310	80	3xPt	-
Boston Lynfield 500L	4449	-	85	5	350	122,23,47	Free stand, separate bass/top	Grundig BX1	150	2x Pt	-
Canon S-30	180	2x Pt	90	6	75	25,31,28	Wide imaging stereo	Grundig BX2	230	3x Pt	-
Canon V-100	210	2x Pt	90	4	75	25,325,17	Corner mount	Grundig BX3	350	2x Pt	-
Canon V-SB100	250	Sub	88	6	150	37,34,21	Subwoofer for V100	Harbeth HL-P3	479	IB	83
Canon S-50	350	2x Pt	89	8	100	25,31,25	Wide imaging stereo	Harbeth BBC LS3/5A	539	IB	82
Canon S-70	695	2x Pt	89	6	150	25,780,25	Wide imaging stereo	Harbeth HL-5	999	Pt	86
Castle Trent II	189	Pt	89	8	60	20,34,18	Shelf/stand, nine finishes	Harbeth BBC LS5/12A	999	Pt	82
Castle Durham II	249	Pt	89	8	75	22,40,23	Shelf/stand, nine finishes	Harman-Kardon LS0200	149	1	87
Castle Durham 900	279	Pt	90	8	85	22,40,23	Shelf/stand, nine finishes	Harman-Kardon LS0300	199		88
									830		90
Castle York	349	Pt	89	8	100	26,43,22	Shelf/stand, nine finishes	Helius Syrius IV		- D)	
Castle Chester	649	-	90	8	100	23,91,25	Free standing, nine finishes	Helius Syrius III	1330	Pt	90
Castle Howard	999	-	90	8	125	26,104,41	Free standing, nine finishes	Helius Syrius II	1975	Pt	95
Castle Winchester	1499	3x	90	8	150	42,108,23	Free standing, quarter wave	Helius Syrius I	2500	Pt	93
Celestion 1	109	-	86	8	50	16,27,21		Heybrook Prima	130	Pt	87
Celestion CSC	129	-	89	6	75	33,13,15		Heybrook Solo	189	2x	89
Celestion 3 MKII	129	-	88	8	75	21,31,18	Integrated LF/baffle moulding	Heybrook HB1	259	2x	90
Celestion CS135	139	-	86	8	90	52,19,34		Heybrook Trio	359	2x	89
Celestion CS2	149	÷	86	8	60	16,29,22		Heybrook Quartet	555	-	90
Celestion CS4	169	+	87	8	75	18,33,23		Heybrook Sextet	1099	3x	88
Celestion 5 MkII	169	-	89	8	90	25,35,21	Larger version of Celestion 3	Impulse H7	835	Horn	88
Celestion 9	269	-	89	8	100	21,50,25		Impulse H6	1425	Horn	89
Celestion 15	389	-	89	8	100	21,100,23		Impulse H5	1675	Horn	93
Celestion SL6Si	429	2x	84	8	120	20,38,27	Compact stand mount, free spac	Impulse H2	2385	Horn	94
Celestion CS6	449	_	88	8	100	19,85,31		Impulse H1	3400	Horn	96
Celestion CS8	499	-	88	8	120	19,100,31		Infinity Ref 10	200	IB	90
Celestion 100	539	2	84	8	120	21,42, 26		Infinity Ref 20	300	IB	90
Celestion St 12si	629	2	86	8	150	20,53,29		Infinity Inf IV Sat	300	1B	90
Celestion SL600si	820	2	82	8	120	20,37,24	Aerolam lightweight enclosure	Infinity Ref 30	400	IB	90
Celestion 300	1099		84	8	120	21,97,33	7 to local in light weight of closed o	Infinity Inf Micro	400	Pt/sub	90
Celestion 700SE	1435		82	8	120	20,37,24		Infinity SSW-10 Sub	500	Active	-
Cerwin Vega L-7	150	2v	92	8	75	23,36,23	Bookshelf, high sensitivity	Infinity Modulus	795	Pt	86
Cerwin Vega L-7 Cerwin Vega VS8		24	92	6			Bookshelf Bookshelf	Infinity Modulus Infinity Modulus Sats	795	IB	88
	250 300	2x Sat/sub	94	0	100	28,51,29 22,25,32	3 box satellite/subwoofer	Infinity Kappa 6.1i	995	Pt	89
Cerwin Vega SAT-6			95	6	125				1195	Pt	89
Cerwin Vega VS10	350	3x		6	125	33,70,29	Floor standing Floor standing	Infinity Kappa 7.1i	100	11	03
Cerwin Vega VS12 Cerwin Vega DC10	550	3x Pt	97 96	4	250	42,81,38 29,94,35	Floor standing Floor standing	Interaudio XL1000 Interaudio XL2000	140		
	550	3x Pt		-	200					-	-
Cerwin Vega DC12	650	3x Pt	98		300	36,98,35	Floor standing	Interaudio XL3000	160	-	
Cerwin Vega VS15	700	3x Pt	102	4	400	46,90,47	Floor standing	Interaudio XL4000	200	0.10	
Cerwin Vega DC15	850	3x Pt	100	-	500	44,103,46	Floor standing	Jamo Sat 160	100	2x IB	90
Cerwin Vega 1515	1300	6x Pt	103	4	600	44,135,46	Floor standing, hi sensitivity	Jamo D115	100	-	90
Chord Sys Audio 905	249	2x	-	-	-	2		Jamo Compact 500	100	2x Pt	90
Clements 300si	645	-	89	4-8	90	24,36,36		Jamo Cornet 30.3	100	2x Pt	88
Clements 600si	995	-	88	4-8	100	24,81,36		Jamo Sat 200	110	2x	90
Clements Reference 1	1695	-	86	8	100	20,43,29		Jamo Outdoor	110	2x IB	90
Clements Reference 7	3750	-	88	4.5	200	25,114, 4		Jamo Sat 300	120	2x	90
Dali 102	250	-	88	6	100	21,32,26		Jamo Compact 700	120	2x Pt	91
Dali 104	400	-	93	4	120	86,22,27		Jamo Cornet 40.3	130	2x Pt	89
Dali 400	700	2	93	4	180	24,97,34		Jamo Sat 500	150	2x Pt	90
Dali Skyline 1000	1600	2	88	-	120	-		Jamo D135	150	-	93
Dali Skyline 2000	2200	-	88	4	120	51,160,45		Jamo Converta	150	2x Pt	90
Dawn Audio Chorus BS	482	2x IB	89	8	120	26,38,21	Bookshelf	Jamo Compact 1000	150	EAT C	92
Dawn Audio Chorus BS	698		89		-			Jamo Compact 1000 Jamo D165	180		93
		2x IB		8		26,88,21	Floor standing	THE PARTY OF THE P		Ov Dt	1000000
Dawn Audio Symphony	1995	3x IB	91	8	70	34,113,32	Floor standing	Jamo Cornet 60.3	180	2x Pt	90
Denon SCM2	80	IB O	87	6	70	19,28,20	UK designeed & built	Jamo Outdoor 2	200	2x Pt	90
ECA SERV A.2	1850	2x Pt	80	8	150	22,102,30	True ribbon tweeter	Jamo SW160 System	230		90
Epos ES11	395	Pt	87	8	75	20,38,25	Free space, stand mount	Jamo Art	230	2x Pt	88
Epos ES14	595	Pt	87	8	100	23,49,29	Free space, stand mount	Jamo 307	270	2x Pt	87
	225	-	87	8	75	27,46,25		Jamo BX100	300	3x Pt	91
								The second secon			
Faraday FS1 Faraday SG	345	-	89	4	75	27,26,25		Jamo 407	350	2x Pt	88
		-	89 90	4	75 80	27,26,25 27,46,25	3 finishes	Jamo 407 Jamo Graphic	350 350	2x Pt 2x Pt	88

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see page 123.

Model	Price	Туре	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS			7		ALC: N		
Fullers Sultan H.E.	439	2xPt	98	8	90	24,51,30	High sensitivity, 3 finishes
Fullers Pharaoh 1	649	2xPt	88	8	60	20,30,20	Curved sides, various finishes
Fullers Audio Pharoah 1	649	-	88	8	70	20,30,20	
Fullers Sphinx	839	3x	89	8	70	25,91,30	Floor standing, var finishes
Fullers A Sphinx	999	U	89	8	70	25,91,30	3,
Fullers Pharaoh 2	1200	3xPt	88	8	80	39,100,31	Pharaoh 1 with added bass encl
Fullers A Pharoah 2	1200	JAF L		8	80		rilaraon i with added bass elici
			88			39,100,31	
Fullers Pharaoh 3	2499	4xPt	88	8	150	46,118,45	Pharaoh + bass & subbass encls
Fullers A Pharoah 3	2499	=	88	-	-	46,118,45	
Genelec 1019A	1572	Active	-3	-:	28	23,31,25	
Genelec Blamp 1031A	2068	Active			104	25,39,29	
Genelec Triamp S30	3055	Active	-	-	108	32,50,32	
Genelec Triamp 1037A	4982	Active			191	40,68,30	
Genexxa GX330	80	7101110		6	50	35,21,24	-
			90		60		
Genexxa GX650	140	-		8		23,76,26	
GLL Arena	89	-	87	6	70	26,23,14	
GLL Maxim	119	-	86	6	100	10,26,17	
GLL Mezzo	159	-	88	6	100	21,36,25	
GLL Magnum	199	~	86	6	100	25,42,29	
Goodmans Active 75	65	Active		-	80	-	
Goodmans M100	80	2x	86	8	75	17,26,20	Pankahalf alasa ta wall
		<b>C</b> A					Bookshelf, close to wall
Goodmans HT100	100	1	86	8	60	25,53,20	
Goodmans HT170	150	-	92	8	100	25,70,22	
Grundig MBX310	80	3xPt	-	4	70	18,42,29	3 drivers, 2 way
Grundig BX1	150	2x Pt	-	4	60	23,40,30	16 litre
Grundig BX2	230	3x Pt	-	4	80	24,49,33	22 litre
Grundig BX3	350	2x Pt	- 1	4	120	24,107,34	53 litre, 3 drivers, 2 way
Harbeth HL-P3	479	IB	83	4	100	19,31,17	Free standing, shielded, biwir
Harbeth BBC LS3/5A	539	IB	82	10	75	19,31,17	Free standing, shielded, diwil
							0
Harbeth HL-5	999	Pt	86	8	100	63,33,32	Free standing
Harbeth BBC LS5/12A	999	Pt	82	8	120	60,19,22	Free standing, biwire, shielde
Harman-Kardon LS0200	149	-	87	8	50	21,35,30	
Harman-Kardon LS0300	199	-	88	8	75	21,38,80	
Helius Syrius IV	830	-	90	4	200	23,61,28	
Helius Syrius III	1330	Pt	90	8	250	31,97,16	
Helius Syrius II	1975	Pt	95	4	300	36,107,16	
		Pt		4	500		Floor standing biving
Helius Syrius I	2500		93			36,107,16	Floor standing, biwire
Heybrook Prima	130	Pt	87	6	60	20,29,18	Bookshelf or stands
Heybrook Solo	189	2x	89	6	75	23,36,23	Boundary design, stands requir
Heybrook HB1	259	2x	90	8	75	29,47,23	Boundary, stands required
Heybrook Trio	359	2x	89	8	75	24,47,25	
Heybrook Quartet	555		90	8	80	24,41,22	
Heybrook Sextet	1099	3x	88	8	200	27,90,20	With stands
Impulse H7	835	Horn	88	8	70	14,80,29	Floor standing
Impulse H6	1425	Horn	89	8	100	19,91,35	Floor standing
Impulse H5	1675	Horn	93	8	100	27,90,45	Floor standing
Impulse H2	2385	Horn	94	8	100	26,116,45	Floor standing
Impulse H1	3400	Horn	96	8	100	36,103,68	Floor standing
Infinity Ref 10	200	IB	90	6	75	23,37,23	Pedestal
Infinity Ref 20	300	IB	90	6	100	27,47,26	Pedestal
Infinity Inf IV Sat	300	IB	90	6	80	16,24,18	Wall mount, shielded
	400	IB	90		100		
nfinity Ref 30				6	110000	27,84,25	Floor standing
Infinity Inf Micro	400	Pt/sub	90	6	100	21,x 127d	Two satellites and passive sub
Infinity SSW-10 Sub	500	Active		-	-	34,34,33	
Infinity Modulus	795	Pt	86	5	200	27,31,18	High end compact
Infinity Modulus Sats	795	1B	88	5	125	31,18,27	Pedestal
Infinity Kappa 6.1i	995	Pt	89	6	150	31,95,25	Floor standing
Infinity Kappa 7.1i	1195	Pt	89	6	225	36,108,26	Floor standing
Interaudio XL1000	100		-	8	50	19,29,17	
Interaudio XL2000	140			8	70	23,36,18	
Interaudio XL3000	160	-	-	8	70	29,46,23	
Interaudio XL4000	200		-	8	75	32,56,29	
Jamo Sat 160	100	2x IB	90	8	50	14,19,48	Shelf/wall mount, with wall br
Jamo D115	100	-	90	4-8	60	24,42,22	
Jamo Compact 500	100	2x Pt	90	8	60	16,25,20	High sensitivity, utility desi
Jamo Cornet 30.3	100	2x Pt	88	8	55	20,32,23	Black ash - Mahogany £20 extra
Jamo Sat 200	110	2x	90	8	50	15,22,8	Stereo passive subwoofer
Jamo Outdoor	110	2x IB	90	8	50	19,34,48	Including wall brackets, weath
			90	8	50	15,21,8	Use with SW500
Jamo Sat 300	120	2x					
lamo Compact 700	120	2x Pt	91	8	70	19,30.20	High sensitivity, utility desi
Jamo Cornet 40.3	130	2x Pt	89	8	60	20,32,23	Black ash - Mahogany £20 extra
lamo Sat 500	150	2x Pt	90	8	50	16,21,14	Satellites for SW500
Jamo D135	150	-	93	4-8	80	28,52,25	
Jamo Converta	150	2x Pt	90	8	50	9,25,24	Lamp-like appearance
Jamo Compact 1000	150	LATE	92	8	90	23,37,22	High sensitivity, utility desi
THE RESIDENCE AND ADDRESS OF THE PARTY.							ringir seristivity, utility desi
Jamo D165	180	. 5	93	4-8	100	28,52,25	
Jamo Cornet 60.3	180	2x Pt	90	8	80	23,42,27	Black ash - Mahogany £20 extra
Jamo Outdoor 2	200	2x Pt	90	4	60	18,32,12	Including wall brackets, weath
Jamo SW160 System	230	-	90	8		20,34,48	Compact passive subwoofer
Jamo Art	230	2x Pt	88	8	60	35,40,9	Shape and size of shallow 20 i
Jamo 307	270	2x Pt	87	6	70	18,31,27	Stand mount
Jamo BX100	300	3x Pt	91	8	100	22,55,28	Floor or stand mount
Jamo 407	350	2x Pt	88	6	80	22,41,29	Stand mount
Inner Overbir	350	2x Pt	88	6	60	39,44,8	Wall mount
Jamo Graphic	380	LAIL	88	-	00	00,11,0	Wall Mount

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Floor standing, free space

#### 108 HI-FI CHOICE BUYER'S GUIDE



Key to loudspeakers
Price - typical retail, to nearest
pound.
Type - 2x, 3x etc - number of independent drive units, Pt - ported, IB sealed, Active - dedicated active
crossover, needs amps for each drivver, ABR - auxiliary bass radiator, Sub
- subwoofer, Uni-Q - KEF prop. coaxial
drive unit, Horn - horn loading, MC
- moving coil, ESL - electrostatic, CC
- coupled cavity, Hybrid - dynamic

bass/ESL or ribbon top.
Sens - output at given power input level.
Impedance - in ohms. Power - maximum recommended amplifier output.
Size - width x height x depth in cm.

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		coupie	d Cavity	, пуы	rid - dynan	IIC	
Model LOUDSPEAKERS	Price	Туре	Sens	Impedance	Power	Size	Special
Jamo D365	390		96	4-8	200	46,78,35	
Jamo BX150	390	3x Pt	82	8	150	28,83,31	Floor mount
Jamo Silhouette	400	=	90	5	80	25,122,17	Tion mount
Jamo SW500 System	430	2x	90	8	140	41,38,53	Passive stereo subwoofer
Jamo BX200	450	3x Pt	83	8	250	43,72,33	Floor mount
Jamo 477	500	2x Pt	86	4	100	19,77,29	Floor standing
Jamo 507	700	3x Pt	88	4	150	22,91,37	•
Jamo 707	900	3x Pt	90	4	200	24,104,39	
Jamo Oriel	6000	3x	87	6	300	40,178,30	Floor standing, coupled cavity
JBL Control One	115	2xPt	87	4	150	24,156,14	Shielded, wall mountable
JBL 4208	449	-	89	8	300	29,45,23	
JBL L1	479	2x Pt	87	8	200	25,40,20	Asymmetric, time aligned
JBL HTS-1	629	-	-		150	-	
JBL L3	699	2x Pt	89	8	200	30,86,24	Asymmetric, time aligned
JBL HTS-2 system	800 999	-	-	4	150	-	
JBL HTS-3 JBL L5	1299	3x Pt	90	6	180 300	26,45,33	Asymmetric, time aligned
JBL Ti 1000	1500	2x IB	89	4	150	20,43,33	Asymmetric, double wall
JBL L7	1699	4x Pt	89	4	200	117,25,45	Asymmetric, time aligned
JBL Ti 2000	2000	3x IB	89	4	200	33,82,30	Asymmetric, double wall
JBL Ti 3000	2499	3x IB	90	6	200	46,105,35	Asymmetric, double wall
JBL i 5000	3499	3x IB	91	6	300	48,114,38	Asymmetric, double wall
Jordan Watts JHFLG	420	-	-	-	-	-	Flagon pottery colour
Jordan Watts JH200	510	1x IB	86	8	80	19,33,17	Bookshelf or stand mount
Jordan Watts JH400	820	1x IB	86	8	80	28,32,17	Marble finish available £970
J Watts Aspect JH1+1	2745	2xIB	85	8	100	40,93,23	Matt - alt finishes extra
Jordan Watts JH2K	3230	-	2	-	-		
J Watts Classic JH2KM	4250	2x	87	8	150	47,82,34	Line tweeter array
J Watts Classic JH5K	4875	2x IB	89	8	250	47,126,40	Floor stand, line array
J Watts Classic JH5KM	5860	2x	89	8	250	47,125,40	Line driver array
J Watts Classic JH10K	9340 10495	2x IB 2xIB	92 92	8	500 500	47,156,40	Floor stand, line array
Jordan Watts JH10EM JPW Minim SGL SHD	50	2xib	87	6	70	47,156,40 13,23,10	Line driver array
JPW Satellite SGL SHD	50	2x	85	8	70	13,23,10	
JPW Satellite	80	2x	85	8	70	13,24,10	
JPW Minim	80	2x	87	6	70	19,28,20	135mm bass, 14mm treble
JPW Minim Pair Solid	89	2x	87	6	70	19,28,20	
JPW Sonata Vinyl	100	2x	87	8	70	13,23,10	
JPW Sonata	120	2x	87	8	70	23,32,22	165mm bass, 14mm treble
JPW Subwoofer	130	1x	95	8	80	25,51,27	
JPW Sonata Plus	140	2x	87	8	70	23,32,22	165mm bass, 25mm treble
JPW P1 Vinyl	150	2x	89	8	70	13,23,10	
JPW P1	170	2x	89	8	70	26,44,25	200mm bass, 19mm treble
JPW AP2	200	2x	89 88	8	80 100	26,44,25 26.52.29	200mm bass, 19mm treble 200mm bass, 19mm treble
JPW AP3 JVC SPX220TBK	230 100	2x 3x Pt	90	8	60	24,66,24	ZUUTIITI Dass, 1911IIII trebie
JVC SPX550BK	120	3x Pt	90	8	60	24,66,24	
JVC SPX770BX	150	3x Pt	90	8	80	28,75,25	
JVC SPX990BK	230	3x Pt	91	8	100	31,86,27	
JVC SX-SW9	300	2xPt	90	6	100	(m)	Satellite subwoofer system
JVC SX911WD	660	3x Pt	91	6	150	38,63,35	
JVC SX500	700	2x Pt	90	6	180	27,45,28	
KAL Mini-Ref MKII	395	+	86	8	120	23,27,17	
KAL Mini-Tower	619	-	89	6	150	17,90,22	
KAL Compact Ref	650	-	89	8	140	23,36,27	
KAL Tunejal	795	-	89	8	150	23,100,27	
KAL Trans-double KAL Warlock	1500 1600		89 90	8	250 250	23,112,36 25,113,36	
KAL Warlock KEF K120	1600	2x IB	87	8	80	21,34,25	Stand/bookshelf
KEF Q10	199	2x Pt	88	6	100	19,28,24	Uni Q, shielded
KEF K140	239	2x IB	89	8	100	26,49,25	Stand/bookshelf
KEF K160	329	2x ABR		8	150	26,75,25	Floor standing
KEF Q30	349	2x Pt	88	6	125	19,70,28	Uni Q, shielded, floor standin
KEF Q60	419	2x Pt	90	6	175	19,102,28	Uni Q,3 shielded, floor standi
KEF Q50	499	3x Pt	89	6	150	19,80,28	Uni Q, shielded, floor standin
KEF 101/3	549	2x	89	4	150	22,50,27	Uni Q bass EQ option
KEF Q80	569	2x ABR		8	125	25,86,28	Uni Q floor standing
KEF Q70	699	3x	90	6	175	19,102,28	Uni-Q, shielded, floor standin
KEF Q90	739	3x Pt	89	8	150	25,89,32	Uni Q floor standing
KEF 102/2MS	749	2x Dt	87	6	150	22,33,27	Uni Q, shielded shelf/stand mo
KEF 103/4MS	1199	3x Pt 3x CC	91 91	4	200	22,90,31	Uni Q, shielded, coupled cavit 'Audiophile' 103/4MS
KEF 103/4S KEF 104/2	1249 1595	3x CC	91	4	250	22,90,31 28,90,41	Floor standing, coupled cavity
KEF 104/2 KEF 105/3	2295	4x Pt	93	4	300	28,111,41	Uni Q, coupled cavity bass
KEF 105/3S	2345	4x Pt	93	4	300	28,111,41	Uni Q, audiophile 105/3
KEF 107/2	3695	3x	92	4	350	33,117,45	Floor standing, Kube equaliser
Kenwood LS-770G	260	Pt	88	4	110	27,48,26	European design
Kenwood LS-300G	300	Pt	82	8	60	21,35,30	European design
Kenwood LS-880G	360	Pt	86	4	160	28,51,26	Titanium tweeter
Kenwood LS-500G	500	Pt	87	4	100	22,44,28	European design
Kenwood LS-700G	1200	Pt	87	4	120	30,90,30	European design
Kenwood LS-1000G	1700	Pt	87	4	160	34,110,38	European design
Keswick Audio Aria	269	2x	88	8	70	21,42,27	Bookshelf
Keswick Audio Volante	499	1	90	8	85	21,85,27	Floor standing
Keswick Audio Figaro	799	-	86	8	125	19,28,27	Features solid timbers

Model	Price	Туре	Sens	mpedance	Power	Size	Special
LOUDSPEAKERS							
Keswick Audio Alto	999	Sub	87	8	150	19,70,27	To match Figaro
Koss SA10 Koss SA30	19	Active	-	-		-	High imp
coss SA30 Linaeum LFX Wood	36 649	Active Hybrid	90	-	-	16,22,18	High impedence Modified ribbon/dynamic
inaeum LSII	991	Hybrid	90		-	30,150,38	Modified ribbon/dynamic
inaeum LFX Corian	1399	Hybrid	90	-		16,22,18	Modified ribbon/dynamic
inn Index	259	2x IB	87	8	-	21,44,24	30 watts minimum
inn Tukan	398	2xIB	87	8	30	19,30,18	Multipurpose
inn Kelidh Passive	595	2x IB	87	4	60	20,83,28	Floor standing, 60w min
inn Keilidh Aktiv	1090	2x IB	-	-	-	20,83,28	Floor standing, boundary
Linn Kaber Passive	1298	3x IB	87	4	60	20,90,28	Integral stands, 60w minimum
inn Kaber Aktiv	1995	3x IB	· w	-	-	20,90,28	Integral stands, boundary
inn Keltik Aktiv	4400	3x IB	-	-	-	26,104,37	Integral stands, boundary
Living Voice Tone Scout	5000	-	99	8	100	64,110,70	Floorstanding, three-way
Living Voice Air Partner	11990	-	99	8	100	64,160,90	Floorstanding, Vitavox drivers
Lowther Fidelio	1299	Horn	96	8	100	29,100,43	10.1
Lowther Academy	1499	Horn	98	4	100	29,100,43	16ohm option
Lowther Bel Canto	1899	Horn	97	8	100	28,132,44	Including adjustable stand
Lowther Delphic	2195	Horn	98	4	100	28,137,44	With adjustable stand, 16ohm o
Lumley Reference LM4	375	2x 2x	86	6	120 150	18,36,22	Stand mount
Lumley Reference LM5	499	2x 2x	88 88	6	150	25,46,21	Stand mount Floor standing
Lumley Reference LM6	650 895	2x 3x	90	8	150	25,81,21 27,87,28	Floor standing Floor standing
Lumley Reference LM3  Lumley Reference LM2	2300	3X 4x	88	8	200	33,110,29	Open baffle
Lumley Reference LM2	8500	4x 5x	89	4	500	71,122,40	2 box, open baffle
MAG Audio Audio A90	3600	Ribbon	80	3.7	300	52,150,8	Two-way full range ribbon
Magnepan SMGa	688	-	90	8	150	-	way is a range model
Manticore Minaret	450	IB	94	8	100	23,15,11	Nearfield monitor
Manticore Minaret F1	750	IB	94	8	100	23,15,11	Nearfield monitor
Manticore Matisse	1300	U.	90	8	200	100,28,22	Fibrelam cabinets
Martin-Logan Statement	POA	Hybrid	87	-	4	23,140,10	ESL/dynamic, biwire,
Martin-Logan Aerius	2222	Hybrid	89	-	-	23,122,30	Two-way
Martin-Logan Stylos	2495	Hybrid	2x	88		23,35,28	In wall
Martin-Logan Sequel II	3222	Hybrid	89			31,160,29	Dynamic bass/electrostatic, tw
Martin-Logan CLS IIz	4333	ESL	86	-	8	62,127,32	Full range panel
Martin-Logan Quest	4991	Hybrid	90	-	-	42,160,29	Dynamic bass/electrostatic, tw
M-L Monolith IIP	8730	Hybrid	89	-	-	59,163,28	ESL/dynamic, two-way
M-L Monolith IIIX	9354	Hybrid	89	-	-	59,163,26	ESL/dynamic, active crossover
Metaxas Empress	3850	ESL	88	8	100	50,150,8	Full range single panel ESL
Metaxas Czar	8250	ESL	94	8	100	70,230,8	Full range 3-panel ESL
Metaxas Emperor	19500	ESL	99	8	250	100,230,8	Full range, multi-panel ESL
Mission 760i	130	2x Pt	89	6	75	18,30,20	Stand mount, boundary siting
Mission 760i SE	150	2x Pt	89	6	75	18,30,20 18,30,26	Stand mount, boundary siting
Mission 780 Mission 762i	200 250	2x pt 2x Pt	89 92	6 8	75 125		Stand mount, near wall siting
Mission 751	300		89	6	75	25,50,29 19,32,27	Stand mount, boundary siting Stand mount, inverted
Mission 763i	380	2x Pt 2x Pt	92	8	125	25,80,29	Floor standing, near wall siti
Mission 752	500	2x Pt	90	8	125	20,84,26	Floor stand, near wall siting
Mission 765i	680	2x Pt	93	4	200	25,100,34	Floor stand, free space
Mission 753	700	2x Pt	90	6	150	21,88,32	Floor stand, transverse folded
Modulus Subwoofer	1750	Active	-	-	250	49,45,45	Variable phase, high/low filte
MA Monitor 1 Gold	190	2x IB	88	8	70	16,24,16	Miniature stand/shelf mount
Monitor Audio MA201	250	2xPt	90	8	100	22,41,27	Gold dome tweeter, pulp bass
MA Monitor 7 Gold II	250	2x Pt	89	8	70	17,35,17	Stand/shelf mount
Monitor Audio MA100G	270	2x IB	89	8	120	16,24,16	As MA Monitor 1, shielded
MA Monitor 9 Gold II	290	2x Pt	88	8	100	21,37,21	Stand/shelf mount
Monitor Audio MA202	400	2xPt	90	8	100	22,89,29	Gold dome tweeter, pulp bass
MA Monitor 14 Gold II	470	3x	88	8	120	21,76,24	Floor/shelf standing
MA MA700 Gold II	500	2x	89	8	100	22,35,26	Stand/shelf mount
Monitor Audio Studio 6	800	2x Pt	88	8	200	22,35,25	Stand/shelf mount, metal bass
MA MA1200 Gold II	1200	2x	89	8	200	20,92,26	Floor standing MA700 GII
MA Studio 20SE	2000	2x Pt	88	8	200	20,92,26	Floor stand, metal cone bass
Monitor Audio Studio 50	4000	2x	90	8	300	20,104,30	Floor stand, metal bass & mid
Mordaunt-Short CS1	115	Pt	87	8	100	16,24,14	Shielded, Positec protected
Mordaunt-Short MS10	130	Pt	88	8	60	19,31,22	Alloy tweeter, MCS woofer
Mordaunt-Short SW1	150	Sub	90	8	100	24,58,26	Coupled cavity, matches CS1
Mordaunt-Short MS20	180	Pt D+	89	8	75	22,37,22	Alloy tweeter, MCS woofer
Mordaunt-Short MS30	250	Pt Pt	90	8	100 120	25,43,28	Alloy tweeter, MCS woofer
Mordaunt-Short HT30 Mordaunt-Short MS40	300 380	Pt	90	8	150	25,43,29 23,82,28	Shielded, Positec protected Alloy tweeter, MCS woofer
Mordaunt-Short MS50	500	Pt	90	8	200	25,87,33	Alloy tweeter, MCS woofer
Mordaunt-Short HT50	550	Pt	90	8	120	25,87,33	Positec, integrated subwoofer
NAD 800	149	Pt	90	6	60	20,32,24	10 litre enclosure
NAD 802	219	Pt	90	6	80	20,32,24	11.5 litre enclosure
Naim IBL Active	776		-	-	65	25,80,28	Boundary, floor standing
Naim IBL Passive	895	-	86	6	65	25,80,28	Boundary, floor standing
Naim SBL Active	1586	-	-		75	27,89,27	Boundary, floor standing
Naim SBL Passive	1708	-	88	6	75	27,89,27	Boundary, floor standing
Vaim DBL Passive	6991	-	-	Ĭ.	200	65,120,40	Boundary, floor standing
Naim DBL Passive	7672		92	4	200	65,120,40	Boundary, floor standing
Neat Petite	595	2x	87	6	100	20,30,18	,,
Orelle Orator II	699	-	91	8	100	27,40,30	Time aligned, biwire
Origin Live OLAV	289	-	88	8	100	20,30,19	
				_	_		Floor standing
Origin Live OL2B	349	-	88	8	100	19,80,19	Floor Stariumy

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see page 123.



Key to loudspeakers Price - typical retail, to nearest pound. Price - typical retail, to nearest pound.

Type - 2x, 3x etc - number of independent drive units, Pt - ported, IB - sealed, Active - dedicated active crossover, needs amps for each driver, ABR - auxiliary bass radiator, Sub-subwoofer, Uni-Q - KEF prop. coaxial drive unit, Horn - horn loading, MC-moving coil, ESL - electrostatic, CC-coupled cavity, Hybrid - dynamic bass/ESL or ribbon top.
Sens - output at given power input
level.
Impedance - in ohms, Power - maximum recommended amplifier output.
Size - width x height x depth in cm.

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Model	Price	Туре	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS							
Origin Live OL-2A Origin Live OL-1	469 499		86 86	8	150 150	19,80,19	Floor standing
Origin Live OL-1	649		86	8	150	20,30,19 19,80,19	Floor standing
Origin Live OL3	975	3x	88	8	150	19,83,23	Floor standing
Origin Live Conqueror	1600	3x	89	8	150	23,87,23	Floor standing
Pentachord Pentode	0	IB	87	8	80	20,74,20	Active crossover, including el
Pentachord P'column	0	IB	87	4	80	21,108,20	Including active crossover, fo
Pentachord B	0	IB	87	8	80	52,35,52	Active crossover, including el
Pentachord A	200	2x IB	87 80	8 7	80 75	21,28,20	Direct coupled
Philips Legend FB720 Philips DSS930	1300	Active	- 00	75	-	21,37,31 22,58,33	Active digital loudspeaker
Pioneer CS301	120	3x Pt	90	8	120	27,54,24	Bookshelf
Pioneer CS501	170	3x Pt	90	8	140	31,53,25	Bookshelf
Pioneer CS701	230	3x Pt	90	8	190	35,70,28	Bookshelf
Pioneer S4UK	250	2x Pt	88	6	80	21,37,28	No crossover, UK optimised
Pioneer S60	270	2x	87	4	80	22,47,28	Bookshelf
Pioneer CS901	280	3x Pt	92	8	220	39,75,29	Bookshelf
Pioneer S80 Pioneer S200	370 600	2x 2x	88 89	4	80 120	23,56,28 26,90,34	Bookshelf Biwire, floor standing
Pioneer S400	950	2x	89	4	160	27,96,38	Biwire, floor standing
Polk S4	200	2xPt	91	8	100	24,39,18	Stand mount, free standing
Polk M3	200	2x Pt	89	8	100	17,29,21	Multi-app, including wall brac
Polk S6	300	2x ABR	91	8	125	26,54,20	Stand mount
Polk S8	450	2x ABR	90	8	150	29,64,22	Stand mount
Polk S10	600	2x ABR	91	8	200	32,74,26	Floorstanding
Polk LS50 Polk LS70	800 1200	2x Pt 2x Pt	89 90	8	250 250	27,83,29 31,94,37	Floorstanding Floorstanding, biampable
Polk LS90	1700	3x Pt	90	8	250	31,94,37	Floorstanding, biampable
Posselt Alpha I	950	Pt	89	8	60	24,44,28	
Posselt Alpha II	1200	Pt	89	8	90	23,100,27	
Posselt Alpha III	1350	Pt	89	8	100	26,102,30	
Posselt Alpha IV	1500	Pt	89	8	135	27,104,31	
Posselt Albatros	2200	Hrn	93	6	200	31,186,32	Ultra sensitive
Proac Tablet 3 Proac Studio 100	479 699	-	87 88	8	100 150	17,28,23	
Proac Response 1 S	919		87	8	100	20,40,25 17,30,24	
Proac Response 2	1634		88	8	150	23,45,281	
Proac Response 3	3065	-	90	8	300	28,118,30	
Proac Response 3 Sig	4935	-	90	8	300	28,118,30	
Prof Monitor Co TB1	481	2x Pt	90	8	150	20,40,25	Shielded version available
Prof Monitor Co LB1	998	2x	89	4	300	18,53,25	Transmission line
Prof Monitor Co AB1	1598	2x	89	6	400	26,79,43	Transmission line
Prof Monitor Co MB1P Prof Monitor Co BB5P	4681 6754	2x 2x	91 91	8	500 600	38,87,53 43,104,79	Transmission line Transmission line
Quad ESL-63	2860	ELS	86	8	100	66,93,27	Panel, simulates point source
RCF Mytho1	595	-	88	8	150	28,16,24	rano, simulates point source
RCF Mytho 2	795	-	90	8	200	38,22,31	
RCF Mytho 5	1295	-	85	8	200	84,16,27	
RCF Mytho 3	1395	-	89	8	250	95,22,31	
RCF Mytho 5 Realistic Minimus 3.5	1725	-	89	8	300	95,28,34	
Realistic Minimus 3.5	30		-	8	15 10	9,15,5 15,24,13	
Realistic M'mus 26	56		87	8	40	18,28,11	
Realistic Minimus Pro-7	60	2xPt	87	8	50	11,18,11	Revised design
Realistic Minimus Pro-77	100	2xPt	86	8	55	14,22,11	Revised design
Rega Kyte	198	2x	-	8	-	19,31,19	Stand/wall/shelf mount
Rega EL8	298	2x	*	8	-	17,72,20	Floor stand
Rega ELA	450	2x		8	-	30,80,20	Floor stand
Rega XEL Rehdeko RK115	1040 1200	2x Pt	104	6 8		20,82,30 34,42,28	Floor stand
Rehdeko RK125	2300	Pt	102	8	-	34,42,28	
Rehdeko RK145	3400	Pt	102	8	-	39,66,29	
Rehdeko RK175	6500	Pt	106	8	-	50,96,37	
REL Strata	499	Sub	-	7.	1kw	42,52,31	Active, internal amp
REL Stadium	795	Sub	-	-	1kw	58,52,36	Active, internal amp
REL Stentor REL Studio	1495 2995	Sub Sub		-	1kw 1kw	59,56,37 69,62,52	Active, internal amp Active, internal amp
Richard Allen Min 2	129	-	86	8	100	16,30,20	, nouve, internal amp
Richard Allen Minette Gold	-	-	86	8	100	16,30,20	
Rogers LS2A/2	229	-	87	8	100	23,36,21	Use about 30cm from wall
Rogers LS6A/2	399	-	89	8	150	27,51,28	Stand mount, free space
Rogers Studio 3	449	-	85	8	45	19,30,16	
Rogers LS8/A	499	2:: 0:	90	8	150	26,86,25	Ctand mount stands avail-bl-
Rogers P20 Rogers Studio 7	750 880	2x Pt	88 89	8	150 150	26,42,30 30,63,30	Stand mount, stands available
Rogers Studio / Rogers P22	1100	2x Pt	88	8	150	26,85,30	Floor stand, sloping baffle
Rogers LS5/9	1531	-	87	8	100	28,46,27	
Rogers P24a	1800	-	86	4	250	25,104,35	Internal bass, floor standing
Roksan Ojan 3	895	Pt	90	8	250	28,76,460	Floor standing, sprung tweeter
Royd A711	115	-	89	8	60	20,31,18	Bookshelf or near wall siting
Royd A7 Series II	115	Pt	89	8	60	31,20,18	Near wall siting
Royd Topaz	173	Pt D+	89	8	100	31,20,18	Near wall siting
Royd Sapphire II Royd The Minstrel	245 259	Pt Pt	89 86	8	100	31,20,18 69,18,12	Biwire, near wall siting . Side port, floor standing
Royd Sintra II	375	Pt	89	8	100	31,20,18	Side port, floor standing Biwire, near wall siting
Listings marked in red Allison AL110		own be N/A	90	<b>4</b>	ered in the 150	24,40.23	Floor standing, free space

				_			
Model	Price	Туре	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS							
Royd The Sorcerer	595	Pt	86	8	120	31,20,18	Front port, near field monitor
Royd The Abbot	665	Pt	90	8	120	81,20,30	Floor standing, free space
Royd The Prior	978 299	Pt 2x IB.	90 87	8	150 100	96,37,26 20,38,27	Floor standing, free space Bookshelf or stand mount
Ruark Swordsman II Ruark Sabre II	385	2x IB,	87	8	100	23,37,27	Bookshelf or stand mount
Ruark Templar	479	2x IB	87	8	100	19,70,27	Floor standing
Ruark Talisman II	699	2x Pt	88	8	100	23,84,32	Floor standing
Ruark Broadsword II	849	2x IB	86	8	120	29,43,38	Stand mount
Ruark Crusader II	1495	3x Pt	88	6	150	24,92,32	Floor standing
Ruark Equinox	1749	2x Pt	88	6	150	25,88,34	Including stand and external c
Ruark Accolade	2549	3x Pt	89	8	200	29,100,38	Floor standing
Sansui SP-X111K	125	-	89	6	50	18,30,20	
SD Acoustics SD3	399	Pt	87	8	100	20,38,30	Free standing
SD Acoustics SD5	1235	3x Pt	88	8	200	20,110,30	Ribbon tweeter
SD Acoustics SD1	1650	IB	88	8	250	30,125,30	Open mid, ribbon tweeter
Shahinian Obelisk	2290	Зх	-	6	200	37,74,32	1st Shaninian model, floor sta
Shahinian Hawk	4950	Mono s	ub -	6	250	37,95,28	Passive
Shahinian Diapason	7950	5x	91	6	300	58,100,38	Omni-directional, floor standi
Sonus-Faber Minuetto	898	2x	88	-		23,35,28	Compact, stand mount
Sonus-Faber Amator	1498	2x	88	-	-	20,34,31	Compact, stand mount
Sonus-Faber Electa	1690	2x	88	-	-	38,27,24	Compact, stand mount
Sonus-Faber Amator	2898	2x	88	-	-	37,22,35	Compact, stand mount
Sonus-Faber Guarneri	5500	2x	88	-	-	19,38,38	Compact, limited edition
Sonus-Faber Extrema	5991	2x	88	-	-	55,27,46	'Reference Standard'
Sony SS-E300	50	IB	-	-	*	-	Magnetically shielded
Sony SS-V77	50	-	90	16	-	19,9,14	Full range surround speakers
Sony SS-E500	80	IB	-		-		Magnetically shielded
Sony SS-J90AV	100	-	-	167	-	19,12,15	Shielded centre speaker
Sony SS85E	100	IB	85	4	70	9,32,24	UK optimised sound
Sony SS125E	120	IB	86	4	90	22,38,38	UK optimised sound
Sony SA-W90	350	-	-	-	70	22,49,51	Active subwoofer
Sony SSA1L	450	IB	85	4	120	19,30,32	Bio-cellulox tweeters
Sound-Lab Dynastat	3790	Hybrid	88	8	350	44,183,41	Oak or walnut finish £3990
Sound-Lab Pristine II	6990	ESL	88	8	300	72,153,69	Steel frame, black
Sound-Lab A3	11990	ESL	88	8	300	79,61,23	Any finish
Sound-Lab A1	13990	ESL	88	8	400	91,208,27	Curved panel, any finish
Spendor LS3/5A	539	3x	83	8	40	19,30,16	BBC inspired location monitor
Spendor S20	579	-	84	8	70	22,38,26	On stands, free space
Spendor SP2/3	769	-	88	8	80	28,55,33	On stands, free space
Spendor SP1/2	999	-	89	8	90	30,63,30	
Spendor S100	1599	2x	89	8	100	37,70,43	
Spica TC50	649	IB	86	4	50	33,39,29	Free space, on stands
Spica TC50SE	849	IB	86	4	50	33,39,29	Free space, on stands
Spica TC50SEX	949	IB	86	4	50	33.39.29	Free space, on stands
Spica Angelus	1295	IB	87	8	200	53,117,26	Free space, floor standing
Tannoy 603II	139	-	86	6	70	23,34,16	Free space, floor stand
Tannoy 605II	169	-	87	6	90	28,40,19	Gold anodised tweeter
Tannoy 607II	219 294		88	_	100	32,50,23 33,50,23	Gold anodised tweeter  Dual concentric
Tannoy 609II		-	89	5	120	33,70,23	
Tannoy 611II	429	-	91	4	150		Dual concentric
Fannoy 613II	600		90	4	150 175	28,90,19	Dual concentric  Dual concentric
Tannoy 615II	750	-		4	70		Duai concentric
TDL Near Field Mon TDL RTL1	120 200		88 87	8	80	18,30,17 20,39,22	
TDL RTL2	300		87	8	80	20,39,22	
			90	8	120	20,73,22	
TDL RTL3 TDL Studio 0.75	400 499		85	8	100	20,90,37	
TDL Studio 0.75	499		85 85	8	75	20,67,30	
TDL Studio 0.5	699	2x	86	8	120	23,77,33	Transmission line bass
TDL Studio	699	-	86	8	100	23,76,33	
TDL Studio 3	999	-	87	8	250	30,98,41	
TDL Studio 3	1499	-	87	8	300	27,112,44	
TDL Reference Monitor	1999	-	87	8	350	30,119,47	Floor standing
Teac LSX8	80	-		8	30	11,18,11	
Teac SW1	120	Sub	-	6	100	17,44,30	Coaxial, shielded
Teac S300	150	2x Pt	-	6	100	17,24,17	
Technics SB-CS55	80	2x Pt	-	8	60	25,43,25	Shelf/stand, shielded
Technics SB-CS75	100	3x Pt	-	8	60	27,49,25	Composite mica cone mid
Technics SB-CS95	150	3x Pt	-	8	100	29,54,25	Composite mica cone mid
Technics SB-EX2	180	2x Pt	-	4	100	24,48,29	Composite mica cone mid
Fechnics SB-EX3	250	3x Pt		4	125	24,60,29	Mica diaphragms, separate LF b
Technics SB-EX7	450	3x Pt	-	4	180	29,85,32	Mica diaphragms, separate LF b
Technics SB-MX100D	2000	2x Pt	-	6	100	23,47,34	Floor standing, separate LF ba
Technics SB-MX200D	4000	3x Pt	88	4	125	35,91,43	Mica bass/tweeter
Totem Model One	995	Pt	87	4	120	17,31,23	
Triangle Titus E	265	-	90	8	75	20,25,32	
Triangle Comete E	399	-	91	8	100	22,28,40	Suits low powered valve amps
Triangle Scalene E	625	-	91	8	150	84,22,22	Suits for low power valve amp
Triangle Norma	775	-	93	8	150	26,84,25	Suits low power valve amp
Triangle Alcante	999	-	92	4	200	22,100,22	Suits low power valve amp
The second secon	1350	-	92	8	250	99,22,28	
Triangle Icare					Commence of the Commence of th		
Triangle Icare Triangle Calisto	1850	-	90	8	300	104,22,22	
		-	90 92	8	300 300	104,22,22 35,120,30	Proprietary tweeter
Triangle Calisto	1850	-	-	-			
Triangle Calisto Triangle Altair	1850 2450	- - - Pt	92	8	300	35,120,30	

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Key to recievers
Price - typical retail, to nearest
pound.
A/V - minimum requirements - Dolby
Surround/Pro-Logic circuitry.
Power - watts/channel, both channels
driven RMS 8ohms, 2oHz - 2okHz.
Wavebands - FM, L - long wave, M medium wave.
Presets - number thereof.
In/outputs - MM/MC - moving
coil/moving magnet, L - line, T - tape,

V - audio input or tape circuit with video Signal routing. Remote - control. Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.



Key to systems
Price - typical retail, to nearest
pound.
Sources - CD - compact disc, R - radio
tuner, Tu - turntable, T - cassette
tape,
V - video signal routing (composite
and/or S-Video).
Power - output power in watts, per
channel, RMS.

Size - main unit dimensions - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

				Impedance			
Model	Price	Туре	Sens	lanc	Power	Size	L
LOUDSPEAKERS	e	е	S	е	4	Size	Special
UKD Callas	750	Pt	88	8	120	34,22,32	Solid mahogany, stand mount
UKD Super Pavarotti	875	Pt	88	8	150	23.55.23	Solid mahogany, stand mount
UKD Caruso	1850	Pt #	88	8	200	22.97.28	Solid walnut, floor standing
Vandersteen 2Ce	1395	4x	88	7	160	41,101,27	Free standing, phase aligned
Visonic David 5001	132		-	4-8	50	10,17,10	3,1,
Visonic Sub 4	154	-:	-	4-8	100	36,49,31	
Visonic David 6001	163	-	-	4-8	60	13,20,12	
Visonic David 8001	228	-		4-8	80	16,25,17	
Wharfedale Centre Cube	45	Pt	87	8	75	14,13,12	Shielded centre speaker
Wharfedale Modus Cube	69	Pt	87	8	75	14,17,12	Shielded
Wharfedale CRS3	89	2x Pt	89	8	100	22,38,17	Stand/boohshelf mount
Wharfedale D30.2	99	Pt	89	8	100	22,38,17	Stand/bookshelf mount
Wharfedale Modus Centre	99	Pt	87	8	75	46,14,12	Shielded centre speaker
Wharfedale Modus Micro	99	2x Pt	86	8	75	14,23,12	Shielded
Wharfedale Diamond V	129	Pt	87	8	100	18,26,20	Stand mount, near wall
Wharfedale CRS5	129	2x Pt	89	8	140	26,48,20	
Wharfedale Modus Mini	129	ABR	86	8	75	14,39,12	Shielded two-way
Wharfedale Modus Sub-b	ss 139	Pt	88	8	200	57,23,26	Two channel double tuned sub-w
Wharfedale 415	149	IB	87	8	100	24,35,20	
Wharfedale CRS7	199	Pt	91	8	150	26,60,21	
Wharfedale 425	199	IB	88	8	100	26,40,25	
Wharfedale 535	249	IB	90	8	120	27,48,29	
Wharfedale CRS9	299	Pt	93	8	160	31,80,28	Floor standing, three way
Wilson X1 Grand Slam	0	3x	94	-	-	e:	Three-way reference
Wilson Puppy II	5500	Sub	91	17	-	25,53,35	Passive subwoofer for WATT
Wilson WATT III	7645	2x	91	-	-	27,31,36	
Wilson WHOW II	12500	Sub	98	-	-	88/65,36	Active subwoofer for WATT
Yamaha NS-C80	99	~	90	6	80	14,45,17	
Yamaha NS-E80	120	*	90	6	50	27,20,7	
Yamaha NS-C110	149	-:	90	6	120	15,47,18	
Yamaha NS10M	250	-	90	8	100	21,38,20	
ZYP AI	199	IB	88	8	50	14,22,12	Wall mount
ZYP A1T	219	IB	88	8	50	14,22,12	Magnetically shielded
ZYP A2S	299	IB	88	8	50	22,14,12	Studio nearfield monitor

ZTF AZO	200					22,14,12	_	Studio Hear		
Model	Price	AN	Power	Wavebands	Presets	In/outputs	Remote	Size	Special	
RECEIVERS										
B&O Beomaster 7000	835	N	75	FM,M,L	20	MM,2L,2T	Υ	-		
Denon DRA-345R	250	N	45	FM,M	24	MM,3L,1T	Υ	44,12,32	System remote	
Denon DRA-545RD	320	N	60	FM,M	24	MM,3L,2T	Υ	44,12,32	RDS	
Denon AVR-1000	520	Υ	70	FM,M	16	MM,2L,2T	Υ	44,15,33	Auto input balance	
Dual CR9000RS	200	N	55	FM,M,L	30	MM,4L,2T	Υ	44		
Grundig R210	170	N	50	FM,M,L	59	MM,5L	Υ	36,12,30	Gain switch, remote	
Grundig R2	250	N	50	FM,M,L	59	MM,5L	Υ	44,14,30	RDS, Radio text, remote	
Harman-Kardon HK3300	379	Ν	20	FM,M	-	MM,3L,2T	Υ	45,13,35		
Harman-Kardon HK3400	499	Ν	35	FM,M	-	MM3L,2T	Υ	45,13,35		
Harman-Kardon HK3500	699	Ν	50	FM,M	-	MM,4L,2T	Υ	45,13,35		
Harman-Kardon HK3600	799	Ν	75	FM,M	-	MM,4L,2T	Υ	45,13,35		
Harman-Kardon AVR-30	999	Υ	50	FM,M	16	MM,3L,3T,6V	Υ	45,13,35	Dolby Pro Logic	
JVC RV212BX	200	N	40	FM,M,L	40	MM/MC,4L,3T	-	44,13,34		
JVC RX-212XBK	200	Ν	50	FM,M,L	40	MM,3L,1T	Υ	44,13,34	4ch surround	
JVC RX-308BK	250	Ν	50	FM,M,L	40	MM,3L,1T	Υ	44,13,34	4 channel surround	
JVC RX-508VBK	350	Υ	50	FM,M,L	40	MM,1L,3T	Υ	44,13,34	5ch Dolby Pro Logic	
JVC RX-808VBK	600	Υ	70	FM,M,L	40	MM,1L,3T	Υ	44,16,40	5ch Dolby Pro Logic	
JVC RX-1010VTN	920	٧	120	FM,M	-	MM/MC,4L,3T	Υ	44,13,34	Dolby Pro Logic	
Kenwood KR-A4060	230	N	80	FM,M	20	MM,3L,2T	Υ	44,13,33	RDS	
Kenwood KR-V6060	350	Υ	100	FM,M	20	MM,3L,2T	Υ	44,15,40	RDS	
Kenwood KR-V7050	400	Υ	100	FM,M	20	MM,3L,2T	Υ	44,15,40	RDS	
Marantz SR-53	270	N	50	FM,M,L	30	MM,3L,1T	Υ	43,14,34		
Marantz SR-63	330	N	80	FM,M,L	30	MM,3L,1T	Υ	43,14,34		
Marantz SR-73	550	Υ	75	FM,M	30	MM,3L,3T	Υ	43,15,38	Dolby Pro Logic	
Marantz SR-82	850	Υ	75	FM.M	30	MM,3L,2T	Υ	43,17,43	Dolby Pro Logic, multi-room	
NAD 701	259	N	25	FM.M	24	MM,2L,1T	Υ		,	
NAD 705	329	N	40	FM,M	39	MM,2L,2T	Υ	-		
Philips FR940	450	Υ	100	FM.M.L	30	MM.4L.4T	Υ	44,14,30	Dolby Pro Logic	
Pioneer SX-102	220	N	55	FM,M	30	MM,2L,2T	N	42,14,29	, , , , , , , , , , , , , , , , , , , ,	
Pioneer SX-202R	240	N	45	FM,M	30	MM,2L,2T	Υ	42,14.29		
Pioneer SX-302	300	N	45	FM,M	30	MM,2L,2T	Υ	42,13,34		
Sansui RZ790	250	N	30	FM.M	30	MM,2L,2T	Υ	_		
Sansui RZ-3500 II	370	N	30	FM,M	30	MM,2L,2T	Υ	_		
Sherwood RX1010	120	N	30	FM,M	-	MM,2L,1T	N	2		
Sherwood RX2010	140	N	50	FM,M		MM,3L,1T	N			
Sherwood RX4010R	180	N	60	FM.M		MM,3L,1T	N			
Sherwood RV5030R	330	Υ	80	FM.M.L		MM,4L,4T	Υ		Dolby Pro Logic	
Sherwood RV6010R	350	Υ	100	FM,M,L	-	MM,4L,4T	Υ		Dolby Pro Logic	
Sherwood RV6030R	400	Υ	100	FM,M,L	-	MM,4L,4T	Υ	-	,	
Sony STRD311	230	Υ	60	FM,M,L	30	MM,2L,2T	Υ	43,14,30	System remote	
Sony STRD511	280	Υ	50	FM,M,L	30	MM,3L,2T	Υ	43,14,30	Dolby Pro Logic	
Sony STRD611	330	Υ	60	FM,M,L	30	MM,3L,2T	Υ	43,14.30	Dolby Pro Logic	
Teac AG-V3020	450	Υ	95	FM.M	30	MM,4L,3T	Υ	44,16,38	Dolby Pro Logic	
Technics SA-GX130DL	230	N	60	FM.M.L	30	MM.2L.2	Υ	43,13,31	, 5	
Technics SA-GX230DL	270	Υ	80	FM,M,L	30	MM,2L,2T	Υ	43.13.31	Non-Dolby	
TOOLINGS OF GAZOODE	210	_	50	- william	00		_	.0,10,01		

Model	Price	Power A/V	Presets	outputs/	R Size Special
RECEIVERS	le.	<   ~   S	S	S	& Size Special
Technics SA-GX350L	330	Y 80 FM	I,M,L 30	MM,4L,1T	Y 43,14,36 Dolby Pro Logic
Technics SA-GX550L	450	the same of the sa	I,M,L 30		Y 43,16,36 Dolby Pro-Logic
Yamaha RX-360	240	N 40 FM		MM,3L,1T	Y -
Yamaha RX-V470	400		I,M -	MM,6L,2T	Y - Dolby Pro Logic
				,,	. Bolby 1 to Edgio
Madel	Price	Source	Powe	Cino	Special
Model SYSTEMS	TO .	e e	7	Size	Special
Aiwa NSX-270	280	CD,R,2T	20		Mini, remote
Aiwa NSX-400	300	CD,R	25	-	Mini, single box
Aiwa NSX-340	300	CD,R,2T	25		Mini, 3-CD player
Aiwa LCX-7	300	CD,R,T	15	14,24,26	Micro
Aiwa NSX-430	330	CD,R,2T	40	-	Mini, inc front surround spkrs
Aiwa NSX-520	350	CD,R,2T	40	-	Mini, 3-CD player
Aiwa NSX-450G	350	CD,R,T	25	*	Mini, CD Graphics
Aiwa LCX-9	350	CD,R,T	10	14,24,26	Micro, with powered subwoofer
Aiwa Z-650	370	CD,R,Tu,2T	20	*	Midi
Aiwa NSX-540	400	CD,R,2T	55	-	Mini, front surround spkrs
Aiwa Z-720	400	CD,R,Tu,2T	30	36,48,35	Midi, equaliser
Aiwa LCX-10	400	CD,R,T	8	14,24,26	Micro, as LCX-10 with surround
Aiwa NSX-550G	430	CD,R,2T	40	20.24.24	Mini, CD Graphics
Aiwa NSX-510G	440	CD,R,2T	30	26,31,34	Mini, karaoke, CD-G compatible
Aiwa NSX-D737	500	CD,R,2T	50	20 54 25	Mini, 4-mode DSP
Aiwa Z-D300M	600	CD,R,Tu,2T	40	36,54,35	Midi, three CD, equaliser
Aiwa Z-D5000M Aiwa NSX-D939	670 750	CD,R,Tu,2T	40	36,54,35	Midi, three CD, DSP, equaliser
Aiwa NSX-D939 Aiwa Z-D7000M		CD,R,2T CD,R,Tu,2T	50	36,63,35	Dolby Pro Logic, incl speakers Midi, DSP, Dolby Surround
Alwa Z-D7000M Akai MX115	800 399	CD,R,TU,2T CD,R,2T	65 35	27,39,26	Midi, DSP, Dolby Surround Graphic equaliser
Akai RX590	449	CD,R,2T,P	38	27,39,26	
Akai MX115T	449	CD,R,P,2T,P	35	27,31,33	3x CD player, Dolby B As MX115, with mini turntable
Akai RX590T	499	CD,R,2T,P	38	27,40,33	As RX590, with mini turntable
Akai RX690	549	CD,R,2T,F	50	27,40,33	3x CD player, Dolby B&C
Akai RX690T	599	CD,R,2T,P	50	27,49,33	As RX690 with mini turntable
Akai RX890	799	CD,R,2T	60	27,42,33	Virtual Room Simulator, RDS
Akai RX890T	849	CD,R,2T,P	60	27,51,33	As RX690, with mini turntable
Akai RX890 Compo	999	CD,R,2T,P	60	64,78,35	RX890 with stand & AP A950
Amstrad Micro 1000	170	CD,R,T	-	15,20,13	10 presets, FM, MW, LW
Amstrad Mini 2000	200	CD,R,T	-	28,21,57	Five band equaliser
Amstrad CD3-500	230	CD,R,2T	5	-	Three disc CD player, FM, MW
Amstrad Micro 2000	250	CD,R,T	-	17,28,23	10 presets, FM, MW, LW
Amstrad Mini 3000	280	CD,R,2T	-	26,32,49	RDS tuner, mic mixing
Amstrad Mini 5000	300	CD,R,2T	-	26,32,25	Three disc CD, mic mixing
Arcam Alpha 5	1200	CD,R	40	43,23,30	Based on Arcam separates
Arcam Alpha 6	1300	CD,R	50	43,23,30	Including Alpha 6 R/C amp
Arcam Delta	2810	CD,R,T,D	75	43,37,34	Fully remote controllable
B&O Beosystem 7000	245	CD,R,Tu,T	100	42,8,33	Components, speakers extra
B&O BeoSound Century	995	CD,R,T	-	75,37,17	Wall mounted active speakers
B&O Beocenter	1400	CD,R,T	80	76,11,34	Audio master for extended syst
B&O Beosystem 2500	2150	CD,R,T	-	83,36,16	Active speakers, lifestyle sys
B&O Beosystem 2300	2150	CD,R	-	83,36,16	As 2500, without cassette
Denon D-65/S	640	CD,R,2T	30	27 wide	Includes optional UK speakers
Denon D-90/S	740	CD,R,Tu,T	30	27 wide	RDS, inc optional UK speakers
Denon D-110/S	870		40	27 wide	RDS, inc optional UK speakers
Denon D-250/S	1000	CD,R,Tu,2T	50	27 wide	RDS, inc optional UK speakers
Dual MS3700	600		50	-	
Dual MS2500	600		35		
Goodmans System 700	600		50	18,36,29	Mini Dolby NP
Grundig MC10	300		25 22	18,36,29 27,37,34	Mini, Dolby NR  Five hand graphic & full remot
Grundig M10 Grundig M20	430	_	35	25,37,34	Five band graphic & full remot Spectrum analyser
Grundig M20 Grundig Fine Arts S1	740		50	44,45,30	оросичні анаіуэві
Grundig Fine Arts S3	760	the state of the s	50	44,45,30	Separates system
Grundig Fine Arts S2	880		80	44,37,30	Separates system
Grundig Fine Arts S4	1130	CD,R,2T	120	44,45,30	
Grundig Fine Arts S5	1300		120	44,41,30	
Hitachi AX10	330	_	20	23,29,-	Inc graphic equaliser
Hitachi AX12	350	CD,R,2T	20	45,34,63	
Hitachi AXC10	380		20	23,29,-	Inc graphic equaliser
JVC Adagio S20	370		30	25,27,35	Live surround
JVC Midi -W48CD	430		30	36,50,34	Live Surround
JVC Adagio S30	430	R,CD,2T	32	25,27,35	Live surround, Karaoke
JVC Adagio C33	450	-	30	25,33,34	Live surround. 7CD disc system
JVC Midi-W58CD	500	R,CD,2T	50	36,48,25	Bass compensator
JVC Adagio S50R	500	R,CD,2T	40	25,36,35	Live surround, RDS
JVC Adagio C55	600	R,CD,2T,V	36	24,36,34	Advanced 7CD disc system
JVC Adagio S60R	600	R,CD,2T	45	28,36,35	Panoramic surround, RDS
JVC Midi-W78CD	750	R,CD,2T	60	36,57,29	Two channel surround
JVC Adagio G7	800	R,CD,2T,V	50	28,43,28	Panoramic surround
JVC Adagio G9	1000	R,CD,2T,V	55	28,43,28	Panoramic surround
Kenwood UD-302	400	CD,R,2T	33	27,36,31	3-disc carousel
Kenwood UD-501	600	CD,R,T,2T	32	27,41,31	Presence modes
Kenwood M-47	600	CD,R,Tu,2T	45	36,62,38	

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Allison AL110 220 N/A 90 4 150 24.40.23 Floor standing, free space

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see page 123.

600

Kenwood M-28MG

Five disc CD carousel

#### **HI-FI CHOICE BUYER'S GUIDE**

Special



Key to systems
Price - typical retail, to nearest
pound.
Sources - CD - compact disc, R - radio
tuner, Tu - turntable, T - cassette
tape,
V - video signal routing (composite
and/or S-Video).
Power - output power in watts, per
channel, RMS.

Size - main unit dimensions - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.



SYSTEMS

Key to tuners
Price - typical retail, to nearest
pound.
Bands - FM - VHF, stereo and hi-fi
capable, M - Medium wave, low quali-ty, mono, L - Long Wave, low quality,
mono, M - Nicam digital TV stereo
sound.
Presets - total number of presets on
all bands.

Size

RDS - Radio Data System, which pro-vides station IDs and sometimes other data on the FM waveband. Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

				100	4
Model	Price	Source	Power	Size	Special
SYSTEMS					
Kenwood UD-551	650	CD,R,2T	32	27,41,31	Multi CD
Kenwood UD-701	750	CD,R,V,2T	32	27,41,31	Dolby Surround
Kenwood M-47G	750	CD,R,Tu,2T	45	36,62,38	Graphic equaliser
Kenwood UD-751M	800	CD,R,V,2T	32	27,41,31	Multi CD
Kenwood M-57MG	850	CD,R,Tu,2T	45	36,62,38	Multi-CD, graphic equaliser
Kenwood M-76AG Kenwood UD-901	950	CD,R,V,Tu,2T	60 42	36,62,38	Dolby Surround
Kenwood M-77MG	1000	CD,R,V,2T CD,R,V,Tu,2T	60	27,41,31 36,62,38	Dolby Pro Logic Multi-CD
Kenwood HD-1000	1000	CD,R,V,10,21	40	27,40,35	MD & equaliser options
Kenwood M-97G	1250	CD,R,V,Tu,2T	85	36,64,38	Dolby Pro Logic
Kenwood M-97MG	1300	CD,R,V,Tu,2T	85	36,64,38	Multi-CD
Marantz 1010	900	CD,R.2T	45	42,77,31	System Link Operation
Marantz 1020	1000	CD,R,2T	45	42,77,31	Motorised Front Panel
Nakamichi S'space 7	1495	CD,R	40	-	Multi-CD, aux & tape input
Onkyo L-909	1200	MM,3L,2T	70	-	Ciomponent system, 4ohm rated
Panasonic SC-DH30	250	CD,R,2T	5	-	
Panasonic SC-CH11	300	CD,R,2T	20		
Panasonic SC-CH33Z	370	CD,R,2T	30	1	
Panasonic SC-CH150	430	CD,R,T,	20	18,25,28	51cm wide, including speakers
Philips FW21 Philips AS44CD	300	CD,R,2T	12	26,30,22	
	329	CD,R,2T	20	36,38,29	
Philips AS540CD Philips FW41	379 400	CD,R,2T CD,R,2T	40 30	36,398,29 26,30,25	
Philips AS640CD	429	CD,R,2T	30	36,38,29	Five disc CD
Philips FW370	900	CD,R,DCC	75	36,50,35	DCC midi
Philips FW91	999	CD,R,DCC	60	26,35,26	DCC mini
Philips FD920	999	CD,R,DCC	43	44,50,30	Full size separates
Philips FS380	1000	CD,R,DCC	100	44,50.30	DCC midi
Pioneer N-25	299	CD,R,2T	20	*	Double cassette, three-disc CD
Pioneer N-50W	349	CD,R,2T	50		One touch Karaoke, smart timer
Pioneer J-200	399	CD,R,2T	11		Mic mixing, five band equalise
Pioneer N-70W	399	CD,R,2T	70	-	Double auto-reverse cassette,
Pioneer N-70W/M	449	CD,R,2T	70	-	Multi-play version of N-70W
Pioneer N-100W	499	CD,R,2T	100	-	Double auto-reverse cassette,
Pioneer J-300	549	CD,R,2T	40	-	Single play CD with Smart tume
Pioneer N-100W/M Pioneer J-400M	549 649	CD,R,2T CD,R,2T	100 50	-	Multi-play version of N-100W
Pioneer Impresso-3	749	CD,R,Z1	35	-	Six-disc multiplay, Dolby Surr Separate components, CD with S
Pioneer J-500	779	CD,R,2T	65	-	Dolby Surround, seven band equ
Pioneer J-500M	829	CD,R,2T	65	-	Six-disc multiplay version of
Pioneer J-V600	879	CD,R,2T	65	-	Dolby Pro Logic A/V system, Mo
Pioneer Impresso-7	899	CD,R,T	45	-	As Impresso 3, with RDS tuner
Pioneer J-700	999	CD,R,2T	115	-	CD with Stable Platter mechani
Pioneer J-V600LD	1199	CD,R,2T	65	-	Includes PAL/NTSC LaserDisc pl
Samsung SCM6550	230	CD,R,Tu,2T	5	35,33,29	Midi, remote control
Samsung MAX335	230	CD,R,2T	10	25,32.26	Mini, remote control
Samsung SCM8100	300	CD,R,Tu,2T	20	36,37,29	Midi, remote control
Samsung MAX370	300	CD,R,2T	20	25,32,24	Mini, remote control
Samsung SCM8300	350	CD,R,Tu,2T	20	36,37,29	Midi, equaliser, 5 CD carousel
Samsung SCM9100 Sansui MS6901	430 420	CD,R,Tu,2T CD,R,2T	30 50	36,47,29 18,26,34	Midi, remote control
Sanyo SYS 220	300	CD,R,2T	15	36,36,37	
Sanyo MS1	300	CD,R,T	25	22,21,22	
Sanyo DC D10	300	CD,R,2T	15	27,36,32	
Sanyo DC-D15	350	CD,R,2T	15	27,36,32	10 disc CD player
Sanyo DC-D40	400	CD,R,2T	30	27,36,32	10 disc CD player
Sanyo SYS915	430	CD,R,2T	30	36,43,36	Four-disc CD player
Sharp System-S360E	230	CD,R,2T	10	27,32,33	Remote control
Sharp System-CD150E	260	CD,R,Tu,2T	10	36,48,36	30 tuner presets
Sharp System-S370E	270	CD,R,2T	25	27,32,33	Five band equaliser
Sharp System CD170E Sharp CMS-R400CDX	280 300	CD,R,Tu,2T	10	36,40,36	Remote control, auto-reverse
Sharp CMS-R400CDX Sharp System-Q8E	330	CD,R,2T • CD,R,T	10 12	27,32,39	Five-disc multi CD  Ultra compact
Sharp System-CD450E	370	CD,R,1	80	15,19,26 27,32,25	Dolby NR
Sharp System-C5300E	450	CD,R,2T	30	26,32,25	Six-disc multi CD
Sony MMC450	300	CD,T,Tu,2T	20	22,29,27	
Sony Compact 190	330	CD,R,Tu,2T	9	35,48,34	
Sony MHC 650	380	CD,T,Tu,3T	35	22,28,26	Full remote
Sony Compact 195	389	CD,R,Tu,2T	9	35,49,41	
Sony Compact 290	400	CD,R,Tu,2T	30	35,48,35	
Sony Compact 295	450	CD,R,Tu,2T	30	35,49,41	Full remote
Sony MHC C50CD	500	CD,T,Tu,3T	30	22,33,32	Five-disc CD
Sony MHC Z900	500	CD,T,Tu,3T	40	22,28,26	Electronic EQ
Sony Compact 490	500	CD,R,Tu,2T	40	35,59,36	Five-disc CD
Sony MHC C70CD	600	CD,T,Tu,3T	40	22,39,31	Five-disc CD
Sony Compact Plus 590	600	CD,R,Tu,2T	60	43,48,39	Five-disc CD, electronic EQ

SISIEMS O NUISION	000	OD TT.	T		00 44 00	Landon Deservation (1994, 1994, 1994, 1994)
Sony MHC4900	800	CD,T,Tu,3			22,41,28	
Sony MHC 5900AV	1000	CD,T,Tu,3			22,41,28	UK sound
Sony Compact Plus 745A		CD,R,Tu,2			43,48,39	Full size, separate components
Sony Compact Plus 995A	1500	CD,R,Tu,2	2T 60		43,47,42	Dolby Pro Logic, LaserDisc
Technics SC-CH404	500	CD,R,Tu,2	2T 35		27,42,34	Mini, including speakers
Technics SC-CH505	600	CD,R,2T	50		27,42,34	Mini Karaoke, including speake
Technics SC-CH575	650	CD,R,2T	50		27,42,34	Mini, multi-changer
Technics CD-X120	700	CD,R,2T	40		36,41,32	Midi, including speakers
Technics SC-CH750	800	CD,R,2T	50		27,42,34	Mini, DSP, including speakers
Technics CD-X320	800	CD,R,Tu,2			36,41,32	Midi, including speakers
Technics CD-X520	900	CD,R,Tu,2			36,41,32	Midi, including speakers, basi
Technics SC-CH9090	1000	DCC,CD,F			27,42,34	DCC equipped mini system
Technics SC-CH950	1000	CD,R,2T	60		27,42,34	Pro Logic, soundfield speakers
Yamaha CC70	600	CD,R,2T	50		28,33,34	YST active bass
Model TUNERS	Price	Bands	Presets	RDS	Size	Special
Aiwa XT-003	120	FM,M,L	30	N		
Aiwa XT-950	150		24	N		
		FM,M			10.00	
Arcam Alpha 5	220	FM	16	N	43,8,27	
Arcam Delta 150	230	Nicam	8	-	43,7,27	
Arcam Delta 280	350	FM	20	N	43,7,28	
Audiolab 8000T	700	FM,M,L	39	N	45,8,36	Switchable IF, muting, mono
Aura TU50	300	FM	16	N	43,6,27	Chrome finish + £50
Day Sequerra FM Ref	5457	FM	1410	-	-	
Day-Seq S B'dcast Mon	14640	FM	-	-	-	
Denon TU-260L	120	FM,M,L	20	N	44,8,24	Low impedance output
Denon TU-580RD	220	FM,M	30	Y	44,8,29	
Goodmans GST650	90	100000000000000000000000000000000000000	36	Y	44,0,20	variable ii baridwidiii
	-	FM,M,L			-	
Goodmans Delta 700	100	FM,M,L	36	N	-	
Grundig T310	130	FM,M,L	59	Υ	36,8,30	
Grundig T1	130	FM,M,L	59	N	44,9,30	
Grundig T2	170	FM,M,L	59	Υ	44,9,30	RDS Radiotext, clock, remote
Grundig T4	210	FM,M	59	Y	44,9,30	Radiotext, PTY, remote
Harman-Kardon TU92000	219	FM,M	70	-	45,8,38	3
Harman-Kardon TU94000	299	FM,M	24	-	45,8,33	3
Harman-Kardon TU96000	499	FM,M	24	-	45,8,33	
JVC FX362BX	140	FM,M,L	40	N	44,8,30	
JVC FX1010TN	300	FM,M,L	40	N	44,10,3	
		100000000000000000000000000000000000000	30	N		
Kenwood KT-1050L	110	FM,M,L			44,8,26	
Kenwood KT-2050L	140	FM,M,L	30	N	44,8,26	
Kenwood KT-3050L	170	FM,M,L	39	Υ	44,10,2	
Kenwood KT-6050	300	FM,M	39	Y	44,10,3	33 IF switch, two antennae
Linn Kremlin	1995	FM	80	N	32,8,33	Dual aerial capability
Magnum Dynalab FT11	550	-	2 11	-	-	
Magnum Dynalab FT101	825	6		-	-	
Magnum FT101 Etude	1250	2		-	-	
Marantz ST-53	170	FM,M,L	59	N	42,9,30	D-bus
Marantz ST-63	200	FM,M,L	59	Y	42,9,30	
	300	CONTRACTOR OF THE PARTY OF THE				
Marantz ST-72L		FM,M,L	59	Y	42,10,3	
McIntosh MR7083	1995	FM,M	16	N	00.00	Interface to McIntosh remote c
Meridian 504	595	FM	30	N	33,9,34	System handset
Meridian 604	1350	FM	30	N	-	
Michi RHT-10	895	FM	16	N	47,8,34	
Mission Cyrus FM7	400	FM	29	N	22,8,36	Rmote control bus
Mus-Fid T1 MK II	299	FM	8	N	44,8,32	Autoseek, mono switching
Musical Fidelity FT	899	FM	20	N	49,12,3	
Naim NAT03	499	FM	_	N	21,16,3	
Naim NAT02	910	FM	-	N	21,16,3	
Naim NAT01	1453	FM		N	21,16,3	
Onix BWD1	420	FM		N	75,23,3	
			40			
Onkyo T-401	160	FM,MW	40	N	46,8,31	
Onkyo T-409	230	FM,MW	30	N	10.0	Mini component
Onkyo T-450RDS	260	FM,MW	30	Υ	46,9,31	
Onkyo T-411RDS	280	FM,MW	30	Υ	-	Mini component
Onkyo R-811RDS	420	FM,MW	30	Υ	2	Mini component, incl timer
Philips FT930	160	FM,M,L	40	Υ	44,11,3	80
Pioneer F-202L	130	FM,M,L	36	N	42,8,29	)
Pioneer F401L	180	FM,M,L	36	N	42,9,32	
Pioneer F-301RDS	200	FM,M	36	Υ	42,8,25	
Pioneer F-502RDS	250	FM,M	40	Y	42,9,34	
Pioneer F-502RDS-G	260	FM,M	40	Y		
The state of the s					42,9,34	
Pioneer F93	650	FM,M	40	N	46,11,3	
Quad FM4	434	FM	7	N	33,7,21	
Owned FMCC	E22	CA4	10	E NI	00000	F

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see page 123.

N N

For use with Quad 66 system

Remote control

Quad FM66

Rotel RT930AX

Rotel RT950BX

Rotel RT990BX

Sansui TU-X317

Sansui TU-X519

Sherwood TD1120

Sherwood TX1010C

532

200 FM,M,L

510 M

170 FM.M

220 FM,M

90 M,M

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see page 123.

# SEVENOAKS SUPERFI



#### **DISPLAY & DEMONSTRATIONS**

The moment you step through the door of a Sevenoaks Hi Fi or Superfi branch you're going to be better looked after. With over 21 years experience in Hi Fi, Video and TV retail we're here to make sure you get the equipment that best suits your needs and your budget.

You'll find a wide range of products with the emphasis on quality rather than country of origin. And not only is everything we sell on display, but it's also available for demonstration. Each of our branches has dedicated demonstration facilities to help you enjoy choosing your equipment.



And if you thought this level of service might be expensive - you'd be wrong. Our prices are the most competitive around, and our added value offers famous throughout the industry.

#### **AFTER SALES** CARE

Each of our Sevenoaks Superfi branches is served by a dedicated Central Service Department. Approved by all the leading manufacturers, our team of six fully trained engineers is capable of repairing 99% of all repairs - in our own workshops. Once the repair is complete we give you a 3 month Warranty. The kind of of back up you'd expect from one of the leading independent Hi Fi retailers in



#### **ADDED VALUE**



Full selection of Hi Fi Press Award Winners



Free CDs on selected CD Players



CD Vouchers available on selected purchases



Free TDK Tapes on selected Cassette Deck purchases



Free 007 stands and cable on selected speaker purchases



Free Headphones worth £ 40 on selected Hi Fi Separates over £500 0% Finance available on selected Hi Fi



Separates (not suggested systems) Dedicated listening



rooms in all our branches

#### SUGGESTED SYSTEMS

The suggested systems priced below all include the popular NAD 5120 turntable but an alternative turntable or CD Player is available at extra cost. Please see CHOICES list below for further details.

Amplifiers Speakers	Technics SUVZ220K	NAD 302 Kenwood KA3020 Technics SUVZ320K	Harman HK6150 Technics SUA600K Marantz PM44SE	NAD 304 Pioneer A300X	
JPW Sonata V Celestion i JPW Minim	226.95	273.95	296.95	319.95	335.95
Celestion 3 Mkii JPW Sonata W Mission 760i	<b>265</b> .95	312.95	335.95	358.95	374.95
Tannoy 603 Mkii Mission 760ı SE NAD 800	280.95	327.95	351.95	374.95	390.95
Tannoy 605 Mkii Celestion 5 Mkii B&W DM600 Mission 761i Mon Audio 1	304.95	351.95	374.95	397.95	413,95
Tannoy 607 MkII Celestion 7 MkII NAD 802	335.95	382.95	405.95	429.95	444,95

#### **CHOICES**

The following Compact Disc Player or Turntable may be ordered instead of the NAD 5120 in the above systems:~

#### **CD PLAYERS**

Aiwa XC300 Add f 29 Denon DCD695 Add f 99 Goodmans GCD360 Add £ 0 Goodmans GCD650II Add £ 9 Marantz CD52II Add £ 79 Marantz CD52IISE Add £ 169

Marantz CD53 Add £ 79 Marantz CD63 Add £ 139 NAD 501 Add f 79 NAD 502 Add £ 99 TEAC CDP3500 Add £ 99 **TURNTABLES** Dual CS503 2 Add f 69 Dual CS505.4 Add £ 99

NAD 533 Add f 99 Project 0.5 Add £ 49 Technics SLBD22K Add £ 49 Technics SLPG440AK Add £ 59 Thorens TD280 IV Add £ 99

#### PRICE PROMISE

identical product being available from an authorised dealer at a lower price, we will beat that price by up to  $\pm$  20. To qualify it must be a verifiable offer on product that is in stock, brand new and in a sealed box No Added Value Offers apply on price beat sales

#### **PRICE BEAT VALUES:**

£ 110 - £ 500	= £ 10
£ 501 - £ 1,000	= £ 15
£ 1,001+	= £ 20

#### **0% FINANCE**

We offer 0% finance on a wide range of Hi Fi separates. Package 1: 10% deposit followed by 6 equal monthly payments. Example: Cost £ 600. Deposit £ 60 plus 6 payments of £ 90. Package 2: 25% Deposit followed by 9 equal monthly payments. Example: Cost £ 600. Deposit £ 150 plus 9 payments of £ 50. Package 3: 50% deposit followed by 12 equal monthly payments. Example: Cost £ 840. Deposit £ 420 plus 12 payments of £ 35. All Options: Minimum balance £ 400. Subject to status. 0% APR. Personal shoppers only. Written details on request.

# THE SPECIALIST

### HI FI PRODUCT SELECTION

#### **AMPLIFIERS**

Harman Kardon HK6150 John Shearne Phase II <b>Kenwood KA3020</b>	£ 149.00
Alchemist Kraken (Slate) Arcam Alpha 5 Arcam Alpha 6 Arcam Delta 290 Aura VA80 Aura VA100 Black Audiolab 8000C/II Audiolab 8000C/II Audiolab 8000P/II Cyrus (S/oaks branch only) Denon PMA250III Denon PMA350 II Denon PMA480R Denon PMA480R Denon PMA450 Denon PMA880R Exposure EXP15 Exposure EXP15 Exposure EXP17 Exposure EXP17 Exposure EXP17 MM Exposure EXP18 Harman Kardon HK1400	f 399.95 f 229.95 f 449.95 f 279.95 f 449.95 f 449.95 f 449.95 f 649.95 f 159.95 f 219.95 f 249.95 f 249.95 f 249.95 f 249.95 f 274.95 f 724.95 f 724.95

Kenwood KA3020	£ 149.00
Kenwood KA3020SE Marantz PM32 Marantz PM44SE Marantz PM54SE Musical Fid A1 Mk III Musical Fid F15 Musical Fid F22 Nad 302 Nad 304 Nad 306	f 199.95 f 139.95 f 199.95 f 299.95 f 329.95 f 1899.95 f 179.95 f 239.95 f 349.95
Nad 3020i	£ 78.00

Pioneer A300X	£ 229.9
Pioneer A400X	£ 299.9
Quad 66 inc RI	£ 862.9
Quad 34	£ 398.9
Quad 306	£ 349.9
Quad 606	£ 689.9
Rotel RA930AX	£ 174.9
Rotel RA935BX	£ 224.9
Rotel RB970BX	£ 224.9
Rotel RC970BX	£ 149.9
Technics SUA600K	£ 199.9
Technics SUA700K	£ 249.9
Technics SUA900K	£ 399.9

#### MINI/MICRO **SYSTEMS**

Aiwa, Denon, JVC, Sony& Technics Refer to our Mini/Micro Ad P.O.A.

#### TUNER AMPS

£ 249.95
£ 319.95
£ 269.95
£ 259.95
£ 329.95

#### CASSETTE / 📼 **DCC DECKS**

Aiwa ADF410	£ 74.00
Aiwa ADF450	£ 119.95
Aiwa ADF810	£ 159.00
Aiwa ADF850 Aiwa ADWX727 Aiwa ADWX828 Aiwa ADWX929 Denon DRM540 Denon DRS610 Denon DRS810 Denon DRW760 JVC TDW308 Marantz SD53 Marantz SD63 Nad 602	£ 229.95 £ 169.95 £ 199.95 £ 249.95 £ 159.95 £ 299.95 £ 249.95 £ 199.95 £ 199.95 £ 199.95
Nakamichi DR1	£849.95
Nakamichi DR2	£599.95
Nakamichi DR3	£359.95
Philips DCC300 inc C/B	£178.00
Philips DCC500 inc C/B	£228.00

Pioneer	P.O.A.
Sony TCK411	£ 149.00
Sony TCK511S	£ 189.00
Sony TCK611S	£ 249.00
Technics RSTR373K Technics RSTR474K	£ 179.95 £ 199.95
AUDIO	

# **VISUAL**

B & W, Canon, Celestion, Denon, JBL, Kef, Kenwood, Marantz, Mon Audio, Mordaunt Short, Pioneer, Tecnics & Yamaha. Refer to our A/V Ad.

Aura SP50 B & W DM600i B & W DM610i B & W DM620i B & W DM620i B & W 805 B & W 805 B & W 805 Castle Chester Castle Howard Castle Durham II Castle Durham II Castle Torr II Castle Tror II Castle Tror II Celestion 3 Mk II Celestion 3 Mk II Celestion 7 Mk II Celestion 7 Mk II Heybrook HB1/3 Heybrook Prima Heybrook Prima Heybrook Prima Heybrook Prima Heybrook Ouartets JPW Sonata Veneer JPW Sonata Veneer JPW Sonata Veneer	f 399.95 f 189.95 f 249.95 f 429.95 f 489.95 f 649.95 f 249.95 f 249.95 f 279.95 f 109.95 f 109.95 f 119.95 f 219.95 f 219.95 f 219.95 f 219.95 f 219.95 f 219.95 f 219.95 f 219.95 f 219.95
JPW Minim	£ 59.00

JPW Minim	£ 59.00
Kef R101.3 Kef R102.2 Kef R103.4 Kef R103.4 Kef R103.4 Kef R104.2 Kef R105.3 Kef R107.2 Kef Q10 Kef Q30 Kef Q50 Mission 751 Mission 752 Mission 752 Mission 753 Mission 760i Mon Audio 201 Mon Audio 1 Gold Mon Audio 1 Gold Mon Audio 1 Gold Mon Audio 1 Gold Mon Audio 1 Ha Gold Mon Audio 1 Gold Mon Audio 201 Mon Audio 201 Mon Audio 201 Mon Audio 201 Madio 201 Madi	f 549.95 f 749.95 f 1199.95 f 1295.95 f 2295.95 f 3695.95 f 3699.95 f 499.95 f 499.95 f 149.95 f 129.95 f 129.95 f 179.95 f 129.95 f 249.95 f 149.95 f 149.95

#### **TURNTABLES**

Dual CS503-2 inc. cart		
	Dual CS503-2 inc. cart Dual CS435 inc. cart	£ 169.95 £ 129.95

Dual CS505-4 inc. cart Goodmans GSP650 inc. cart	f 199.95 f 59.95
Nad 5120 inc. cart	£ 99.00
Nad 533 Project 0.5 inc cart Project 1 inc cart Project 6 inc cart Systemdek IIX 900 (ex) Technics SLBD22K Technics SL1210 II Thorens TD280 Mk IV inc. cart Thorens TD166/RB250	f 199.95 f 144.95 f 184.95 f 435.95 f 229.95 f 159.95 f 199.95 f 299.95

#### **TUNERS**

Aiwa XC300

Sony
Teac CDP3500
Teac VRDS7
Teac VRDS10
Teac VRDS20
Teac P700/D700

Yamaha CDX870

Technics SLPD667 Multi Technics SLPD867 Multi Technics SLPG440AK

Arcam Alpha 5 Arcam Delta 280 Arcam Delta 280 Audiolab 8000T Cyrus (S/oaks branch only) Denon TU260L Denon TU380RDS Denon TU580RD Marantz ST40L Marantz ST40L Marantz ST53L Musicial Fideltiy T1 II Nad 402 Pioneer F502RDS Quad 66FM Rotel RT930AX Rotel RT930AX Rotel RT950BX	111111111111111111111111111111111111111	219.95 349.95 699.95 119.95 119.95 219.95 219.95 169.95 299.95 169.95 249.95 532.95 174.95 224.95
Sony STS311RDS	£	169.00
Teac TX4030	f	119 95

#### COMPACT (S) **DISC PLAYERS**

£ 119.00

f 769.95 f 1299.95 f 1499.95

f 179.95 f 199.95 f 169.95

£ 199.00

AIWa AC300	2 115.00
Aiwa XC750	£ 139.00
Audio Alchemy DAC inc box Audiolab 8000 CDM Audiolab 8000 DAC Aura CD50 Arcam Alpha 5 Arcam Black Box 50 Arcam Delta 270 Arcam Delta 250 Trans Cyrus (Sevenoaks branch onl	£ 1249.95 £ 749.95 £ 399.95 £ 449.95 £ 449.95 £ 799.95 £ 749.95
Denon DCD595	£ 149.00
Denon DCD615 Denon DCD695 Denon DCD1290 Goodmans GCD360 Goodmans GCD650 MKII Kenwood DP7050 Marantz CD10	f 179.95 f 199.95 f 329.95 f 99.95 f 109.95 f 349.95 f 1199.95
Marantz CD52 II	£ 179.00
Marantz CD52 II SE Marantz CD53 Marantz CD63 Marantz CD72SE Musical Fidelity CDT Musical Fidelity FCD Nad 501 Nad 502 Nakamichi MB4S Philips Pink Ordinal Pink Triangle Da Capo Quad 67 Roksan Transport/DAC Rotel RCD945AX Rotel RCD945AX Rotel RCD965BX Discrete Rotel RCD965BXLE Discrete Sony Teac CDP3500	£ 299.95 £ 199.95 £ 249.95 £ 599.95 £ 519.95 £ 1499.95 £ 229.95 £ 229.95 £ 249.95 £ 324.95 £ 324.95 £ 324.95 £ 324.95 £ 324.95 £ 324.95 £ 329.95 £ 329.95
Teac VRDS7 Teac VRDS10	£ 599.95 £ 769.95

All prices are valid until at least July 31st, 1994

#### SEVENOAKS HI FI **BRANCHES AT:**

SEVENOAKS 0732 459555 109-113 London Road

**BRIGHTON 0273 733338** 

55 Preston Street

**CANTERBURY 0227 462787** 20a Lower Bridge Street

CHATHAM 0634 846859 4 Railway Street

new CHELSEA 071 352 9466 403 Kings Road, SW10

CHELTENHAM 0242 241171 24 Pittville Street

CROYDON 081 665 1203 373 London Road

ENFIELD 081 342 1973 7 Genotin Road

ESSEX 0376 501733 1 The Grove Centre

Witham **GUILDFORD 0483 36666** 73b North Street

**LEICESTER 0533 557518** 94 Granby Street

**OXFORD 0865 241773** 

**41 St Clements** TUNBRIDGE WELLS

0892 531543 28-30 St Johns Rd

WATFORD 0923 213533

478 St Albans Road

WOOI WICH 081 855 8016 **162 Powis Street** 

MAIL ORDER 0732 458985

#### SUPERFI **BRANCHES AT:**

**BIRMINGHAM 021 631 2675** 67 Smallbrook, Queensway

new COVENTRY 0203 223254 16 Spon Street

> **DERBY 0332 360303 56 London Road**

HULL 0482 24051 **4 Dock Street** 

LEEDS 0532 449075 7 King Edward Street

LINCOLN 0522 520265 271a High Street

LONDON 071 388 1300 2-4 Camden High Street

NOTTINGHAM 0602 412137 15 Market Street

SHEFFIELD 0742 723768 1 Rockingham Gate

STOKE ON TRENT 0782 265010 51 Picadilly, Hanley

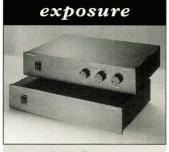
The Moor



SEVENOAKS UPERF

**OVER FOR FULL DETAILS** 

# **MUSICAL EXPRESSION**

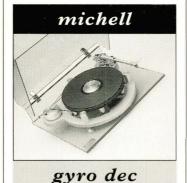


17 & 18

#### Exposure

Exposure has for the past fifteen years been one of the small group of companies which made its presence felt more by reputation than promotion. Many of John Farlowes designs like the 17/18, - 15 - 20 have been acclaimed both in the UK and abroad for striking musical performance, and excellent build

But that's not all. We also have Audiolab, Cyrus, Musical Fidelity, John Shearne and Quad for you to consider.



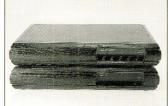
#### Michell

The Gvro Dec has always been a class act. Beautifully styled. it looks like no other turntable, and has the performance to match. After twenty years of success John Michell now compliments it is with products that are impossible not to recommend. At Sevenoaks-Superfi you can audition the range including -Argo (Preamp), Iso (Head amp) - Alecto (Power amps). The new HR (High Resolution) products are also available. Other turntables Include Pink

pink triangle

Triangle, Export GTI and

**Anniversary** 



#### da capo/batt psu

#### Pink Triangle

The **Da Capo** with it's optional DC power supply, represents one of the very best Digital to Analogue converters in the world. A highly acclaimed product renowned for superb imagery, detail and choice of filters (18, 20, 22 Bit, 1307). We also stock the Ordinal (DAC).

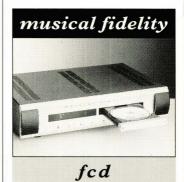
Our other Audiophile CD players, Transports and DAC's include Teac, Roksan, Musical Fidelity, Quad, Arcam, Audiolab, Audio Alchemy and Cyrus.

#### Ruark

When a speaker company belongs to the Guild of Master Craftsman and offers a selection of real wood veneers (imported from all over the World), models like Templar, Talisman II, Crusader II (see picture) and Equinox can combine innovative design outstanding performance and superb finishes that set new standards

ruark

And there's many other quality loudspeakers from Castle, TDL, Heybrook, Kef Reference, Mission and Monitor Audio



#### **Musical Fidelity**

Visual impact that is only matched by sound quality is the hallmark of Musical Fidelity's 'F Series' components. For over 10 years, this remarkable and highly individualistic company has been delighting its customers with beautiful music, beautifully

At Sevenoaks Superfi you'll also find top quality tuners from names like Audiolab, Musical Fidelity and Cyrus, plus cassette decks from Nakamichi, Sony and many, many more.

#### Van den Hul

New "Metal-Less" Carbon interconnect cables (the First, the **Second**) now availiable - A Revelation



# **26 BRANCHES THROUGHOUT**



SEVENOAKS 109-113 London Road 0732 459555

BRIGHTON 55 Preston Street 0273 733338

Sevenoaks Hi Fi



CANTERBURY 20a Lower Bridge Street 0227 462787 Sevenoaks Hi Fi

Railway 35

CHATHAM 4 Railway Street 0634 846859

Sevenoaks Hi Fi



403 Kings Road, SW10 071 352 9466



CHELTENHAM 24 Pittville Street 0242 241171

Sevenoaks Hi Fi



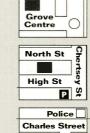
CROYDON 373 London Road 081 665 1203

Sevenoaks Hi Fi



**ENFIELD** 7 Genotin Road 081 342 1973

Sevenoaks Hi Fi



Tesco

**GUILDFORD** 73b North Street 0483 36666

1 The Grove

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Sevenoaks Hi Fi



River

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Sevenoaks Hi Fi **OXFORD** Boulter Street

41 St Clements 0865 241773 Sevenoaks Hi Fi



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Sevenoaks Hi Fi WOOL WICH

P Powis St

162 Powis Street 081 855 8016

Sevenoaks Hi Fi



BIRMINGHAM 67 Smallbrook.

021 631 2675 Superfi

# MINIS & MICROS

#### **OPTIONS**

Once you,ve chosen the system you want, choose the mini /micro price option that suits you best. We've developed a four tier system that is geared to the level of service you require.

#### **OPTION 1**

**Full RRP less 10%** discount for cash and carry customers. Standard manufacturers warranty

#### **OPTION 2**

Full RRP, to include delivery, installation, 1 year parts and labour warranty and home call Out

#### **OPTION 3**

Full RRP, to include a 3 year parts and labour warranty on cash and carry basis.

#### **OPTION 4**

Full RRP plus £ 100, to include delivery, installation, 5 year parts and labour warranty and home call out.

#### INSTALLATION / CALL OUT CONDITIONS

Install must be adjacent to mains/aerial point. **Customers must live** within 7 miles of local branch



#### **SCCH 950**

The compact size and tidy appearance of the latest mini and micro systems hide the fact that these miracles of modern miniaturisation provide a big sound. Systems now boast more powerful amps, powered subwoofers, and many other features that enable the best of them to produce a sound big enough to fill a room

AIWA

LCX9

So whether you're looking for a first class secondary system, or you want a big sound in a small package, you'll find what you're looking for at Sevenoaks Superfi.

# JVC



#### UXT<sub>1</sub>

We stock top name systems including Sony, JVC, Aiwa, Technics. Kenwood and Pioneer

# THE COUNTRY.



#### COVENTRY

16 Spon Street 0203 223254

Superfi



#### DERBY 56 London Road 0332 360303

Superfi



4 Dock Street 0482 24051

Superfi LEEDS



#### 7 King Edward Street 0532 449075

Superfi



271a High Street 0522 520265

Superfi



2-4 Camden High 071 388 1300

Superfi



#### NOTTINGHAM

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Superfi



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51 Picadilly, Hanley 0782 265010 Superfi

#### NEW **BRANCH OPENING** SOON

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Sevenoaks Hi Fi

Prices include Vat and were correct at time of going to press, but are subject to change without prior notice. E&OE. Most, but not all, of the offers displayed are also available from our associates Superfi. Sevenoaks Hi Fi and Superfi are not legally related and are separate commercial

All prices are valid until at least July 31st, 1994

#### PRICE **PROMISE**

We always try to ensure our prices are competitive. In the unlikely event of an identical product being available from an authorised dealer at a lower price, we will beat that price by up to £ 20. To qualify it must be a verifiable offer on product that is in stock. brand new and in a sealed box. No added value Offers apply on price beat sales

PRICE BEAT **VALUES:** 

£110 - £500 = £10

£501 -£1,000= £15

£1,001+ = £20

#### **GUARANTEES**

All the products we sell are brand new, fully guaranteed and maintained by our own **Central Service** Department.

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# **V'AUDIO**

36 Druid Hill, Stoke Bishop, Bristol BS9 1EJ Telephone: 0272 686005

#### **FUTURE ATTRACTIONS**

By the time this advert appears we should have the following exciting items on demo.

A) Electrocompaniet **NEW** super fidelity units; initially this will consist of the EC-4 line-stage pre-amp (£1460), it's matching ECP-1 MM/MC Phono Amp (£625), and the Ampliwire 100SF Dual Mono Balanced 2 x 100w Power Amp. (£2140). Class A performance during most operating conditions contribute to musical ease of the Power Amps. The units will be in the 'Larvikit' stone front finish as used on the Limited Edition Signature Units, but can also be obtained with black acrylic faceplate and gold handles. Gold plated RCA jacks and speaker terminals, as well as XLR's are standard. We are the first UK dealer to have these units – see also esoteric audio imports advert in this issue.

B) Trichord Research 'Pulsar' Dac Outboard Power Supply improving even further the sound of this very

popular unit.

C) The Triangle TE60, which has impressed from the moment we heard it - near class 'A' sound, it does get hot - but sounds great on **ALL** our speakers. Now run in the complete E speakers are well worth a listen, especially for acoustic/OA22 fans. The TE60 is also an excellent Pre-Amp and is superb driving the Toca 22 watt pure class A power amp into the Quad 63's.



Key to turntables.
Price - typical retail, to nearest pound.
Speeds - 33, 45 and/or 78 revolutions per minute.
Type - A - Auto, that is, automatic play initiation, and arm return at end of side

side.
S - Semi, arm lift or arm return at end of side. M - Manual.

Size - width x height x depth in cm.

Special - Cartridge and/or arm included etc.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.



Key to cartridges.
Price - typical retail, to nearest
pound.
Type - MM - moving magnet (output
typically am/cm/sec), MC - moving
coil (output typically o.:mV/cm/sec).
Int. Styles - Y (or me.
able styli and N for fixed styli.

Fit - N for normal half inch mountings, T for T4P plug in types. Weight - in grams.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Bands	Presets	RDS	Size	Special
TUNERS						
Sherwood TX3010C	120	FM,M	30	N	-	
Sony STS211LB	130	FM,M,L	30	N	43,9,30	Station naming
Sony STS311LB	200	FM,M,L	30	Υ	43,9,30	RDS EON, 'Autobetical' select
Sony STS505ES	250	FM,M,L	30	Υ	43,9,35	UK optimised sound
Teac T-X4030	120	FM,M	20	N	44,9,28	
Technics ST-6T350L	140	FM,M,L	30	N	43,7,30	
Technics ST-GT550L	190	FM,M,L	39	N	43,7,31	Remote control capable
Technics ST-GT650L	230	FM,M,L	39	Υ	43,10,31	Class AA, remote control ready
Yamaha TX-350L	130	FM,M,L	40	N	-	

Technics ST-6T350L	140	FM,M,L	30 N	43,7,30	
Technics ST-GT550L	190	FM,M,L	39 N		Remote control capable
Technics ST-GT650L	230	FM,M,L	39 Y	43,10,31	Class AA, remote control ready
Yamaha TX-350L	130	FM,M,L	40 N		,
Yamaha TX-470	160	FM,M	40 N		
			S		
	Price	Туре	Speeds		
Model	е	pe	ds	Size	Special
TURNTABLES	470		00/45	1110.05	
Akai AP A950 Alphason Sonata	179 835	M M	33/45	44,12,35	Inc cartridge Motor unit, suspended
Alphason Sonata/Atlas	1235	M	33/45	-	Motor unit inc PSU
Alphason Symphony	1860	M	33/45	_	Motor unit & PSU
Ariston Pro-1200	160	M	33/45	22	Semi-pro disco deck
Audiomeca Romance	1675	M	33/45	-	With Romeo unipivot arm
Audiomeca J1	2500	M	33/45	50, 40, 2	Top of the range model
Audiomeca J1/SL5	4250	M	33/45	50, 40, 2	With parallel tracking arm
B&0 7000	505	Auto	33/45	42,8,33	Inc MMC2 cartridge, RIAA pream
Basis Ovation	4950	M	33/45	58,42,14	Lead/brass, record clamped
Basis Debut Gold Std	7250	M	33/45	58,42,19	Belt drive, high mass, four po
Basis Debut Suction	8550	M	33/45	58,42,19	Includes suction platter
DNM Rota 1	2850 4000	M M	33/45 33/45	59,14,37 59,14,37	Includes arm and cartridge Includes arm and cartridge
DNM Rota 2 Dual CS3700	4000	S	33/45	36, 36, 9	Midi-sized turntable
Dual CS435	130	F	33/45	44, 36, 1	Turntable includes cartridge
Dual CS503-2	170	S	33/45	44, 13, 3	Turntable includes cartridge
Dual 505-4 UK	200	S	33/45	44, 15, 3	Turntable inc cartridge
Dual CS750-1	350	S	33/45/78	44, 14, 3	Turntable includes cartridge
Dual Golden One	500	S	33/45/78	44, 14, 3	Piano finish CS750-1
Genexxa Lab-710	60	M	33/45		Includes MM cartridge
Genexxa Lab-810	70	S	33/45	-	Includes MM cartridge
Goodmans Delta 700	55	S	33/45		Part of Delta system
Kenwood KD-491F	100	A	33/45	44,10,39	Includes cartridge
Kuzma Stabi/PS Kuzma Stabi Ref/PS	1200	M	33/45	51, 18, 4	Belt driven, external PSU Two motor, belt driven
Linn Basik	3000 349	M M	33/45 33/45	45,14,36	Complete with Akito arm
Linn LP12 Basik	745	M	33	45,14,36	Non-crystal motor drive
Linn LP12 Valhalla	894	M	33/45	45.14,36	Electronic PSU, upgradable
Linn LP12 Lingo	1345	M	33/45	45,14,36	Outboard high grade PSU
Manticore Madrigal	570	M	33/45	46,36,12	Turntable
Manticore Mantra	780	M	33/45	46,36,12	Turntable
Manticore Magister	3800	M	33/45	57,46,18	Special order only
Michell Mycro	397	M	33/45	46,14,34	
Michell Mycro/arm	539 697	M	33/45	46,14,34	Includes Rega RB300 arm
Michell Gyrodek Michell Gyrodek/arm	839	M M	33/45 33/45	53,19,41 53,19,41	Optional outboard PSU Includes Rega RB300 arm
Moth Alamo	175	M	33/45		Comes with RB250 arm
Moth Turntable	199	M	33/45		Split-plinth design
NAD 5120	110	S	33/45	-	Includes arm
N'ham Spacedeck	600	M	33.45	-	
N'ham Illusion	600	M	33/45	-	
N'ham HyperSpacedeck	1200	М	33/45	-	
N'ham Graphic	1200	M	33/45	-	75 lb allow or oraphite al-
N'ham Mentor N'ham Mentor Ref	2200 4800	M M	33/45 33/45		75lb alloy or graphite platter 150lb platter, graphite top
Origin Live Oasis-S	899	M	33/45		Suspended turntable
Pink Triangle Export GTi	890	M	33/45	46,15,37	Suspended turntable, acrylic p
Pink Triangle Anniv	1695	М	33/45	45,15,37	Two box reference deck
Pink Triangle Anniv/PSU	2050	M	33/45	45,15,37	Battery PSU version of above
Pioneer PL-225	120	S	33/45	42,10, 36	Belt drive, fitted cartridge
Pioneer PL-335	150	А	33/45	42,10,36	Belt drive, fitted cartridge
Pro-ject 0.5	145	S	33/45	42, 11, 3	With Ortofon OM5 cartridge
Pro-ject 1	185 209	M	33/45	42, 11, 3	With Ortofon 510 cartridge
Pro-ject 1 (E) Pro-ject 2	249	S M	33,45 33/45	42,11,32 46, 12, 3	Semi-auto version of Pro-ject Metal/glass platter, clamp
Pro-ject 2/Ortofon	275	M	33/45	46, 12, 3	With Ortofon MC1 cartridge
Pro-ject 6	379	M	33/45	46, 17, 3	Suspended turntable
Pro-ject 6/Ortofon	435	М	33/45	46, 17, 3	As above, with Ortofon MC15
Pro-ject 6/Sumiko	699	М	33/45	46,17,3	With Sumiko arm
Rega Planar 78	198	M	78	45,13,37	As Rega Planar 2, 78 only
Rega Planar 2	198	М	33/45	45,13,37	Includes RB250 arm
Rega Planar 3	260	M	33/45	45,13,37	Includes RB300 arm
Rivelin Audio Eclipse	1595	M	33/45	45,13,38	Motor unit
Roksan Radius/Tabriz	495 695	M M	33/45 33/45	46,12,35 45,13,36	Motor unit As above, with Roksan arm
Roksan TMS	2500	M	33/45	46,12,35	Reference motor unit
Sherwood PS1870	70	S	33/45	-	Budget turntable with arm
SME Model 20	2683	M	33/45/78	42,16,32	Precision turntable

Voyd 0.5

Model	Price	Туре	Speeds		Size		Spe	ecial
TURNTABLES	2702	M	22/4	E /70	42,15,3	2	MGH	h SME Series V arm
SME Model 20A	3763	M	33/4 33/4	_	45,22,3			
SME Model 30	10166		-	_			,	gship turntable
SME Model 30A	11399	M	33/4	_	45,22,3			h SME Series V arm
Sony PSLX1504H	90	S	33/4		43,10,3		-	er, with MM cartridge
Sony PSLX431B	150	Α	33/4	_	43,11,3	36		yer, auto rec size select
Systemdek I/920	136	M	33/4		-			ni-suspended deck
Systemdek IIX/900	230	M	33/4	5	-		Full	y suspended design
Systemdek I/920/Moth	235	M	33/4	5	-		As a	above with RB250 arm
Systemdek IIXE/900	330	M	33/4	5	-		As a	above with separate PSU
Technics SL-BD20	140	S	33/4	5	43,10,3	38	Belt	drive, includes T4P cartr
Technics SL-BD22	160	S	33/4	5	43,10,3	38	Belt	drive, includes T4P cartr
Technics SL-1210MkII	430	M	33/4		46,17,3			artz DD, no cartridge
Technics SL-1200MkII	430	M	33/4	_	43,10,3			artz DD, includes T4P cartri
Thorens TD-180/AT91	180	S		5/78	10,10,0	~		t drive, inc Stanton 500 c
Thorens TD-280 IV/UK	200	S		5/78				ctronic belt drive, AT95E
	200	M	33/4		-	-		nk armboard, cut to shape.
Thorens TD-166 VI/UK					-	-		
Thorens TD-166 VI/UK	270	М	33/4		-	-		TP50 manual arm, AT95E
Thorens TD-166 VI/UK	300	M	33/4		-1			h Rega RB250 arm, no cart
Thorens TD-3001BC	630	M	33/4	_	7-			arm, various armboards avai
Thorens TD-2001	700	S	33/4		20			udes Thorens TP90 arm, no
Thorens TD-3001/UK	770	M	33/4	5	-		Sus	pended, Rega arm no cart
Thorens TD-520	900	S	33/4	5/78			Tho	rens TP90, pitch control, n
Townshend MkIII Rock	799	M	33/4	5	-		Hea	adshell end arm damping
Triangle 6/Sumiko	699	M	33/4	5	17,46,3	3	with	Sumiko arm
Voyd The	1570	M	33/4		51,16,4			ginal three-motor model
Voyd 0.5	3368	M	33/4		51,16,4		,	graded standard Voyd
Voyd Reference	6500	M	33/4		51,16,4		_	ntable, polycarbonate platt
	2150		33/4		31,10,5	10		ernal PSU, belt driven
VPI HW-19Mk3/PLC		M			-			
VPI HW-19Mk4/PLC	2950	M	33/4		-	-		above, TNT platter/bearing
VPI TNT Junior	3500	M	33/4		-			or mans TNT Series 3
VPI TNT Series 3	6000	М	33/4		*			que platter and drive
Wilson Benesch	1550	M	33/4	5	-		Hig	h-tech turntable
Model	Price	Туре	Output	Int. stylus	Fit	Weight		Special
CARTRIDGES						Park	38	
Arcam C77	30	MM	4mV	Υ	N	-		Conical stylus
Arcam C77MG	40	MM	4mV	Υ	N	-		As C77 with metal body
Arcam E77	50	MM	4mV	Υ	N			Elliptical stylus
Arcam E77MG	60	MM	4mV	Υ	N	-		As E77, with metal body
Arcam P77	63	MM	4mV	Υ	N	-		'Profile' stylus
Arcam P77MG	73	MM	4mV	Υ	N	-		As P77, with metal body
Audio Note lo IIV	1395	MC	-	N	N	-		Silver wired
Audio Note lo Ltd V	2950	MC		N	N			Needs PSU
Audio Technica AT-91	13	MM		Υ	N			110000100
		MM	-	Υ	N	-		
Audio Technica AT-95E	19		-			-		
Audio Technica AT-101E		MM	-	Υ	N	-		
Audio Technica AT-110E	24	MM	-	Υ	N	-		
Audio Technica AT-420E	40	MM	-	Υ	N	-		(4);
Audio Technica AT-450E	62	MM		Υ	N	- 2		
Audio Technica AT-0C3	104	MC	-	N	N	-		
Audio Technica AT-0C5	146	MC	-	N	N	-		
Audio Technica AT-0C30	619	MC	-	N	N	-		Nude micro linear stylus
Audio Technica ART-1	944	MC	-	N	N			,
Audioquest MC5	250	MC	1.4mV	N	N			High output MC, line contact
Audioquest 404il	500	MC	0.5mV	N	N			Boron cantilever
		MC	0.5mV	N	N			Boron tube cantilever
Audioquest B200L	800	MC	0.5mV	N		-		Boron tube cantilever
Audioquant 7000NICV	1205				NI.			

Audioquest 7000NSX

Benz-Micro The Glider

Benz-Micro H200

Benz-Micro M090

Benz-Micro L040

Benz-Micro MC-3i

Benz-Micro Wood Ref

Benz-Micro Ruby Ref

Dynavector 50X MkII

Dynavector 10X4 MkII

Dynavector 23RS MkII

Dynavector 17D2 MkII

Dynavector XX-1L

Dynavector XX-1

Glanz GMC-10LX Glanz GMC 20E

Goldring Elan P

Goldring Elan

Goldring Elektra

Goldring 1006

Goldring 1012GX Goldring 1022GX

Denon DL110 Denon DL160

Denon DL103

Denon DL304

1295

600

700

700 MC

700 MC

850 MC MC

1100

70

90

100

200 MC

159 MC

189 MC

375

449 MC

998

998

69 MC 0.3

99 MC

17 MM

25 50

MC 1400

МС

МС

MM

MM

ММ

1mV

0.3mV

0.3mV

Ν N

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N

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory, see page 123. Kiseki Lapis Lazuli

5.0mV

5.0mV

5.0mV

6.5mV

Boron tube cantilever

Bruyere housing

Bruyere housing

Elliptical stylus

Elliptical stylus

Micro ridge stylus

Micro ridge stylus

Micro ridge stylus

T4P version of Elan

Rigid body

Elliptical stylus

Elliptical stylus Gyger II stylus

Gyger I stylus

High output elliptical MC

High output elliptical MC

High output, line contact MC

MC, gemstone body



#### **NORTH LONDON**

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Tel: 071 607 2148

#### WOKING

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Call Bartletts for a demonstration



#### **EAUDIOLAB**

# **Bartletts Suggested Systems**

The Bartletts Suggested Systems listed below are supplied with the Marantz CD 53, an alternative CD player or Turntable is available, see below for price details. All systems are supplied with 8 metres of 79 strand loudspeaker cable. QED 4mm plugs are available at a cost

of £1.00 each. Carriage charge for delivery to an address on the UK mainland is £12.00 per order. All items are sent fully insured. Prices were correct at time of printing but are subject to change without notice. All systems come with a 2 year parts & labour guarantee. E&OE.

	Celestion 1	Mission 760i Celestion 3 II Mordaunt Short MS 10	Tannoy 603 II Mission 760ise	Mission 761i B&W DM 600i Celestion 5 II Tannoy 605 II Mordaunt Short MS 20	Tannoy 607 II Celestion 7 II Nad 802	Rogers LS 2a2 B&W DM 610i Mission 780	Mission 762i Cerwin- Vega VS 8 Mission 780 SE	Rogers LS 4a2 Tannoy 609 II
Marantz PM 44 SE	378.95	417.96	433.95	456.95	487.95	503.95	518.95	550.95
Nad 302	355.95	394.95	409.95	433.95	464.95	479.95	495.95	526.95
Nad 304	401.95	440.95	456.95	479.95	511.95	526.95	542.95	573.95
Harman Kardon 6150	378.95	417.95	433.95	456.95	487.95	503.95	518.95	550.95
Harmon Kardon 1200	480.95	524.95	542.95	568.95	604.95	617.95	630.95	674.95
Technics SUA 600	378.95	417.95	433.95	456.95	487.95	503.95	518.95	550.95
Pioneer A 300X	401.95	440.95	456.95	479.95	511.95	526.95	542.95	573.95



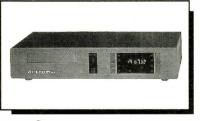
The following CD players or turntables can be ordered instead of the Marantz CD 53 in the above systems:

#### CD Players

Denon DCD 595	Deduct	£20.00	Denon DCD 695	Add	Nil	Denon DCD 890	Add	£70.00
Marantz CD 52 IISE	Add	£100.00	Marantz CD 63	Add	£50.00	Nad 501	Deduct	£20.00
Nad 502	Add	£20.00	Sony CDP 711	Add	£50.00	Sony CDP 911	Add	£100.00
Yamaha CDX 470	Add	Nil	Yamaha CDX 570	Add	£45.00	Yamaha CDX 670	Add	£90.00

#### Turntables

Turritables						
Dual CS 503-2	Deduct	£20.00	Dual CS 505-4	Add	£30.00	Technics SLBD 22 Deduct £50.00
Thorens TD 280	Add	Nil				



@ MICIOMEGA

#### Bartletts

are stockists for:

Aiwa, Arcam, Audiolab, Audio Source, Audio Technica, Aura, B&W, Beyer, Bose, Boston, Cable Talk, Canon, Celestion, Cerwin-Vega, Copland, Creek, Cyrus, Denon, Dual, Epos, Exposure, Harmon Kardon, Marantz, Michell, Micromega, Mission, Moth, NAD, Nakamichi, Panasonic, Pioneer, Polk, ProAc, Quad, Rel, Roberts, Rogers, Rotel, Royd, Ruark, Sennheiser, Sony, Systemdek, Tannoy, Target, TDL, Technics, Thorens, Yamaha

# with Bartletts

# 

PTION 1

Get back 15% of your purchase price, which can be used to claim free accessories or loudspeakers of your choice

PTION 2

Interest free credit on your purchase (minimum balance after deposit £200)

PTION 3 ? (For personal callers only!)

And that's not all! In all these options every item costing £200 or more is covered by Bartletts full 3 year parts and labour guarantee.

[Certain restrictions apply to Bartletts Options: Suggested Systems are excluded. Credit is subject to status (written details upon request) Bartletts are licenced credit brokers. E&OE.]

# So don't play the fool Play to win at Bartletts

music made live ... music made live ...

#### 120 HI-FI CHOICE BUYER'S GUIDE



Key to cartridges.
Price - typical retail, to nearest pound.
Type - MM - moving magnet (output typically amV/cm/sec), MC - moving coil (output typically - nmV/cm/sec).
Output - in mV/cm/sec
Int. stylus - Y for removable/replaceable styli and N for fixed styli.

Fit - N for normal half inch mountings, T for T4P plug in types. Weight - in grams.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.



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				_			
	2	_	Out	Int. stylus		Wei	
Model	Price	Туре	Output	ylus	Ŧ	Weight	Special
CARTRIDGES Goldring Eroica LX	100	MC	0.5mV	N	N	6	As Eroica, low output
Goldring Eroica LX	100	MC	2.5	N	N	6	Gyger II stylus
Goldring 1042	105	MM	6.5mV	Υ	N	6	Gyger S stylus
Goldring Elite	200	MC	0.5mV	N	N	6	van den Hul, silver wire
Goldring Excel	549	MC	0.5mV	N	N	8	van den Hul I stylus
Goldring Excel GS	599	MC	0.5mV	N	N	8	Gyger S, hand built
Grado ZTE+1 Grado ZCE+1	27 37	MM MM	-	Y	N N		Moving flux, high output  Moving flux
Grado Z3E+1	47	MM		Y	N	-	Moving flux
Grado ZF1+	82	MM	-	Υ	N	-	Moving flux
Grado Signature 8MZ	250	MM	-	Υ	N	-	Moving flux
Grado Signature MCZ	375	MM	-	Υ	N	-	Moving flux
Grado Signature TLZ Grado Signature XTZ	650 975	MM	-	Y	N N		Moving flux Moving flux
Kiseki Blue GS	499	MC	0.4mV	N	N	8	INIOVING HUX
Kiseki Purpleheart	749	MC	0.4mV	N	N	11	
Kiseki PHS	899	MC	0.4mV	N	N	8	
Kiseki Blackheart	1995	MC	0.3mV	N	N	11	
Kiseki Lapis Lazuli	5000	MC	0.4mV	N N	N N	8	Gemstone body High-output MC
Koetsu Red T Koetsu Red K Sig	1550 1998	MC MC		N	N	- 1	Selected, re-tuned Red T
Koetsu Urushi	2200	MC	-	N	N		Metal alloy body
Koetsu Signature	3218	MC		N	N	100	Rosewood body
Linn K5	54	MM	4.5mm	Υ	N	-	
Linn K9	109	MM	4.5mm	Υ	N	-	
Linn K18/II	197	MM	4.5mV	Y	- NI	-	Metal body
Linn Klyde Linn Arkiv	449 998	MC MC	150uV 150uV	N N	N N	-	Alloy body Three point mt, machined body
London Decca Maroon	199	MM	5.0mV	N	N	8	Original mounting
London Decca Gold	239	MM	5.0mV	N	N	8	Elliptical stylus
London Decca Maroon Dp	_	MM	5.0mV	N	N	10	Deccapod mounting
London Decca Gold Dpd	299	MM	5.0mV	N	N	5	Elliptical stylus, Deccapod
London Decca S Gold London Decca S Gold Dp	339 399	MM MM	5.0mV 5.0mV	N N	N N	7	Original mounting Deccapod mounting
London Decca Jubilee	999	MM	5.0mV	N	N	5	0.5 inch mounting
Lyra Lydian	649	MC	-	Υ	N	-	· ·
Lyra Clavis	1298	MC	-	Υ	N	-	
Lyra Parnassus	1995	MC	-	Υ	N	-	_
Milltek Aurora Milltek Olympia	299 399	MC MC	2.0mV 2.0mV	N N	N N	9.5 9.5	High output MC As Aurora, sapphire cantilever
Nagaoka MP-11	24	MM	2.01117	Y	N	9.0	Elliptical stylus
Nagaoka TS11	70	MM		Υ	N	-	Line contact stylus
Nagaoka TS12 Boron	80	MM	+	Υ	N	-	As MP-11, with boron cantileve
N'ham Tracer I	98	MM	-	-	-		
N'ham Tracer II	175	MM	-		-	-	
N'ham Tracer III N'ham Tracer IV	350 550	MM MM		-	- N	-	
Ortofon OMP-5E	16	MC		Υ	T		
Ortofon OM-5E	16	MM		Υ	N	-	
Ortofon OM3E/U	20	MM	-	Υ	- 15	12	With headshell
Ortofon OM3E/U	20	MM	-	Υ	N	- 11	
Ortofon OM3E/S	20	MM	-	Y	- N	-	With headshell
Ortofon OM Pro S Ortofon OM10 Super	21 25	MM MM	-	Y	N N		Budget disco cartridge Elliptical stylus
Ortofon Night Club	32	MM	-	Υ	N		Spherical stylus
Ortofon 510	32	MM	-	Υ	N	-	
Ortofon Night Club	37	MM	-	Υ	N	-	Elliptical stylus
Ortofon Concord Pro	40	MM	-	Υ	N	-	For professional use
Ortofon Concord NC Ortofon 520P	55 55	MM MM	-	Y	N N		Professional, spherical stylus
Ortofon 520	55	MM		Y	N	- 1	Elliptical stylus
Ortofon OM20 Super	60	MM	-	Υ	N	-	
Ortofon MC1 Turbo	60	MC	-	Υ	N	-	
Ortofon Concord NC	60	MM	-	Υ	N	-	Spherical version of Concord
Ortofon OM30 Super	80	MM	-	Y	N	-	Fine line stylus
Ortofon MC10 Super Ortofon 530P	85 85	MC MM		N Y	N T		
Ortofon 530	85	MM	-	Y	N		Elliptical stylus
Ortofon Quartz	110	MC	-	N	N	2	High output MC cartridge
Ortofon MC3 Turbo	110	MC	-	N	N	-	
Ortofon MC15 Super II	110	MC	-	N	N	-	
Ortofon Ouasar	110 350	MM MC		Y N	N N		High-output elliptcal MC
Ortofon Quasar	300	IVIC	-	IN	IN		night-output ellipteal MC

Model	Price	Туре	Output	Int. stylus	THE STATE OF	Weight	Special
CARTRIDGES	re .	Ф	7	S	~	~	Special
Ortofon MC2000II	650	MC	-	N	N	-	
Ortofon MC3000II	950	MC	120	N	N	-	'Replicant' stylus
Ortofon MC5000	1500	MC	*	N	N	141	Sapphire cantilever
Ortofon MC7500	2000	MC	-	N	N	-	75th Anniversary model
Pickering TE-15	20	MM	-	Υ	N	-	Tracks 1.5gm
Pickering VE-15	25	MM	*	Υ	N		Tracks 1 - 3gms
Pickering T-E	25	MM	-	Υ	T	-	Elliptical
Pickering V15-DJ	28	MM	-	Υ	N	-	Disco model
Pickering TL-E	35	MM	-	Υ	T	-	
Pickering XV15-350C	40	MM	-	Υ	N	-	Conical stylus
Pickering TL-2E	45	MM		Υ	T	-	
Pickering XV15-625E	50	MM		Υ	N	-	D ( )
Pickering XV15-150-DJ	50	MM		Y	N	-	Professional cartridge
Pickering TL-2-S	55	MM	-	Υ	N	-	Line contact stylus
Pickering XV15-757S	60	MM	-	Y	N N		Line contact stylus
Pickering XV15-625DJ	60	MM		Y	N	*	Broadcast cartridge
Pickering XV15-1800S	70	MM		Y			Line contact stylus
Pickering TL3S	80 95	MM		Y	T N	-	Elliptical ctylus
Pickering XEV-3001E		MM MM	- 61	Y	_	77.	Elliptical stylus
Pickering XLZ-3500	100			-	N T	-	
Pickering TL-4-S	100	MM	-	Y		-	
Pickering TL-3003	145	MM	-	Y	T		Line contact
Pickering XLZ-4500	150	MM	-		N T		Line contact
Pickering TL-4004	175	MM	-	Y			Ulah autout
Pickering XSV-5000U	200	MM	-	Y	N	-	High output
Pickering XLZ-7500	200	MM	-	Υ	N	-	Hybrid, low impedence
Pickering TLZ-7500-S	200	MM	-	Υ	T		
Rega Bias	34	MM	-	-	N	-	. 70
Rega 78	34	MM	-		N	-	for 78rpm records
Rega Super Bias	52	MM	-		N	-	
Rega Elys	74	MM	-	- V	N	-	
Roksan Corus Black	130	MM	-	Υ	N	-	
Roksan Shiraz	800	MM	ConV	N	N	-	Conical ability
Shure ME70B	18	MM	6mV	Y	N		Conical stylus
Shure M92E	22	MM	5mV	Y	- N		Dual T4P & normal fit
Shure SC35C	28	MM	5mV	Υ	N	-	For broadcast use
Shure M44C	33	MM	9mV	Υ	N	-	Professional, spherical stylus
Shure M44-7	33	MM	9mV	Υ	N	-	Professional, spherical stylus
Shure M44G	35	MM	6mV	Υ	N	-	Professional, spherical stylus
Shure ME95ED	38	MM	5mV	Y	N N		Elliptical stylus
Shure M55E	42 44	MM	6mV	Y		-	Professional, spherical stylus
Shure M104E		MM MM	5mV 4mV	Y	- N		DualT4P & normal fit
Shure ME97HE	60	MM	4mV	Y		-	Hyper elliptical stylus  Dual T4P & normal fit
Shure M110HE	74			Y	- N	-	
Shure V15V-MR	265 34	MM MM	3mV	Y	N		Micro ridge stylus  Elliptical stylus
Stanton 500EL	34	MM	-	Y	N	-	Spherical stylus
Stanton 500AL II Stanton 680AL/X	50	MM	-	Y	N	14	
	56	MM	-	Y	N	-	Spherical stylus Elliptical stylus
Stanton 680EL/X Stanton 890AL/X	82	MM	-	Y	N	-	Professional cartridge
	30	MM	-	Y	N	-	Professional carriage
Sumiko Oyster Sumiko Black Pearl	50	MM		Y	N	-	
	70	MM	-	Y	N	-	
Sumiko Pearl Sumiko Blue Point	100	MC	-	N	N		High output MC
Sumiko BPS	250	MC	-	N	N	-	Nude stylus
Transfiguration AF-1 Mk II	1595	MC	230uV	N	N		MC, transformer & preamp
Transfiguration Supreme	1995	MC	200uV	N	N		Yokeless ring magnet system
van den Hul MM-1	275	MM	20000	IN	N		Tokeless fing magnet system
van den Hul MM-2	325	MM			N		
van den Hul DDT-II	675	MC		N	N	-	Silver coils
van den Hul MC-10	775	MC		N	N		Silver coils
van den Hul MC-One	975	MC	-	N	N	-	Selected version of MC-10
van den Hul MC-One/Hi	1100	MC		N	N		High output version of MC-10
van den Hul MC-Two	1300	MC	-	N	N	-	As MC-One/Hi, higher output
vdH Grasshopper III	2300	MC		N	N		7.5 M.O. Ono/Til, higher output
CONTRACTOR OF THE PERSON NAMED IN	2300	MC	•	N	N		
vdH Grasshopper III vdH Grasshopper III	2950	MC		N	N	-	
vdH Grasshopper III vdH Grasshopper III	3200	MC MC		N N	N		
vdH Grasshopper III	3200	IVIC	-	N	N		
vdH Grasshopper III	3500	MC		N	N		
Virtual Reality Aciore	199	MC		N	N		
Virtual Reality Etile	299	MC	-	N	N		
Virtual Reality Lexe	899	MC		N	N		
VIII LUAI HEALITY LEXE	033	IVIO		14	IV		



Key to tonearms
Price · typical retail to the nearest
pound
Type · f · fixed armtube/headshell, A
· interchangeable armtube, H · interchangeable headshell.
Base type · S · SME fit, L ·
Linn/Alphason fit, P · proprietary fit.
Effective length - from pivot point to
headshell in millimetres.

Weight range - the range of cartridge masses that the arm can accept in masses that the unit grams.
Special - characteristics of the arm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

				m		
			Base	Effective	Wt	
	ا ت	-	se	ive	. ra	
Model	Price	Туре	type	e len	Wt. range	Special
ARMS					15	
Air Tangent Tangent 10B	8000			-		Air-bearing
Air Tan Tangent Ref. Sig.	10000		-		-	Remote version of above
Alphason Xenon	286	F	L	229	3-20	1-piece titanium armtube
Alphason Xenon MCS	370	F	L	229	3-20	vdH silver wiring
Alphason HR100S	490	F	L	229	3-20	Superior quality bearing
Alphason HR100S MCS	550	F	L	229	3-20	vdH silver, top bearings
Audiomeca SL5	1999		_	-	-	Parallel tracking
Decca LI Arm	49	Н	L	212	5-12	Damped
Decca LIR Arm	99	Н	L	212	5-12	Rewired version of LI
Dynavector 507	1400		-	- 12	- 12	Biaxial design
Graham 1.5T	2550		S		-	SME base, unipivot
Helius Orion 3 S1 Copper	395	Р	P	254	-	occo, amprot
Helius Orion 3 S1 Copper Helius Orion 3 S1 Silver	515	P	P	254	-	
Helius Orion 3 S2 Copper	575	P	P	254		Bi-metal tube
Helius Orion 3 S2 Silver	695	P	P	254		Bi-metal tube
Helius Cyalene 2	1395	P	P	254		Silver wired, pivoted
Kuzma Stoqi	600		-	-	-	Effective mass 13gm
Kuzma Stogi Ref	1000		-			Effective mass 12.5qm
Linn Akito	209	F	L	229	-	Statically balanced
Linn Ekos	1297	F	L	229	-	Dynamically balanced
Manticore Musician	320	F	L	230		, surgerious
Manticore Musician  Manticore Magician	650	F	L	230	-	Polished armtube finish
Manticore Magician  Manticore Magician	720	F	L	305	-	Polished armtube finish
Moth Arm	95	-	-	305		Rebadged Rega RB250
Moth Mk III	146		-			Rebadged Rega RB300
Naim ARO	794		-			Unipiyot
N'ham Space	350			-		Optional silver wiring, unipiv
N'ham Mentor	750					Silver wiring, unipiv
N'ham Alien	1200		_	-	0	Graphite tube, unipivot
Rega RB250	95	F	R	237		Scaled down RB300
Rega RB300	139	F	R	237	-	Pivoted arm
Roksan Tabriz ZI	330		-	-		'Intellligent' counterweight
Roksan Artemiz	690	F			-	Flagship arm
SME Series IIIS	230	A	S	233	0-12	Economy version of Series III
SME 3009 Ser II Imp	255	F	S	231	3-7	Fixed headshell, low mass
SME 3009 S2 Ser II Imp	278	Н	S	231	3-8	Detachable headshell, medium m
SME Series III	320	A	S	233	0-13	Ultra-low mass for hi-complian
SME Series II 3009-R	424	Н	S	233	0-13	Heavier version of Ser II S2 I
SME Series II 3010-R	434	Н	S	239	0-25	Detachable headshell, 10 inch
SME Series II 3012-R	466	Н	S	308	0-25	Detachable headshell, 12 inch
SME Series 300-309	568	Н	S	232	6-17	Ser V derivative with detach h
SME Series 300-310	581	Н	S	238	6-17	10 inch (nom) version of 300-3
SME Series 300-312	661	Н	S	308	5-14	12 inch (nom) version of 300-3
SME Series IV	827	F	S	233	5-16	Economy version of Series V
SME Series V	1232	F	S	233	0-14	Flagship model
Townshend Excalibur	799	F	P	220	3-14	Outrigger headshell damping
Wheaton Tri-Planar 4	2750		-	-	-	With terminal box
Wheaton Tri-Planar 4C	3000	-	-	-	-	As above with Cardas cable
Wilson Benesch ACT1	975		-	-	-	Carbon-fibre armtube, unipivot
Zeta	469		-	-	-	Pivoted
Zeta	555					Pivoted, vdH wired
	500	_				,

he information contained in the Hi-Fi Choice Buyer's Guide is supplied either by manufacturers or by distributors. Each month we contact all companies to ensure that the data is as accurate and up-to-date as possible. However, prices and specifications are subject to change due to circumstances beyond our control.

Please let us know if you spot any omissions or errors in the Buyer's Guide.

# M Quality equipment at sensible prices

Roksan M1 monoblocks         mint s/h         £695           Audio Inn 2nd (2A3, 82)         mint s/h         £1595           Audio Inn 2nd (2A3, 82)         mint s/h         £1595           Audion 300B (Silver Knights)         mint s/h         £1595           Abarry 40B monoblocks         mint s/h         £295           Musical Fidelity F15/F22         mint s/h         £1995           Roksan L2/S1 pre pwr         mint s/h         £1995           Rokasan L2/S1 pre pwr         mint s/h         £1995           Conrad Johnson Prem 10/11         as new         £550           Muscial Fidelity P370 MkII         mint s/h         £1195           Threshold S150 pwr amp         mint s/h         £195           Krell KMA 100 MkII         mint s/h         £195           Naim 52/135/CDS/SBL's         poa         poa           Audio Research SP15 Mk II         mint s/h         £1695           Audio Innovations L2 pre         mint s/h         £495           Audio Innovations L2 pre         mint s/h         £495           Audio Innovations L2 pre         mint s/h         £3500           Audio Innovations L2 pre         mint s/h         £495           Audio Innovations P2 phono         mint s/h         £496			
Audio Inn 2nd (2A3, 82)			
Audio Research D240 Mkll mint s/h £1795 Aludion 300B (Silver Knights) mint s/h £495 Albarry 40B monoblocks mint s/h £2995 Manley 360 monoblocks mint s/h £2995 Musical Fidelity F15/F22 mint s/h £1995 Roksan L2/S1 pre pwr mint s/h £995 Roksan L2/S1 pre pwr mint s/h £1195 Threshold S150 pwr amp mint s/h £1195 Threshold S150 pwr amp mint s/h £1995 Krell KMA 100 Mkll mint s/h £1995 Naim 52/135/CDS/SBL's mint s/h £1995 Audio Research LS5 as new £3500 Audio Research LS5 as new £3500 Pink Triangle P.P. II + bat psu mint s/h £1495 Copeland 301 pre as new £850 Audio Innovations L2 pre mint s/h £495 Audio Innovations L2 pre mint s/h £495 Audio Innovations P2 phono mint s/h £495 Audio Innovations P2 phono mint s/h £3500 Sony TA-E 88 pre amp wyc £300 Sony TA-E 88 pre amp x-demo £995 Triology 902 pre amp as new £895 Audio Research SP9 mint s/h £895 Linn Kairn mint s/h £895 Linn Kairn mint s/h £3896 Linn Kairn mint s/h £3896 Sonus Faber Electra + stnds mint s/h £3900 Merdian D600 B as new £1996 Inifinity IRS Beta mint s/h £3900 Merdian D600 B as new £1996 Inifinity IRS Beta mint s/h £2890 Mark Levinson No 26S mint s/h £2890 Mark Levinson No 26S mint s/h £2890 Mark Levinson No 26S mint s/h £3990 Martin Logan Quest mint s/h £3900 Merdian D600 B as new £1996 Sonus Faber Electra + stnds mint s/h £2890 Mark Levinson No 3031 mint s/h £2890 Mark Baber Electra + stnds mint s/h £3990 Martin Logan Quest mint s/h £2890 Mark Electra + stnds mint s/h £2890 Mark Levinson	Aragon 2004 pwr amp	mint s/h	£695
Audion 300B (Silver Knights)	Audio Inn 2nd (2A3, 82)	mint s/h	£1595
Albarry 40B monoblocks. mint s/h			
Manley 350 monoblocks.         mint s/h         £2995           Musical Fidelity F15/F22         mint s/h         £1995           Roksan L2/S1 pre pwr         mint s/h         £995           Conrad Johnson Prem 10/11         as new         £5500           Muscial Fidelity P370 Mkll         mint s/h         £1195           Threshold S150 pwr amp         mint s/h         £1995           Krell KMA 100 Mkll         mint s/h         £1995           Naim 52/135/CDS/SBLs         pooa           Audio Research LS5         as a new         £3500           Audio Research LS5         as a new         £3500           Audio Research SP15 Mk II         mint s/h         £3500           Pink Triangle PP II + bat psu         mint s/h         £1495           Copeland 301 pre         as new         £850           Audio Innovations L2 pre         mint s/h         £495           Audio Innovations P2 phono         mint s/h         £495           Audio Innovations P2 phono         mint s/h         £395           NRG PA1 pre amp         mint s/h         £395           NRG PA1 pre amp         mint s/h         £395           Tology 902 pre amp         wgc         £300           Tesserac TALA pre amp			
Musical Fidelity F15/F22         mint s/h         £995           Roksan L2/S1 pre pwr         mint s/h         £995           Conrad Johnson Prem 10/11         as new         £5500           Muscial Fidelity P370 MkII         mint s/h         £1195           Threshold S150 pwr amp         mint s/h         £1995           Krell KSA 80         mint s/h         £1995           Audio Research LS5         as new         £3500           Audio Innovations L2 pre         mint s/h         £1495           Copeland 301 pre         as new         £850           Audio Innovations L2 pre         mint s/h         £495           NRG PA1 pre amp         mint s/h         £495           NRG PA1 pre amp         mint s/h         £350           SNG PA1 pre amp         x-demo         £995           Trology 902 pre amp         as new         £895           Audio Research SP9         mint s/h         £895           Mark Levinson No 26S         mint s/h         £4500           Gryphor Limited Edition         mint s			
Roksan L2/S1 pre pwr         mint s/h         £955           Conrad Johnson Prem 10/11         as new         £5500           Muscial Fidelity P370 MkII         mint s/h         £995           Krell KMA 100 MkII         mint s/h         £1995           Krell KMA 100 MkII         mint s/h         £1995           Krell KMA 100 MkII         mint s/h         £1695           Audio Research LS5         as new         £3500           Audio Research SP15 Mk II         mint s/h         £3500           Pink Triangle P.P. II + bat psu         mint s/h         £1495           Copeland 301 pre         as new         £850           Audio Innovations L2 pre         mint s/h         £495           Audio Innovations P2 phono         mint s/h         £495           NRG PA1 pre amp         vgc         £300           Sony TA-E 88 pre amp         vgc         £300           Triology 902 pre amp         as new         £895           Audio Research SP9         mint s/h         £895           Linn Kairn         mint s/h         £895           Mark Levinson No 26S         mint s/h         £895           Mark Levinson No 26S         mint s/h         £350           Gryphon Limited Edition			
Conrad Johnson Prem 10/11. as new £5500 Muscial Fidelity P370 MkII mint s/h £1195 Threshold \$150 pwr amp mint s/h £1995 Krell KMA 100 MkII mint s/h £1995 Krell KMA 100 MkII mint s/h £1995 Krell KMA 100 MkII mint s/h £1695 Audio Research LS5 as new £3500 Audio Research LS5 as new £3500 Pink Triangle PP II + bat psu mint s/h £1495 Copeland 301 pre as new £850 Audio Innovations L2 pre mint s/h £1495 Audio Innovations L2 pre mint s/h £495 Audio Innovations P2 phono mint s/h £495 Audio Innovations P2 phono mint s/h £3500 Sony TA-E 88 pre amp vgc £300 Tesserac TAALA pre amp x-demo £995 Triology 902 pre amp as new £895 Audio Research SP9 mint s/h £895 Linn Kairm mint s/h £895 Mark Levinson No 26S mint s/h £4500 Gryphon Limited Edition mint s/h £3500 Audio Bose arch SP9 mint s/h £3500 Audio Bose SP9 mint s/h £3500 Audio Bose SP9 mint s/h £3500 Audio Research SP9 mint s/h £3500 Audio Research SP9 mint s/h £3500 Mint Levinson No 26S mint s/h £4500 Audio Bose SP9 mint s/h £3500 Audio Bofy 30 mint s/h £3500 Meridian D600 B as new £1995 Inifinity IRS Beta mint s/h £3500 Meridian D600 B as new £1995 Inifinity IRS Beta mint s/h £4995 Sonus Faber Electra + stnds mint s/h £3990 Martin Logan Quest mint s/h £3900 Martin Logan Quest mint s/h £3800 Martin Logan Cuest mint s/h £2800 Milson Watts 3 Puppie 2 as new £7900 Audio ESL 63 + Gradient s/w mint s/h £895 Apogee Duetta mint s/h £895 Apogee Du			
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Threshold S150 pwr amp         mint s/h         £995           Krell KMA 100 Mkll         mint s/h         £1995           Naim 52/135/CDS/SBL's         poa           Krell KSA 80         mint s/h         £1695           Audio Research LS5         as new         £3500           Audio Reserach SP15 Mk II         mint s/h         £3500           Pink Triangle P.P II + bat psu         mint s/h         £1495           Copeland 301 pre         as new         £850           Audio Innovations L2 pre         mint s/h         £495           Audio Innovations P2 phono         mint s/h         £495           NRG PA1 pre amp         x-demo         £995           Toriology 902 pre amp         as new         £895           Triology 902 pre amp         as new         £895           Mark Levinson No 26S         mint s/h         £895           Mark Levinson No 26S         mint s/h         £3500           Jadis Defy 30         mint s/h         £3500           Jadis Defy 30         mint s/h			
Krell KMA 100 Mkll         mint s/h         £1995           Naim 52/135/CDS/SBL's         poa           Krell KSA 80         mint s/h         £1695           Audio Research LS5         as new         £3500           Audio Research SP15 Mk II         mint s/h         £1495           Copeland 301 pre         as new         £850           Audio Innovations L2 pre         mint s/h         £495           Audio Innovations P2 phono         mint s/h         £950           Audio Innovations P2 phono         mint s/h         £950           Audio Innovations P2 phono         mint s/h         £955           NRG PA1 pre amp         mint s/h         £950           NRG PA1 pre amp         ygc         £300           Tesserac TALA pre amp         x-demo         £995           Tesserac TAADA phono mm/mc         x-demo         £995           Tesserac TALA pre amp         x-demo         £995           Tesserac TALA pre amp         x-demo         £995           Tesserac TALA pre amp         x-demo         £995           Trology 902 pre amp         as new         £995           Audio Research SP9         mint s/h         £895           Linn Kair         mint s/h         £895	Muscial Fidelity P370 MkII	mint s/h	£1195
Naim 52/135/CDS/SBL's			
Krell KSA 80	Krell KMA 100 Mkll	mint s/h	£1995
Audio Research LS5.	Naim 52/135/CDS/SBL's		poa
Audio Reserach SP15 Mk II	Krell KSA 80	mint s/h	£1695
Pink Triangle P.P. II + bat psu			
Copeland 301 pre         as new         £850           Audio Innovations L2 pre         mint s/h         £495           Audio Innovations P2 phono         mint s/h         £495           NRG PA1 pre amp         mint s/h         £3500           Sony TA-E 88 pre amp         vgc         £300           Cospara TALA pre amp         x-demo         £995           Tesserac TAADA phono mm/mc         x-demo         £995           Triology 902 pre amp         as new         £895           Audio Research SP9         mint s/h         £895           Linn Kairn         mint s/h         £895           Mark Levinson No 26S         mint s/h         £950           Gryphon Limited Edition         mint s/h         £950           Jadis Defy 30         mint s/h         £1895           Counterpoint SA11         mint s/h         £1895           Counterpoint SA11         mint s/h         £1995           Inifinity IRS Beta         mint s/h         £4995           Sonus Faber Electra + stnds         mint s/h         £1195           Apogee Diva & Dax         mint s/h         £1995           Inifinity IRS Beta         mint s/h         £2800           Malson Watts 3 Puppie 2         as new<	Audio Reserach SP15 Mk II	mint s/h	£3500
Audio Innovations L2 pre	Pink Triangle P.P II + bat psu	mint s/h	£1495
Audio Innovations L2 pre	Copeland 301 pre	as new	£850
NRG PA1 pre amp         mint s/h         £3500           Sony TA-E 88 pre amp         vgc         £300           Tesserac TALA pre amp         x-demo         £995           Tesserac TAADA phono mm/mc         x-demo         £995           Triology 902 pre amp         as new         £895           Audio Research SP9         mint s/h         £895           Linn Kairn         mint s/h         £895           Mark Levinson No 26S         mint s/h         £4500           Gryphon Limited Edition         mint s/h         £3500           Jadis Defy 30         mint s/h         £3500           Gounterpoint SA11         mint s/h         £3500           Meridian D600 B         as new         £1995           Inifinity IRS Beta         mint s/h         £2490           Sonus Faber Electra + stnds         mint s/h         £2496           Sonus Faber Electra + stnds         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7195           Apogee Diva & Dax         mint s/h         £2800           Walson Watts 3 Puppie 2         as new         £795           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube			
Sony TA-E 88 pre amp         vgc         £300           Tesserac TALA pre amp         x-demo         £995           Tesserac TAADA phono mm/mc         x-demo         £995           Triology 902 pre amp         as new         £895           Audio Research SP9         mint s/h         £895           Linn Kairn         mint s/h         £895           Mark Levinson No 26S         mint s/h         £4500           Gryphon Limited Edition         mint s/h         £3500           Jadis Defy 30         mint s/h         £3600           Jadis	Audio Innovations P2 phono	mint s/h	£495
Tesserac TALA pre amp	NRG PA1 pre amp	mint s/h	£3500
Tesserac TAADA phono mm/mc         x-demo         £995           Triology 902 pre amp         as new         £895           Audio Research SP9         mint s/h         £895           Linn Kairn         mint s/h         £895           Mark Levinson No 26S         mint s/h         £4500           Gryphon Limited Edition         mint s/h         £3500           Jadis Defy 30         mint s/h         £1895           Counterpoint SA11         mint s/h         £2500           Meridian D600 B         as new         £1995           Inifinity IRS Beta         mint s/h         £2496           Sonus Faber Electra + stnds         mint s/h         £2496           Sonus Faber Electra + stnds         mint s/h         £2800           Martin Logan Quest         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7500           Magneplanar 1.4         as new         £795           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £855           Monitor Audio ST10         mint s/h         £850           M.T.D. Tug + stnds         x-demo <td>Sony TA-E 88 pre amp</td> <td>vgc</td> <td>£300</td>	Sony TA-E 88 pre amp	vgc	£300
Tesserac TAADA phono mm/mc         x-demo         £995           Triology 902 pre amp         as new         £895           Audio Research SP9         mint s/h         £895           Linn Kairn         mint s/h         £895           Mark Levinson No 26S         mint s/h         £4500           Gryphon Limited Edition         mint s/h         £3500           Jadis Defy 30         mint s/h         £1895           Counterpoint SA11         mint s/h         £2500           Meridian D600 B         as new         £1995           Inifinity IRS Beta         mint s/h         £2496           Sonus Faber Electra + stnds         mint s/h         £2496           Sonus Faber Electra + stnds         mint s/h         £2800           Martin Logan Quest         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7500           Magneplanar 1.4         as new         £795           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £855           Monitor Audio ST10         mint s/h         £850           M.T.D. Tug + stnds         x-demo <td>Tesserac TALA pre amp</td> <td>x-demo</td> <td>£995</td>	Tesserac TALA pre amp	x-demo	£995
Triology 902 pre amp         as new         £895           Audio Research SP9         mint s/h         £895           Linn Kairn         mint s/h         £895           Mark Levinson No 26S         mint s/h         £4500           Gryphon Limited Edition         mint s/h         £3500           Jacis Defy 30         mint s/h         £1895           Counterpoint SA11         mint s/h         £3500           Meridian D600 B         as new         £1995           Inlifnity IRS Beta         mint s/h         £4995           Sonus Faber Electra + stnds         mint s/h         £995           Inlifnity IRS Beta         mint s/h         £995           Sonus Faber Electra + stnds         mint s/h         £2800           Marion Watts 3 Puppie 2         as new         £7500           Martin Logan Quest         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7500           Magneplanar 1, 4         as new         £750           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £855           Monitor Audio ST10         mint s/h <td>Tesserac TAADA phono mm/mc</td> <td>x-demo</td> <td>£995</td>	Tesserac TAADA phono mm/mc	x-demo	£995
Audio Research SP9			
Linn Kairn	Audio Research SP9	mint s/h	£895
Mark Levinson No 26S         mint s/h         £4500           Gryphon Limited Edition         mint s/h         £3500           Jadis Defy 30         mint s/h         £1895           Counterpoint SA11         mint s/h         £3500           Meridian D600 B         as new         £1995           Inifinity IRS Beta         mint s/h         £4995           Sonus Faber Electra + stnds         mint s/h         £3900           Martin Logan Quest         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7500           Magneplanar 1.4         as new         £7500           Magneplanar 1.4         as new         £7750           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £895           Monitor Audio ST10         mint s/h         £850           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £250           Counterpoint DA10/11E u/a         as new			
Gryphon Limited Edition         mint s/h         £3500           Jadis Defy 30         mint s/h         £1895           Counterpoint SA11         mint s/h         £3500           Meridian D600 B         as new         £1995           Inifinity IRS Beta         mint s/h         £4995           Sonus Faber Electra + stnds         mint s/h         £1195           Apogee Diva & Dax         mint s/h         £2800           Martin Logan Quest         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7500           Magneplanar 1.4         as new         £7500           Magneplanar 1.4         as new         £795           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £895           Monitor Audio ST10         mint s/h         £895           Monitor Audio ST10         mint s/h         £850           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h			
Jadis Defy 30         mint s/h         £1895           Counterpoint SA11         mint s/h         £3500           Meridian D600 B         as new         £1995           Inifinity IRS Beta         mint s/h         £4995           Sonus Faber Electra + stnds         mint s/h         £1195           Apogee Diva & Dax         mint s/h         £3900           Martin Logan Quest         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7750           Magneplanar 1.4         as new         £7750           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £850           Monitor Audio ST10         mint s/h         £850           Monitor Audio ST10         mint s/h         £650           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £250           Counterpoint DA10/11E u/a         as new         £259           Wadia 7 + 9 tran/dac         mint s/h         <			
Counterpoint SA11         mint s/h         £3500           Meridian D600 B         as new         £1995           Inifinity IRS Beta         mint s/h         £4995           Sonus Faber Electra + stnds         mint s/h         £1196           Apogee Diva & Dax         mint s/h         £2300           Martin Logan Quest         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7500           Magneplanar 1.4         as new         £7500           Magneplanar 1.4         as new         £7795           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £850           Monitor Audio ST10         mint s/h         £850           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £250           Counterpoint DA10/11E u/a         as new         £250           Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h			
Meridian D600 B         as new         £1995           Inifinity IRS Beta         mint s/h         £4995           Sonus Faber Electra + stnds         mint s/h         £1195           Apogee Diva & Dax         mint s/h         £23900           Martin Logan Quest         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7500           Magneplanar 1.4         as new         £7795           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £895           Monitor Audio ST10         mint s/h         £895           Monitor Audio ST10         mint s/h         £850           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £950           Counterpoint DA10/11E u/a         as new         £2995           Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £395           Micromega Trio         mint s/h			
Inifinity IRS Beta			
Sonus Faber Electra + stnds         mint s/h         £1195           Apogee Diva & Dax         mint s/h         £3900           Martin Logan Quest         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7500           Magneplanar 1.4         as new         £795           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £850           Monitor Audio ST10         mint s/h         £650           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Kellihs + stnds         as new         £250           Counterpoint DA10/11E u/a         as new         £2590           Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £2495           Micromega Trio         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £15,500           Krell MDI, SPB64 tran/dac	Inifinity IRS Reta	mint e/h	£4995
Apogee Diva & Dax         mint s/h         £3900           Martin Logan Quest         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7500           Magneplanar 1.4         as new         £795           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £895           Monitor Audio ST10         mint s/h         £850           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £250           Counterpoint DA10/11E u/a         as new         £250           Counterpoint DA10/11E u/a         as new         £2995           Wadia 2000 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £995           Krell MDI, SPB64 tran/dac	Sonue Faher Flectra + etnde	mint e/h	£1105
Martin Logan Quest         mint s/h         £2800           Wilson Watts 3 Puppie 2         as new         £7500           Magneplanar 1.4         as new         £7500           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £895           Monitor Audio ST10         mint s/h         £850           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £1995           Linn Keilihs + stnds         as new         £2995           Wadia 2000 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £595           Roksan ROK DPI <t< td=""><td></td><td></td><td></td></t<>			
Wilson Watts 3 Puppie 2         as new         £7500           Magneplanar 1.4         as new         £795           Quad ESL 63 + Gradient s/w         mint s/h         £2850           Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £895           Monitor Audio ST10         mint s/h         £650           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £2550           Counterpoint DA10/11E u/a         as new         £2995           Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £15,500           Micromega Trio         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £595           Krell MDI, SPB64 tran/dac         mint s/h         £595           Roksan ROK DPI         mint s/h         £695           Roksan ROK DPI         min	Martin Logan Quest	mint e/h	52800
Magneplanar 1.4	Wilson Wotto 2 Dunnin 2		£2500
Quad ESL 63 + Gradient s/w         .mint s/h         £2850           Kef 107.2 + Kube         .as new         £1795           Apogee Duetta         .mint s/h         £895           Monitor Audio ST10         .mint s/h         £650           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         .mint s/h         £850           B & W 802         .as new         £1995           Linn Keilihs + stnds         .as new         £2995           Counterpoint DA10/11E u/a         .as new         £2500           Counterpoint DA10/11E u/a         .as new         £2590           Wadia 7 + 9 tran/dac         .mint s/h         £15,995           Wadia 2000 tran/dac         .mint s/h         £2500           EAD T7000 Mk II tran/dac         .mint s/h         £2500           EAD T7000 Mk II tran/dac         .mint s/h         £15,500           Micromega Trio         .mint s/h         £15,500           Micromega CD3 + duo bs         .mint s/h         £15,500           Krell MDI, SPB64 tran/dac         .mint s/h         £5995           Roksan ROK DPI         .mint s/h         £5995           Roksan Attessa         .mint s/h         £2495           Wadia X6			
Kef 107.2 + Kube         as new         £1795           Apogee Duetta         mint s/h         £895           Monitor Audio ST10         mint s/h         £650           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £2550           Counterpoint DA10/11E u/a         as new         £2995           Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £4995           Micromega Trio         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £3000           Mark Levinson No 30/31         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £5995           Roksan ROK DPI         mint s/h         £5995           Roksan Attessa         mint s/h         £795           Micromega Solo         mint s/h         £956           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new			
Apogee Duetta         mint s/h         £895           Monitor Audio ST10         mint s/h         £650           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £2995           Counterpoint DA10/11E u/a         as new         £2995           Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £4995           Micromega Trio         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £3000           Mark Levinson No 30/31         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £5995           Roksan ROK DPI         mint s/h         £695           Roksan Attessa         mint s/h         £795           Micromega Solo         mint s/h         £956           Wadia X64 dac         mint s/h         £2495           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new			
Monitor Audio ST10         mint s/h         £650           M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £2995           Counterpoint DA10/11E u/a         as new         £2995           Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £5995           Roksan ROK DPI         mint s/h         £695           Roksan Attessa         mint s/h         £995           Wadia X64 dac         mint s/h         £2495           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new         £2750           Voyd Valdi/LVII         mint s/h         £550           Van den Hul MCi         mint			
M.T.D. Tug + stnds         x-demo         £1800           Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £550           Counterpoint DA10/11E u/a         as new         £2995           Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £4995           Micromega Trio         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £3000           Mark Levinson No 30/31         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £995           Roksan ROK DPI         mint s/h         £695           Roksan Attessa         mint s/h         £795           Micromega Solo         mint s/h         £2495           Wadia X64 dac         mint s/h         £2495           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new         £2750           Voyd Valdi/LVII         mint s/h         £550           Rega RB 300         as new         £			
Snell E's + Pirate stnds         mint s/h         £850           B & W 802         as new         £1995           Linn Keilihs + stnds         as new         £250           Counterpoint DA10/11E u/a         as new         £2995           Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £5995           Roksan ROK DPI         mint s/h         £9595           Roksan Attessa         mint s/h         £2495           Madia X64 dac         mint s/h         £2495           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new         £695           Rossan TMS/Artemis/DS4         as new         £80           Voyd Valdi/LVII         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Van den Hul MCi         mint s/h			
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Linn Keilihs + stnds         as new         £550           Counterpoint DA10/11E u/a         as new         £2995           Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £4995           Micromega Trio         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £3000           Mark Levinson No 30/31         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £5995           Roksan ROK DPI         mint s/h         £695           Roksan Attessa         mint s/h         £795           Micromega Solo         mint s/h         £2495           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new         £2750           Voyd Valdi/LVI         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Van den Hul MCi         mint s/h         £550           Ortofon MC3000/T3000         as new         £795           Koetsu Red         mint s/h			
Counterpoint DA10/11E u/a         as new         £2995           Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £24995           Micromega Trio         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £15,500           Mark Levinson No 30/31         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £5995           Roksan ROK DPI         mint s/h         £695           Roksan Attessa         mint s/h         £795           Micromega Solo         mint s/h         £2495           Wadia X64 dac         mint s/h         £2495           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new         £2750           Voyd Valdi/LVII         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Ortofon MC3000/T3000         as new         £795           LFD phono stage         mint s/h         £595           Koetsu Red         mint s/h			
Wadia 7 + 9 tran/dac         mint s/h         £15,995           Wadia 2000 tran/dac         mint s/h         £4995           Micromega Trio         mint s/h         £2500           EAD T7000 Mk II tran/dac         mint s/h         £3000           Mark Levinson No 30/31         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £5995           Roksan ROK DPI         mint s/h         £695           Roksan Attessa         mint s/h         £795           Micromega Solo         mint s/h         £2495           Wadia X64 dac         mint s/h         £2495           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new         £2750           Voyd Valdi/LVII         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Van den Hul MCi         mint s/h         £550           LFD phono stage         mint s/h         £595           Koetsu Red         mint s/h         £495           Audio Note I/O         as new         £995			
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Micromega Trio         .mint s/h         £2500           EAD T7000 Mk II tran/dac         .mint s/h         £3000           Mark Levinson No 30/31         .mint s/h         £15,500           Micromega CD3 + duo bs         .mint s/h         £995           Krell MDI, SPB64 tran/dac         .mint s/h         £5995           Roksan ROK DPI         .mint s/h         £695           Roksan Attessa         .mint s/h         £795           Micromega Solo         .mint s/h         £2495           Wadia X64 dac         .mint s/h         £2495           Meridian 500 tran         .as new         £695           Roksan TMS/Artemis/DS4         .as new         £2750           Voyd Valdi/LVII         .mint s/h         £550           Rega RB 300         .as new         £80           Koetsu Black (new cant + tip)         .mint s/h         £350           Van den Hul MCi         .mint s/h         £550           LFD phono stage         .mint s/h         £595           Koetsu Red         .mint s/h         £495           Audio Note I/O         .as new         £995			
EAD T7000 Mk II tran/dac         mint s/h         £3000           Mark Levinson No 30/31         mint s/h         £15,500           Micromega CD3 + duo bs         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £5995           Roksan ROK DPI         mint s/h         £695           Roksan Attessa         mint s/h         £795           Micromega Solo         mint s/h         £895           Wadia X64 dac         mint s/h         £2495           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new         £2750           Voyd Valdi/LVII         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Van den Hul MCi         mint s/h         £550           LFD phono stage         mint s/h         £595           Koetsu Red         mint s/h         £495           Audio Note I/O         as new         £995			
Mark Levinson No 30/31         mint s/h         £15,500           Micromega CD3 + duo bs.         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £5995           Roksan ROK DPI         mint s/h         £695           Roksan Attessa         mint s/h         £795           Micromega Solo         mint s/h         £895           Wadia X64 dac         mint s/h         £2495           Meridian 500 tran         as new         £2750           Voyd Valdi/LVI         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Van den Hul MCi         mint s/h         £550           Ortofon MC3000/T3000         as new         £795           LFD phono stage         mint s/h         £595           Koetsu Red         mint s/h         £495           Audio Note I/O         as new         £995			
Micromega CD3 + duo bs.         mint s/h         £995           Krell MDI, SPB64 tran/dac         mint s/h         £5995           Roksan ROK DPI         mint s/h         £695           Roksan Attessa         mint s/h         £795           Micromega Solo         mint s/h         £895           Wadia X64 dac         mint s/h         £2495           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new         £2750           Voyd Valdi/LMI         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Ortofon MC3000/T3000         as new         £795           LFD phono stage         mint s/h         £595           Koetsu Red         mint s/h         £495           Audio Note I/O         as new         £995			
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Roksan Attessa         mint s/h         £795           Micromega Solo         mint s/h         £895           Wadia X64 dac         mint s/h         £2495           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new         £2750           Voyd Valdi/LVII         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Van den Hul MCi         mint s/h         £550           Ortofon MC3000/T3000         as new         £795           LFD phono stage         mint s/h         £595           Koetsu Red         mint s/h         £495           Audio Note I/O         as new         £995	Krell MDI, SPB64 tran/dac	mint s/h	£5995
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Wadia X64 dac         mint s/h         £2495           Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new         £2750           Voyd Valdi/LVI         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Van den Hul MCi         mint s/h         £550           Ortofon MC3000/T3000         as new         £795           LFD phono stage         mint s/h         £595           Koetsu Red         mint s/h         £495           Audio Note I/O         as new         £995	Roksan Attessa	mint s/h	£795
Meridian 500 tran         as new         £695           Roksan TMS/Artemis/DS4         as new         £2750           Voyd Valdi/LMI         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Van den Hul MCi         mint s/h         £550           Ortofon MC3000/T3000         as new         £795           LFD phono stage         mint s/h         £595           Koetsu Red         mint s/h         £495           Audio Note I/O         as new         £995	Micromega Solo,	mint s/h	£895
Roksan TMS/Artemis/DS4         as new         £2750           Voyd Valdi/LVII         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Van den Hul MCi         mint s/h         £550           Ortofon MC3000/T3000         as new         £795           LFD phono stage         mint s/h         £595           Koetsu Red         mint s/h         £495           Audio Note I/O         as new         £995	Wadia X64 dac	mint s/h	£2495
Voyd Valdi/LVII         mint s/h         £550           Rega RB 300         as new         £80           Koetsu Black (new cant + tip)         mint s/h         £350           Van den Hul MCi         mint s/h         £550           Ortofon MC3000/T3000         as new         £795           LFD phono stage         mint s/h         £595           Koetsu Red         mint s/h         £495           Audio Note I/O         as new         £995	Meridian 500 tran	as new	£695
Rega RB 300       as new       £80         Koetsu Black (new cant + tip)       mint s/h       £350         Van den Hul MCi       mint s/h       £550         Ortofon MC3000/T3000       as new       £795         LFD phono stage       mint s/h       £595         Koetsu Red       mint s/h       £495         Audio Note I/O       as new       £995	Roksan TMS/Artemis/DS4	as new	£2750
Rega RB 300       as new       £80         Koetsu Black (new cant + tip)       mint s/h       £350         Van den Hul MCi       mint s/h       £550         Ortofon MC3000/T3000       as new       £795         LFD phono stage       mint s/h       £595         Koetsu Red       mint s/h       £495         Audio Note I/O       as new       £995			
Koetsu Black (new cant + tip)       mint s/h       £350         Van den Hul MCi       mint s/h       £550         Ortofon MC3000/T3000       as new       £795         LFD phono stage       mint s/h       £595         Koetsu Red       mint s/h       £495         Audio Note I/O       as new       £995			
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# The original and best review based hi-fi guide

This is the legendary Directory, the second part of the new look Hi-Fi Choice Buyer's Guide, based entirely on comprehensive technical and subjective reviews. Each entry carries the weight of our exhaustive test procedures and should be read in conjunction with the prices and specifications given in our index starting on page 87.

he Hi-Fi Choice Directory was conceived as a reference guide to all the audio products reviewed by Choice that are currently available. The products are split into categories, each with its own introduction containing information about the product type and its applications. They are particularly relevant to the uninitiated first time buyer and help sort out the order of priorities when buying a piece of equipment.

Each product along with its current retail price is placed in its respective category in alphabetical order. The prices of the products are updated on a

regular basis, although it should be noted that our value ratings are based on the product's price at the time of review.

#### Sound quality

This column contains the ratings for the standard achieved in our listening tests. The sound quality ratings range from Poor to Excellent. Their meaning and order are as follows:

P	Poor
A-	AVERAGE-
A	AVERAGE
A+	AVERAGE+
G-	GOOD-
G	GOOD
G+	Good+
VG	VERY GOOD
E	EXCELLENT

With P being the worst and E the best rating within a section.

One important point to remember is that these cannot be used to compare products from different categories. For example, a cassette deck rated Excellent in sound quality will not usually offer the same

## Finding that component

Before you shop, follow our top eight tips for better buying:

- Check out the components' recommended retail prices in the *Directory*.
   Find out as much as you can about the products you want by reading *Hi-Fi Choice*'s reviews and lab tests.
- 3. Visit local dealers that stock some of the brands you want to hear and try to find one that seems sympathetic to your needs.
- 4. Don't discount a dealer's suggestions just because the products don't have
- 5. Take your own software (records, CDs, tapes) along for a demonstration of the equipment that the dealer recommends.
- **6.** Listen at the sort of volume you would normally use at home systems often sound more impressive when played loud.
- 7. If you are unsure about something or want to hear an alternative, just ask.
- **8.** Audition a system for a reasonable amount of time, say three quarters of an hour or so, before making a decision.

standard of fidelity as a similarly rated turntable or CD player. Unless you have first generation masters of course.

#### Comments

The Comments column contains a potted summary based on the original review, emphasising the salient points of a product's character and sonic performance. The space available doesn't allow for great detail but we have attempted to put across the essence of the review. Obviously, important information on compatibility or auxiliary equipment used in the test cannot be included, and we would advise you to refer to the original review for this.

Please note that these comments are those of our own reviewers and not, as is the case with some magazines, those of the manufacturer.

#### Features

Product features are shown with a combination of figures and blob charts, with headings at the top of each column indicating the appropriate category, a blob indicating the existence of a particular feature.

There are different headings for each section and the more complicated categories are explained in the individual introductions. Where figures are used the unit of measurement is shown in the heading.

#### **Back issues**

The final column refers to the issue of *Hi-Fi Choice* which featured the complete review.

## How to use this guide

Perhaps the most influential symbols in the *Directory* are the little red triangles  $\triangle$  found in the value column at the beginning of each entry where appropriate.

Products that make the grade are awarded the Best Buy or Recommended ccolade.

A product carrying the Best Buy swingtag is of excellent quality and good value for money in its price category.

A Recommended products are runners up, but still definitely worth considering within their price bands.

Please note however, that an expensive Recommended product will nearly always sound better than an inexpensive Best Buy.

An ideal situation would be to choose suitably priced A Best Buy or Recommended products from relevant categories and create a Best Buy system. However, due to the variety in tonal balance that exists in many audio products, and differences in taste, system building is unfortunately not that simple. These ratings make a useful guideline for shortlisting components, but only experiencing the actual combination will tell you whether it works for you.

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# The new Audiolab 8000CDM Compact Disc Transport



#### The Audiolab product range:

8000A Integrated Amplifier
8000C Pre-amplifier
8000PPA Phono Pre-amplifier
8000P Stereo Power Amplifier
8000T FM/AM Tuner
8000M Monobloc Power Amplifier
8000DAC Digital-analogue Convertor
8000CDM Compact Disc Transport







# **Amplifiers**

he amplifier sits at the heart of the system, processing the outputs from all the various music sources as necessary and then driving the loudspeakers. These two (quite separate) functions are integrated into a single box at the lowto-middle price points; separated pre- and power amplifiers, even separate power supplies, become increasingly common as one moves upmarket. At the upper end of the specialist market, valve amplifiers provide a popular alternative to the transistor types amongst enthusiasts.

There is a substantial difference between specialist (sound quality oriented) amplifiers and the consumer electronics style models. The former are bleakly simple, avoiding all unnecessary features to provide the most direct signal path in the interests of best sound quality. The latter range from models with just basic tone controls and tape recorder switching, to those with elaborate facilities such as graphic equalisers, remote control (including volume), surround sound options etc.

We include our measured power output (RMS, 80hm load, 1 channel driven) – but again, paradoxically, this doesn't necessarily correspond to the loudness capability of the amplifier, which has as much to do with the elegance of the overload characteristics within a given system

(valve amplifiers invariably sound more powerful than their rating would suggest).

Apart from output the facilities listing shows how many line (that is inputs besides those for phono cartridges) inputs a product has and includes tape inputs. The MM and MC blobs indicate which types of cartridge can be accomodated. Integrated, preamp and power amp indicate the type of amplifier reviewed, and in some instances that a pre/power combination has been tested. In such instances the price given is for both components. The remote control and headphone socket blobs indicate the existence of these facilities.

# **Amnlifiers**

<i><b>Amplifie</b></i>	ers		Comments	line inol	15 1	In A	graten	Ref	rote co	one sol	ISSUE CKET	61
Product	£Price		Comments	V	V	V	V			AV	V	
Adcom GFP-555II/GFA-535II	850	A+	Technically proficient pre/power saddled with a slightly hard and unsympathetic sound.	94	6	•					•	1
Albarry AP4/S508	850	A-	A disappointing sound from a pre/power amp that's hamstrung by a variety of technical oversights. Albarry has done better.	46	4							
Albarry PP1	430	G+	Available with or without various MM/MC options, the 'basic' PP1 has an attractively warm, earthy sound.	48	4			•				
Alchemist Kraken	310	A	Class-A objet d'art that's far too sensitive to RF interference. Can sound cold and fierce as a result.	54	5			•				
Alchemist Kraken APD7/APD8	775	G	A quirky Class A number with an equally warm and colourful sound. Hardly accurate but entertaining nonetheless.	49	4	•						
AMC CVT3030	529	A	A well meaning and affordable attempt to mix transistors with valves, albeit one that only really shines with simple musical styles.	35	5							
Arcam Alpha 6	300	VG	A new MOSFET design with a subtle and melodic sound that takes a conservative view of powerful dynamics	68	6			•			•	
Arcam Delta 110S/120.2	1070	VG	Now in mkll guise this established combination has matured into a very articulate, powerful if dry-sounding amplifier.	109	4						•	
Arcam Delta 290	450	VG	Combines the dryness and restraint of Arcam's older models with a refreshing sense of detail, dynamics and musical colour.	99	5						•	
Art Audio Quintet	1156	VG		15/25								
Audio Innovations Series 200	850	G	Turns in a fuller and more substantial performance via MM rather than CD. Otherwise its sound can seem slightly bleached.	10	5							
Audio Innovations Series 300II	500	G+	Under-powered and over-distorted yet capable of realising an open and captivatingly expressive sound. Sensitive speakers are a must	9	4							
Audio Innovations Classic 25	699		Warm, cuddly and immensely musical kit amp that almost transcends 'hi-fi' with its sheer listenability	24	5							
Audio Innovations Series 700	999		Valve amp that can turn the roughest of digital sounds into music, both understated and graceful. Sensitive speakers are a must	24	5							
Audio Note Oto SE	1500		Transparent, very dynamic, excellent clarity and subtlety with limited power make for a very clean sounding amp	9.5	3							
Audio Note Ongaku	43125		A single ended, zero negative feedback, triode, line level integrated amp and a half. Probably the best amplifier in the world!	27	6							
Audiogram MB1	500		It'll successfully tackle the most difficult of speakers and still provide a very warm, rich and euphonic sound.	46	Ü							
Audiolab 8000A	450		Recent updates have maintained its competitiveness with a thoroughly refined, consistent and very disciplined sound.	80	5		. 1					
Audiolab 8000C/8000P	1100		Very distinctive, almost stark neutrality that will not appeal to all listeners. Good value engineering, nevertheless	157	7							
Aura VA-100 Evolution		G+	Might overheat when driving insensitive, low-impedance speakers but was applauded for its sense of scale and drama via CD	81	5		- 8				-	
Aura VA-100 Evolution				65	5		- 8					
Beard Audio CA35/P35mkll		VG	Superficially similar to the cheaper VA-40 but with much more of the old MA-80's magic! Great sound from a slimiline package		4							
Beard CA506		VG	Good build quality and finish and a characteristic valve sound make a first class amplifier capable of great musical enjoyment	35								
	1695		A versatile valve preamp, the bass sounded lively if a touch softened, while the treble was detailed but lacked a little sparkle		4		•		•			
Conrad-Johnson PV-10A	1250		Fabulous preamplifier. Beautiful imaging, superb detail, plenty of gain on the phono stage; classy build quality too.		4				•			
Conrad-Johnson Premier 7	11000		The 'Seven is designed without compromise, and is clearly one of the finest (valve) preamplifiers money can buy.		4	•	•		•			
Denon PMA-250III	160		Pretty high resolution for the price, occasionally looses its grip but is generally engaging.and enjoyable	55	3						•	
Denon PMA-450	250		Denon's latest integrated amp swept the board with its big, brassy if somewhat extravagant sound.	99	5	•	- 8				•	
DPA Digital DSP-200S/DPA-20	OS 1245	E	The very dramatic but exceptionally detailed and transparent sound of this combination belies its modest power rating.	48	5				• •			
EAR 802/509mkll	4200	VG	Extremely well made and combining the sonic strengths of both transistors and valves this EAR combo warrants attention	100	6	•			• •			
EMF Audio Sequel	349	G+	A fresh start for Mike Creek has resulted in the Sequel, a minimalist amp with a very refined but mildly restrained sound	47	4	•		•			•	
Exposure XX	625	A	Line only integrated with good sense of timing but limited hf extension. Likely to be very system dependent.	43	4							
Harman Kardon HK1400	400	G+	HK's first line-only amplifier exudes a relaxed but confident sound that is only troubled by the most dense of recordings.	52	7							
Harman Kardon HK6250	280	G+	Heavily based on the cheaper HK6150, this version offers slightly more power with a similarly gutsy and expressive sound	51	5	•					•	
Harman Kardon HK6550	430	A-	Follow up to 6500 is disappointing with grainy hf and limited depth. Quite powerful but ultimately not up to the mark	69	6	•	•				•	
Harman Kardon HK6850	900	G	This monster is derived from the HK6800 with a similarly deep and powerful sound but a rather steep price tag	101	6	•	•	•			•	
Heybrook Signature	2297	G+	A stunningly powerful and vivid-sounding combination which is equally impressive via vinyl or CD	148	4	•	•					
Jadis JP30/JA30	12204	E	French tubes. Beautiful build, nostalgic styling and delightful sounding midrange transcend limitations at frequency extremes	30	4	•						
JVC AX-A342	170	A	A value-conscious budget amp offering plenty of power but a slightly untidy and inconsistent sound	77	5	•					•	
JVC AX-R562	250	A-	More fuss and bluster than detail and dynamics was how one listener concisely described this less than wonderful model	90	5	•		•		•	•	
JVC AX-Z1010	650	G+	One of the best behemoths: a big amp with a big, boppy and unmuddled sound and a couple of ancient 16-bit DACs for good measure!	124	6	•	•				•	
Kenwood KA-3020	170	G+	An unassuming little amplifier that turns in a remarkably balanced and entertaining sound. Lively, detailed and engaging	66	5	•						
Kenwood KA-4050R	280	A-	Respectable but ultimately uninspiring model whose remote control is its main asset.	85	5	•	•			•	•	
Kenwood KA-5050R	350	A	A listenable but neither particularly communicative or captivating amplifier that puts features ahead of sound.	103	6					•	•	
Lecson Quattra	420	G	Underpowered but with the flexibility of four independent power amps, Very deep, captivating sound with 3D soundstaging.	40	5							
Linn Majik-I	593	A	The cornerstone of Linn's modular hi-fi system has many innovations to its credit but its sound is vague and confused.	33	6					•	•	
Magnum Class A	599	G+	Lashings of rich and compelling music, trading a hint of lushness for stark accuracy. An unexpected find. Phono stage option	55	7							
Magnum Quartet	329	A-	An integrated model that incorporates four monobloks optimised for bi-wiring, but sound is sandy in the treble.	72	5							

# Amnlifiers continued

Product	£Price	Comments	NAQ M	Puts N	n h	Srate C	ed and	0	ontro,	OCKE	No.
Marantz PM-52SE		The SE premium pays for a degree of fluency that draws you into the music and keeps you there. Rather nice	95	6				X.			121
Marantz PM-80mkll	480 <b>G</b> -	Less the revision and more an entirely new amp, this model sounds at its sweetest and most agreeable in the 31W Class A setting.	130	5							12
Moth Series 30	587 <b>G+</b>	A modular system capable of cracking results. The passive preamp and power amp combination warrant a Best Buy in their own right.	35	4							10
Musical Fidelity Preamp/Typho		A combination that plays everything close to its chest but bridge the power amp and you'll witness an explosion of detail.	62	6							11
NAD 302	170 <b>G+</b>	A spritely and uplifting performance. Sounds loud but never intrusive or fatiguing.	39	5							11
NAD 304	230 <b>G+</b>	Equally effective with CD and vinyl this is another successful and entertaining NAD amplifier for your shortlist	50	6							12
NAD 1000S/208	1120 A+	One of the beefiest amplifiers we've ever tested. Unfortunately it sounds too restrained and lightweight.	314	5							12
Nakamichi IA-3	350 <b>G</b>	A minimalist outing for the cassette heroes that's very confident if a tad restrained.	62	3							12
NVA AP-20	340 <b>G+</b>	Utilitarian amplifier sounds gentle and restrained but is euphonic and utterly engaging. Optional phono stage	35	4							10
Onix OA-21S/SOAP	730 <b>G-</b>	Via MM disc this amp comes alive with a fresh and vibrant sound though its CD input sounds utterly dead by comparison.	60	4							9
Philips FA-930	200 A+	Radical styling hides a digital switching facility plus full remote control over what is Philips' best effort to date	99	5						-	10
Pioneer A-300X	230 A+	This revamped version of the A-300 was also more confident sounding via CD than MM, yet our panel were still left unmoved.	55	5					-		11
Pioneer A-300X Pioneer A-400	280 <b>VG</b>	Pioneer's design concept snaps into focus with an amp that seems to bubble with musical detail. A budget bench-mark	71	5							g
Pioneer A-400X	300 <b>VG</b>	This looks like the established A-400 but uses new circuitry to encourage a gentler if no less enthralling sound.	68	5			-				12
QED A270CD/PA	370 <b>G</b> +	Recent updates have bolstered the output of the A270 without adding to its colorations. The PA phono option is a touch expensive	61	5							9
QED C300/P300	630 <b>G</b>	A cost-effective combo, limited in its resolution but less beguilling as a result. Disc stage is sweeter but samey	58	3							8
Quad 34	398 A	Well-built durable preamp, filtering and above average tone controls but was found lacking in sound quality (viz: detail/dynamics)	30	4					-		4
Quad 66/606	1553 <b>G</b>	Amplifiers with a classic lineage but compromised by an equally dated, soft and undynamic sound.	138	6		-					12
Rational Audio	175 <b>A+</b>		129	3				Ť		-10	9
Rega Elex	359 A	Wacky Czechoslovakian amp offers a very open and fluid sound via CD but its MM performance depends on cartridge load impedance.  Minimalist amplifier that sounds too forward, hard and unforgiving for its own good. Shows plenty of promise, however.	51	4							11
Rose RV-23	450 <b>G+</b>		31	3							7
Rotel RA-930AX		Beautifully built British 'hybrid'. You can spend more to get a more transparent sound but it's hard to criticise at the price	53	3				•			10
Rotel RA-930AX Rotel RA-935BX	175 <b>G+</b>	This budget wonder captivated our listeners with its clean, vibrant and thoroughly involving sound	58	5			-				
		A line only winner that lets a lot of music through and never lets things get out of hand. Could be a touch more enthusiastic		5	-					-60	12 10
Rotel RC-980BX/RB-980BX Sansui AUX-417R	800 A	Plenty of watts per pound, sound is expansive but lacks a sense of poise, of control and fine detail - a disappointment	143	5	-			•			12
	280 <b>G+</b>	Unusually clean and precise with more subtlety than is usually attributed to remote control amps.  At the best when used with the on beard MASU/DIMADAC where it councils technically counted but attill ameticately charged.	112	7					•	-	8
Sansui AU-X911DG	900 <b>G+</b>	At its best when used with the on-board MASH/PWM DAC where it sounds technically neutral but still emotionally charged	47	4	-	٠	-				
Sherwood Al-2210	80 P	Lightweight in all respects this is better than you'd find on a midi and at least its reasonably painless.	54				-				12
Sonic Frontiers SFC-1	1500 <b>G+</b>	Smooth, sophisticated Canadian valve amp with a decent direct input and more features than average  The modern day solution of Sunday's crisinal Class A arms and asset that offers a consettly easy solids county.		6							12
Sugden A21a	469 <b>G</b>	The modern-day relative of Sugden's original Class A amp and one that offers a smooth, easy-going sound.	25	4						_	
Technics SU-VZ220	130 <b>A</b> -	Cheap, cheerful and pretty flexible to boot the SU-VZ220 quickly sounds thin, splashy and relentless when the going gets tough	50	4	-						10
Woodside ISA230	900 A	Smooth and inoffensive valve amplifier if one that lacks the sparkle and euphony required for a truly entertaining sound.	27	5	•		-				11
Woodside SC26/STA35	3254 <b>G+</b>	Synergistic pairing with a cool, controlled sound, good focus and transparency. More about poise than grunt	35	5				•	-	-84	10
YBA Integre	1199 <b>G+</b>	Audiophile spec French integrated with good resolution and nice phono stage.	57	4	•		-			-	12
YBA 1 pre/power amp	8000 <b>E</b>	Well finished pre/power amp offers front rank stereo staging and transparency, and is capable of driving the most difficult loads	85	5	•	•		•	-		6
YBA 2 pre/power amp	3849 <b>G+</b>	Superbly finished with very good space and transparency, slightly softened bass. Needs transformer for MC cartridges	70	5	•	•		•	-		5
YBA 3 pre/power amp	2449 <b>G</b>	This duo produced see-through, ethereal stereo images that were more convincing towards the centre of the soundstage	56	4	•			•	•		1



# **AV amplifiers**

n practice an A/V amplifier provides all the standard CD, tuner, tape, aux and phono inputs offered by a standard stereo amplifier. In addition many also incorporate an AM/FM tuner section which, strictly speaking, makes them A/V receivers.

More importantly a modern A/V amplifier includes a Dolby Pro Logic decoding chip along with extra circuitry to effect the rear channel delay. Naturally there's at least four channel's worth of amplification under the bonnet to feed the five loudspeaker outputs (Front L and R, Centre and Rear mono L+R).

Most also include a line-level subwoofer output to enhance the rib-shaking impact of 'action' movies for example.

Some A/V amps offer other surround modes like simulated stereo, Hall surround (L+R is fed to the rear) and Matrix surround (L-R is fed to the rear). Others use an element of Digital Signal Processing (DSP) to steer the Dolby Pro-Logic or permit a variable rear channel delay. Some also include DSP options like Jazz, Church, Hall and Stadium Surround modes which use different delay and steering levels to generate different `sound fields'.

From left to right the headings below indicate how many watts per channel each amp has for its front, centre and surround outputs.

Surround modes indicates how many different surround effects are available and includes DSP. The audio inputs are for both hi-fi and AV components. S-type and phono video inputs are for VCRs, Laserdisc players and CTVs, S-type being the better of the two

Subwoofer outputs are of the phono socket variety for active subs, and AM/FM tuner denotes if the unit is effectively a receiver.

# AV amplifiers

			S.								
AV amp	lifie	rs	Front output William of Output William	Suroun Valor V80	Video Audio	ideo input	Subus phon	S. NO	MENTOUR	ISSUE A	<b>%</b> _
Product	£Price	Comments		V	V	•					V
Denon AVC-3530	999 <b>VG</b>	A true heavyweight with a richly detailed sound and flexible features to match	142	141	46	10	9	5 5	•	• 1	25
Harman Kardon AVR30	999 <b>G+</b>	Limited surround options are offset by a very secure sound with excellent control over effects.	74	75	30	7	10	6 0		• 1	25
Kenwood KA-V8500	699 <b>G</b> -	Can sound a tad forced and immediate but is remarkably well-equipped with digital soundfield options.	62	63	37	10	11	6 5	•	1	125
Marantz PM-700AV	450 A+	Sounds just great through front and centre channels but surround is very weak.	69	52	51	3	7	6 3		1	125
Philips FR940	450 <b>A-</b>	Perhaps as a result of the mismatch between front/centre channels, the FR940 proved a great disappointment on dem.	180	24	24	6	8	4 0		• 1	25
Pioneer VSA-D802S	600 <b>A</b> -	The disappointingly grey sound lacks attack and confidence, undermining the tension of movie soundtracks.	53	55	32	9	9	5 3	•	1	125
Technics SA-GX550	450 <b>VG</b>	A surprisingly gutsy and involving performance from a modestly-priced package.	48	48	49	2	5	2 0		• 1	25
Yamaha DSP-A2070	1100 <b>G+</b>	The ultimate in AV flexibility with full manual control over ever conceivable soundfield.	101	99	35	24	10	6 6		1	125



# Cables

ables are not accessories but an integral part of your system. You can make do without accessories but no conventional system will function without cables. Inevitably some cables are greater than others. The best cable for your system will only be found through trial and error, but hopefully by combining our recommendations with those of a dealer you will end up with something that suits both your pocket and your system. Generally speaking budget to spend about ten per cent of the total system cost on cables.

Analogue interconnects are the leads that

connect source components to amplifiers and pre to power amps. The cables in this section are priced for a one metre terminated pair. Symmetrical indicates where a twisted pair of conductors are

Coaxial means that there is a central 'hot' conductor and a shield that carries the negative signal. Stranded cables have multiple strands and solid core use individually insulated strand(s). Copper and silver indicates whether these metals are used as conductors.

Digital interconnects connect CD transports to

DACs, and are traditionally coaxial with a 750hm impedance. They come in optical and electrical varieties, the former being made of plastic or glass and the latter in coaxial or alternative configurations. The prices shown are for a terminated linear metre

Speaker cables are used between the amplifier and speaker. Our prices are for a terminated 5metre pair. Resistance and capacitance are indicated as low (L), medium (M) or high (H). Neither high resistance nor high capacitance cables are suitable for long runs.

# Analogue interconnects

Analogu	e in	terconnects	nnetrical Co	Stranded Stranded	Olid Core	Opper Sil	Issue No.
Product	£Price	Comments	V	V	V	V	VV
Audio Note AN-A	29.50 <b>A-</b>	A well-rounded and cuddly sound from a high-ish resistance interconnect. Lacks a sense of scale and dynamics	•			•	108
Audioquest Ruby Hyperlitz	70 <b>A+</b>	A crisp, fast and articulate-sounding cable if one that's a little too pointed for our listeners	•		•	•	108
Audioquest Lapis Hyperlitz	329 <b>E</b>	An expensive cable that justifies its tag with a beautifully poised sound - natural, relaxed and very compatible.	•				• 108
Audio Technica AT620	28 <b>A</b>	Plenty of cable for the money but its performance is distinctly lightweight, lacking depth and subtlety				•	108
Chord Chameleon	59 <b>A</b> +	An unpredictable cable with an 'anomalous treble' that can sound harsh one moment and oddly recessed the next!				•	108
▲ Chord Solid	115 <b>VG</b>	What looks like a military RF cable actually provides a slightly forward but incisive and intimately detailed performance		•	•	•	• 108
Cogan-Hall Intermezzo Ref	185 <b>E</b>	A user-hostile cable with a tight, convincing bass allied to a very relaxed and involving mid/treble.	•			•	108
Cogan Hall Intermezzo E-M	320 <b>G+</b>	This bigger, thicker and thoroughly unwieldy 3-core version of the Intermezzo Reference actually sounds a little coarser	•		•	•	108
▲ DNM Interconnect	40 <b>VG</b>	Fresh, transparent and packed full of detail, this slither of a cable scored a direct hit with our listeners	•		•	•	108
Goldring 'Studio Quality'	20 <b>A-</b>	A bog-standard OFC coaxial cable that might otherwise be given away with a new amp or CD player. Cheap but nothing special.				•	108
▲ Isoda Electric HA-08-PSR	199 <b>G+</b>	This odd-ball cables utilises a mix of copper, brass and aluminium strands to achieve a very distinct sound	•			•	108
▲ Madrigal HPC	215 <b>VG</b>	A very unusual cable design with a business-like approach to music-making that barely conceals its underlying 'fizz'.	•			•	108
Magnan Type Vi	595 A+	With a series resistance some 500-1000 times higher than average, the furry sound of the Type Vi will alter from system to system	n.			•	108
Monster Interlink 500	60 <b>G+</b>	Plenty of hype to keep the marketing bandwagon rolling plus a lively and lucid balance to cheer up the enthusiast	•			•	108
Moth Ley Line Black	100 <b>G+</b>	The cheapest of Moth's Ley Line series uses just two twisted conductors to achieve a very solid and confident sound.	•		•	•	• 108
Moth Ley Line Grey	200 <b>G+</b>	The four twisted conductors of this cable actually mark a downturn in audio quality	•		•	•	• 108
A Panasonic RP-CA910	50 <b>G</b>	This conventional coax employs plenty of hi-tech materials which encourage an even-handed balance. A good upgrade.				•	108
▲ Silver Sounds 12/2 and 12/3	99/150 <b>VG</b>	Both these cables share a similarly open, transparent and dynamic sound though the latter is arguably the better integrated	•			•	• 108
Sonic Link Yellow	60 <b>A</b>	An interesting non-copper cable with an up-front sounded described as 'heavy-handed and pushy'.			•		108
▲ Sonic Link Violet	99 <b>G+</b>	Another nickel-based cable but with a very much better-balanced sound than Sonic Link Yellow	•	•			108
Straight Wire Laser Link	50 <b>A</b> +	Thanks to its high parallel capacitance this interconnect helps remove ultrasonic noise. Unfortunately it still sounds very odd!	•			•	108
Straight Wire LSI-Encore	90 <b>A</b> +	A solid-sounding cable with a strong mid and bass but a disappointingly sat-upon treble	•			•	108
▲ Tara Labs Prism	36 <b>G</b>	6N-purity copper, aero-grade insulation and spaced solid-core conductors all add-up to a slightly bright but frisky sound	•		•	•	108
▲ Tara Labs Quantum CD	63 <b>G+</b>	Praised by our panel for its lack of obvious vices, Quantum CD encourages a sweet and positive sound.	•		•	•	108
Tara Labs Quantum II	99 <b>G</b>	Bass power and extension is the key to the sound of this unusual and hi-tech cable	•		•	•	108
▲ van den Hul The Source	70 <b>G+</b>	Accurately reflects the life of the music without detail forcibly from the speakers				•	• 108
van den Hul MC D-102mklll S	80 A+	A rather coloured sound thanks to its full and resonant bass but spoiled overall by a dirty treble	•			•	• 108



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#### THE DIRECTORY

# Digital interconnects

Product	<b>£Price</b>	Comments			A A		VV
Audioquest Video Z	50 <b>E</b>	The very best available with an expressive sound but generous price to sweeten the pill	Electrical		•		• 108
Audioquest Digital PRO	90 A+	A silver cable with all the drive of Video Z but lacking its clean-cut transparency	Electrical		•		• 108
Audioquest Optilink Z	100 A	Good level of midband detail but frequency extremes lack depth and extension	Optical		•		108
Bandridge AL560	20 <b>P</b>	The disappointingly heavy and muddled sound of this basic fibre thwarts any recommendation	Optical	•			108
Chord Codac	34 <b>A</b>	A connection with a stranded inner core and a sound that lacks integration	Electrical		•		• 108
▲ DPA Digi-link	27.50 <b>VG</b>	Can seem slightly impassive but there's no avoiding its exceptionally detailed sound	Electrical		•		• 108
DPA Opti-link	20 <b>P</b>	Very similar to Bandridge AL560 with an equally naff sound	Optical	•			108
Kimber PSB Digilink	24 <b>A-</b>	An analogue interconnect inappropriately pressed into digital service. A visible deterioration in the digital signal results.	Electrical			•	108
Kimber KC-1 Digilink	52 <b>A</b>	This cable adopts a woven construction with the addition of a conductive screen. Music lacks detail and spirit.	Electrical			•	108
Kimber KC-AG Digilink	222 <b>A-</b>	An asymmetric cable using silver conductors that deviates from the 75ohm standard. Not ideal for digital applications.	Electrical			•	108
Kimber Opti-Link	70 <b>G</b>	Hardly cheap for what appears to be a bog-standard PMMA fibre, yet it sounds a little brighter and livelier than most.	Optical	•			108
Monster Cable Datalink 100	45 <b>G+</b>	A colourful coaxial interconnect with an equally colourful and up-beat sound. Very compatible.	Electrical				• 108
Monster Cable Interlink LS100	45 <b>G</b>	Well constructed stepped-index fibre with polished ends and rugged connectors. Slightly lean, fuzzy but engaging performance	Optical	•			108
Moth Leyline Datalink	140 <b>A-</b>	A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive.	Electrical		•		• 108
▲ QED Digiflex	19 <b>VG</b>	A top performance, low-loss 75ohm coax with a very open, almost liquid quality that allows its music to ease naturally across.	Electrical				• 108
Sonic Link Brown Digital	35 <b>A-</b>	A solid-core, twisted-pair interconnect that deviates from the 75ohm standard and provides an equally unbalanced sound	Electrical			•	108
Straight Wire Silver link	60 <b>G+</b>	A genuine attempt to get things right with a silver-plated, multi-strand coax. Yet it still sounds too dry and mechanical	Electrical				• 108
van den Hul MC Videolink 75	30 <b>VG</b>	An AV-cum-digital cable that comes very close to besting QED's Digiflex. Still some emphasis of vocal sibilants, however	Electrical				• 108

Speaker	cat	oles	Resistance	tance Strain	Solia Deco	COTE COX	Der Si	Issue No.
Product	<b>£Price</b>	Comments			Y	V	No.	VV
Audio Note AN-B	165 <b>G+</b>	A very high capacitance Litz-style cable whose sound may well act as a taming influence in many systems	M	Н		•	•	109
Audio Note AN-D	100 <b>A</b>	Supplied in linear, non-polarised lengths that should be twisted into stereo pairs. Sounds rather gritty and forward	L	L	•		•	109
Audio Note AN-SP	1270 <b>VG</b>	Some 15 individually-insulated silver strands go to make up this very civilised but exceptionally detailed-sounding cable	Н	L		•		• 109
Audioquest F-14	44.50 <b>A</b> +	Ideal for laying flat under carpets, F-14 encourages a slightly warm and vibrant sound	M	L		•	•	109
Audioquest Type 4	75 <b>A+</b>	Four 18-gauge OFHC copper conductors wound in a Litz-fashion increases capacitance but restrain the cable's 'bite'	M	Н		•	•	109
Audioquest Midnight Hyperlitz	260 <b>G</b>	Very similar to Type 4 but with a delicate smoothness that contrasts with the brighter sound of cheap cables	L	Н		•	•	109
Bandridge LC7259 & LC7401	20/30 <b>A</b>	Two very traditional figure-of-eight cables. The thinner version (LC7259) sounds lighter and coarser than LC7401	L	L	•		•	109
Bandridge LC8258 & LC8408	30/50 <b>A-</b>	Two versions of the Silverflex series that, sadly, encourage very little sense of poise or decorum in their music	L	L	•		•	• 109
Cogan-Hall Intermezzo Full-Rang	e 465 <b>VG</b>	Extra care must be taken to prevent shorting this user-hostile cable. Nevertheless it sounds superb!	L	L		•		109
DPA IS19	275 <b>G+</b>	Shares the clear, neutral and transparent sound of the older 8S without the tremendous clarity of Gortex Black-16	L	L		•	•	• 109
DNM Rainbow	84 <b>A+</b>	The high impedance of this simple ribbon cable has an influence on the treble response of some speakers. Lacks 'comph'	Н	L		•		109
Heybrook Heywire	66 <b>A</b>	This well-meaning facsimile of earlier ribbon-style cables ends up sounding lumpy and uneven	Н	L		•	•	109
Isoda Electric HA-20	400 <b>A+</b>	This unorthodox cable employs a combination of copper, brass and aluminium strands. It sounds 'oddly impure'!	M	Ł	•		•	109
Mission Stranded	20 <b>G+</b>	This Swedish-made cable proved a real hit with our listeners - a slick performer and Best Buy upgrade	L	M	•			109
Monitor PC KC27/KC34	40/60 <b>A</b>	Two heavyweight multi-strand cables with a thick and chesty (10027) or light and wispy (10034) balance. Take your pick	L	L			•	• 109
Monster Powerline 3 Plus	75 <b>A-</b>	The archetypal 'old-style Monster Cable' that labours under a soggy bass and untidy treble	L	M			•	109
Naim NAC A5	44 <b>A-</b>	Described as a 'dinosaur of a cable' by our listening panel, this stiff rod of wire has little application outside of a Naim system	L	L	•		•	109
QED Bi-wire 79-Strand	35 <b>A</b>	Reminiscent of curtain track, this bi-wire version of 79-strand is unfortunately saddled with a 'loud, hard and untidy' balance	L	L	•		•	109
Silver Sounds 12/2	300 <b>E</b>	Tonally accurate and exquisitely detailed, this cable opens a very transparent window on the music	L	Н		•		• 109
Silver Sounds 16/4	200 <b>VG</b>	A prime choice for bi-wire systems even if this cable does lack the full finesse of its sister 12/2	M	Н		•	•	• 109
Sonic Link Grey	80 <b>G</b> -	A spaghetti-thin cable composed of silver-plated OF-copper and PTFE insulation. Lacks bass impact and treble 'air'.	Н	M		•	•	• 109
Straight Wire Waveguide 1.5	20 <b>G</b>	A conventional multi-stranded cable with a refreshingly up-beat, crisp but slightly lean-sounding balance	M	M	•			109
Straight Wire Flex-4	50 <b>G+</b>	Another very quick and dynamic-sounding cable from Straight Wire. A little short on subtlety but very engaging nonetheless.	L	Н			•	109
Tara Labs Quantum III	238 <b>G</b>	An imaginatively-named cable that encourages an equally colourful sound. Described as 'dark and fruity' by our panell	L	Н		•	•	109
van den Hul MC The Clearwater	50 <b>A</b>	Despite its evocative title, the Clearwater turns out to be a disappointingly 'murky sounding' cable	M	L	•		•	• 109
van den Hul MC The Magnum	265 A	Touted as vdH's most prestigious twinlead speaker cable, the Magnum sounds surprisingly soft and old-fashioned	L	L			•	• 109
van den Hul MC The Wind	330 <b>VG</b>	Blown-in from the continent, vdH's 'Wind' kicks up a storm with its lush midrange and bone-crunching bass!	L	M			•	• 109

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# **Cassette decks**

he bad odour of copyright theft hangs around the compact cassette, but there is no doubt it is the world's most versatile and ubiquitous music storage medium. Buffs may wrinkle their noses, but are happy to use cassette decks to make up tapes for the car or personal.

There is no problem in connecting a cassette deck to any normal amplifier, but some care needs to be taken in choosing the best tapes for a specific machine. (Trial and error is one effective technique, but many decks have manual bias adjustment and some match up to the tape automatically.) Lab

performance and sound quality often go hand in hand, and are frequently somewhat dependent upon factory alignment. The mechanical integrity of the mechanism is another crucial factor, that is reflected in the price.

The columns on the right indicate when the facilities shown in the headings are available on a deck. Dolby B and C offer varying degrees of noise reduction and the HX Pro system gives significant reble improvements with ferric (Type I) tapes. Dolby S increases the level of noise reduction with less signal degredation than B or C. Three-head

recorders allow you to listen to a recording as it's being made, a useful qulaity control function. Bias adjustment allows you to fine tune the deck to suit different types of tape when recording. Auto calibration is a an automatic system for setting bias and Dolby levels.

Twin deck offers the option to dub tapes or to play two cassettes simultaneously. Autoreverse is a useful convenience feature, but usually with some mechanical compromise. In the case of twin decks a blob is inserted in this column even if only one transport autoreverses.

## Cassette decks

•		ue	LNS	JON BU	CAR	ONS	read .	Just	on ec	4 erse	10.
	Product 5	EPrice	Comments	34			A		M	A	
	Aiwa AD-F410	120 <b>A</b>	Comparable to AD-F500 but cheaper: Good all round performance, well adjusted, useful basic and not so basic features	•	•	•		٠			99
	Aiwa AD-F810	230 <b>G</b>	First class budget 3-head machine with a dual capstan transport that really works at reducing the 'fudge' factor	•	•	•		•			99
	Aiwa AD-WX828	200 <b>G</b> -	Equipment levels strong, and sound is both vivid and presentable, but control system daunting.	•		•			•		123
	Aiwa AD-WX929	230 A	Superbly equipped twin deck that works and works well - remote control	•	•	•	•			•	117
	Aiwa XK-S9000	700 <b>G+</b>	Fabulous build, clunky transport and sharp, refined sound quality with Dolby S or B and metal tapes	•	•	•		•	•		105
	Akai DX-57	220 <b>G</b>	Eschews fancy gadgets for a good transport and decent electronics. Sound quality is firm and tidy but avoid Dolby C.	•	•	•					105
	Akai GX-95II	440 <b>G+</b>	Sharp, clear and articulate sounding deck, with superb performance extending to frequency extremes	•		•		•	•		99
	Akai GX-R35	220 A	Middling sound quality at best with Dolby B; deteriorates with Dolby C	•	•	•	•	٠			99
	Akai GX-W45	320 A	Costly but musical high-spec dual deck, doesn't like modern high energy Type IIs and IVs. Good stability and clarity	•	•	•				•	111
	Arcam Delta 100	850 <b>E</b>	Superb transport and a ripe, spacious sound. The Dolby S installation more successful than most. Some replay incompatibility	•	•				•		111
	Denon DRM-710	260 A	Although this is a fair performing model, the design has lost some of the competitive edge of its predecessor, the DRM-700.	•	•	•		•			105
	Denon DRS-610	200 <b>G</b>	Unique loading mechanism provides stability, and the deck has a crisp, clean quality. Occasionally anaemic bass.	•	•	•		٠			111
	Denon DRS-810	300 <b>G</b> -	Drawer loading deck, carefully designed, yet lacking in subtlety on audition.	•	•	•		•			127
	Goodmans Delta 700W	100 <b>P</b>	Compact and ultra-basic twin deck which is rough and bass shy, with less than stable tape path.	•							123
	Harman Kardon DC5500	600 A	Workmanlike sound quality offset by high price and inexplicable shortcomings like 'forgetful' Dolby switching and no timer support.	•	•	•					117
	Harman/Kardon TD4400	350 <b>G</b>	Simple features plus excellent engineering make this a model of integrity.	•	•	•		•			127
	Harman Kardon TD4600	700 A	Original Dolby S deck has improved over the years and now sounds very acceptable. A strong, solid sounding deck - but expensive.	•	•	•	•				117
	JVC TD-R452	180 <b>A-</b>	Tidy, stable but ultimately rather soul-less experience. Auto-reverse is useful though.	•	•	•				•	117
	JVC TD-X352	150 <b>A-</b>	Disappointingly amorphous sound despite decent measured results.	•	•	•		•			117
	JVC TD-V562	200 <b>G+</b>	Ultra-sophisticated transport at a silly price; sound quality is stable but slightly opaque.	•	•	•	9	•			123
	Kenwood KX-3050	170 <b>A</b>	Acceptable sound quality marred only by a loss of midband analysis and slightly edgy treble.	•	٠	•					117
	Kenwood KX-5530	220 <b>A-</b>	Neat looking, well equipped deck, adequately engineered but somewhat lacking musically. Worth considering if auto-reverse is a musically.	st •	•	•		•		•	105
	Kenwood KX-7050S	400 <b>VG</b>	Very well equipped and fine sounding deck, includes well implemented Dolby S	•	•	•		•	•		127
	NAD 602	200 <b>G</b>	Minimalist deck for the audiophile market. Unfortunately engineering is minimalist too	•	•	•					127
	Nakamichi DR-3	400 <b>VG</b>	Refined, exquisitely detailed and solid sounding 'budget' Nakamichi 2-header.	•	•			٠			123
	Nakamichi DR-2	600 <b>VG</b>	Accomplished design with simple features (manual tape select!) but superb sound/serviceability.	•	•		•	•			127
	Nakamichi DR-1	850 <b>VG</b>	Typically idiosyncratic Nakamichi with manual everything, Good azimuth adjustment and dynamic, authoritative sound.	•	•						117
	Philips DCC600	500 A+	Simplified circuit and mechanism, but the Philips badly needs a D/A converter transplant	•	•					•	123
	Pioneer CT-S420	250 A+	Poor replay compatibility, but otherwise satisfactory, if slightly uneven performer.	•	•	•			•		127
_	Pioneer CT-S520	280 <b>G</b>	Decent if slightly coloured middle ranker with FLEX to revitalise old or soggy sounding tapes.	•	•	•	•		•		123
	Sansui D-790WR	170 <b>P</b>	Modestly poor sounding but simple to use twin deck. Type II tapes show large response errors.	•						• •	123
	Sansui D-X117WR	220 <b>P</b>	Bass is thin and coloured, and the sound lacks dynamics, pitch accuracy and overall stability - the sound is neither stable nor solid.	•	٠	•				•	111
	Sherwood DD-3010C	120 <b>P</b>	Good range of features, let down by poor transport and iffy electronics.	•	•	•				• •	117
	Sony (WMD6C) Pro Walkman	290 <b>G+</b>	One of the finest sounding cassette decks on the market today. A mandatory Best Buy, which also fits in your pocket	•	•						60
	Sony TC-K611S	300 <b>G</b>	Cheapest Dolby S three header yet, yet slightly let down by lack of attention to detail	•	•	•	٠.	•			127
	Teac R-9000	500 <b>G</b>	Much better than average auto-reverse deck, well worth considering. Nicely engineered too.	•	٠	•	•		٠	•	105
	Teac V-8000S	700 <b>G</b>	Superb stability and real subtlety, this must be the best TEAC yet. The only disappointment was the Dolby C	•	•	•			•		105
	Teac V-7010	800 <b>G+</b>	Heavyweight (in every sense) design, immaculately crafted, impeccable sound, but not for grannie.	•	•	•		•			127
	Technics RS-BX646	230 <b>G+</b>	Unusually well built and non-microphonic deck with sophisticated facilities and lucid midband.	•	•	•		•	•		127
	Yamaha KX-650	260 <b>G</b>	Fine audio manners, especially in the midband and treble, mark this high class deck out from the crowd	•	•	•	18	•			99

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# **CD** players

ow over a decade old, this all digital music source is well established despite high disc prices and the opposition of some hi-fi enthusiasts. Compact Disc's strengths over conventional vinyl are complete freedom from surface noise, ease of use, and more robust software

However, many vinyl enthusiasts still find CDs sound less involving than top quality vinyl. But, with the dominance of CD in the high street, even vinyl die-hards need a CD player today.

The columns on the right indicate when the facilities shown in the headings are available on a CD player: DAC type indicates the type of convertor chip used in each player, 16, 18 and 20-bit are multi-bit types, all the others are bitstream variants. In much the same way that an amp's output is not indicative of its sound quality, the chip used in a DAC isn't the only determining factor in a CD player's sound, but it is an important one. Remote control is not yet universal, and we have included a tick box, more to show which machines don't have

one than which do. The existence of electrical and/or optical digital outputs is important for future upgrading with an outboard DAC, as a rule electrical outputs are the most desirable. Phase inversion in the digital domain is rare on one box players but can make quite a big difference if you've got golden ears. Headphone sockets are useful but beware of those without volume controls. Track entry keypads are those with calculator style buttons which makes track access much quicker.

# CD players

CD p	laye	rs	<sup>Q</sup> AC	Electrical distriction from the Post of the Toshiba BS	digital outpo	Head to the lead t	Tack el Ohone s Output	nty ker	ISSUE N
Product		<b>£Price</b>	Comments	V Comment	V	V		A	
Aiwa XC-300		150 <b>A+</b>	Cheap, cheerful and gratifyingly free of digital `nasties', well-equipped but safe rather than thrilling on the sonic front.	Toshiba BS	•				10
Aiwa XC-750		200 A	A refined version of the XC-700, sadly it has lost the magic of the original	PDM Bitstrm					1
AMC CD6		349 <b>G+</b>	Based on the same 1-Bit circuit as Rotel's RCD-965BX but with a raunchier, beefier but less transparent sound.	PDM Bitstrm	•				• 13
Arcam Delta 27	70	800 <b>G+</b>	The dry but tightly-focussed and supremely detailed sound of this player will either beguile or aggravate, depending on taste!	Hybrid	•	•			• 13
Aura CD-50		400 <b>G</b> -	Based on an older Philips board with new CDM9 transport, this is a slim player with an innocuous sound	SAA7321		•			• 1
AVI S2000MC		999 <b>G+</b>	A stylish, midi-width player with an exceptionally refined and comfortable sound. Lacks passion	20-bit	•	•			1
Denon DCD-59	95	180 <b>G</b>	Lacks the 695's pitch control but provides a smoother sound by way of recompense	18-bit					• 13
Denon DCD-69	95	200 <b>G</b>	A rough diamond with a raunchy sound to match. Pitch feature will be of interest to budding musicians.	18-bit	•				• 12
Denon DCD-89	90	270 <b>G</b> -	Similar to the DCD-1290 in its execution, sounds lively and powerful but lacks subtlety.	18-bit	•				• 1
Denon DCD-12	290	330 <b>G</b> -	Looks the business but sound is a real five-minute wonder. Its compelling fizz lasts about as long as a firework.	18-bit		•			• 10
Dual CD1080R	C	220 <b>A-</b>	Strange-sounding player with a top-heavy treble that does little to redress its lack of vibrancy and emotion	MASH/PWM		•			• 10
Genexxa CD-49	900	129 <b>A</b>	A little thin on detail, build quality and dynamics but thin on price too!	MASH/PWM	•				• 13
Goodmans Delt	ta 700	110 A+	A 16-bit alternative to the CD650II that furnishes a colourful and animated sound	16-bit	•				1:
Grundig Fine A	rts CD2	190 <b>A-</b>	A stylish-looking player with a disappointingly vague approach to music-making	SAA7350		•			13
Harman Kardor	n HK7725	800 <b>VG</b>	This flagship implementation of RLS sounds impressively bold and dynamic - a genuine rock 'n roller!	18-bit RLS	•				• 13
Harman Kardor	n TL8600	700 <b>G+</b>	A refined and more flexible version of the TL8500 multiplayer with a significantly more expressive sound	MASH/PWM					• 13
JVC XL-Z1050		500 A	Technically advanced and luxuriously equipped, this player remains rather bland and unsatisfying on audition	PEM Bitstrm					• 1
Kenwood DP-3	050	200 A+	A slightly over-cooked version of the DP-3040 with a highly civilised but uninteresting sound.	NPC Bitstrm					• 13
Kenwood DP-7	050	350 A	Kenwood's first sowing of Philips' Bit Stream technology has fallen on stony ground judging by its dry and awkward sound	PDM Bitstrm					• 1
Linn Karik		1497 <b>VG</b>	Based on Linn's original CD transport, this player sounds dry but very positive, detailed and engrossing	Crystal BS					• 1
Marantz CD-52	2	230 <b>G</b>	Launched to usurp the position of its own CD-52SE, the '52II is less colourful but equally appealing	PDM Bitstrm					• 1
Marantz CD-52	PIISE	300 <b>G</b>	A new mains transformer plus the full complement of internal mods has recaptured the frothy if startling sound of the original '52	PDM Bitstrm					• 1
Marantz CD-72	2SE	600 <b>G+</b>	A recommendation just eluded the grasp of this superbly built player thanks to its very polished but restrained sound.	bitstream					• 1
Mission DAD5		300 A+	Similar to Philips' 600-series: lively, plenty of space and full of 'bounce' but a little too eager to impress in the short term	bitstream		•			• 10
Musical Fidelity	CDT	5019 <b>G+</b>	Oddball player with a cheap top-loading transport and appaling digital gubbins yet saved by the euphony of its valves!	hybrid					1
NAD 502		220 <b>G</b>	This updated version of the 5425 has traded the spontaneity of its forebear for a more precise but mechanical style of music	MASH/PWM					• 1
Nakamichi CD-	4	380 <b>A-</b>	This looks new enough but sounds little better than the older CD Player 4 upon which it is firmly based.	18-bit					• 13
Nakamichi MB-	-4s	300 <b>G</b>	Entry-level MusicBank player that sounds like it's come from a studio control room: plenty of dynamics and detail but little stereo depth	16-bit					• 13
Onkyo DX-C11	0	350 G-	A big and beefy 6-disc carousel that strides confidently through rock and pussyfoots around gentle ballads	Bitstream					• 13
Philips CD732		140 A+	A cross between Philips CD690 and CD920 is no more technically accomplished but encourages a very lively and entertaining sound	SAA7341					• 13
Philips CD920		160 A+	A new budget player with an appalling technical record but a surprisingly clean if understated sound	SAA7341					• 1
Philips CD930		200 <b>G</b> -	Featuring digital circuitry similar to Marantz's players but a sound that's a little too ripe and soft.	PDM Bitstrm					• 1
Philips CD950		350 <b>G+</b>	Philips' top 900-series player is the first to employ its advanced DAC7 chipset. Sounds very crisp, clear and confident.	DAC7					• 1
Pioneer PD-102	2	150 A	Smooth and littered with plenty of underlying detail, this budget player remains distinctly unadventurous	PFM Bitstrm					• 13
Pioneer PD-S8	02	350 <b>G</b>	Once again Pioneer's LLC topology only served to split and confuse the listening panel. It's good, but quirky!	PFM BS		•			• 13
Pioneer PD-M7	701	330 <b>G+</b>	A 6-disc multichanger from the originators of the breed. A little untidy perhaps, but still sounds fresh, dynamic and exciting	PDM Bitstrm					• 1
Pioneer PD-M9	901	450 A	Another 6-disc multichanger based on the PD-M701 but with the addition of various 'Sound Field' options. Listening is hard work	PDM Bitstrm	•				• 1
Pioneer PD-S9	01	500 <b>G+</b>	The very refined but confident, crisp and powerful sound of the '901 snatches Pioneer's LLC concept from the jaws of defeat	PFM Bitstrm	•				• 1
Quad 67		790 <b>E</b>	Deceptively sleek in appearance but with a powerful, fluid and captivating sound reminiscent of Meridian's 206.	Crystal BS	•				• 12
Rotel RCD-945	AX	230 <b>G</b>	Based on the same CD-player-on-a-chip as Philips CD690 but with Improved execution and build.	SAA7341	•	•			• 13
Rotel RCD-965	BX	300 <b>E</b>	An exceptionally refined bitstreamer: transparent, exquisitely detailed and powerfully emotive. A landmark player	PDM Bitstrm	•				• 10
Sansui CD-X31	7	250 <b>A</b>	Not in the same class as older CD-X311mkll. Same technology but the sound is neither as responsive or engaging	MASH/PWM	•	•			• 10
Sansui CD-X61	17	350 A	This 'double-DAC' version of the CD-X317 is more impressive, sounding light and tizzy with pop but dull with classical CD's	MASH/PWM					• 1
Sansui CD-Alph	ha 717DR	1560 <b>G+</b>	A beautifully constructed if rather dated flagship player with an equally sedate and unadventurous sound.	MASH/PWM	•	•			• 13
Sherwood CD-3	3020R	130 <b>G</b>	Although this budget wonder has little respect for musical convention, what emerges is still remarkably entertaining	NPC bitstrm	•				• 1
Sherwood CD-5	5010R	160 <b>G+</b>	A warm, detailed and enjoyable performance from a solidly built but affordable package.	PDM Bitstrm					• 12
Sherwood CDC	:-5030R	200 <b>A-</b>	The replacement for the successful 5-disc CDC-5010R sounds messy, disjointed and generally unpleasant. A great disappointment	Bitstream					• 13
Sony CDP-X30	3ES	550 A+	A disappointingly lean and inconsistent result from a player that puts the 'high' in technology if not fidelity	PLM Bitstrm					• 12



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SPEAKERS	JPW Sonata Wharfedale DIA.4 Celestion 1 Mission 760i	Tannoy 603 Celestion 3 Boston HD5	Mission 761i BW.DM600i Tannoy 605 AR.152 Infinity Ref/20	Tannoy 607 Mission 780 Boston HD8	BW.DM610i Mission 762i Rogers LS2A2 Infinity Ref/40	Rogers LS4A2 BW.DM6201 (add £100) Mission 7631 Celestion 3/6000 (add £200)
AMPS Kenwood KA3020	£295.95	£309.95	£345.95	£369.95	£409.95	£429.95
Kenwood KA5040R	£349.95	£369.95	£419.95	£429.95	£459.95	£482.95
Marantz PM40SE	£316.95	£335.95	£379.95	£399.95	£429.95	£460.95
Pioneer A300X	£349.95	£369.95	£419.95	£429.95	£459.95	£489.95
Pioneer A400	£409.95	£419.95	£459.95	£479.95	£509.95	£539.95

T/T & C.D. PLAYER OPTIONS
Awa XC750, L89 00
Denon DCD695, add £89 00
Denon DCD1290, add £209 00
Marantz CD5472, add £120 00
Marantz CD5272, add £120 00
Marantz CD5272, add £120 00
NA0 502, add £39 00
Ploneer D53001, add £18 00
Dual CS505 -2, add £50 00
Dual CS505 -4, add £39 00 Project 1, add £50.00 Project 1, add £60.00 Thorens T0280IV, add £120.00 Systemdek 11X/900, add £329.00 Manyothers available on request

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CD Players:	
Aiwa XC300	£149.99
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Denon DCD595	2179.99
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Kenwood DP7050	£349.95
Marantz CD53	2199.90
Marantz CD63	£249.90
Marantz CD52SEmk2	REDUCED TO CLEAR
NAD 501	2179.95
	£229.95
Pioneer PDM602	€269.95
	£299.95
	rte £375.00
Technics SLPS620A	£199.95

Cassette Decks:	
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Kenwood KX5030, was £199.95	
NOW	£1 49.95
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Aiwa ADF810 3HD	€229.99
Denon DRM540	
Denon DRS810 3HD	2299.99
Denon DRW760 Twin	€249.99
Kenwood KX-5050	£229.95
Marantz SD53	€229.90
Marantz SD63	
Marantz SD415	£209.90
Nakamichi DR3	£349.95
NAD 602	£199.95
Sonv TCK-611S 3HD	
Technics	STOCKED
Yamaha KX-260,	TO CLEAR

Tuners:	
Denon TU260L	£119.99
Denon TU580RD/RDS	€219.99
Marantz ST53	£169.90
Marantz ST40/50L	
NAD 402	£169.95
Rotel RT930AX	
Rotel RT950BX	
Sony STS311LB	

AV Amps/Receivers:	
Denon AVC3020	£729.99
Denon DRA345R	£249.95
Denon DRA645RD/RDS	£319.95
Kenwood KRA4050	£229.95
Kenwood KRV6060 RDS	
Kenwood KRV7050 RDS	2399.95
Marantz PM700AV	£449.90
Marantz SR53 & 63	STOCKED
NAD 705	£329.95
NAD 701	2259.95
Yamah a RX V470	£399.95
Yamaha DSP E200	£369.95
Yamaha DSPA500	£449.95
Yamaha DSPA1000	£899.95

Turntables:	
Dual CS435	T.B.A.
Dual CS503-2	£179.95
Dual CS505-4	£229.95
NAD 5120	£119.95
NAD 533-Rega 250	£199.95
Project .5 Orf. OM3 cart	£145.00
Project 1 Ort. 510 cart.	£185.00
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Systemdek 11X900+RB250	£329.95
Systemdek11XE900 exc T/A	£329.95
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Thorens TD180 + AT91	£179.95
Thorens TD166 V1 + Rega RB250	£299.95
Thorens TD280 1V + AT95E	£269.95

Loudspeakers:	
Bose AM3Mk2	STOCKED
Bose AM5 Mk2	STOCKED
B&W DM600i,610i,620i	STOCKED
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CELESTION	STOCKED
Cerwin Vega AT/DC&VS	
Jamo Pro 200/300/400	
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#### THE DIRECTORY

# **CD** players continued

		THE DIRECTORY	"cctri Opti	4	1		
CD play	ers (	continued	DAC type	al digital output	adphone Utour Di	ontry ke	ISSUE NO.
Product	£Price	Comments		V			VV
Sony CDP-C345	230 A+	Sony's Hybrid Pulse DAC sounds great in the CDP-311 but in this 5-disc carousel it provides a mere skeleton of a performance	PLM Bitstrm				• 132
Sugden SDT-1	850 A	Bearing in mind Sugden's SDA-1 converter lies at the heart of this player, its unpredictable performance is disappointing	16-bit				119
Teac CD-P3500	200 A	A well-meaning attempt to pare-down the CD-P4500 results in a similar looking player with a thoroughly uninspiring sound	PDM Bitstrm				• 112
▲ Teac CD-P4500	280 <b>G</b>	TEAC's first genuine 1-bit player its sound described as having a certain `organic warmth', very composed and easy-going.	PDM Bitstrm			•	• 107
Teac VRDS-10	770 A+	A basic analogue stage compromises the potential of TEAC's superb engineering and digital electronics. Lacks bass energy	DAC7		•		• 119
▲ Technics SL-PG340A	150 A+	No more or less impressive than the old SL-PG320A, this new version is attractive enough if slightly restrained	MASH/PWM				• 128
▲ Technics SL-PG440A	170 <b>G</b>	This mix of the SL-PG520 and '420 fails to benefit from the strengths of either and only just achieves recommendation.	MASH/PWM				• 124
▲ Technics SL-PG520A	180 <b>G+</b>	A cracking player. Superb clarity and dynamics, thrilling but musically involving too	MASH/PWM	•			• 107
Technics SL-PS620A	200 <b>G+</b>	A costlier, tarted-up version of the SL-PG520A that loses very little in the way of clarity, sparkle or in compelling dynamics	MASH/PWM		•		• 112
Woodside WS2	1095 <b>G+</b>	Responded well to our jazz and classical selection but sounding bright and grainy with the pop CD's	16-bit				95
Yamaha CDX-670	290 <b>G-</b>	Yamaha has retained the CDX-660 casework but cut costs with a new multi-task IC that's not entirely de-bugged.	PDM Bitstrm				• 124



# **CD** transports and DACs

CD player can be split into two basic components; the disc drive or transport, and a device which turns the digital bitstream coming off the disc into an analogue audio signal. This is called a digital to analogue convertor or DAC. Although most players are contained in a single box, expensive players are usually two box affairs.

Although many of these units will be purchased as matching pairs, a DAC can also be used to upgrade an existing CD player. Thus an early machine with a satisfactory transport can be rejuvenated by adding an outboard DAC.

The columns on the right indicate the facilities available on a transport or DAC. Remote control is self explanatory. The existence of electrical and/or optical digital in and outputs is pretty fundamental to transports and DACs, as a rule electrical outputs are the most desirable. Class 1 transports are those with an output whose crystal clock accuracy that's

better than ± 50ppm (parts per million), certain DACs won't lock onto transports with a lower clock accuracy. DAC type shows the specific convertor chip employed. In much the same way that an amp's output is not indicative of its sound quality, the chip used in a DAC isn't the only determining factor in a CD player's sound. Phase inversion in the digital domain can make quite a big difference if you've got a high resolution system and golden

# CD transports

CD trans	spo	r	ts	Renote control	Optical of	Dital Output	Class 1	'sue No.
Product	£Price		Comments	V	V	V	V	
Arcam Delta 250	750	G+	Arcam's best effort yet is a new design based on the Phillips CDM9 transport; specification includes Sync Lock facility.	•		•		130
Counterpoint DA-11E	1495	VG	By rights this transport should be highly incompatible yet it delivers a remarkably vivid and natural sound.	•		•		130
Meridian 200	895	G+	Broadly compatible and offering a light, fresh and very bubbly sound that is both natural, engaging and unfatiguing	•		•		96
TEAC P-2	3500	G	Beautifully styled and constructed but sound is bleached and generally less inspiring than that of the P-10	•		•		96
TEAC P-2s	4300	A+	The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks.		•	•		130
▲ Theta Data Basic	1990	G+	A mild-mannered transport capable of marvellous results with lively-sounding outboard converters.			•		130
Wadia 8	3195	G	Includes a budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer.			•		130

					Elpa Opi	6.			
	DACs				Remote control	Cal digit	al output	Class 1	Eue No.
	Product	£Pri	e	Comments	V.	V	V		
	Arcam Black Box 50	45	O VG	A very measured and sophisticated sound from a DAC that leaves plenty in reserve to accommodate future upgrades.	Hybrid	•	•	•	127
	Audio Alchemy DAC-in-the-Box	20	0 <b>G</b>	Despite its slightly veiled sound this giveaway DAC may still rescue the oldest of players from obsolescence.	18-bit	•	•		127
	Audio Alchemy DDE v1.0	42	O VG	A very sweet and seductive sounding unit that gives good results with a wide range of CD players/transports	Bitstream	•	•		101
	Audiolab 8000DACmkII	75	0 <b>G</b>	Just as smooth and refined as its predecessor yet, sadly, still manages to obscure the passion or fire of music.	DAC7	•	•	•	127
	Audio Note DAC 1	60	0 <b>G</b>	An oddball DAC with manual de-emphasis switching. Needs a high preamp input impedance if bass is not to suffer.	20-bit	•	•		127
	Audio Synthesis DSM-M	123	4 <b>G</b> +	A weighty but neutral and highly calculated performer, best suited to transports like the P-10, despite Sync Lock facility.	20-bit	٠	•		113
	Beard DAP-1	125	0 <b>A</b> -	Clad in a wooden case this marriage of digital technology and valves has hit the rocks, a disappointingly flat sound	16-bit	•	•	•	113
	DPA Digital Little Bit II	40	0 <b>G</b>	A new on-board mains filter promotes a smoother and richer sound at the expense of some life and vitality.	SAA7350	•	•		127
4	DPA Digital Bigger Bit	69	5 <b>G</b>	With either P-10 or Meridian 200 transports it delivers a very taut and dynamic sound, bathed in an open acoustic	DAC7	٠	•		103
4	Meridian 563	69	5 <b>G+</b>	Warmer but no less detailed than the earlier 200-series, the 563 really comes into its own with top-flight CD transports.	Crystal	•	•	•	127
	Meridian 606 DAC7	135	0 <b>G</b>	By refining the 203's sound further Meridian have also tempered its vibrancy and 'life'. Fickle with other transports	DAC7	•	•	•	101
	Micromega Duo BS2	60	0 <b>G</b>	Has a tendency to sound light, airy and 'fast' but it can also become a little hard or - fatiguing with some digital outputs	SAA7321	•	•	•	101
	Micromega Microdac	30	0 A+	Described as a modest but entertaining performer, achieving its sweetest balance with Arcam's D170.3 transport.	SAA7321	٠	•		113
	Mission DAC5	30	0 <b>G</b> +	Another modest DAC but one capable of a lean but clean and detailed sound that's typical of the DAC7 breed.	DAC7	•		•	113
	Musical Fidelity Tubalog	49	9 <b>G</b> +	The animated character of the Tubalog ensures it's a great upgrade on budget CD players.	18-bit	•			127
	QED Digit	13	9 <b>G</b> +	Bearing in mind its expressive but very forgiving performance the Digit is almost embarrassingly cheap	PDM Bitstrm	•			113
	Select Systems Dacula	40	0 <b>G</b>	The overly warm and heavy bass of this DAC is quite atypical of the Crystal Bit Stream DAC.	Crystal	•			127
4	Sugden SDA-1	74	9 <b>G</b> +	A pleasant surprise from the fuddy-duddies of audio, judging by its masses of high resolution detail and tremendous dynamics	TDA1541	•			113
	Woodside DAC1	90	9 <b>G</b>	Fine but slightly dated and costly package in performance terms - but flexible, musical and t well built	16-bit	•	•		87
_ <b>A</b>	Woodside DAC2	50	9 <b>G</b> +	Offering a sharp and dynamic sound, all the more captivating for its lack of graininess and 'tizz'. A reliable upgrade	16-bit	•			101



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# Transport/DAC combos

			THE DIRECTORY	Clectrical Recal	Dri.	40	办		
Transpor	t/	D	AC combos	Renote	rtical digital digital control	Head ariable out	ohon out	entry ke	espan No.
Product	<b>£Price</b>	4 18	Comments				V		AVAV
Arcam Delta 250/Black Box 50	1200	VG	A very sophisticated combination that sounds silky-smooth without appearing soft or sugar-coated. A bargain two-box player.	Hybrid	•	•	•		• 133
Audio Alchemy DDS/DTI/XDP/P5	2 2047	A+	A multi-box combination with a Bit Stream DAC that is fundamentally more inspiring than its partnering transport.	DAC7		•		•	• 120
Cyrus Discmaster/Dacmaster	1900	G+	A powerful-sounding and perhaps slightly heavy-handed combination that cuts right to the heart of its music.	20-bit		•			• 133
DPA Digital T-I/PDM2mkII	3245	G	An ingenious combination that includes a clock-feed from the DAC to CD transport. Capable of astonishing results	DAC7		•	•	•	• 120
DPA Digital T1/PDM 256	3890	G	A highly advanced duet with adjustable dither facility. Sadly its different settings only usher-in different compromises.	Bit Stream		•	•		• 133
EAD T-I000/DSP-1000	2195	VG	A two-box player based on Pioneer's Stable Platter CD transport. Its music always sounds fast, furious and fascinating.	20-bit	•	•	•		• 120
Linn Karik/Numerik	2495	G+	Partnering Linn's Numerik DAC with its Karik CD player (as transport) provides a dry, dynamic but also slightly dirty sound.	20-bit		•			• 120
Meridian 200/263	1390	G	Now updated with Crystal Bit Stream technology, this popular duet has unfortunately lost much of the charm and poise of the original.	Bit Stream		•			• 120
Meridian 500/563	1670	A+	Combined with its own 500 transport, the recommended 563 sounds disapointingly thin, brash and uncomfortable.	Crystal		•	•		• 133
Meridian 602/606	3100	VG	Meridian's top-of-the-range two-box player looks and sounds both distinctiue and elegant, the perfect partner for a cultured system!	DAC7		•		•	• 120
Monarchy Audio DT-40A/M-33	3090	VG	An intriguing combination that provides a beefy and enthusiastic performance via its balanced AES/EBU connection.	20-bit		•		•	• 133
Proceed PDT3/PDP3	5214	G+	The third in a series of unusual transport/DAC combinations and a pairing that retains a powerful, confident and rugged sound	20-bit	•	•			• 120
PS Audio Lambda/Ultralink Two	4900	VG	In direct contrast with its appearance, this duet positively sparkles with colour and resonant detail.	20-bit		•			• 133
▲ Teac P-700/D-700	1500	VG	They may lack the resolution of high-end colleagues but still sound warm, bubbly and perpetually entertaining.	20-bit		•	•		• 120
Teac P-2s/D-2	6000	A-	Teac's VRDS statement looks a million dollars but sounds rather thin and uninvolving. A great disappointment.	18-bit		•	•	•	• 133
Theta Data Basic/Cobalt 307	2696	G+	A cautious and slightly over-refined combination that fails to make the best of either component.	Hybrid		•	•		• 133



# **DAT players**

AT, or digital audio tape, has been on the market for quite some time now but has never really 'made it' as a consumer medium, probably due to the fact that very little prerecorded software has been made available.

In the last year or so it has began to carve itself a niche at the top end of the market replacing reel

to reel tape recorders as the audiophile's tape based medium.

The DAT standard specifies a 48kHz sampling rate, which is higher than CD, so direct copying in the digital domain is only possible on those machines with dual sampling frequencies, ie 48kHz and 44.1kHz. Some machines also record at 32kHz

to give a longer recording time for a given length of tape, this is shown in the LP mode column.

The optical and electrical in/outputs in the column headings are for digital signals, analogue in/outputs are universal. The AES/EBU and S/PDIF socketry is for connection to professional components and typically DAT machines with this

# DAT players

DAT pla	yers		Penote ce	Optical in	trical infour	SU infour	SSU	e No.
Product	£Price	Comments	V			All and	· Va	5 V
JVC XD-Z1010TN	900 A+	Ambitious but ultimately disappointing deck with an opaque musical delivery and more features than you can shake a stick at	•	•	•	•		111
Panasonic SV-3700	1111 A	Slick, powerfully equipped, this pro DAT has a clear, quick and colourful sound somewhat lacking in weight and substance		•		•	•	111
Tascam DA-30	1199 A+	Interesting pro DAT deck with solid, tangible sound quality which is nevertheless lacking in analysis				•		111



# Headphones

here are a variety of different approaches to headphone design. Amongst the more expensive models, electrostatic drivers are used in open-backed phones. The majority of these come with some form of transformer which usually takes the signal from the speaker terminals on the amplifier, but some can run from a pair of tape out sockets.

The more down to earth (see affordable) models feature dynamic, or moving coil, drivers in circular open or closed backed designs. The advantage of open backs seems to be a correspondingly open sound, but one can also of course hear external noises. Closed-back designs are useful in situations where it is necessary to block out background noise, but they aren't

generally as good sonically.

Another means of distinguishing different types is the way they sit on your head. There are three styles: circumaural models enclose the ear and rest on the side of the head; supra-aural designs feature a flat pad which presses on the outer ear (pinna); and intra-aurals rest inside the ear itself, and are popular with personal stereos.

# Headphones

Headph	one	<b>S</b>	Type Open	Closed back	Dynamic Electrosic	tatic No.
Product	£Price	Comments	The Visit of	V	VV	VV
AKG K44	42 A	Good quality personal oriented phone, could have a better sense of space but is musically quite communicative	Supra-aural	•	•	99
AKG K70	30 A	Cossetting on the ears, but not on the brain, thanks to coarse, shut-in sound.	Supra-aural	•	•	133
AKG K135	46 <b>A</b>	The K135s don't live up to the usual AKG standards, though they do have the ability to reproduce rhythm well	Supra-aural	•	•	63
AKG K240 Monitor	82 <b>G</b>	Something of a classic, these AKGs are very user friendly in all respects; sonically on the warm side of neutral	Circumaural		•	63
AKG K280 Parabolic	117 <b>G</b> +	A very revealing and unusual twin driver design that uses the same principle as a satellite dish to beam sound into the ear	Circumaural		•	63
AKG K340	191 <b>E</b>	Heavyweight cans in most respects, the K340 with its electrostatic tweeter is a very revealing headphone	Circumaural			• 75
AKG K400	118 <b>V</b> G	Comfortable over long sessions. Sound is exquisitely detailed, dynamic and uncoloured	Supra-aural	•	•	121
AKG K500	138 <b>G</b> +	Open and clear, they reproduced music with impressive definition, balance is on the light side but transparency is high	Circumaural	•	•	111
AKG K1000	646 <b>E</b>	One of the best dynamics on the market, hooks directly to speaker outputs and makes much of the competition sound lame	Extra-aural			• 99

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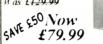
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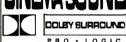
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# Headphones continued

		s continued	Type Open	Closed b	Dyna.	Electroste Inic	Issu,	-
DENOMINATION OF THE PROPERTY O	£Price	Comments						
Audio-Technica ATH-M2a	28	No bass, little treble and acceptable midband from low-weight, comfiortable model	Supra-aural		•	٠		
Audio-Technica ATH-910	90 (	The closed-back 910s are an improvement on the 909s with a nice rhythmic quality rarely found with headphones	Circumaural		•	٠		
Audio-Technica ATH-9000	246	Electrets which connect to the amps speaker outputs, it sounds a little too smooth but would suit aggressive amps	Circumaural	•				
Beyer DT311	45	Uncharacteriustically tight, unrefined soud quality from otherwise well engineered 'phone	Supra-aural	•		٠		
Beyer DT411	59	A reasonable but not very thrilling headphone that doesn't really offer enough at the price	Supra-aural	•		٠		
Beyer DT911	199	Probably too revealing for many headphone amps these are very subtle and fine if expensive cans	Circumaural	•		٠		
Beyer DT990	119	A significant pair of dynamic headphones; they have a smooth and yet revealing neutral sound that is hard to criticise	Circumaural	•		٠		
Jecklin Float Electrostatic	399 L	These electrostatics have an openness of sound rarely found in the breed, with good dynamic range to boot	Circumaural	•			•	
Jecklin Float Model One	75 (	+ Whilst very unusual in appearance, the Floats give remarkable sound quality and openness at a reasonable price	Circumaural	•		•		
Jecklin Float Model Two	99	+ Helmet shaped and pretty unflattering but open sounding and comfortable in the long term. te lack of adjustment	Circumaural	•		•		
JVC HA-D690	40 🗚	Competent but rather undistinctive cans, a bit middle of the road and well suited to aggressive sources	Supra-aural		•	•		
JVC HA-D910	65	Broadly acceptable if unexciting design with low level losses and some colourations	Circumaural		•	•		
Kenwood KH-1000	20	First step up from a true mini: a near miniature which is cheap, comfortable and inoffensive	Supra-aural	•		•		
Koss TD/60	30	- AM radio like bandwidth limitations and colourations, and rather flaky build	Supra-aural		•	•		
Maxell HP-3000	30 /	Solid, smoothn sounding but congested and undynamic. Includes in-lead controls.	Supra-aural		•	•		
Pioneer SE-400D	37	Acceptable if unexciting all-rounder, with good long-term comfort levels.	Supra-aural		•			
Ross RCH-300CD	20 1	In-lead controls are the highlights of this shoddy, sometimes agressive sounding design.	Supra-aural		•			
Sennhesier HD320	40 8	Superb value: articulate, accurate and musically effective, but location on ears can be uncertain.	Supra-aural					
Sennheiser HD440 II	35		Supra-aural					
Sennheiser HD 540II	120		Circumaural					
Sennheiser HD560 Ovation II	140		Circumaural					
Sony MDR-CD1000	170		Circumaural					
Sony MDR-CD3000	350		Circumaural					
Sony MDR-CD350	30	Very impressive, possibly the most open sounding cheap closed back can around, lightweight in balance but transparent	Circumaural					
Sony MDR-CD450	45		Circumaural					
Sony MDR-CD550	60	, , , , , , , , , , , , , , , , , , , ,	Circumaural					
Sony MDR-CD750	90		Circumaural					
Sony MDR-CD850	100		Circumaural					
Stax Gamma pro/SRD-X pro	678	The Gamma pros are like a stethoscope for your hi-fi, revealing subtleties that many loudspeakers fail to resolve	Circumaural					
Stax Lambda Signature/SRM-T1	1644	The Signature when combined with the SRM-T1 valve driver must be the most transparent headphone available	Circumaural					
Stax SR Gamma	239		Circumaural	÷				
Stax SR Lambda Pro/SRD-7SB	674		Circumaural	÷				
Stax SR Lambda Pro/SRM-1	1239		Circumaural	÷				
Technics RP-F10	100	Extracts layers of information that other headphones only hint at. The SRM-1 has more edge than the SRM-T1		•	-			
		Another very comfortable sealed model, modest sound isolation and uneven sound favouring bass	Circumaural					
Vivanco SR606 Vivanco SR808 Classic	40 <b>6</b>		Circumaural Supra-aural	•		•		



# Loudspeakers

ast item in the hi-fi chain, to some extent the loudspeaker is merely the slave of what has gone before, capable only of reproducing a signal as good as it is fed. Nevertheless the distortions (colorations and stereo effects) introduced by loudspeakers (and rooms) tend to be more immediately obvious than those anywhere else in the chain, so careful choosing according to taste is very important.

The average loudspeaker consists of a smallish

enclosure, much of which may have begun life as part of a tree, plus a couple of drive units hidden behind a removable grille. Inside the box lurks a simple electrical circuit known as a crossover. which divides the incoming (full range) signal into the right bits for the drivers to handle. Variations on the above formula are specifically identified in the entries. The designer's primary task is to balance the 'sensitivity' of the loudspeaker (how loud it goes for a given electrical input) against the

bass extension (how low does it go), shown as 'bass from', for the given box size. After that such subtleties as coloration (or lack of it) and dispersion come into the equation.

Careful placement of the loudspeakers within the room is as important as the initial choice of model. See siting columns for guidance. For good stereo they need to be more or less the same distance from nearby walls. Models not ticked as 'floorstanding' will require rigid stands.

# Loudspeakers

		ىرى خى		Six Si	iz.			
Loudspe	eake	rs	Hawad (cm) Bass from (	tivity (	Se to h	Floorst e space	anding	ue No.
Product	£Price	Comments	100 V 100 PM	V	V	Va		
▲ Acoustic Energy Aegis 1	452 <b>G</b>	Rich and slightly heavy balance doesn't mask fine mid/treble coherence and transparency. Entry level for all-metal drivers	39x21x26	28	84		•	118
Acoustic Energy AE1	950 <b>G</b>	Amongst the best miniatures around, shows exceptional mid focus and coherence, but is pricey and could be more agile.	29.5x18x25	48	84	1	•	102
▲ Acoustic Energy AE3	1650 <b>G+</b>	Solid, authoritative and impressively accurate - if a shade ponderous and slow	63x26.5x37	23	85		•	86
Allison AL100	100 <b>A</b>	Loud and lively budget wall-mount is bigger and beefier than most of the competition, if lacking some subtlety and refinement	33.5x24x21.5	30	87			94
Allison AL105	170 <b>A-</b>	Pretty enough in appearance, sonically the AL105 doesn't really make the grade at the $\pounds$ 150 asking price	37x24x21	45	87	•		78
Allison AL110	220 <b>G</b> -	Compact bookshelf model is a little dry and mid forward, but bass is extended and solid	40x24.5x22.5	28	86	1	•	102
Allison AL120	420 <b>A</b>	Pretty well balanced if slightly mid forward, but sound quality is a little disappointing for the price	63x28x27	30	88			98
Allison MS 200	220 <b>A</b> -	Small and solid as a brick, this micro-miniature has limited bass and bright balance, but sounds agile and communicative	25.5x14.5x15	50	85			106
▲ Apogee Caliper Signature	3995 <b>G+</b>	Power hungry full range ribbon panels have remarkable transparency and delicacy, loudness and 'grunt' are a bit lacking	122x70x6.5	30	81			81
Arcam Delta 2	300 <b>G</b>	Pretty luxury compact sounds a shade forward and coloured but has dynamic and lively bass for its size	37.5x22.5x27.5	40	87			94

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#### THE DIRECTORY

# Loudspeakers continued

		THE DIRECTORY	۰.۵ م	Six S	ito			
loudena	ale	re continued	Bass from	tivis	Sein	Floor	SX	Se.
Louuspe	uKe	THE DIRECTORY  Ste. Hand.	Bass from	(4×)	(08)	Floor Ree Spa	Ce	Issue
Product	£Price	Comments	V CONTRACTOR	No.		M	V	
ATC SCM20	1461 <b>G</b> -	Massively built, invariably informative but the rather forward presentation can be uncomfortable	44x24x31	28	82			٠
Audio Note AN-E/B	1300 <b>G</b> -	Lovely coherence, great midband dynamics and transparency, extended bass and high sensitivity — pity it's so darn ugly!	80x36x28	20	91		•	
Audio Note AN-J/B	799 <b>G</b> -	Light damping and local unevenness adds some coloration, but doesn't spoil the very lively, dynamic and coherent sound	58.5x33x24.5	25	90		•	
Aura SP-50	400 A	Two very tasty drivers rather outclass the cabinetwork; a capable but slightly dull compact stand mount	40x22x25	30	87		•	
B&W 2001	120 A	Cunningly concealing its (very real) limitations, this is just about the smoothest and best balanced miniature around	29x18x21	48	87		•	
B&W 2003	190 <b>A</b> -	Flashy and assertive ghetto blaster styling is not reflected in the rather bland, if well balanced sound	43x21x25	30	88		•	
B&W DM620i	399 A-	Good material value, this compact floorstander has a beautifully voiced midband, less happy bass tuning	77x24x32	40	89		•	•
B&W Matrix 801	3500 <b>G</b> -	Lacks the transparency of the best panels, and the drama of the best dynamics, but is something of an acoustic tour de force	77/99x56x43	<20	86	•	•	
B&W Matrix 805	845 <b>G</b>	Stylish, with remarkable imaging properties, good balance and low coloration, though less successful at musical communication	42x26x22.5	30	87		•	
Bose 305	430 <b>G</b> -	A bit of an oddball, fine dynamic liveliness and a good room match more than make up for the strange stereo imaging and treble	28x45x23	40	88	•		
Bose 401	500 🛦	Cheaply built but distinctively styled semi-omni floorstander suffers from heavy midbass but still sounds lively and open	78.5x30x28.5	28	89		•	٠
Bose 901 MK6	1650 A	The pre-equalised multi-driver 901 is cleverly engineered to deliver exceptional loudness	33x54x32	28	89		•	
Boston HD5	139 A	Tiny and prettily shaped miniature has an attractive lack of boxiness, but is a little short of drama and dynamic drive	25x16x18.5	30	86			
Boston Acoustics SW10	449 <b>G</b> -	Clever powered subwoofer system integrates well and improves system loudness and power handling	50x28.5x42	35	NA		•	•
Cabasse Bisquine	600 <b>G</b> -		48x26x30.5	30	91			
Cabasse Skiff	1500 <b>G</b> -		100x30x36	25	92			
Canon S-30	180 A-		27x22.5x23.5	50	88			
Canon S-50	250 A		30x24(diam)	48	84			
Castle Chester	650 <b>G</b>		94x23x27	45	87			
Castle Durham	250 A	Like the slightly larger York, the very pretty presentation is not reflected in a similarly sweet sound	40x22x24	48	88			
Castle Howard	999 <b>G</b> -		104x23x35	25	87			
Castle Trent II	190 A	Very classy finish for the price, plus a sound that passes muster without setting anything much alight	33.5x18x20	50	88			
Castle Winchester	1499 <b>G</b> -		114x24x47	25	87			
Castle York	349 <b>A</b> 1		43x22x26	30	86			Ť
Celestion 1		, , , , , , , , , , , , , , , , , , , ,	27.5x16x21	50	87			
	109 A	Pretty basic performance but at a very basic price — it all sounds a bit scrappy and untidy, but its heart's in the right place				•		
Celestion 3 Mkll	130 A		31x18.5x20	45	87			
Celestion CS135	139 <b>A</b> -	Compact hideway passive subwoofer lacks serious bass extension; for high sensitivity speakers only	52x19x34	45	88	•		·
Celestion 15	389 <b>G</b>	Big box and bang for your bucks, short on subtlety and control, but long on both enthusiasm and perceived vinyl wood grain	103x20.5x25.5	28	90			·
Celestion 9	269 A	Nicely presented and fair material value, with impressively flat bass-to-mid balance	49.5x20.5x24	30	89		•	
Celestion SL12Si	629 A	Elements of fine sound quality, but this 'grown up' SL6 variation has a lumpy response alongside its improved power handling	53x20x27	50	85		•	
Celestion SL600Si	820 <b>G</b>	Has certain remarkable qualities that some will find irresistible, but needs careful system and room matching	27x20x23	52	82		•	
Celestion SL6Si	429 <b>A</b> -	This stereotype luxury compact can sound a bit dull and congested, but really opens up on Slate Audio stands; favours CD	37.5x20x25	30	86		•	
Celestion 300	1099 <b>G</b>	Splendid bass extension and fine panel-like openness and transparency, but dynamics and timing are suspect, balance very laid back.	100x21x31	<20	86	•	•	
Dali 102	230 A	Attractive bookshelf model has fine midband focus and bass extension, but treble's a bit restrained and bass a bit detached	37x21x25	30	86		•	
Dawn Chorus FS	698 <b>G</b>	Compact floorstander with superb coherence but rather forward midband. Would suit smaller rooms best	91x26x21	30	86		•	٠
Dynaudio Contour 1.3	1199 <b>G</b>	Heavyweight luxury finish bookshelf model has good scale and weight but is pricey and a bit ponderous	38x20.5x29	28	86		•	
Epos ES11	395 <b>G</b> -	Integral baffle/driver to give a remarkable combination of low coloration, transparency and speed; bass is a bit shy	37.5x20x25	45	86		٠	
Epos ES14	595 <b>G</b> -	Substantial stand mount delivers delightful midrange focus and delicacy with good bass control. System sensitive	49x22.5x29	25	85		•	
Faraday FS1	225 A-	Concrete box on a budget, works surprisingly well despite cheap drivers, wood veneers here Direct sale only	47x27x28	45	86		•	
Faraday FS5	575 <b>G</b>	Pricey and ugly, but with its own sonic charm, thanks to substantial influence of the concrete enclosure has upon the sound	46x27x26	28	90		•	
Faraday Siren	375 A-	Interesting if ugly high mass concrete cabinet is let down by imbalance of ageing driver combination	46x27x27	48	87		•	
GLL Maxim	119 <b>A</b>	Budget miniature offers well balanced strengths and few weaknesses at a very realistic price; a bit feeble	26x17x20	30	85	•		
Harbeth LS3/5A	539 A	Still a classic miniature, though not to every taste, and none the better for the recent update under our listening conditions	30.5x19x16	60	81		•	
Harbeth HL-P3	479 <b>G</b>	Very limited loudness but impressive full-range scale from uncoloured and very well balanced but time-smeared sub-miniature	31x19x17	23	82		•	
Harman-Kardon LS 0200	150 A	Laid back to a fault but entertaining nonetheless, and a big box for the price	38x21x29	30	86		•	
Heybrook Prima	130 A-	Neat and discreet miniature delivers fine coherence, pace and timing, though balance is a trifle forward and bass a bit light	29x19.5x18	50	86			
Heybrook Quartet	555 <b>G</b>	Beautifully presented and built large bookshelf model with good sensitivity and a lively, forward sound	41x24x23	48	89			

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	Product	<b>£Price</b>	Comments	V	V	V	V	V	V	
ı	Heybrook Sextet	1099 <b>G+</b>	Engagingly coherent and a highly analytical, partly due to distinct and t always comfortable upper-mid forwardness	96x27x20	25	85	٠		٠	
	Heybrook Solo	189 <b>A+</b>	Discreetly styled, sounds a little untidy in both bass and treble but handles complex rhythmic material much better than most	36x23x22	28	87	٠			
	Heybrook Trio	359 <b>G</b>	Same drivers as HBS1 in prettier real wood enclosure give a sweeter and more forgiving if less committed sound	47x24x25	45	89		•		
	Impulse H7	785 <b>A</b>	Ultra-compact horn has fine midband contrasts but very little bass and detached treble; gives amplifiers a hard time	87x15x30	45	85	٠		٠	
	Infinity Kappa 6.1i	995 A	Good extension and laid back balance from high-tech drivers in classy cabinet, but bass is fat and slow and dynamics unconvincing	97x30x24	25	89		•	٠	
	Infinity Modulus	795 A+	Carefully conceived and beautifully built. Undeniably attractive in the mid and treble, it failed to handle the bass as well	30x18x26	45	84		•		
	Infinity Reference 10	200 A	An engaging and lively sound from a prettily finished and substantial small bookshelf size model	36x23x23	50	87				
	Infinity Reference 20	300 A	Well presented and balanced with good bass control, but somehow lacks convincing cohesion and agility.	46x27x24	27	88				
	Infinity Reference 30	400 <b>G</b>	Budget price floorstander has good overall balance and bass extension, but is rather coloured and uneven	86x27x24	25	89				
	Infinity Infinitesimal sub			34x34x34	40	NA				
		499 A	Cute but pricey amplified subwoofer is too small to deliver real bottom octave grunt				٠		·	
	Jamo 707	900 <b>G</b> -	Superb styling and cosmetics but indifferent build and engineering quality; decent balance apart from detached bass	105x26x39	25	88		•	·	
	Jamo Cornet 40.3	130 A	Pretty presentation and a strong box, but poor driver fixing. Decent if bright sound	32x20x22	48	86		•		
	JBL Control 1 Plus	250 <b>A</b>	Sub-miniature with forward midrange and real bass; highish price partly justified by near-indestructible Pro build	23x15.5x14	50	89	٠			
	JBL L1	479 <b>G</b>	Good power handling, decent transparency and deep but current hungry bass from a compact and solid enclosure	40x21x25.4	47	87		•		
	JBL ti1000	1500 <b>G</b>	Ultra-engineered, beautifully crafted bookshelf model. Performance compromised by over enthusiastic midbass output from port	44x30x28	45	89		•		
	Jordan JH400	590 A+	Piano finish hexagon has single full range driver and controversial sound, with uneven balance but delightful mid coherence	33x24x30.5	50	83		•		
	JPW AP2	180 <b>A</b>	Offers real wood veneer at a bargain price; performance is cleaner but broadly comparable to P1 Vinyl overall	43.5x25.5x26	45	86		•		
	JPW AP3	225 A+	Pretty good stereo and well balanced overall it had its own character which is well suited to vinyl replay	52x25x29.5	57					
	JPW Gold Monitor	80 A	Great sound for pound value through bass and midband, but the top end's rather coarse	27x18x18	50	85				
	JPW Minim	79 <b>A</b> -	Very civilised but dynamically limited, the Minim is well suited to the smaller room and where limited loudness is acceptable	27.5x18x19.5	28	85	•			
	JPW Mini Monitor	60 <b>A</b> -	Ultra cheap Richer Sounds special is lightweight and short of welly, but a snip for surround sound use	27x18x17	50	85	•			
	JPW P1	155 <b>A</b> +	Honest and basically articulate if not very sophisticated, resolution is good but can sound a little wearing in bright systems	44x25.9x26.1	60	89		•		
	JPW P1 Vinyl	135 <b>A</b>	A lot of highly competent loudspeaker for the price, with a safe sound that's unlikely to disappoint.	43.5x25.5x26	32	87		•		
	JPW Sonata	115 A+	Well balanced and integrated, offers fine sound if limited bass and dynamic range, plus real tree wood at a nearly silly price	32x23x20	55	86	•			
	JPW Sonata Plus	135 <b>A-</b>	This luxury variation on the redoubtable Sonata theme features a metal dome tweeter, and isn't the better for it	32x23x21	30	87		•		
	JRT AD1	500 <b>G</b> +	A fair share of cosmetic deficiencies do little to spoil the impressive coherence and timing	59.5x28x36	28	86				
	JRT AD1 Micro	389 <b>G</b>	Delightful life and coherence, gives surprising impression of scale; some aggressive tendencies but very open to system tuning	28x17x21	50	87				
	Jordan JH400	504 <b>A</b> +	Piano finish hexagon has single full range driver and controversial sound, with uneven balance but delightful mid coherence	33x24x30.5	50	83				
	KEF 104/2									
		1595 <b>G+</b>		90x28x41.5	50	92		•	·	
	KEF K120	169 <b>A</b>	Physically pretty and sonically competent but undistinguished bookshelf size model has good sensitivity but limited extension	34x20.5x26	45	87		•		
	KEF Q30	349 A	Fine focus from Uni-Q driver, but lacks drive and time coherence; acoustically smaller than it looks	73x19x29	44	88		•	•	
	KEF Q80	569 A+	Uni-Q floorstander has good stereo and fine midband coherence, but bass lacks extension, drive and resolution	85x24.5x26.5	45	87		•	•	
	KEF Q90	739 <b>A</b>	Generous floorstander has even balance and decent extension but fails to communicate excitement and involvement effectively	90x25x32	25	88		•	•	
	KEF AV1	2499 <b>G-</b>	Awesomely built, finished and powerful subwoofer lacks the subtlety and unintrusiveness for top class hi-fi applfications	43x56x50	<20	NA	•	•	•	
	Kenwood LS-770G	260 <b>G</b>	Impressively communicative bookshelf model has fine vigour, scale and dynamics, if not the smoothest sound around	48x27x25	25	89				
	Kenwood LS-500G	500 <b>G</b>	Japanese designed and built luxury compact delivers an invigorating and exciting sound; an interesting contrast to some lazier models	45x23x26	48	89				
	Legend II	200 <b>G</b>	Liveliness, coherence and fine information retrieval justifies the odd looking moulded baffle construction	37x21x30	48	88				
	Linn Index II/KuStone	374 <b>G</b>	Stand and speaker looks and sounds very good, good bass extension and control, fine dynamic range. Clean, clear if a shade slow	44x21x23.5	28	86				
	Linn Kaber	1298 <b>G+</b>	Dry, bright balance emphasises superb dynamic range and transient precision, but can sound unforgiving	89x19x29	25	85	٠		•	
	Linn Keilidh	579 <b>G+</b>	Stunning timing and coherence and awesome bass drive, especially with ceramic plinth; sounds a bit shut in	83x20x27.5	22	87		•	•	
	Living Voice Air Partner	11990 <b>E</b>	Formidable horn design with astounding transparency, dynamics and speed. Its idiosyncracies are compensated by sheer energy	165x64x92	40	101	•		•	
	Lumley Monitor Reference 3	895 <b>G+</b>	Lovely free stander suffers from indifferent bass alignment, but is fast, coherent, solid and very informative indeed.	87x27.5x28	30	90		•		
	Lumley Monitor Reference 4	375 <b>A</b>	All metal diaphragm and real wood at fair price; balance uneven — upper mid forward with suspect bass tuning	36x17x23	44	86				
	Magneplanar SMGa	668 A	Tonally 'rich', in the right room it proved a satisfactory musical experience	122x48x4.5	56	85				,
	Meridian Argent 1	995 <b>G+</b>	Beautifully built, finished and shaped, has fine bass extension and virtual absence of 'boxiness'; needs a big amplifier	33x27x27	28	83				
	Meridian Argent 2	875 <b>G</b>	Beautiful high-tech 'large compact' delivers extended, smooth and neutral sound with fair speed. Slate Audio stands essential	48.5x21x29.5	23	85				
	Meridian M30	950 A		38.5x18x32						
			Pricey active speaker, easy on the ears and worth considering especially where space is at a premium		40	NA				
	Mission 753	700 <b>G+</b>		90x22x30.5	45	88				
	Mission 760i	130 <b>A</b> +	Attractive little wall-mount miniature has livelier dynamics and bass drive than most of its type, but sounds as little shut in	29.5x18x20	48	87				
	Mission 760i SE	150 A+	Tweaked 760i variation is one the prettiest and best balanced babies around; a demanding amp load	29.5x18x20	50	87	٠	•		
	Mission 764i	480 <b>A</b>	Generous and handsome floorstander looks fine material value for money, but good scale sound has lazy tendencies	89x25x32	22	86		•	•	
	Mission 765i	680 <b>A+</b>	Big heavyweight floorstander has good sensitivity and bandwidth, but somehow lacks agility, authority and dynamic grip	102x25x33	22	91		•	•	
	Mission 751	300 A	Attractive luxury miniature has great sonic potential, but our our review samples have been marred by sample variations	32x17x27	45	86	•			
	Monitor Audio MA1200 Gold II	1200 <b>G</b>	Pricey but classy floorstanding variation on MA800 theme; beautifully voiced midband, heavy midbass	93.5x17x27	28	85		•		
	Monitor Audio Studio 6	800 A+	Pretty but pricey metal diaphragm.compact has clear and transparent midband but is ultimately lacking in vim, vigour and drive.	35x22x25	45	86				
	Mordaunt-Short MS-10	130 A	Hi-tech baby has fine bass/mid integrity but the top end is less appealing	30.5x18.5x21	50	86				
	Mordaunt-Short SW-1	150 <b>A</b> -	Prettily finished and inexpensive passive subwoofer is only really useful with sub-miniature speakers	24x58x25	40	85				
							•		Ė	
	Morel Bassmaster 602	1200 <b>G+</b>		24.5x40x22.5	25	84		•		
	NAD 801MM	100 <b>A</b> -	A rather undistinguished sub-miniature with low sensitivity and indifferent sound quality	27x18x18	48	84	٠			
	NAD 804	320 A+	Good value compact floorstander sounds lively and coherent, but quite coloured due to uneven balance too	75x20x26	25	89		•	•	
	NVA Cube 1	720 <b>G+</b>	Attractive, semi-omni is very sturdily built, and gives an idiosyncratic but unusually open, spacious and informative sound	33x32x32	52	85		•		
	NVA Cube 2	480 <b>G</b>	A rude but exciting miniature, with unusually accomplished bass capabilities for its size	28.5x27x28.5	48	85	•			
	NVA Cubix	1400 <b>G</b>	Too idiosyncratic for recommendation, the Cubix possesses remarkable bass extension for its size, but is tricky to optimise	60x32.5x32.5	28	84	•			
	Naim IBL	895 <b>G</b>	This tiny floorstanding wall mount delivers outstanding dynamics, speed and detail, marred by pronounced upper mid forwardness	80x18x15-20	30	84				,
	Naim SBL		Impressive scale, full bandwidth, coherent, attractively discrete, coloured midband, very well balanced and agile	88x26.5x17-27		86				

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Product	£Price		Comments	<b>∀</b>	V	7	V	<b>V</b>	Y
Neat Petite			Far from perfect, but one of the most entertaining and enjoyable speakers around, colorations notwithstanding.	30.5x20x18	<b>3</b> 3	86	•		
Origin Live OL2A	469	G	Compact floorstander sounds open, transparent and evenly balanced; needs a big amp but enjoys hard driving	82x19x19	25	85		•	•
Origin Live OL1	499	G	Luxury miniature has very good overall balance, sacrificing sensitivity to achieve remarkable bass extension for the box size	30.5x19x21	25	82	٠		
Pioneer S-4UK	250	A+	Carefully developed minimalist audiophile design has some vigour but suffers an intrusive upper mid peak	37x21x28	50	87		•	
Polk LS70	1200	A+	High sensitivity and lots of loudness potential, but in-room balance has far too much midbass boom; mid and treble are very laid back	96x31x37	22	91		•	•
Polk RM 1000W	349	A-	Not a true subwoofer at all, but rather the bass section of polk's elegant upmarket three box speaker system	31x52x33	45	90	٠		•
Professional Monitor Co LB1	998	G+	Delightful smoothness and transparency, though bass extension and sensitivity are both limited	53.5x18x26	33	86		•	
Professional Monitor Co AB1	1600	G	Bulky stand-mount transmission line has lovely panel-like transparency, slightly shut in balance, and needs a big room	79x27x43	22	89		•	
Quad ESL-63	2384	G+	This classic electrostatic may not be punchy in the bass, but has strengths that some can't live without	92x66x27	34	84		•	•
Rega EL8	298	G	Kyte drivers in compact floorstander give more bass but a shade less coherence; good for small rooms and budget systems	75x16.5x21	55	86			•
Rega ELA	405	G	Very compact floorstander with integral stand has serious coherence and dynamics, but a measure of brightness and untidiness	84.5x20x30	30	86			
Rega Kyte	198	G	Has splendid timing and coherence, sounds very explicit and informative, if a bit bright and short of grunt	31x19x20	50	87			
REL Strata	499	G+	Outstandingly value and performance active subwoofer adds serious bass unintrusively to any small speaker system	52x42x31	<20	NA		•	
Rega XEL	1040	VG	Looks good, measures well and sounds great too; balance is bright but even, with delightfully bass-to-mid coherence and timing	102x21x33	40	89			
Rogers LS2a/2	229	G	Balance is a bit warm and rich but 2a/2 has delightful mid-to-treble coherence and transparency, and more welly than Mk1	35.5x23x22	30	84		•	
Rogers LS4a/2	300	A+	Civilised but a trifle lazy, this large bookshelf model hasn't quite the timing or agility to be particularly engrossing	43x25.5x25.5	25	86		•	
Rogers LS6a/2	399		Largish stand-mount is well built, measures well, good material value, but sounds a bit heavy and lacklustre	51x28x29.5	22	87		•	
Rogers LS8a	499		A mixed bag, with plenty of scale and welly but lacking the subtlety, clarity and agility delivered by some rivals	89x25.5x25	48	91		•	
Rogers Studio 3	450		Pricey LS3/5A-derived wall-mount sub-miniature is excitingly coherent if a bit lightweight; no real loudness capabilities	31x19x17	30	83			
Rogers Studio 7	880		Latest variation on classic BBC-monitor theme looks old fashioned but has beautifully voiced, laid back sound	63x30.5x30.5	30	88		•	
Roksan Oian 3	895		Squat, stylish and black, with unusual tweeter decoupling; great bass extension and flat but somewhat uneven balance		<20	85			
Royd Topaz	173		Cheerful, articulate and essentially communicative miniature can also sound a trifle scrappy and shut in; well worth trying	30.5x20.5x19	50	87			
Royd Abbot	666		Engaging and dramatic dynamics and fine transient coherence are hampered by a rather coloured mid-forward balance	83x20x34	43	88			
Ruark Templar	479		Compact floorstander with striking baffle has decent bass/mid but dull treble; could tame over-bright system	73x19x27	25	85			١.
Ruark Talisman 2		G	Less ideologically committed than some compact floorstanding rivals, its key strength lies in fine all round compromise	86x25x31	30	86			
SD Acoustics Ribbon									
SD Acoustics SD1		G+	Amplifier sensitive, Ribbon is a lively and loud hybrid marred by some colorations; some like it, others don't	152x30x(15-30)		91			ľ
		G+	A large scale, airy and unusually detailed system with excellent dynamics. A warmer balance than original model	123.5x38.2x32	50	90			
SD Acoustics SD3 SD Acoustics SD4	399		Port firmly blocked, the new SD3 has the agility and charm of a quality miniature, with good bass extension but low sensitivity	38x19.5x29	25	83			
SD Acoustics SD5	699		Tall slim floorstander has fine balance, good bass extension and lovely open midband transparency	100.5x20x30.5	25	85			·
	1235		Bass tuning and coherence suspect but forward midband is delightfully smooth; high class drivers include ribbon tweeter	112x20x30	30	86			
Shahinian Arc	1062		Unusual and occasionally wonderful small floorstanding omni; too bright but exceptionally coherent and revealing	69x35x25	24	85		•	·
Snell JIII	770		Dated styling belied by fine sensitivity and bass extension, and a lively if slightly untidy and not quite coherent sound	58x33x25	30	89		-	
Spendor S20	579		Maintains Spendor's tradition for peerless mid-to-treble coherence and perspectives. Bass is rather unconvincing.	38x22x26	25	83		•	
Spica Angelus	1295		A little bass shy and soft in the bass and lower mid, otherwise tidy, extremely lively and fluid, if uneven overall	116.8x53.3x26	50	86		•	•
Spica TC50	649	G	This triangular-profile 'grown up' miniature is a shade boxy and laid back but has good rhythmic and musical integrity	40.5x33x29	55	88		•	
Spica TC50SE	849	G	A heavily UK-modified TC50, the SE sounds less boxy and more spacious, but lacks some of the urgency of the standard model	40.5x33x29	55	88		•	
TDL NFM	120	A-	A disappointing underperformer in our tests, at a price that's not very nice either	27x18x18	50	86	٠		
FDL RTL3	400	A+	Bargain price floorstander has rich, heavy and bright sound with good scale and fine basic neutrality	92x20x38	25	88		•	•
TDL Studio 0.5	499	G	Tiny floorstanding transmission line has good agility but doesn't provide the coherence or even balance of Studio 1	55x20x30	40	85		•	
TDL Studio 1	699	G	Genuinely extended bass from a compact enclosure, very detailed but a shade clinical and detached in presentation	76x23x33	25	84		•	•
TDL Studio 1M	899	G+	Transmission line helps bring the best from metal cone driver: lovely transparency and fine bass extension	81x23x33	<20	84		•	•
TDL Reference Monitor	1999	G+	Fine solidity and good accuracy, with great bass extension. Needs a big room and can sound a bit lazy and a shade tinkly	118.5x30x47	28	85		•	•
Fannoy 603 II	140	A-	Pretty looking but altogether rather dull sounding mini-hexagon is less effective than larger brethren	33.5x22x16	45	86		•	
Tannoy 607 II	220	A	Large bookshelf, smart hexagonal box has fine bass for the price, but treble sounds rather shut in	50x32x24	25	88		•	
Tannoy 609 II	295	A+	Large bookshelf size model with dual concentric driver has fine balance and scale with low coloration	50x32x24	22	86		•	
Tannoy Westminster	6000	G+	These awesome horn loaded speakers are remarkably controlled and impressive, if only suited to a few pockets and rooms	Huge	38	96	•		•
Fechnics SB-EX2	180	A	Nicely presented, well built and decent size enclosure sounds solid but somewhat dull	48x23.5x27	20	86		•	
Technics SB-RX50	650	A+	A smooth and well balanced loudspeaker, its minor weakness being a mildly excessive low bass	48x30x26	40	86		•	
hiel SCS	1069	G+	Luxury piano-gloss compact sets class-leading standards for coherence and communication, can sound a shade dark and shut in	40x22x23	45	87		•	
Thiel CS1.2	1219	G	Elegant compact floorstander has fine balance and dynamic range, but transient timing and dynamics are less convincing	94x27x27	30	86		•	
otem Model One	995	G	Utterly delightful but exasperatingly expensive luxury miniature sets the benchmark for its size	31x16.5x23	28	86		•	
/andersteen 2Ce	1395	G+	This compact American floorstander's elegant staggered baffle arrangement contributes to a refreshing freedom from boxiness	100x30.7x25.6	23	87		•	
/isonik David 6001	163		Sharp styling but the complex grillework worsens a sound which starts off with too much top and not enough bottom		130	87			
Wharfedale 425	200		Large bookshelf size 505 heir shows fine control and a conservative balance ideally suited to quality systems on a budget	40x27x26	45	87		•	
Vharfedale Delta 30.2	100		Has a bigger main driver than many, and so packs a bit more welly and loudness. Coloration is rather obvious, but timing is good	38x22x17	48				
Wharfedale CRS3			Loads of fun — a remarkably coherent and lively performer at any price; pity it doesn't look prettier	38x22x18	50	88			
Wharfedale Diamond V	130		This miniature is smoother than most, but rather stodgy with it, inspiring little enthusiasm among our listeners	27x18x20	50				
/amaha YST-SW50	199		Bargain price amplified subwoofer is too small for serious bass freaks, but does a fair job for the price	48x21x33	35	NA			
Yamaha NS 1000M			Living up to its monitor label, and tonally well suited to digital material, it's superbly crafted and capable of high levels	67.5x37.5x32.5		90			
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## **Systems**

ystems is a generic title that we've chosen to describe any form of complete system package. Fundamentally what we're talking about here is midi and mini systems, you know those all singing all dancing, lights blazing systems that hi-fi snobs are allergic to.

Sold on the basis of their abilitiy to play virtually all mediums at the flick of a remote control switch stack systems offer a plethora of features, and the dearer the system the more complex they tend to

become. With things like double cassette decks, multi preset tuners, CD players and graphic equalisers supplied as standard the big boys of the stack world offer such luxuries as Surround Sound, separate chassis for different components and occasionally a record player. They usually have a few line inputs for extra sources and a few are available without loudspeakers. As the latter are often the weakest part of a stack system buying good quality speakers separately will bring

worthwhile improvements. The section headings for stack systems include size of the complete stack without speakers and rated output per channel — where a system has more than two channels this is indicated in the comments. Tuner presets and the existence of a remote control are self explanatory. A blob in loudspeakers shows that they supplied, an "o" indicates that they are optional. The final column is for those of you with records to play.

## **Systems**

			Size: Hyu. Rated Outs	× &	,			
System	5		Size: HAWAD (CM)	Tuner pre	ote con	dspea.	Turntal	Issue No.
Product	£Price	Comments	V S		V	V	V	V
Denon D110/S	870 <b>G</b>	Nearly hi-fi from pretty but pricey silver stack; richer, fuller speakers would help	37x27x33	40	30	•	0	125
Goodmans System 700	600 <b>A</b>	Separates flexibility and upgraeability in remote midi package; anodyne sound	69x35x37	50	20	•	•	• 125
JVC Adagio G7	799 <b>A</b>	Wondrous 2-speaker surround movie sound system, but a very uneven package elsewhere. Four by 20W output	42x28x28	20	40	•	•	125
Kenwood HD-1000	1000 <b>E</b>	Mini lifestyle system, well built with minimalist facilities and exacting performance standards all round	30x27x35	40	30			131
Marantz 1020	1000 <b>G</b>	Component lifestyle system which is as elegant on audition as it is to look at	22x42x32	30	20			131
Onkyo L-909	1200 <b>G</b>	Simple yet flexible lifestyle mini system suffers iffy cassette deck set-up, but otherwise satisfies	38x28x32	40	30	•		131
Philips FW91	999 A+	Good looking and performing package rendered expensive by inclusion of DCC deck	37x26x32	60	30	•		125
Technics SC-CH950	1000 A+	Classy if rather bland allrounder includes useful Dolby Pro-Logic AV capabilities	42x27x34	60	39	•	•	125



### **Tuners**

he radio medium operates at a much lower profile than TV, but in areas outside pop music the BBC service is the envy of the world. Live Prom concerts can rival all other sources from a hi-fi perspective.

Only the FM (VHF) bands give stereo hi-fi sound, though AM (MW & LW) are useful for certain transmissions in the UK.

Something of a hi-fi afterthought, tuners are often selected merely to match a chosen amplifier cosmetically. However, the task they carry out is far from simple, combining the skills of RF (reception) and audio (signal processing) engineering. The importance of the former will depend on local reception conditions, but money invested in a high quality outside aerial system is well spent.

Tuners come in two basic types. Analogue models tune gradually (and usually manually) across the bands, and can have analogue or digital displays; they are often preferred for sound quality, and are certainly best for AM bands. Digital tuners offer convenient automatic tune facilities and pre-

The 'Presets' column heading shows how many different frequencies a tuner can memorise for instant station access. FM, LW and MW shows which wavebands a tuner can access. 'Signal strength meters' are useful for aerial alignment. 'Automatic tuning' means that a tuner can seek out signals for you.

#### Tunors

				Sign	Pal ca	Na	Auto			
Tuners			Presets	M	'w'	Mana My me	yal tuni	Patic tun	Issue ning	No.
Product	£Price	Comments			V					
Aiwa XT-003	120 <b>A-</b>	Economically designed and built in the UK, but trade-offs have a marked influence on FM and AM sound quality.	30	•	٠	•		•	•	93
Aiwa XT-950	150 <b>A</b>	Decent enough performance all round given the modest price, though RF tweaks have limited value	24	٠	•	•	•	٠	•	129
Arcam Delta 280	350 <b>G+</b>	Fine sound quality marred by mild synthesiser whine; RF performance only average, remote £60 extra	20	٠			•	•	•	120
Audiolab 8000T	700 <b>VG</b>	Unusually combines fine sound quality and RF performance (inc AM); superb ergonomics are a joy to use	39	•	٠	•	•	٠	•	120
Aura TU-50	300 <b>G</b>	Tonally neutral, but with rather poor imaging and a certain woodenness to the sound.	16	٠				•		109
Denon TU-260L	120 <b>G+</b>	Bare minimum of features. Careful designwork promises a surprisingly open and vivacious sound, so don't overlook it!	20	•		•		•	•	93
▲ Denon TU-580RD	220 <b>G</b>	Fine feature package including remote and RDS, plus excellent RF performance and decent sound quality	30	•		•	•	•	•	120
Harman Kardon TU9200	219 <b>A</b>	The listening panel appreciated its liveliness, but found it a little muddled.	32	٠		٠		٠	•	109
A Harman Kardon TU9400	299 <b>G+</b>	Striking in appearance and with a sound to match, it comfortably exceeded our expectations. On stereo FM it's HK's best yet.	24	٠		•	•	٠	•	93
Harman Kardon TU9600	499 <b>G</b>	Good bass and detail, and good - perhaps slightly enhanced dynamics	24	٠		•		•	•	109
JVC FX-362	140 <b>A-</b>	Disappointing all round performance — watch out for aerial input overload in strong signal areas. Tuning knob unspecial	40	٠	•	٠		٠	•	129
Kenwood KT2050L	150 <b>A-</b>	Decent RF capabilities despite simple front end. Sounds a bit bright and ergonomics are a bit complex	30	•	٠	•		٠	•	129
Kenwood KT-3050L	170 <b>A</b>	Excellent RF performance and plenty of features including RDS, but did sound rather ordinary under our conditions	39	•	•	•	•	•	•	120
Linn Kremlin	1995 <b>E</b>	Controversially good sound at a very high price. The reviewer's saving up but you should check it out for yourself	80	•			•	•	•	120
▲ Magnum Dynalab FT101	825 <b>G+</b>	· Although expensive for its fairly minimum set of facilities, its excellent sound makes up for what it lacks elsewhere		٠			•	٠		72
Marantz ST-53	170 A+	Sweet sound could well satisfy audiophile sensibilities, but selectivity is not great	59	•	•	٠		٠	•	129
Meridian 604	1350 <b>VG</b>	Unique digital convertor makes most sense in Meridian system context; smooth sweet sound with fine front end	30	•			•	•	•	120
▲ Naim NAT 01	1453 <b>E</b>	There may be better sounding tuners in the world, but we have yet to hear one		•				•		50
▲ Quad FM4	434 <b>G+</b>	Fine sound, excellent ease of use, good build and finish and a more than satisfactory technical performance	7	•			•	•		50
Quad 66	532 <b>G+</b>	· Very pretty and compact but technically unadventurous. Smooth sound but only makes sense in Quad system context	19	•			•	•	•	120
A Rotel RT-930AX	175 <b>G-</b>	A competent rather than exciting performer, with low audible interference though slightly compressed and muddled sound.	20	•	•	•			•	108
Sherwood TX-3010C	120 <b>A</b>	Lots of features and fine RF discrimination for price. Sound is communicative but inconsistently tacky	30	•		•	•	•	•	120
▲ Teac T-X4030	120 <b>A</b>	Not exactly special, but still a well balanced, tolerable and capable allrounder at a very reasonable price	20	•		•		•	•	129
Yamaha TX-350L	130 <b>A-</b>	Enticingly pretty and compact presentation but performance isn't great; beware of aerial overload	40		•	•	•		•	129



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## Turntables – cartridges

artridges fall into two groups: high output models, capable of working directly into most amplifiers and categorised as having a normal (N) output, and more expensive low and very low output models (L, VL). Stereotypically, low output cartridges use the moving coil principle of operation, have better mechanical integrity and tighter tolerances, and give better performance but at much higher cost. With CD now the dominant medium many amplifiers are no longer equipped with the necessary phono input for a cartridge and a separate phono stage is necessary. Valve designs need either an extra head amp or transformer to cope with the low output of moving coil cartridges.

Cartridge/amplifier interfacing can be very subtle, but even basic high output MM designs

benefit in overall balance from optimised amplifier capacitance loading. The mechanical characteristic of cantilever compliance ('springiness') needs to be considered in the light of the effective mass of the tonearm, and to achieve a good match compare the effective mass requirements figures with the actual effective mass of specific arms. 'turntables' and 'tonearms' sections.

## Turntables - cartridaes

Turntak	100	cartridaec	Ve m	•		150	0.
Iurntadi	es -	- cartridges	ive mass (g)	Output	M	Mc Isst	401
Product	<b>£Price</b>	Comments				1000	
Arcam C77	30 A+	A sensible moving magnet package with good bounce at a competitive price	6-16	N	•		
Arcam C77Mg	40 <b>A</b>	Punchy sound quality with plenty of extra energy to liven things up. The solid body seems well worth the extra £10	4-8	N	•		
Arcam E77Mg	60 <b>A</b>	Our sample had a disappointing stylus, but gave a coherent, rich and laid back sound, with good 'scale'	3-8	N	•		
Arcam P77Mg	73 <b>A+</b>	Preferred to its cheaper partner by virtue of a better tip. Channel balance could have been better	4-9	N	•		
Audio Note IO IIV	1395 <b>E</b>	One of the best, giving 'an extraordinarily relaxing midrange clarity', needs a transformer	8-18	VL		•	
Audio-Technica ART1	850 <b>VG</b>	This is a delicate and very fluid-sounding MC that tracks well, offers very low distortion and exceptionally good separation	9-18	L		•	
Audio-Technica AT-420E	36 <b>A</b>	Better suited to pop recordings, this MM bears some of the sonic hallmarks of the Linn K5	7-14	N	•		
Audio-Technica AT-95E	20 <b>A</b>	Clear, dynamic if richly balanced, the magnetic '95E is a definite Best Buy	8-14	N	•		
Audio-Technica OC-5	130 <b>G</b>	For the price, it's unusually effortless and detailed, but it tends to become rather relentless and tiring after a while.	5-14	L		•	
Audioquest AQ 404i-L	500 <b>G+</b>	Slight harshness detracted from the performance of this otherwise clear-sounding and detailed cartridge	8-16	L		•	
Audioquest AQ 7000	1295 <b>G+</b>	Stunning stereo imaging and good detail at low levels are spoiled by less-than-perfect tracking and high sensitivity to arms.	6-20	L		•	
Denon DL103	100 A+	Good performance in bass and general 'life' is seriously let down by its spherical stylus which kills subtle details.	9-22	L		•	
Denon DL110	70 <b>G</b>	Firmly recommended as a fine all-rounder, this high-output MC model is likely to perform well in nearly all circumstances	6-16	N		•	
Denon DL160	90 <b>G</b>	Although listeners just preferred the 110, its brother here proved a twin in lab tests and is still "thoroughly competent"	6-16	N			
Denon DL304	200 <b>VG</b>	Uncolored, detailed, neutral, superb tracking; top notch altogether, and a top notch bargain too.	4-12	L		•	
Dynavector 17D2	298 <b>VG</b>	Clear, detailed, neutral and generally very informative - excellent .	6-18	L		•	
Dynavector XX-1	698 <b>G+</b>	Good, but not immensely competitive at the price, and not helped by comparison with the low output version	7-15	N			
Dynavector XX-1L	698 <b>VG</b>	Very clear, very detailed, no troubles with tracking; response lift around 20kHz seems to do no harm	7-13	L			
Empire Benz Micro MC-Gold	150 <b>G</b>	Nothing is obviously wrong, but nothing is stunningly right either. Safe, but perhaps a little too safe	7-17	L			
Empire Benz Micro MC-Silver	150 <b>G</b>	Ultimately not the peer of the MC Gold is more appropriate to the sort of equipment it's likely to be partnered with	8-18	N			
Empire Benz-Micro MC-3	800 <b>G</b> +	Offers a warmer and very transparent account of the music. Its tracking prowess is slightly limited	5-12	L			
Glanz GMC-10LX	80 A+	Bearing some of the hallmarks of the '10EH, the '10LX is still less competitive in the sonic stakes	7-15	L			
Glanz GMC-20E	129 <b>G</b> +	Very good tracking, smooth sound and good detail. Very slight surface noise enhancement	5-10	L			
Goldring 1012	50 <b>G</b>	Slightly harsh sound but plenty of life and quite good detail. Some very high frequency coloration apparent	6-12	N			
Goldring 1022	70 <b>G</b>	As with 1012, a touch harsh; detail and transient purity improved, though, and it goes well with electric guitar!	5-11	N	•		
Goldring 1042	90 <b>G</b>	Not terribly subtle, and not such good value alongside 1012 and 1022. Quite lively, though	7-12	N			
Goldring Elan	20 A	A lightweight and frisky-sounding MM that appears to be based upon the same body as the Nagaoka mm4	7-15	N			
Goldring Elite	200 <b>G</b>	The basics are right, and it will cheerfully tackle any source material, but its sound possesses a certain dirtiness	8-18	i i			
Goldring Eroica H	100 <b>G</b> -	More confused and coloured than low-output LX, high output less of an issue these days	8-15	N			
Goldring Eroica LX	100 <b>G</b> -		8-14	IN		-	
Goldring Excel	549 <b>G</b>	Not the most subtle cartridge in the world; can sound edgy at times, but lively and informative	6-14	L			
Goldring Excel GS		Errs on the warm and heavy side of neutral. Strong bass lines are its forte, but resolution of subtle treble details is weak	9-20				
DIGGON/III TO THE REAL PROPERTY OF THE PERTY		True high end quality in its lack of colorations, but tracking seems indifferent and high levels tend to sound rough and edgy.		N.			
Linn K5	49 <b>A+</b>	Not as crisply focused as the costlier Linn magnetics, the K5 offers a smoother presentation	7-16	N			
Linn K9	98 <b>G</b>	Linn threw this model into the leading pack by beefing up the Basik's bodywork and adding a super stylus	6-15	N			
London Maroon		Now manufactured under the London brand name this Decca cartridge is as iconoclastic as ever	9-20	N			
London Super Gold	339 <b>A</b> -	Immediate and detailed, but very coloured, very nonlinear and questionable effect on records. Devotees swear by it	9-15	N			
Milltek Aurora		An overall feeling of relaxed ease characterised this clear and atmospheric Kiseki-built cartridge	8-16	N		•	
Ortofon 510		For the price, a good blend of virtues weight, clarity and neutrality.	3-11	N			
Ortofon 520	55 A+	Very sensitive to load capacitance this new Ortofon maintains the company tradition for a lively, effervescent SQ	7-16	N			
Ortofon 530		Very clean and assured sound; transients not quite perfectly pure but plenty of detail.	4-11	N			
Ortofon 540	110 <b>A</b>	Graced with FGII stylus but possessed of too high a compliance for broad arm matching. It could also sound a little unforgiving	3-8	N			
Ortofon MC10 Super	85 <b>G</b>	"What a delightfully sweet-sounding cartridge this is" we said	5-15	L		•	
Ortofon MC15 Super		A good all-rounder, with outstanding performance in detail retrieval, even if it can be very slightly bright and close-up	10-24	L		•	
Ortofon MC3 Turbo	110 <b>G</b>	Not terribly subtle, but it obviously doesn't aim at that. The 3 Turbo is bright, cheerful and bouncy - take it as it comes!	10-24	N		•	
Ortofon MC3000 MkII	950 E	Low levels of body resonance are a real ear-opener. Nothing to criticise elsewhere; one of the very best	9-16	VL		•	
Ortofon MC5000	1500 <b>G</b>	Review sample could not be fully run-in, limited tracking ability, bright and forward sound, though imaging is excellent	12-20	VL		•	
Rega Bias		Difficult to mount in some arms due to its shallow build, the bias offers a gentile, refined SQ	4-10	N	•		
Rega Elys	74 <b>G</b>	Clearly superior to the Bias, despite their common heritage, the Elys is both more detailed, accurate and musically convincing	8-15	N	•		
Roksan Corus Black	130 <b>G</b>	Recognisably related to Corus Blue, but distinctly more civilised and smoother.	7-12	N	•		
Roksan Corus Blue	75 <b>G</b>	Roksan-specified modified Goldring 1012; slight harshness detracts from otherwise good sound.	7-12	N	•		
Shure ME97HE	55 <b>A+</b>	It won't turn a sow's ear of a turntable into a silk purse, but will at least keep going and produce an acceptable result	8-20	N	•		

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#### THE DIRECTORY

## Turntables - cartridaes continued

7	Turntabl	e	5 -	THE DIRECTORY  - cartridges continued	Arm effective mass (g)	Output	m	Mc S	Ssue No.
	Product	£Pri	ce	Comments		100 M		100	
	van den Hul Grasshopper IIIGLA	320	0 <b>E</b>	Undoubtedly one of the finest cartridges available, it has tremendous bandwidth, energy and finesse	6-10	L		•	122
	van den Hul MC One	97	5 <b>G</b> +	This extended all the positive qualities of the '10 but added greater authority and scale worth it for the extra money	6-12	L		•	60
	van den Hul MC One/High	110	0 <b>G</b> +	Slight softening on transients was the only real flaw, but it didn't quite seem to have that special touch one expects	8-15	L			84
$\blacktriangle$	van den Hul MC Two	130	0 <b>G</b> +	Connected directly to any standard MM input it rewards with a highly detailed yet fluid and musically convincing portraya	6-13	B N		•	72
	van den Hul MC10	77	5 <b>G</b> +	A neutral balanced performer giving transparent midrange, fine depth and focus with firm extended bass. Gosh!	5-10	L		•	60
	van den Hul MM1	27	5 <b>G</b> +	If woody midrange coloration could be tamed, the excellent imaging and admirable security would make it excellent	7-15	L		•	103



## **Turntables and tonearms**

pecialist turntables are what high fidelity sound is all about, CD may offer silent backrounds and flat frequency responses but they can't match the dynamics and superlative timing that serious turntable users take for granted. Turntables at the cheaper end of the market (sub-£350) tend to be supplied with matching tonearm, and often include a 'starter' cartridge. Still better quality is found at higher prices amongst the

separate motor units and tonearms. Careful partnering and set-up is essential for these components, but 'sympathetic' combinations exist.

The columns show from left to right, 'arm effective mass' relates to cartridge compatibility with regard to compliance (springiness) and is explained in the 'Cartridges' introduction. 'Suspended suchassis' — decks which have some form of internal isolation, generally in the form of

springs but occasionally more solid materials such as rubber. 'Manual' and 'Automatic' refer to the operational tendencies of the deck/arm combination — automatic high end turntables are as rare as hens teeth. 'Cartridge' — if one is supplied. 'Belt drive' as opposed to direct drive is the preferred method in most quality decks. An 'Electronic PSU' offers switchable speed change and a 'smoother' power supply for better sound.

#### **Turntables**

			42 Sun							
Turntabl		•	Ann effective /	Pass (g)	hassis	Automa,	Cartridge tic	Electron Selt drive	lic PSU	Sue No.
Product	£Price			In the second						
Alphason Sonata/HR100S MCS			Good sound in all areas - bass, clarity and neutrality all in the top class and bettered by very few decks at price	13	٠	•		•	•	79
▲ Dual CS-503-2	160		Not wholly inspiring; generally coarse and wooly sound is at least not offensive, but easily bettered by the CS505-4	10			•	• •		91
▲ Dual CS-505-4	200	A	Consistent sounding and well isolated turntable. It is slightly lacking in balls, compensates with a consistently unmuddled presentation	10			•	• •		103
▲ Kuzma Stabi/Stogi Reference	2000	G+	Beautifully made solid oak plinth, the Stabi also sounds very clear, detailed and extended. Stogi Reference is very capable.	12	•	•		•		91
Linn Basik	299	A+	Strong midband analysis and imagery, clean if sharp treble is matched to a good if occasionally wooden bass	10		•		• •		103
Linn LP12 Basik/Akito	904	G	Trails the full LP12 significantly, but pace, rhythm, timing etc. still in top class, and bass tauter than of old	10	٠	•		•		103
▲ Linn LP12-Lingo/Ekos	2642	G+	The classic reference is improved by the Lingo but charming character remains. Ekos is well made and suited to many decks	9	٠	٠		•	•	91
▲ Michell Gyrodec	697	G	Sweet and natural sounding player, well suited to Rega RB300. Aesthetics, and the acres of clear acrylic are very distinctive	NA	٠	•		•	•	55
▲ Michell Syncro	325	G	A happy blend of qualities endows the stylish Syncro with a blend of subtlety and force - the mailed fist in the velvet glove	NA	٠	•		•		67
▲ Pink Triangle Anniversary	1495	E	Possibly the most detailed, clear and neutral deck around. Likeness to master tape is uncanny	NA	٠	•		•	•	91
▲ Pink Triangle Export	890	E	The PT T00 with built in PS. Retains features of great transparency and neutrality. Review sample had highish motor noise	NA	٠	•		•	•	91
Rega Planar 2	185	G	A remarkable product at the price, surprisingly articulate and confident	11.5		•		•		48
Rega Planar 3	250	G	A long time leader in its category, the '3 (with excellent RB300 arm) sounded nicely 'musical' in a balanced and coherent manner	11.5		•		•		48
▲ Roksan Radius/Tabriz zi	740	G	Design is subtle, refined and easy on the eye. Musically it offers exceptional performance with a minimum of fuss	9		٠		•		103
▲ Systemdek 1.920	235	A-	The motor unit is derivative of the Rega Planar 2 with a Moth arm. Up tempo even bright at times but never lacks enthusiasm	12		•		•		115
▲▲ Systemdek IIX/900	230	G	A high performance budget turntable which is particularly strong at fine detail resolution and imagery	NA	•	•				103
▲ Systemdek IIXE/900AP	388	G+	The acrylic platter'd IIXE is one of the most capable budget decks on the market, good resolution, dynamics and timing	NA	•	•			•	103
▲ Thorens TD-3001/TP90SF	760	G	Excellent middle ranking esoterica, with strong all round abilities rather than excellence in particular areas	NA	•	•		•	•	103
▲▲ Thorens TD166 VI/UK/RB250	280	A-	Refined and articulate sound with well focused imagery, suitable for use with good MM and budget MC cartridges	11.5	•	•		•		103
Thorens TD2001	650	G-	Similar to TD320 but much dearer - why? Sound is comfortable but not very detailed	15	•					91
▲ Voyd 0.5	3368	E	Halfway between standard and Reference Voyds with the latter's platter and bearing. Superb finish, colourful and dynamic sound	NA		•			•	72
▲ Voyd Reference	5950	E	Voyd's flagship, equipped with three substantial motors, a Lexan platter and brute PS. A strong contender for world's best	NA	•	•		•	•	C91
▲ Well Tempered WTAT	1690	G+	Intriguing/challenging design. Musically it is not ideal, but has a limpid quality and a lack of artificiality that sets standards	7.5		•				67

#### Tonearms

Tonearn	nc			Effective mass (9)	Ustr	Parallel trac	<sup>ISSUE</sup> No.
Product	£Price		Comments	**(g)	·IIent	Pivoted Trac	ting No.
▲ Alphason HR100S	490		S-shaped arm sounds smooth, but nevertheless reproduces transients with fine attack	10		•	C86
▲ Kuzma Stogi Reference	1000	VG	Large, solid and well made arm, gives exceptionally clear sound with just a hint of brightness	12		•	79
▲ Linn Ekos	1297	VG	Superb, state of the art design which builds significantly on predecessor Ittok's strengths	9	•	•	67
▲ Moth arm	95	G+	The ultimate budget arm? Refined, detailed, sweet and natural	12		•	60
A Rega RB300	139	VG	Despite its modest price it sets exceptional performance standards and could be used on many high end turntables	11.5		•	60
▲ Roksan Tabriz	190	G+	Targetted at the Xerxes, this is a good alternative to the Rega arms in many cases - a trifle bright	9			91
▲ SME 309	568	VG	Beautifully made and finished, fully adjustable, a highly neutral performer	10		• *	79
▲ SME Series IV	828	VG	Superb engineering and finish with a finely balanced sound, impressive stereo focus and low colouration	10.5		•	60
▲ SME Series V	1233	E	Excellent in all respects, this arm arguably sets the standard for pivoted arms regardless of price	10.5		•	60

## Personal messages

Hi-fi guru Paul Messenger, former editor of *Choice*, takes a close look at a new high-end product from Audiolab which he hopes will lengthen the life of the vinyl disc. The company's *8000PPa* makes a valiant effort to keep analogue addicts loyal.

udiolab is not known for surprises. The company's fortunes are built on the 8000A integrated amplifier. This is a worthy, mid-price product, which has remained cosmetically almost unchanged for 10 years. That it continues to sell better year by year is a credit to the original design concept and its subsequent refinement.

If the 8000Ahas developed an image of middle-of-the-road respectability, the excellent and more expensive 8000T radio tuner, launched in 1993, gave pause for thought about Audiolab's direction and possible achievements.

If the 8000T was a surprise, this brand new 8000PPA is a downright

featured as any such device could be, with two separate inputs which can be configured very precisely to match any MM or MC cartridge, and is crammed with high class components. Not in the signal path, I'm assured, since this is kept deliberately simple, but in all the good housekeeping required to support a decidedly radical circuit configuration.

These days, innovatory analogue circuit designs are rarer than new digital recording formats. This one is certainly unusual — possibly unique — in direct coupling the signal path throughout. It's all done by means of DC servo circuits with complex micro-processor controlled time constants to keep everything stable and under control.



strain, the oodles of detail, and a remarkable opening up of the soundstage.

It has always seemed strange that my box-less (flush wall-mounted Tannoy dual-concentric drivers) speakers still had a modest residual 'boxy' coloration. When I substituted the 8000PPA for my regular (Naim) phono stage, the boxy character seemed considerably reduced, and the image became altogether bigger, wider and more disembodied.

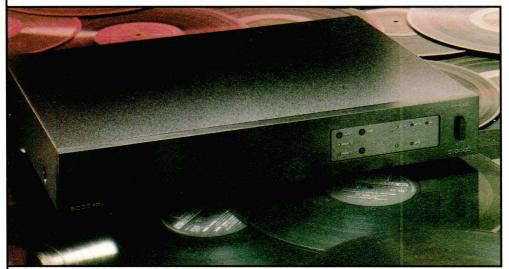
Which doesn't mean I'm going to urge everyone to rush out and buy the Audiolab. Like any product with state-of-the-art pretentions, this is very much a listen-before-you-buy proposition, and I'm certainly not guaranteeing it will appeal to all tastes or systems. Although it only took a couple of minutes to figure out what I did like about the *PPA*, it took until the third day to figure out what was also leaving me uneasy.

The sound is a little too unruffled and over-controlled, through the mid and treble especially. With hindsight, one reason I'd been playing it so loud was to compensate for the lack of real bite and drama.

Simply for its services in expanding the vinyl disc's horizons, the 8000PPA deserves a medal, and is destined to pick up review accolades worldwide. But like any seriously good hi-ficomponent, it all comes down to the art of compromise in the end — specifically how well the balancing act adopted here blends in with the other components of a serious system, and the tastes of the listener.

I can't see the horn'n'triode league going a bundleon it, nor the Linn/Naim set for that matter, but those seeking stunning out-of-the-box stereophony and exceptionally low coloration should bend an ear in this direction.

Most tellingly, the *PPA* has a distinctly CD-like quality. Which is both good and bad, as CD fans regard the medium's sonic strengths as no less important than its convenience. This Audiolab may not remotely control your record playing, but it can still make your vinyl sound better than your CDs, while achieving a unusual consistency of character between the two.



improbability. It's a standalone amplifier phono stage whose only task is to receive, boost and equalise the output of vinyl disc cartridges, and feed a flat line level stereo signal to a preamp's lineinput. This isn't just a little gadget

Mad idealism or a sane business venture? For the 8000PPA, only time will tell.

And this is 1994, several years after vinyl discs were supposed to be comfortably dead and buried. So what does Audiolab think it's up to?

to clutter up the shelves of those who

refuse to fall in and buyCDs. It's at least

the size and weight of an 8000A, and

sells for a startlingly upmarket £800.

Idealism is part of the motivation. This is intended to be the definitive phono stage, according to Audiolab. It's as fully

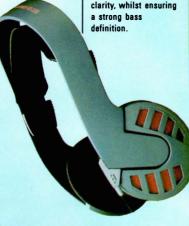
The *PPA* also represents a toe-in-thewater for this new approach. A linelevel preamplifier is well on the way,
and other relatively high-end
Audiolabs may follow in due course.

Direct coupling should promise superior bass performance, and in this respect the *PPA* is unlike anything I've heard in recent memory. It delivers extraordinary slam and drive with prodigious extension and consummate control. There were two immediate repercussions. The first was to start digging out all my killer bass albums and become well and truly impressed. The second was to wind the volume up to near clip levels and enjoy the lack of

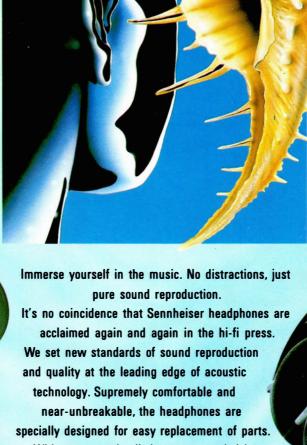
## The highest fidelity. Naturally.



**HD 320** Part of the new generation of dynamic hi-fi stereo headphones, the HD 320 has ergonomic styling with a sound quality that is designed to optimise transparency and clarity, whilst ensuring a strong bass



HD 560 II "A detailed and open headphone with the ability to recreate the power and depth in a piece of music." Hi-Fi Choice Oct 91.



With accurate, detailed response and rich pure tone, recreate the eloquence of the instruments, the vitality of the vocals. Whatever your taste in music you'll appreciate the transparent natural sound quality, balanced by a wide dynamic range. Now prove it. Try out our headphones for yourself. You'll be convinced. Naturally.

**HD 340** A headphone which produces a roomy and detailed sound whilst incorporating high quality in its design making it lightweight and comfortable to





The European Loudspeaker System of the Year