

**BEST SPEAKERS UNDER £500** 

BEST **CD PLAYERS UNDER £200** 

M

EXCLUSIVE

**QUAD'S SPACE AGE** 

amps and record decks

-00 --!!!! for home recording

**32 PAGE BUYER'S GU** 





February 1995 No. 139



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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.

Watch out for this logo. It is your guarantee of quality.

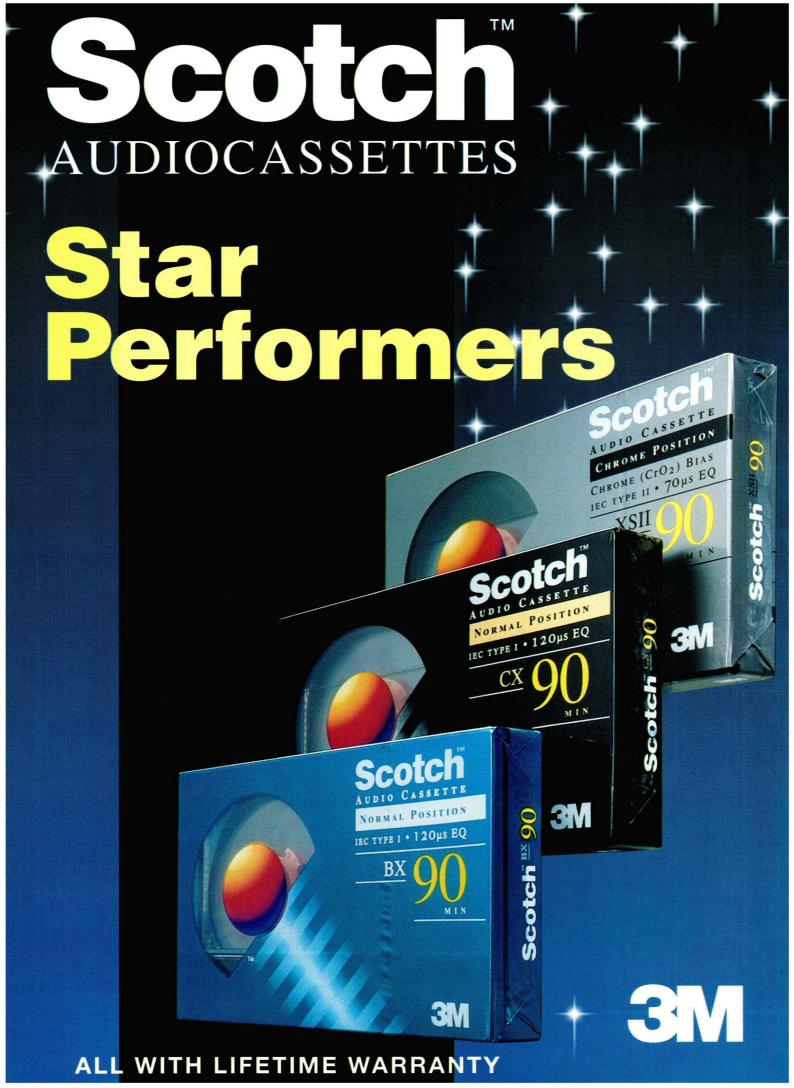
Recommended products are also very good, but not quite in the same league as Best Buys. Despite being runners up, they are still definitely worth considering, as they may prove more compatible in some systems.













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## EDITORIAL FAX: 0171-323 3547

E-MAIL:100433.1130 @compuserve.com

If you wish to contact us, please write, fax or send e-mail. We can't give personal answers to unsolicited 'phone-calls or queries

> Editor-In-Chief Stan Vincent Consultant Editor Paul Messenger Deputy Editor Jason Kennedy Art Editor Asim Syed Reviews Editor Alan Sircom **Production** Gary Cockburn

Contributors Richard Black, Eric Braithwaite, Barry Fox, Alvin Gold, Jimmy Hughes, Paul Miller, Malcolm Steward Photography Chris Richardson

## ADVERTISING

TEL: 0171-631 1433 > FAX: 0171-636 1640 Group Advertisement Manager Rob Debenham Sales Executives Marcella Smith, Jennifer Phillips

## **PRODUCTION**

TEL: 0171-631 1433 > FAX: 0171-580 6430 **Group Production Manager** Simon Maggs Advertisement Production Jane Shepherd

**CIRCULATION & PROMOTIONS** TEL: 0171-631 1433 > FAX: 0171-636 5668 **Circulation Director** Sean Farmer Circulation Manager James Burnay Mail Order Manager Julia French Marketing Manager Paula Nulty

DENNIS PUBLISHING LTD Publisher Alison Townsend **Group Publisher** Eric Fuller Managing Director Alistair Ramsay Chairman Felix Dennis

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**CHOICE WORDS** 

## New wine in old bottles

his month you find me wrestling with deep philosophical questions of matters old and new. What's new? Micro-chip technology, I guess, and nowhere is there more proof of this than in the latest bunch of budget CD players that we've been testing this month.

What's interests me is the proportion of players whose innards are squeezed onto fewer and fewer microchips, all in the name of lower prices. I feel this is yet more vindication for the old chestnut that CD's real impact was not as a new super-highquality music carrier; instead, I believe its greatest contribution was to raise the basic standard of replay for inexpensive systems.

Why? Well, the process of LP reproduction was always a problem that responded to mechanical engineering solutions, ever greater degrees of tolerance and integrity, which, for the most part, improved as money was thrown at them. Hence the former cult of the high-end turntable, which premium manufacturers are trying to resurrect for CD.

But CD is a more complex beast to tame. And there is no guarantee that its feathers can be unruffled by large doses of cash, which poses a problem for exotic hi-fi's traditional reliance on added value. It seems increasingly true that less is more in CD: look deep among the many parameters of CD replay, find the ones which really matter, get them right - then worry about doing the fancy stuff later.

What's scary is that it's taken ten years to realise how little we know of the tortuous electronic pathways between digital music software and analogue squiggles of sound. Yet on the morning just before Christmas when I write this, the cards in my postbag are joined by the press release outlining Philips' and Sony's proposals for a new 'Multimedia CD' - one of whose implications is 'ultrahigh-sound-quality audio.' A whole new ballgame is about to begin before we've learned all the rules of the first one. Even in this month's test, some players struggled to achieve the 16-bit performance you have a right to expect. They're budget designs, yes, but what does it say for the format?

While you'd be excused for thinking CD has a strangle-hold on new music, an old format is making a striking comeback right at the cutting edge of London's trendiest new music scene. This is the 'ambient musical science' or 'trip hop' movement centred around Mo' Wax, an independent record label run by 20-year-old, ex-club-DJ James Lavelle. This guy is young enough to have grown up with CD, but he's also matured alongside club culture, where the favoured medium is vinyl. And you'll have to believe me if I tell you his plastic is drastic.

Of the label's 20 releases in '94, one of the most seminal was a collection called Headz, a multi-faceted compilation of laid-back but utterly compelling sounds. On vinyl, what could have been a comfortable double album arrived as a lavish triple, allowing for a meaty groove-cut offering even the finest audiophile needle a spin for its money.

The best part, however, is that these discs have real-world price-tags. Headz, for example, comes in at just £10.99 - three chunks of lacquer for just 70 percent of what you'd pay for a single new CD. Mo' Wax doubles are an even better bet, at a paltry £8.99 each. It comes as no surprise that they're shifting like hot cakes - in the US as well as in chic UK record emporia.

So if a 20-year-old upstart can run a profitable business putting out good-quality vinyl at sensible prices, is it too much to ask that the Japanese-owned record conglomerates do the same?

Daft question, really; but since psychics are predicting that Maggie Thatcher will be re-elected leader of a Conservative party in opposition during '95, I'll keep my fingers

crossed for a resurgence in vinyl. If only to laugh at the sad gits who flogged all their LPs only to buy them again on CD...

Stan Vincent. **Editor** 



As reported by our man on the hi-fi frontline, Malcolm Steward.



NAD's THX-approved 216: it's gotta lotta Watts

AD is muscling in on the big power-amp market, with new models 214 and 216. The £350 214 delivers 8oWpc continuous power into eight Ohm loads, or a whopping dynamic power peak of 250Wpc into a two Ohm load. When it comes to the THX-certified, £450 model 216, a passable imitation of a generating hall results in 125Wpc continuous power into eight Ohms and a dynamic power rating claimed to be a coil crunching 400Wpc into two Ohms. Both amps can be bridged for even greater pyrotechnics, should that be necessary.

Under the hood of both amps there's dual-mono construction with mirror-image PCBs, and protection against short circuits, DC and overheating.

**2** 0181-343 3240

## orm an orderly

hree years ago Audiolab set out to design an amplifier that was totally free of coupling capacitors, a quest that led to the company's Zq technology, first seen last year in the 8000PPA phono preamplifier. Zq reappears in the new, line-level 8000Q preamplifier.

Though intended to be a more purist design than the existing 8000C preamplifier, the 8000Q (£1,000) still offers six inputs, three tape outputs, a directcoupled headphone output and two sets of regular outputs. Input selection,

motorised-pot volume control and muting are handled by infra-red remote, while signals are relayswitched - all these are claimed to be sound-improving measures.

Zq is intended to obviate transient noise in DC-coupled amps caused by input switching or changed volume settings. In the 8000Q, Audiolab claims input, feedback and servo signals are combined with no interaction, causing neither noise nor coloration.

**2** (01480) 52521



## stand

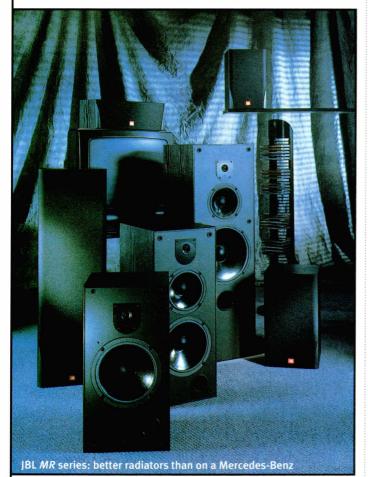
udos Audio's *S50* and *S100* speaker stands aim to combine stability and good looks. Three-point-spiked floor contact is achieved through substantial, triangular, steel (550) or polymercomposite (S100) bases, and the rectangular-section top-plates are also adjustably spiked. The two sections fix to the central pillar using a pre-tensioned rod, obviating welding and its consequent sonic complications.

Standard heights for both models are 18 and 24 inches, but other sizes are available to order. Suggested retail prices are £100 for the S50 and £270 for the \$100.

**2** (01732) 461648



# JBL's big bottom



arth-shaking vibes in the area as JBL unveils the new *PS* range of compact powered subwoofers, and MR series of budget speakers.

The three PS subs offer a combination of new technology and active equalisation. Prices range from £399 for the 50-Watt PS60, to £599 for PS120, which uses a 300mm driver to generate 120 flareflapping Watts.

All models have adjustable crossover frequency and output levels, along with line- and speakerlevel inputs, satellite speaker outputs and polarity inversion. Each is magnetically shielded for AV use, and has a signal-sensing circuit to provide automatic

The MR monicker, meanwhile, stands for Maximum Radiating speakers. The line-up features two magnetically-

switch-on and off.

shielded, floor-standing threeways: the £379 MRV308 and £479 MRV310. The rest of the range comprises five bookshelf models priced from £99 to £279 - all except the least expensive benefit from composite titanium tweeters.

JBL parent Harman Audio also has a wide selection of new components under the harman/kardon brand. The long list of new arrivals includes a tuner, three remote-controlled receivers, a five-disc CD changer, cassette deck, five integrated amplifiers, two AV receivers and an AV integrated amplifier. Look out for reviews in Choice soon! 2 0181-207 5050

harman/kardon's new hk 610

## Going for Platinum

x-patriate bilitation agree guru Phil Jones has designed a range of full-metal-diaphragm speakers under the aegis of a new company, Platinum Audio.

There are three new models that aim to put Platinum on the high-end map. All deploy proprietary five-inch alloy diaphragm woofers with oversized motors and substantial castings, plus domed tweeters with damped magnet systems. The heavyweight satin-rosewood and piano-black finished enclosures gain added strength from Jones's trademark method of clamping the bass driver from the rear.

The \$2499 Solo, \$3795 Duo and \$5995 Quattro had only dollar prices at the time of going to press, since a UK distributor was still being sought

- more news after the Vegas show. Historical footnote: Phil Jones designed the miniature, cult-classic Acoustic Energy AE1, then left the UK to create the equally innovative Boston Acoustics Lynnfield models. **2** 00 1 603 647-7586

## More speakers from space

he new Wharfedale Modus One-Three might look like a UFO bathroom accessory, but is in fact a 59-litre, floor-standing, three-way loudspeaker which uses 'staggered tuning' of reflex ports in the name of 'fast, powerful bass'. Styled to match Wharfedale's Modus range, the One-Three features the characteristic topmounted tweeter globe, plus bi-wire facilities, spikes, and a black ash/anthracite finish. A pair will cost 440 of your Earth Pounds.

Second new Wharfedale speaker is the Diamond 6R. Outwardly unchanged, the latest iteration of the long-standing miniature uses a new, refined-fibre bass-driver cone for better midrange performance. Price is unchanged at £110.

Finally, Wharfedale's parent, the Verity Group, has acquired another musical business: along with Wharfedale and Mission it now owns Premier drums. Clearly the company is on a roll. Boom boom. **2** (0113) 260 1222

## IN BR

Amplifier manufacturer Densen has appointed Ipswich-based loudspeaker specialists Morel as the sole UK distributor. First product on sale is the £1299 DM-10, a 70-Watt, six-input, line-level integrated sans feedback, which is claimed to be capable of driving loads as low as one Ohm. Add-on phono modules cost £149 (mm) and £299 (mc). 2 01473 719212

The **Bush** *R701* Wireless combines 30s charm with modern IC-based AM/FM reception. The cabinet is solid, varnished wood, complete with a traditional, circular, matchneedled, illuminated dial; plus separate band selector, tuning and volume controls. The internal speaker is larger than average, and the whole nostalgic package costs a mere £50. 2 (01923) 859777

Denon's Alpha processingconversion technology, first seen in the £6500 DA-S1 DAC, has arrived in the UK at the more realistic price of £350. You can check out Alpha's real 20-bit DACs in the new Denon DCD-1015 CD player. **2** (01753) 880109

Orelle has announced its new DA-188 'Open Window' DAC. On sale now for £379, the DA-188 uses an 18-bit, 8x oversampling chipset, and is intended as a budget CD player upgrade. Optical and coaxial inputs are both available. **2** (0181) 810 9388

Moth's modular Thirty Series amplifier range has grown with the addition of a new active line stage and a line-level integrated amp. The active line stage is available with (£299) or without (£199) an external 100VA high-current power supply; both pieces are housed in timber-fronted aluminium cases. The new 30W integrated has eight line-level inputs and costs £320. Eight different timber fronts are available. 2 (01234) 741152

Sequence has added a sub-woofer to its range of distinctive, panelstyle speakers. In keeping with the its siblings, the new £300 SW12 is a wall-mountable design, being just four inches deep, but it can also be placed on the floor, or leant against the wall, using an optional accessory kit. Within there are two 18cm long-throw woofers, plus switchable high-pass filters and variable bass-reflex tuning. 2 (01943) 864930

QUDOS is a new 'Balanced Design Concept' speaker cable from QED. Priced at £2 per metre, it uses 79 strands of oxygen-free, highconductivity copper sheathed within a polyethylene dielectric. Accompanying the cable there's a new 4mm speaker connector, Airloc (£2 each), which features 'hexagonal crimp termination' said by the company to be better than either screw or soldered joints, providing lower resistance and better long-term performance. **2** (01276) 451166

## THE AMPLIFIER FOR PURISTS



In order that you may fully enjoy the pleasures of digital sound, we re-evaluated every aspect of amplifier design.

The result is the AX-A662XBK. An amplifier that virtually eliminates noise and interference, especially crosstalk.

Unlike conventional designs, our high-precision differential amp cancels noise signals at each stage from the CD input to the power amp.

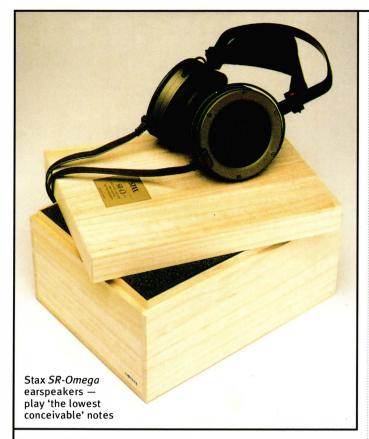
So only the signal is amplified, not the noise.

What's more, instead of the usual electronic and rotary switches, high grade relays are used to switch inputs and speakers, allowing the music signal to run over the shortest possible distance, making it less prone to degradation and interference.

All interference, especially crosstalk is further minimised because the left and right channels have separate circuits and heat sinks.

The JVC AX-A662XBK. A radical departure from conventional designs - the welcome arrival of the purest sound around.





## Stax attacks

ot £1695 in your back pocket? You can now dispose of that troublesome bulge by investing in "the most acoustically-transparent transducer available today".

That modest-sounding device is the Stax SR-Omega headphone, a circumaural electrostatic device which has been five years in the making. It uses circular diaphragms 50 per cent larger than those in Stax's SR-Lambda and SR-Sigma models, enabling the Omega to easily reproduce the "lowest conceivable" musical notes.

The diaphragm assembly also includes a gold-plated, high-purity, copper-mesh electrode to drive the 1.4 micron diaphragm. All fitted into a housing milled from anodised, aircraft-grade aluminium.

The Omega's PC-OCC cable is heavier than on previous models—each lead is individually cast to maintain its crystal structure. The 'phones, or 'earspeakers' as Stax prefers to call them, come in a Paulownia wood case that doubles as a handy cigar humidor.

## Sumo back

he Californian Sumo brand is back in the UK, courtesy of Audusa & Co. They'll be importing Sumo's power amps, preamps and a transport/DAC combination.

Power amps include two class A models: *The Ten* (100W, £2834) and *The Five* (60W, £1784); plus the class A/B *Andromeda III* (£1784),

Sumo's Axiom and Theorem

Polaris III (£891) and Ulysses II (£629). Preamps include the two-box Diana (£1469) and the remote controlled Artemis (£1574). There's a DAC module for the Diana at £524.

On the CD front Sumo offers the Axiom transport (£781) and the Theorem DAC (£875). Both units have AES/EBU connections and the Theorem DAC has class A analogue stages.

Strangely, Audusa hasn't mentioned Sumo's dedicated subwoofer-crossover, the *Delilah*. All we can ask is: why, why, why...?! 20181-395 0793

## Delta force

ancy a cost-effective upgrade for your Arcam *Delta 290* integrated? You could do worse than try the *Delta 290P* power amp. This new 75-Watter retails for £400 and uses the same high-current power amp stages used in the 290, making it ideal for moving from a bi-wired to a bi-amped system with the 290 driving the tweeters and the 290P driving the bass/midrange units.

The *Delta 290P* is equally suitable for use with other manufacturers' preamps — two independently-switched pairs of speaker outlets mean it can be used for multi-room or multiple-speaker applications.

If you buy a 290P before the end of March it'll come with a free set of o.6m Audio Quest Emerald interconnects, worth over £100.

(01223) 861550



## Tubes 'n' vinyl alert

udio Innovations has introduced a £299 phono amplifier. The valve-based P1 is compatible with moving magnet and high-output moving coil cartridges, but owners of low-output moving coils will need an additional step-up device such as Audio Innovations' T1 transformer.

The P1, which uses double triodes in a simple anode follower configuration, eschews negative feedback and features a passive RIAA equalisation circuit.

2 (01305) 761017

Audio Innovations' P1 phono amplifier has valves, you know



## IN BRIEF

Bravura has launched the Accelerando, a new £5500 horn loudspeaker based on the £4750 Brio. Suited to corner placement, the Accelerando uses a single Lowther PM2a driver in each cabinet. With a sensitivity figure of 102dB, the speaker promises an amplifier-friendly load, and claims to produce more extended treble, more forward bass and a faster response than the Brio. 

② (01732) 851408

B&W's new P Series speakers all floorstanders — all feature Kevlar bass/midrange drivers, and styling by the design company Pentagram. Top-of-the-range P6 (£999) is a three-way with freefield, metal-dome HF unit mounted externally on top of the cabinet. *P5* (£799) is another three-way, but with a conventionally-placed tweeter, while the £599 P4 is the smallest of the bunch, being an 81cm-tall two-way. Available in rosenut, black ash and cherry veneers, all speakers are reflexloaded, high sensitivity designs. **☎** (01903) 750750

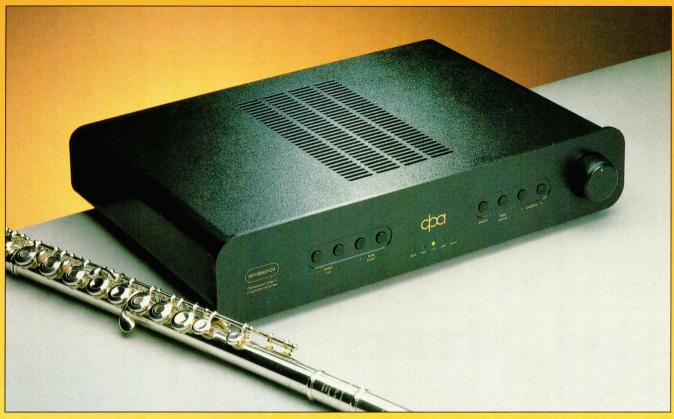
Mission has scooped two awards with a difference. First it was named Manufacturer of The Year at the Manufacturing Industry Achievement Awards, sponsored by Omron and Morgan Grampian; then it won Commerce Business Magazine's Company of The Year award for the East Anglian Region. Good show, chaps.

Increasing demand for JVC's televisions and Adagio mini hi-fi systems has prompted the company to spend £9.2 million expanding its Scottish factory. A further 155 jobs will be created as a result. 20 0181-450 3282

Sound & Vision '95 will take place at the Bristol Marriot Hotel, starting 11am on Friday 24 February. The show runs until 5pm on Sunday 26 February, and there are ticket deals for couples, plus free admission for children under 16 years of age. Special deals are promised on hardware sold at the show (ten per cent discount on most purchases) plus a record-token promotion for buyers.

On sale in the New Year: a whole host of new speakers using Bandor's miniature, aluminium-anodised drive units. The transmission-loaded Bandoline 30 (approx. £1600 per pair) and 20 (approx. £1800 per pair) have been designed to exploit the Bandor 150mm bass driver. The Bandora (approx. £900) is a full-range compact speaker system with 2-inch and 4-inch cones, which can be augmented by the *Mora* bass unit (£1800). Last but least are the Bandor Pictures (approx. £300): a 2-inch Bandor driver, mounted in a ceramic/wooden frame, which mounts on the wall for high-quality but discreet sound. **2** 0494 714058

## To boldly go where no Hi-Fi has gone before



The Renaissance integrated amplifier - packed full of dpa innovations that redefine integrated amplifier perfrmance.

magine being able to perceive subtle nuances and delicate details; and then exhilarating dynamics and power.

magine high performance electronics, advanced innovative design and construction.

magine all of the above but at an affordable price. Impossible? Not after you have experienced the Renaissance Integrated amp, CD player or DAC. Which explains why Hi-Fi World recently said of the integrated amp "the new Renaissance is difficult to beat in its composure, clarity and openness. It has a gentleness born of refinement, with superb stereo staging and imaging. I'd rate it very, very highly for serious listeners."

Renaissance - affordable High-End reborn



# NEXT MONS. I CHOOSE TABLETS OF STONE FOR THE CHOICE-EN PEOPLE

## AND IT CAME TO PASS...

...that March shall be the month of Amplifiers. Eight shall be the number that are tested, and the number that are tested shall be eight. And they shall come from all corners of the world, and Brighton in the case of Onix. Will DPA smite the mighty Audiolab; and will the Mission lie down with the Musical Fidelity?

## LO!

The *TapeTapeTape* supplement begat cassette recorders. And they were many and numerous. If thine tape machine turns flutter to whine, cast it aside. Read of our testing, or feel the wrath of our head azimuth. The Recording Meters of Might will speak forth, casting their judgement upon Aiwa, Denon, harman/kardon and others.

## **VERILY...**

...will thee witness the miracle of three-channel stereo. Stare agog at the ultimate in home entertainment. Doubt not the might of Huntingdon as a multitude of reviewers are seen feeding the Meridian Digital Theatre: a system so loud and realistic, it will tear down the Walls of Jericho.

## **FORSOOTH**

In Sessions, no plagues of frogs or locusts, but the pages shall rain down with the newest, finest hi-fi. Its end shall be single and its glass shall be triode — Gamma's new *Gemini* integrated amplifier is cheap enough to keep the money-changers at bay.

## PLUS: A FREE GIFT!

Which shall be called Pocket Power! Your guide to all the best personal CD players, and the accessories you'll need to become a qualified Mobile Audiophile.

March 1995 issue on-sale Friday March 10



Not an advanced plant stand, but part of Meridian's amazing Digital Theatre system — exclusive in-depth review next month!



Mission's Cyrus III amp — in next month's group test

## Choice 55()

It might be the coldest month of the year, but these new goodies will keep your ears warm.

- Improves upon the Alpha 5 performance; greater imagery and clarity.
- Those seeking the relaxed performance of the earliest Alphas may not approve.

ver since Trichord released its Clock 2 ■ modification for CD players, it seems that every other company has been looking to cash in by incorporating their own circuits to improve timing. Take Arcam: it's just upgraded the evergreen Alpha once more, labelling it the Alpha 5 plus. The 'plus' modifications push many things forward, including the price (up by £20 to £470), but the main differences are on the new audio board. This features an improved clock circuit with a

discrete oscillator. Arcam also reclocks the data between chips, which is claimed to reduce data

Arcam has performed minor tweaks to the power supply and circuit layout. However, you can only go so far with the existing chipset on the Alpha 5, which is now getting decidedly long in the tooth, so it's likely that the next improvements to the Alpha 5 will be more substantial.

I compared the Alpha 5 to the Alpha 5 plus at Central London's KJ West One. Sonically, the plus is a subtle, yet significant improvement over the Alpha 5. The new model has improved low-level detail retrieval, which readily manifests itself on the intros of tracks on the Cowboy Junkies' Trinity Sessions CD.

Separation of instruments gives the Alpha 5 plus a cleaner, slightly cooler balance than the Alpha 5, but as the original was almost too warm, this is no bad thing. On Break And Enter, by The

Prodigy, the Alpha 5 plus sounds more informative and coherent, while also less muddy and less indistinct. The soundstaging is better; there is still the characteristic lack of image depth that only the finest CD players can overcome, but at least there is some image depth.

I've always liked the giantkilling Arcam *Alpha* – in many ways it offers the best balance of sound and value around. Of late, though, its crown started to slip thanks to heavy competition from companies like Micromega. The Alpha 5 plus pitches Arcam right back up there as the leader of the pack.

A retrofit upgrade will be available to Alpha 5 owners for a shade under £100.

## Alan Sircom

A&R Cambridge Ltd, Pembroke Avenue, Denny Industrial Centre, Waterbeach, Cambridge CB5 9PB.

**☎** (01223) 440964

- Lively first rung on the high-end audio ladder; impressively light, yet refined and detailed musical performance; solid build.
- 🚫 Some purists will balk at hybrid technology (more fool them!).

he trouble with valve amplifiers is that they are large, heavy and expensive. Meet the Copland CSA 14: it's small, light and relatively cheap. But it's not a valve amplifier—well, almost.

The £999 CSA 14 is the first integrated amplifier from Copland that doesn't exclusively sport 'hollow state' technology, and it's a real honey. Using triodes at the point where the





preamp and power amp stages meet — and nowhere else — sets the Copland amp apart from every other valve/solid state hybrid on the market (most use tube gain stages in either the preamp or power amp sections alone, to add a bit of warmth to the amp sound).

Despite the move towards solid-state and the low price, neither the sound nor the superb build quality associated with this Swedish company have been compromised. The CSA 14 still sports the classic Cello-like front panel dials and is built like it could be used for battlefield hi-fi reproduction. Indeed, the latest versions of the amp are being fitted with the military-spec Sovtek valves from Russia.

It has a light, delicate tonal balance that is perfectly suited to drive smaller speakers. In addition to my usual ProAc Response One 'S' speakers, I used the CSA 14 with a pair of Sonus Faber Minima Amators with great success. Refinement is the word that keeps reoccurring when it comes to the CSA 14, whether on MM phono or line input: refinement of image, presenting a soundstage that is never out of kilter; refinement of detail, revealing much about a recording without the feeling of music being laid bare; and refinement of coherence, playing admirably loud when required, but still hanging together with consummate style and grace.

The Copland CSA 14 is an exercise in sophistication. Reviewers often recommend products in isolation, while end users, naturally enough,

tend to look at products like the CSA 14 as part of a system. However, in this case, I can happily suggest that simply combining the amp with a decent £1,000+ CD player or turntable, a pair of Sonus Faber Minima Amators and some pukka cables will give a comparatively inexpensive system with its feet firmly placed in the high-end. It's packed with refinement and detail, yet still has a sense of fun and is capable of letting rip with heavy rock when required.

## Alan Sircom

Absolute Sounds Ltd, 58 Durham Road, London SW20 0DE. ☎ 0181-947 5047

## TURNTABLE MAT

## QR Developments Ringmat MkII

Improves clarity, detail, and dynamics.

Fine adjustment of arm height may be needed for optimum results.

ne of the most interesting and unusual accessories available for those still playing LPs is QR Developments' Ringmat. Made from a thin piece of card with strategically placed cork rings to support the record, it's intended to replace your existing turntable mat. But it can also be used successfully with decks that don't have a mat—like Voyd, Pink Triangle, Michell, etc.

QR Developments' original Ringmat was introduced about two years ago and received a good response from press and public alike. I found it most effective, and felt that it gave improvements in clarity and fine detail that ordinarily you'd have to spend much more money to obtain.

Essentially, it helps give LPs the kind of firmness and stability normally only available from master tapes. It improves clarity and dynamic range, resulting in a sharper, more tactile presentation. Some listeners found that the original mat could sound over-bright, but any problems here can usually be eliminated by lowering the arm height.

QR's John Rogers has now come up with a MkII version of the *Ringmat*. This looks fairly similar, but the 'mat' is made from more flexible card and there's an extra cork ring on the underside. Given the excellence of the original *Ringmat*, I was a bit sceptical about whether or not the MkII would provide a worthwhile improvement — it did!

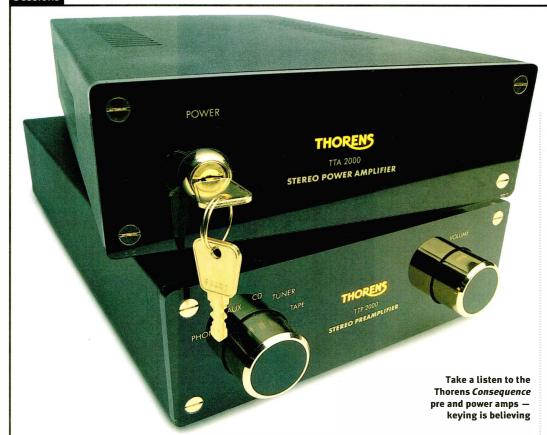
The new mat is essentially similar to the original, but clarity and fine detail are further enhanced, and the bass is slightly firmer. Put on an LP of complex synthesiser music, and the sound is even cleaner and better-sorted. It sounds as if the stylus is tracking the grooves more comfortably, leading to a firmer stereo image.

Because of this, I believe that extended use of the Ringmat should help increase cartridge life by lowering stylus wear. This MkII version of the Ringmat costs £40, an increase of £5 over its predecessor (still available at £35 while stocks last). I know that I could be happy with either, but feel that the MkII is worth the extra cost in terms of its improved performance.

## Jimmy Hughes

Virtual Reality, PO Box 383, Brentwood, Essex CM14 4GB. ☎ (01277) 227355





## PRE/POWER AMPLIFIERS Thorens Consequence

PRICE: £1,050

- Superbly built pre/power combo; solid, weighty and highly controlled sound.
- **Preamp needs better PSU** to get the best from the power amp.

o the start-up key is a bit too kitsch for most tastes – it's hard to resist the temptation to make 'Vroom, Vroom' noises when vou turn it on – but there's no denying that the Thorens Consequence pre/power amps really look the business. Finished in black with gold relief, sporting front-panel displays that light the central Thorens logo on each section, these half-sized amplifiers look far more elegant than the price tags would suggest.

The five-input £500 TTP 2000 preamp and 35W £550 TTA 2000 power amp are every bit as wellmade internally. Both amps look set to give years of work-horse use with little reason for complaint, but plenty of heat. The power amp is biased to run in Class A for its first 11 watts, and is therefore seriously hot to

the touch. Once the ignition is fired the same box also feeds mains to the preamp, which itself takes hours to warm up buyers are in for a torrid time. (The preamp has its own power supply, though with a rather small transformer, and is only supplied with a link to the power amp rather than to a standard mains socket.)

These are entirely minimalist amps, even eschewing channel balance and tape monitoring in the pursuit of better sound. That said, it is likely that by the time you read this the preamp will have been upgraded to include remote control. Another highly commendable attribute is the mains phase lamp just below the power inlet of both the pre and power amplifiers. This can determine whether both products have the correct mains polarity.

First impressions are of an amplifier blessed with plenty of control, especially for such an inexpensive, yet well-made, pre/power combination. Stereo imagery is pleasantly wide, but gives the impression of a rather narrow soundstage just to the rear of the speakers. There is a slight lack of coherence and finery to the overall musical performance, but this must be set against the palpable sense

of solidity and realistic scale to the instruments played.

Maybe I couldn't get the Naim-sized boxes or the glowing logos out of my mind, but I felt very positive toward the rhythmic qualities of this Teutonic Twosome, although a Naim combo would certainly out-perform the Thorens in this important aspect. However, the Thorens has a warmer, more comfortable balance than many solid-state amps.

Unsurprisingly for a company with a vast history in turntables, the MM disc stage is very precise, detailed, clear and every bit as competent as the line stages. Switching over to moving coil cartridge was less rewarding, however. My advice would be to use a cheap and light-sounding MC, or invest in a decent step-up transformer.

On the whole, this is a fine duo. The preamp is in desperate need of a decent power supply, though, and my feeling is that it shouldn't be used fed from the power amp. But this shouldn't detract from the excellent build and sense of control it offers. Just don't lose those keys! Alan Sircom

Portfolio Marketing, PO Box 442, Great Missenden, Buckinghamshire HP16 0JB. 22 (01494) 890277

## LOUDSPEAKER

- **Extremely musical and** communicative speaker that's fun to listen to.
- Front grille not the last word in aesthetics.

n almost total absence of press activity surrounded the £595 Sorcerer launch, and it seems that many reviewers and potential customers too, presumably - are still unaware of the speaker's existence. The Sorcerer is a seven-litre bookshelf speaker. Traditionally, such small Royd enclosures were all infinite baffle (sealed box) designs; the Sorcerer breaks this mould with the addition of a front port.

The port goes some way toward extending the bass down to a claimed 35Hz, while still maintaining an easy eight-Ohm impedance and a suggested sensitivity of 86dB. The Sorcerers need a lengthy run-in and, according to Royd, will only perform at their best above 15°C. Once they settle in, the bass fills out and they sound more musical and alive. They are designed to work close to a rear wall, so holographic soundstaging and image depth are not priorities. Instead, you're blessed with a vivid, up-tempo performance that never sounds small. Though best suited to average-sized rooms, the Sorcerers have enough energy to fill out larger rooms at a pinch.

They have a slightly rich, warm tonal balance, coupled with a slight zing to the upper frequencies. The Sorcerers don't have the sort of 'high-end' smooth detail of a ProAc Response One 'S', but they are consummately musical, underpinning any hi-fi niceties with a wicked sense of rhythm. It's also possible to use the Sorcerers in the near field, placing the speakers along the base of an imaginary isosceles triangle. This dramatically

## Royd Sorcerer magic is as magic does

improves the imagery, but to get balanced bass weight, the speakers need to be about three feet from your ears, which is hardly practical in most listening-rooms.

In fact, my only criticism regards the Sorcerer's inability to play music at very high volume levels. Yes, they will play loud, but if you want those moments of head-banging, you may have to look elsewhere.

Then again, if you want quality, compatibility and the ability to mount your speakers close to a wall. I can't think of a better design than the Royd Sorcerer. Although I believe that the speaker is so-called because of its pointy hat-like phase plug in the bass driver, perhaps it's because they sound magical.

Royd Loudspeaker Company Ltd,

Unit B2, Stafford Park 15, Telford,

Shropshire TF3 3BB. **2** (01952) 290700

Alan Sircom

A few words of apology are due to the folk at Royd. Though we had two opportunities to redress the balance, we still failed to mention that the Minstrel, tested in issue 135, was actually awarded a Best Buy rather than just a Recommendation.

## CD PLAYER Marantz

🔼 Clean, civilised balance, good sense of timing.

Soundstage only in two dimensions.

arantz has made a habit of bringing out special edition versions of its CD players, and amplifiers too for that matter. Looking at past models you can see why. The CD-52IISE had an unwieldy name but was a tremendously successful model. What SE means, in this instance, is an OFC (oxygen free copper) mains transformer, a stronger





base plate and chassis bracing to improve structural solidity. ventilation slots (said to improve temperature stability) and copper plated shielding on the HDAM op-amps in the output devices. The latter are discrete amplifier modules that are claimed to offer a significantly better slew-rate and signal to noise ratio; good technical stuff that should, in theory, mean less distortion.

What you get for your £350 is a neat slimline player with a comprehensive selection of facilities, a good variety of output sockets (including an  $electrical\ digital\ output-good$ news if you ever want to upgrade with a separate DAC), remotely-controllable output

level (effectively remote volume control) and a dimmable display to cut down the glare.

Sonically, the SE effect tames the slightly aggressive tendencies of the regular 63 and improves its dynamic abilities to the extent that low-level listening is a whole lot more engaging. Tonally it has a slightly detailed balance that enhances treble a tad, but without adding glare. Bass is deep, solid and as fast as ever with Marantz CD players. The whole thing times very nicely, forcing your foot to tap of its own accord. It also does a good job of differentiating between production styles, by which I mean it brought out the variety in recording and mastering

techniques between albums effectively – an area that a lot of players fail in, and by doing so reveal their limited resolution.

Where the CD-63SE and the majority of CD players fall down is in the resolution of depth; something that the Sony CDP-715E and most players fitted with the Trichord Clock 2 mod have revealed is available from the medium. Last year the 63SE would have been a first class player, but the goal posts have moved. CD players with flat soundstages no longer cut it.

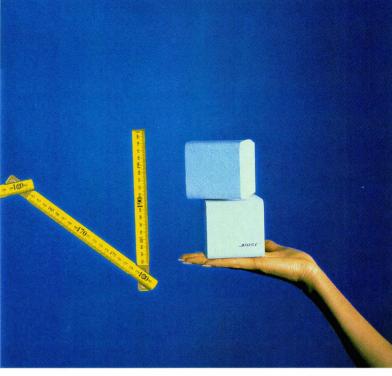
Jason Kennedy

Marantz Hi-Fi UK Ltd, Kingsbridge House, Padbury Oaks, 575-583 Bath Road, Longford, Middlesex UB7 OEH. 22 (01753) 680868



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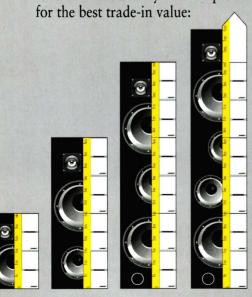
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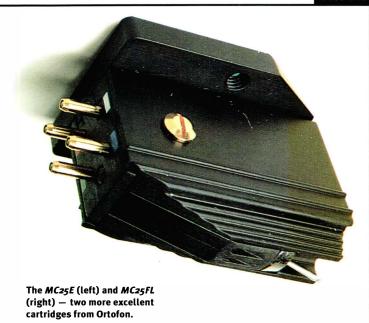
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## MC CARTRIDGES

## Ortofon MC25E& MC25FL

PRICE: £160/£210

- Very safe upgrade option for that difficult 'second MC' decision; highly neutral balance; FL is a great budget high-end.
- FL may overwhelm some mid-price turntables; not the warmest of cartridges; could do with letting their hair down sometimes!

'Il be honest. Fitting either of these cartridges after using an Ortofon MC7500 for several months was a bit of a shock. The temptation was to slaughter the pair of them for not being up to the standard I'm used to. But scarcely a moment's reflection convinced me that to do so would be pretty dumb, not least because the MC7500 costs about ten times as much.

In fact, having overcome the initial shock, both cartridges proved less of a downgrade than I'd expected. Granted, you lose the absolute fidelity of the 7500, but retain that overall neutrality and tonal accuracy. You gain in as much as that both cartridges can easily drive most moving coil input stages. Try the same input with a MC7500 and you lose about half the volume level.

The two MC25s are identical save for their stylus profiles. The

MC25FL uses a fine-line diamond; the cheaper MC25E uses an elliptical stylus. The FL is said to offer better tracking, separation and channel balance.

Both cartridges are similar in performance, though £50 for the fine-line stylus is money well spent. Ortofon's typical lack of coloration is common to both and the ability to track a difficult LP and give a realistic soundstage is hard to fault. The FL adds zing to treble detail and more transparency to an already open performance window. But it may offer too much zing for cheaper arms, so be wary.

Those weaned on a Goldring Eroica or Linn K9 may find the MC25 — particularly the MC25FL — a bit too stark and honest.

Though faithful to what's on the LP, both MC25s stress the detail, sometimes to the detriment of the music. The MC25FL should be seen as a low-cost partner for decks like the PT Anniversary or SME Model 20; the MC25E is better thought of as an upgrade for a mid-price turntable.

Fitted to anything above a Rega Planar 3 and played into any decent MC phono stage, either cartridge will add clarity. Even so, my advice is that if your turntable is good enough, go the extra £50 for the fine-line stylus... it's more than worth it. Alan Sircom

Ortofon (UK) Ltd, Chiltern Hill, Chalfont St Peter, Buckinghamshire SL9 9UG. 2 (01753) 889949

## Record review

Sir Malcolm Arnold Symphony No 2; A Grand, Grand, Overture; Concerto for two pianos

Royal Philharmonic/Vernon Handley Conifer CDCF 240

vertures don't come much grander than Arnold's splendidly noisy A Grand, Grand, Overture, scored for large orchestra and

organ — plus 3 vacuum cleaners, a floor polisher, and four rifles! Written for the first of Hoffnung's annual musical extravaganzas at London's Royal **Festival** Hall, it's a riotously

funny

piece -

once heard, never forgotten. Yet beyond the sound effects, the work contains some good music, and it is surprising that performances (and recordings) aren't more common — can it really be that hard to find accomplished players of the vacuum cleaner?

Arnold's Concerto For Two Pianos was written for Cyril Smith and Phylis Sellick, and it is the usual bitter-sweet mixture of light and serious characteristic of this composer. The slow movement is very touching, with a beautiful

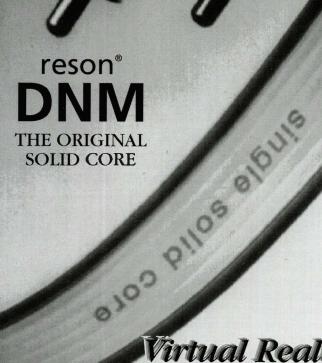
melody that effortlessly combines classical and pop music. But it is the finale that really catches the ear with its jaunty tune and cheeky syncopations. *Carnival Of Animals*, here receiving its first recording, is Arnold's riposte to Saint-Saen's piece and features species the French composer left out! These include a flock of sheep (wittily going round in circles to Handel's *For We Like Sheep*) and a silent finale — for bats!

The second symphony is the most substantial work on the disc.

and it's a piece of wide contrasts - from the gentle almost whimsical opening, to a profound slow movement lasting over twelve minutes. A

rousing finale brings the work to its conclusion. Orchestral playing is spirited and enthusiastic, and the RPO give assured performances under Vernon Handley. Conifer's 20-bit recording is special too, with a very wide dynamic range and some very deep powerful bass. The organ in the Overture is suitably thunderous, but the bass-drum cuts cleanly through the densest texture. Played loud, this is a real corker!

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amp seems better

## Amplifier Quad 77

## PRICE: £595

 Future-proofed integrated amplifier that maintains all the old Quad virtues.
 Rather limited in its basic guise.

hirty years ago, the leading edge of home entertainment comprised turntable, radio and open-reel tape for the wellheeled. TV was expensive, monophonic and of limited picture quality, computers were the domain of Auric Goldfinger and NASA, home cinema was for those who lived next door to the Gaumont and the nearest thing to a Game Boy was the Penny Falls at the Kursaal. Quad was at the pinnacle of the home entertainment market, with its legendary range of amps, tuners and electrostatics. But with the rise of cassette, CD, Nicam stereo, Dolby Pro-Logic and with a plethora of new formats just around the corner, Quad hi-fi is now rather less important in the grand scheme of things.

But with the new £595 Quad 77 amplifier and matching £250 remote, the first of a wholly new Quad range, the company looks set to move back to the forefront of home entertainment. This has nothing much to do with the sound quality of the amp, rather that the 77 is easily the best option for someone who wants to link computer, home cinema and hi-fi together, with the prospect of further expansion as new technology appears.

Opening up the 77, one is reminded more of a computer than an amplifier. The amplifier is a 70 watt Class B design, capable of swinging a healthy 11 amps peak current. The 77 does without Quad's feed-forward Current Dumping output stage, in favour of a more orthodox complementary feedback design. This is because feedback designs are inherently more stable than Current Dumping in smaller implementations.

Quad's latest amp is set to take the company fast forwarding into the future.

Quad's any display, even title information if so programmed. It can even title existing CDs.

There are two ways of connecting up the 77. One, for non-Quad sources, is as a conventional amp, via two line inputs and a tape loop, using standard phono plugs. The next generation of Quad products of which there are many, with 15 already on the drawing board - use the new Quadlink bus. This comprises of a differential analogue audio path together with digital communications pathways and a differential digital audio path. There is even a 30V ac linkage to power other products, so only one mains lead is needed per block of Quad products. All these Quadlink signals run along the same bus lines, connected via a multi-pin D-Sub port, as used in the computer industry. Via the Quadbus, the 77 amplifier will automatically determine which of the connected products is the master and which are the slaves, but this can be re-configured by the user if necessary. Ultimately, Quad hopes that the Quadlink bus will be adopted as a standard by other companies in a manner similar to the RS232 port in the computer industry.

All this is sophisticated enough, but soon pales into insignificance when the £250 Quadremote is brought into play. This transforms the 77 into the nexus of a sophisticated and admirably future-proofed home entertainment complex. Connect up any of the forthcoming Quad products to the amp and the two-way infra-red Quadremote will control every parameter of that unit, showing all controls and

The potential is there for the Quadremote to act as a gateway, intelligently operating any remote controllable product, in the manner of the best learning remotes. In theory, up to 256 sources can be controlled from a single remote and can be given preferred user settings, so that the system will automatically default to a particular source, preset or volume level, when that setting is actioned.

Like many of the British hi-fi establishment, Quad's amps have come in for some flak of late. Reviewer after reviewer seem convinced that the Quad range is somehow dull. Yet the 77's performance is smooth and satisfying, whatever the music. It will not disgrace itself, even when placed with some seriously expensive equipment.

Most alluring of all is a silken sense of coherence, especially in the all-important mid-band. This makes recordings like Crowded House's Woodface sound sumptuous. But midband coherence is partnered with generous helpings of detail, and these really shine at everything above the lowest volume levels. The extreme bottom and top of the frequency range are less detailed than the mid-band, but only marginally and loses no power in the bass, which is rare.

As might be expected of a company who sponsor classical recordings, its performance on hard rock or dance music is not as hard, rocky or dancey as is possible, but it is still capable of sounding more lively than many amplifiers that are often confined to the 'Classical Only' bin. Strangely, however, the

suited to box speakers than electrostatics. Is there a Quad box speaker in the pipeline?

Even flooding it with NWA's Straight Outta Compton didn't faze the amplifier, thanks to that healthy power reserve. What you get instead is an amp that presents a fine soundstage, decent dynamics and plays rap with as much aplomb as an Gilbert and Sullivan overture.

There is plenty of musical integrity and honesty from the Quad 77. It's not the sort of amplifier to fake a false sense of timing, push the sound forward, or bathe the listener in some false warmth. As most amps at this price will pull the listener in one of these directions, the performance of the 77 is more adult, more sophisticated and ultimately more rewarding in the long term.

If you are convinced that your needs will progress no further than a CD player, tuner and tape deck, the Quad 77 will be more than capable. But a few years from now, when those extra inputs prove vitally important, the Quad 77 can still form the core of the system. Unlike many of today's products, the Quad 77 will be hard to outgrow.

The sound quality is, in many respects, the least important aspect of the Quad 77. The ideas behind the design owe as much to William Gibson and Phillip K Dick as Blumlein and Edison. This is the amp to let early adopters link their technologies together, smoothly expanding as we add more lanes to the infobahn.When someone finally invents a Gibson-esque Cyberspace deck, I bet it'll have a Quadlink port on the rear. Future-jockeys everywhere will see the sense of the Quad 77.

## Alan Sircom

Quad Electroacoustics Ltd, 30 St Peter's Road, Huntingdon, Cambs PE18 7DB. ☎ (01480) 52561

# Sonus Faber's inert Poly Stratum cabinet system — a patented sandwich construction with solid walnut wood and black satin lacquer finish onus fab capable box delivers sound on a massive scale with unfettered

dynamics. Stereo performance and detail rendition are exceptional. Sonus Faber has now blended the speed and delicacy of the Minima with the power of the Electa Amator in a new loudspeaker called the Minima Amator. Exclusive low distortion, high power handling drivers are used in a 1.5-inch thick hardwood cabinet comprising 20 pieces. The gently sloped crossover uses the highest grade components and offer parallel or bi-wiring through goldplated binding posts. The result is a loudspeaker capable of lifelike stereo imaging and a sense of unsurpassed grandness delivered without effort. The £898 Minuetto is a most exciting and affordable addition to the Sonus Faber range—rightly described as a mini-Electa. Its handmade 16 layer cabinet with solid walnut gives astonishingly neutral sound quality and outstanding beauty. The leather covered baffle minimises diffraction effects for superb stereo imagery. Contact Absolute Sounds to find out where you can hear these exceptional loudspeakers on demonstration.

Sonus Faber designs for style not fashion its Electa loudspeakers and Amator electronics are now considered classics. Sonus Faber's Extrema is a celebration of the extreme — an undeniably small loudspeaker with the pretensions of a giant. The bi-wire Extrema is the most sophisticated miniature dynamic loudspeaker made. Described as 'one of a handful of loudspeakers which qualify as legends'. Hi-Fi News & Record Review warned: 'this'll take your breath away' (Ken Kessler, October 1991). With appropriately powerful amplification this staggeringly

Extrema



**Absolute Sounds** 58 Durham Road · London SW20 ODE **Telephone** 081-9475047 **Facsimile** 081-8797962



## Electrofluidics Sonolith 2.2xi

Never mind political correctness — Jason Kennedy corrects his phase with the Sonolith.

ome time ago, erstwhile editor Andy Benham wrote about a heavyweight metal-coned loudspeaker called the Sonolith 1. He liked it very much, not least for its prodigious low frequency capabilities. At the time, I thought it a bit like a Townshend Glastonbury, and wondered if I'd ever get around to hearing it. About threeyears later, Electrofluidics brought round the next model in the range: the £3,250 Sonolith 2.2xi.

The Sonolith loudspeakers are unusual beasts. They're made out of a mineral polymer composite and built up from pre-fabricated blocks, each one butted up to the next with a toughened neoprene gasket. It's possible, therefore, to create very tall multi driver designs, but make sure your floors are up to it before you order a pair. The infinite baffle 2.2xi weighs 66kg, a committed two man lift and something of an obelisk for your living room. They are also quite big, measuring 95cm high by 42.5cm deep and 38cm wide, and have an even wider footprint by virtue of the built in plinth. The latter conceals bi-wire terminals, so hooking them up is tricky, but it makes for a very clean, ahem, rear end.

The driver complement is made up of Jordan metal cones, two 53mm tweeters and two 125mm bass units, which the designer, Patrick Hanscombe, thinks very highly of. It wouldseemthat with the advent of CD, Ted Jordan's designs are finally beginning to prove their mettle. A linear phase loudspeaker is not a lot of use without a linear phase source.

A lot of research and thought has gone into the *Sonolith 2.2xi*. The cabinet is very heavy and inert at audio frequencies, and walls are tapered to create an irregularly-shaped internal space which blunts standing waves. Externally, it benefits from a complete dearth of sharp edges to minimise diffraction, and the high frequency cones are bedded in neoprene, which reduces HF reflections. The cones are covered by perforated metal that offers minimal sonic obstruction and maximum protection, and the top plate even has a lip so your CDs don't fall off.

Electrofluidics has produced a very

low resistance cable (Monolith 20/20, £25/m) to maximise the potential of the design. However, it takes more than just the right cable to get the best out of the 2.2xi. You need at least 100 watts of quality power, and preferably as much as 250W according to the literature. This is not a particularly efficient design — it's sensitivity is quoted at 86dB/W, and impedance is given as four Ohmsnominal and just over three and a half Ohms minimum.

The pair of Michell Alectos I use push out 200 plus watts into four ohms. However, I suspect another pair of Alectos wouldn't have gone amiss. It would be interesting to know whether the addition of two more Alectos would have produced the sort of dynamics that more efficient speakers reveal.

I listened to the *Sonoliths* with the aforementioned poweramps and their partnering *Argo/Iso HR* preamp. Vinyl replay was courtesy of a Voyd/Wilson-Benesch *Act One*/vdH *Grasshopper* combo, and CDs with the aid of a *Clock* 2'd JVC transport and Trichord *Pulsar* DAC. Cabling started off as the usual Audio Note silver, but was replaced by *Monolith 20/20* and the new Kronos *Konnekt* interconnect.

It's hard to pinpoint the most striking thing about the sound produced by the *Sonoliths*: is it the solidity and dynamics of the bass, the three dimensionality and precision of the image, or the plain lack of distortion? Probably the latter, because it's such a rarity to

Metal magic from the Sonolith 2.2xi. Was Jason impressed? Is the Pope a Catholic?



find a loudspeaker that has so little overt character.

With the majority of loudspeakers, you can hear how the cabinet colours the sound. Sometimes nicely, sometimes discreetly, but virtually all cabinets add coloration, and it's onlywhen you hear one that doesn't that you fully realise its significance. This is most evident at low frequencies, where wooden boxes get difficult to control, muddying and diluting bass dynamics.

Only big, efficient loudspeakers give you real bass dynamics, but a 50 litre cabinet like the 2.2xis can take you half way there, as the box doesn't intrude.

Instead, you get genuine solidity, real weight and power at low frequencies, with the sort of control most speakers only manage in the upper registers. This confers bass lines with power, so fas that shake and a foundation on which to build precise three dimensional imagery.

I've enjoyed music all my life, but rarelyhave I heard it reproduced so tangibly as with these speakers. Other speakers have approached this performance from the midrange up but the *Sonoliths* added the real third dimension: stereo bass. This fills the room with ambience and places the instruments precisely in the soundstage.

Inevitably, all this resolution has a dramatic effect on software. Suddenly, badlyworn records become hard work, and the quality of recording, mastering and pressing all reveal themselves. Usually for the better I'm glad to say, but the compression and bandwidth limiting on a recording can become all too obvious.

The only area where the Sonoliths were found lacking was in dynamics; stop-start explosiveness was not to be found. What you get instead is high SPLs without accompanying distortion. You don't get the loudness effect popular in some circles, but you will find that you can hear more and play at higher levels without discomfort.

The Electrofluidics Sonolith 2.2xi is an exemplary loudspeaker. It has a wide and controlled bandwidth, extraordinary imaging abilities and is probably the cleanest-sounding loudspeaker I've lived with. But it doesn't suffer less than first class ancillaries; high resolution has its price. If you've got what it needs, you'd be crazy not to hear this excellent design.

Electrofluidics, 27 Fournier Street, London, E1 6QE. ☎ 0171-247 0813

## conrad-johnson PV10A

Eric Braithwaite falls for the silken charms of a classic Yank preamp with a lower-case name.

he fact that conrad-johnson's PV10A pre-amplifier has tubes behind the old-gold fascia is almost irrelevant. It's a bonus that gives a frisson to this otherwise simple affair, with nothing more striking than a tape monitor button and three milled knobs for volume, balance and selecting the five sources. There is nothing to show this is one of the unsung heroes of hi-fi. Perhaps c-j should engrave the milled knobs with the hi-fi equivalent of nemo me impune lacessit—"no-one can slag me off with impunity".

If a frisson is lacking anywhere, then it's only for fans of over-produced and

aid of Cerwin-Vegas or a nasty bout of EQ fiddling. Bass EQ'ing does not suit the *PV10A* at all, the wet-plaster sogginess becoming all too evident.

What sets the hairs in the ears tingling are sheer, quick-step rock rhythms and the *PV10A*'s pinpoint

tingling are sheer, quick-step rock rhythms and the *PV10A*'s pinpoint prismatic presentation. Whether it is the two separate and distinct voices of The Proclaimers, or a panoply of synthesised strings, drum machines and a shop-full of guitars, a rock mix pops out of the speakers with such panache that listeners often hanker after the mixing desk to the tone down the worst excesses of studio signal processing.

over-blown rock music. This is too

revealing and lucid a pre-amplifier to

shove a compressed mid-range up

front, or turn bass boom into some-

thing like the real thing without the

The *PV10A* has the ability to stop, start and turn around on a dime instantaneously. It reproduces the fullest

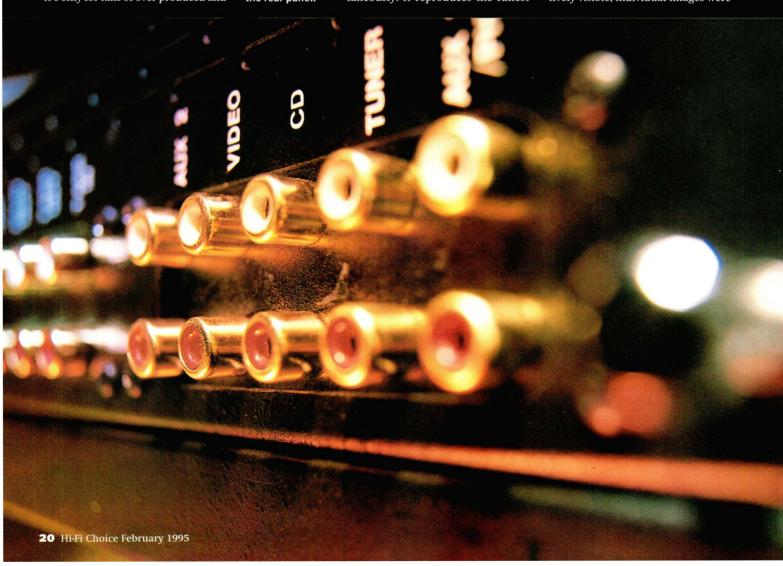
swell of the dynamic range of either a single instrument or a full orchestra. Brass entries in Ravel's *Mère L'Oye* were near-perfect, with trumpets, trombones, even tuba blazoning forth, distinct and separate.

Even in complex scores, where a bassoon or contra-bassoon line normally disappears into the general mêlée of orchestral colour, the tonality and dynamics were exact. The speed of response was startling in its immediacy, not just in the all-important suddenness and impact required for any orchestral recording, but in other seismic events like the thunderclaps in the McKerras/SNO Telarc recording of *Die Zauberflote*. These signal the entry of the Queen of the Night, and were as shocking as the real thing.

While the concert-like burgeoning of brass — or a flute, floating from the back rows of the orchestra — were effectively visible, individual images were

Plug in and play

— the c-j build
quality is even
apparent from
the rear panel.





rock-solid. The soloists in the Mozart opera moved ultra-smoothly around the sound-picture in distinguishably measurable paces behind, left and right of their microphones. This is the sort of real hi-fi reproduction that presents a holographic three-dimensional whole. It is the perspective from the producer's chair in the studio, or the plushest seats in the stalls, a few yards behind the conductor's podium, which only the best-behaved guest ever has.

One of my better-behaved guests noticed that the *PV10A* is a pure sprite. His dawning realisation of conradjohnson's musicianship was provoked by I Musici's recording of a Vivaldi concerto for two mandolins. Dynamically this is extremely tricky: each mandolin is subtly different in tone.

Not only that, but this is one of those rare recordings where a harpsichord continuo tinkles along within the band, un-emphasised by close-miking. Through the *PV10A*, the continuo was exactly what it should be: a link between all other parts of the score. In addition to its realistic balance within the band, the ultra-finely honed resolution makes it clear that harpsichord strings are plucked with quills, not struck with hammers. In American terminology, this is the 'microdynamics'

of electronic reproduction and one of Lew Johnson's goals.

All this was very successfully achieved, by-the-by, through the onboard phono stage, though the judgement holds equally well for the line stages. Its rounder bass quality is marginally less effective than on CD, but the sense of bass strings being bowed or plucked suffers no diminution, no more than a mildly sweeter string tone is any less effective. Such is the lucidity and detail no-one would have any qualms about spending £300 on this if it were an outboard device. (With phono stage, the PV10A costs £1,250; line-level only, it is an absolute bargain at £999.) Only a very slightly brighter, sharper-edged woodwind tone betrayed the switch to a Michell Iso.

The phono stage is pitched somewhere between moving-magnet and moving-coil cartridge sensitivity. It's unsuited to low-output moving coil cartridges, preferring the output of a Koetsu or one of the latest Ortofon Supreme MCs. For more marginal moving-coils like my Mørch *da Capo*, hiss is just on the better edge of intrusive, though gain is sufficient to avoid winding the volume control too far. The review sample also suffered some microphony, requiring the *PV10A* to be

Quality drips from those milled frontpanel knobs.

> High-end does not come much better than the PV10A, a true bargain.

isolated from other hunks of metal.

Those tubes, maybe, are not so irrelevant after all. The configuration is not unusual, with an ECC83 double triode for each channel of the phono stage, and ECC82s for the line stage. However, the implementation is less regular, with an ECC81 cathode follower resulting in a local-feedback design, but effectively zero global feedback. By its results, which rebut all the 'cosy, warm and cuddly' reviews associated with many valve designs, the conrad-johnson *PV10A* preamp must be near ideal.

Audiofreaks, 15 Link Way, Ham, Richmond, Surrey. TW10 7QT ☎ 0181-948 4153





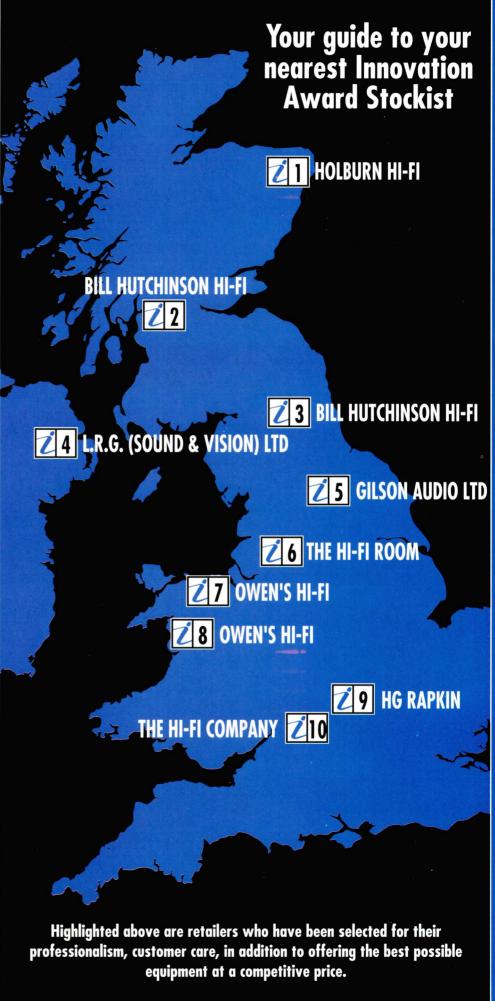
## Bill Hutchinson's INNOVATION

AWARD

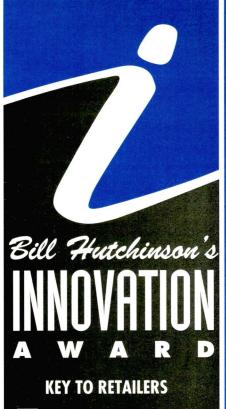
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## Our experts solve your hi-fi queries

## Query of the month



Each month we're giving away a one metre pair of Precious Metal Silver Signal 75 interconnects to the writer of the most interesting letter. Send your system queries to: Hi-Fi Choice (Help!), Dennis Publishing Ltd, 19 Bolsover Street, LONDON W1P 7HJ.

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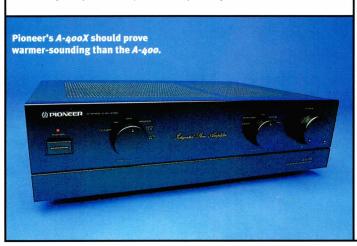
## Too cold to cook

My system sounds tonally cold, especially with CD. I was thinking of upgrading my Marantz CD-52IISE with an outboard DAC, but I wonder whether I should buy a new CD playerinstead. I'm also thinking of getting some DNM speaker cable to go with my DNM interconnects, though as I need 8m runs perhaps this isn't a good idea! The rest of my system consists of a Linn LP-12 turntable, Pioneer A-400 amplifier, and Tannoy 609 speakers. Would it be worthwhile getting the Marantz modified with Trichord's clock 22

Mr A Buist, Fife

CD tends to sound leaner and tonally contains tonally cooler than LP, and the LP-12 is definitely on the rich/warm

side. Since you complain of tonal coldness on both LP and CD, it might be wise to look at replacing either the amp or speakers (perhaps both) rather than trying to find a CD player which can produce the sound required. The CD-52IISE is not especially 'cold' sounding, and going for Trichord's Clock 2 would not alter its fundamental tonal characteristics — though it would improve clarity and definition. The Pioneer A-400 can be a bit hard and forward-sounding; investigate the A-400X, and listen to the Aura VA-100/2 Evolution which is warm and refined. DNM solid core interconnects and speaker cables are excellent, but tend towards tonal leanness — sample Chord's superb Flatline speaker cable. Arcam Delta 2 speakers give a very rich warm balance that may be just what you're after.





## Nothing but blame

Please come to my rescue! I have a Micromega Duo 2 CD transport and Pink Triangle DaCapo DAC, connected via RCA phono coaxial cable and BNC adaptor. I've had this combination for about three months now, and there's been a problem that causes the signallock LED on the DAC to extinguish with a temporary loss of sound. This fault is very intermittent; it may happen again a few minutes later, or not for an hour. It also occurs even when no disc is playing. Having contacted both manufacturers, each seems to blame the other's product – what can I do?

Mr R Ayling, London.

Your problem might be caused by a faulty cable or connection between DAC and transport; it certainly sounds as if electrical contact between the two is being interrupted. Try another phono-to-phono cable (for test purposes almost anything will do) and, if possible, have your BNC/Phono adaptor checked for intermittent contact. The other possibility is a 'dry' solder joint at the point where the connecting socket contacts the main circuit board. It's hard to say whether transport or DAC is at fault, so try to borrow a CD player with coaxial digital output

for a few days and see what happens. If the fault persists it's the DAC or cable, if it goes away it's the transport.

## Solid to the core

Thave a Marantz CD-72 CD player, NAD 3100 amplifier, and Mission 751 speakers on sand-filled stands connected using Linn K-400 speaker cable. I've had my CD player Trichord modified with Clock 2 after reading your enthusiastic recommendations, and noticed a big improvement in bass and midrange clarity. But the treble seems to lack the attack it had before. I know that Mission recommends solid core speaker cables, but I'm happier with multi-strand. I'm willing to spend up to £150 on speaker cables, but will a solid core give me what I want?

Mr G Farrell, Dublin.

Sometimes, when you clean-up the treble and make it sound more precisely focused, it can be disappointing. Instead of a welter of sounds, you can hear, perhaps for the first time, that only a few instruments are playing at a given time — whereas before it sounded like twenty of thirty. Solid core cables tend to sound more focused than stranded types, but less lively. Chord's Flatline is a very good

Mr Tumpa should find that the Trichord Clock 2 mod gives a cleaner and firmer sound

speaker cable that offers the clarity and precision of a good solid-core with the weight and liveliness of stranded types. If it doesn't sound impressive enough, investigate the  $Audioquest\,range-F\text{-}14\,would\,be$ a good starting point.

## Take it to the bridge

About a year ago I updated my system to a Rotel 965BX CD player, Musical Fidelity Rainbow preamp and Typhoon power amp, plus a pair of Infinity Reference 20 speakers. The system is just what I wanted, but I'm finding the Reference 20 very coloured. I want to add a second Typhoon (to be used in bridged mode) soon, and wonder what speakers I should consider given a budget of about £600?

## Mr D Kitching, Ross-shire

Bridging your power amps should give a worthwhile improvement in detail, clarity and presence — as well as more power. The Castle Chester would be an obvious starting point, alongside the Epos ES-14 and Heybrook Quartet. However, it might be worth sticking with a single Typhoon and spending more on speakers. If you decide to do this, try listening to Mission 753s and Impulse H-7s.

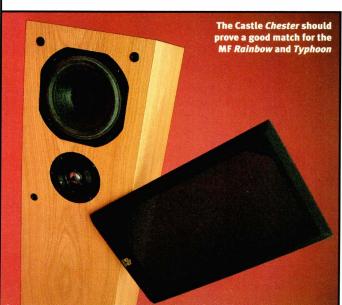
## Taking a stand

Why the infrequency ofqueries regarding equipment-support stands? In issue 110 Andy Benham described the Townshend Seismic Sink as 'a resounding success', although in the supplement with issue 123 the drawbacks are given as 'effects unpredictable with better players'. The Mana table has been much praised, especially with Linn/Naim set-ups. As I have a Linn Axis turntable and Index 2 speakers, plus Naim 72/140 amp and CDI CD player, do you think I'd be better off buying a Mana table or adding some Seismic Sinks?

## Mr R Helps, Somerset

Tables and support platforms are always unpredictable; sometimes very dramatic differences can be heard, yet in other circumstances improvements are marginal. The Mana table is very different in concept to the Seismic Sink; the former gives exceptionally rigid coupling to the floor, the latter provides some decoupling.

Rigid coupling via spikes and the use of hard materials (steel frames, glass shelves) tends to give a sharper and more forward sound, with increased dynamic impact and tight firm bass.





Decoupling platforms (especially when used unspiked like the Townshend Seismic Sink) will usually sound tonally smooth but clearer, with increased clarity and ease especially during loud complex passages. Which works best is down to personal taste, the equipment being used, and external factors like floor hardness.

## Clock it up

My system consists of a Pioneer A-400 amp, Denon TU-260 tuner, Akai GX-75/2 cassette deck, Arcam Alpha CD player, and Canadian Mirage 750 loudspeakers with Cable Talk 3 cables. I'm satisfied with the sound, but would like to improve my CD player. Having read about the Trichord Clock 2 mod in issue 135 and Audio Alchemy's Dac-in-thebox, I want to go for one or the other. Which would be better in my system?

## Mr M Tumpa, Zagreb.

Since the Clock 2 is such a fundamental change, it's likely that this upgrade would make more difference than adding a Dac-in-the-box. Your Arcam should sound cleaner and firmer, with improved dynamics and coherence. You'll also get better results from an outboard if you decide to buy one in the future.

## V for vinyl

Thanks for issue 136; it's nice to know there are still some vinyl junkies out there! Reading the above issue was enlightening, but also distressing - if I were to indulge myself to such levels my bank manager would have a coronary. I'm looking to buy a turntable, amplifier, and

speakers for around £1,000 (flexible, but not too flexible...)

## Mr S Newman, Gwent

The Rega Planar 3 offers good value and excellent performance, and is still hard to beat at the price. Cartridge choice is wide, but Roksan's Corus Black sounds clean and tracks well. Not all amplifiers offer a phono stage these days, but NAD's 306 does and special attention has been paid to low noise and good sound quality. This amp can also accept low-output moving coil pickups should you wish to upgrade at some future date. If you chose these items, you'd have a little under £200 left for the speakers. Listen to Celestion 3/IIs, Infinity Reference 10s, JPW P1 Vinyl, Mordaunt-Short MS-20s, and Mission 760SEs.

## Steaming ahead

My system consists of a Kenwood KA-1030 amp, Philips bitstream CD player, and Wharfedale CRS-3 speakers. I need to upgrade my amp and have a budget of £300 maximum. I'm happy with my speakers, but want a better amp to reduce the edgy treble on CD without running out of steam at high levels. I had thought of Pioneer's A-400 but would consider anything you might suggest.

## Mr C Maguire, Dublin

The A-400 will give you a more assertive sound than the Kenwood and probably help clean up the treble too. But listen also to the A-400X, which is less forward and exciting but smoother and more refined. Arcam's Alpha 6 is nice and lively, offering remote volume control and tone controls, and NAD's 304 is excellent value.

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Audiolab 8000C/P combination a refined and articulate partner for the Spendor SP-100.

## Ten years after

My Musical Fidelity A-100 is now nearly ten years old and cost £400 when I bought it. I want to upgrade it with a new amp that offers comparable sound but a faster more powerful bass. I've heard the Technics SU-A900/2, which sounds similar to me but with improved bass. However, my wife is suspicious of the Technics on price, reasoning that because we paid £400 originally we should be looking at £600 to £800 for something truly better. What do you think?

## Mr D Reynolds, Glasgow

The Technics SU-A900/2 is a very good amplifier, and remarkable value when you consider it offers comprehensive facilities and full remote-control. You should find it tighter and leaner than your old A-100, perhaps less sweet, but definitely sharper and more focused with stronger more powerful bass. Its low cost reflects the way in which hi-fi has dropped in price over the past decade or so, as companies fight to maintain their share of a dwindling market. If you can spend more, check the Magnum Class A, and Musical Fidelity's Preamp/ Typhoon pre/power combination.



## **Getting lively**

After reading the October issue of Choice, I replaced my ageing Trio cassette deck with a Aiwa AD-F450 and am very pleased with the improvement. I have a system based around a Trio (Kenwood) KR-2010L receiver and JVC SK-33 speakers, and I notice that other systems seem to sound sharper and livelier, with deeper, punchier bass. I tried some AR-8 speakers, but these didn't improve matters, and my receiver was unable to drive a set of JPW AP2s. How can I liven up my sound?

## C J Hubbard, Devon

A new pair of speakers (and perhaps a better receiver) should give you what you want, though it should be said that some rooms create a smooth, mellow sound almost irrespective of the equipment used. NAD's 705 receiver would be a good choice, having sufficient power for most speakers.

Listen to speakers like the Allison AL100, Legend 2, and Rega Kyte, all of which should sound livelier and more detailed than your IVCs.

## Up on stage

My system consists of an Arcam Alpha 5 CD player, Musical Fidelity A-100 amplifier, and Spendor SP-100 speakers with Audioquest Diamond interconnects and Linn K-600 speaker cable. I want to upgrade, and have about £3,000 to spend. I intend to keep the speakers, but would like to replace the amplifier and CD player. A smooth and spacious 3D soundstage is my aim.

## Mr C Schuller, Luxembourg

Audiolab's 8000C/8000P pre/power combination would be a smooth, refined yet articulate partner for the Spendors, and you could match it with the same company's 8000CDM /8000DAC CD transport and

DAC — though the latter is perhaps a shade unexciting for some tastes. Arcam's Delta 250/BB50 is a good and less-expensive alternative.

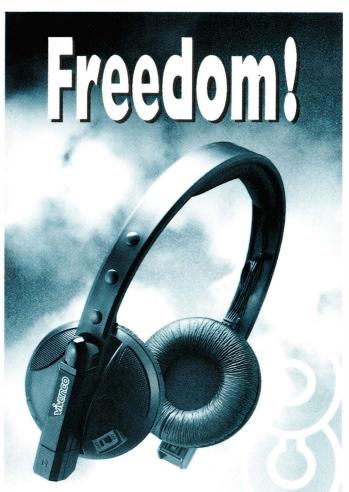
## New CD player needed

I have a Marantz CD-52/ IISE CD player, CAL Sigma/2 DAC, Exposure XX amplifier, and Ruark Templar speakers with Audioquest cables. Having just sold the Marantz, I'm looking for an integrated CD player with a better transport and superior digital output. My budget will only stretch to about £450; what do you suggest?

## Name and address supplied

Arcam's Alpha 5 plus, recently upgraded by improving the accuracy of the digital sampling by reducing jitter, is well worth considering. The Philips CDM-9 transport used in the Alpha 5 plus is the same as Arcam use in their more expensive Delta series machines, incidentally.





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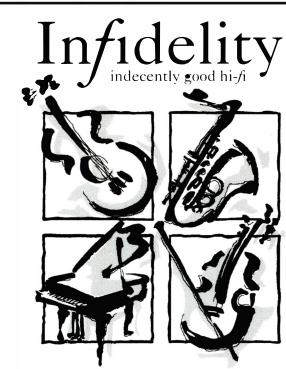


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# WRITE ON!

## In which readers opine about grommets and other noteworthy topics

## A Snide aside

Allow me to complement Paul Messenger on his considered, unemotional and even restrained response to the unnecessary and indeed snide criticism levelled by *What Hi-Fi?* (issue 135).

I have subscribed to Hi-Fi Choice and What Hi-Fi? for the past four years, and enjoy them both immensely. However, I have been disappointed in recent months by the undisguised discourtesy shown by the latter towards Choice—it's so unnecessary.

Each magazine caters for specific needs within the hi-fi market, and each plays a very important rôle. There is no room for unbecoming tabloid-esque innuendo. Thank you for a thoroughly reasoned and helpful riposte. Let's hope that What Hi-Fi? extends you the courtesy of a responsible and mature reply.

JA Creeke Pietermaritzburg, South Africa.

## Praise indeed!

I would like to express my thanks to the happy band of members who form the West of Scotland Hi-Fi Club, for their time and patience. The club approached us recently to book a night to come into the store to use our demo room. Once we agreed upon a mutually acceptable date and time, all that remained was for them to come in and listen

With demonstration facilities being relatively new to our stores, this was very much a pilot scheme for us. On the night, we had two different systems set up, representing two different categories — the 'budget' and the 'reference' — and both systems proved successful.

The club members provided us with some interesting thoughts and opinions and I

hope they enjoyed their visit.

At the same time I would like to extend a repeat invitation to the West of Scotland Hi-Fi Club (or any similar clubs that may be lurking unknown out there) sometime in the near future.

Stephen Scatt, on behalf of all the staff at Richer Sounds Glasgow

## Catch 63

I was intrigued to read the blurb (HFC 135) trumpeting the qualifications of the EISA Panel to make awards for European Hi-Fi Products of the year. I moved quickly to read the eulogy given the European CD Player of the Year—the Marantz CD-63.

Your April sessions test does say "...it 'boogies'", but also summed up: "Not as listenable as some rivals". Jason Kennedy only bestowed 3/5 for sound quality and 3/5 value.

Returning to the awards, the same CD player boasts "...Superb specifications aside, it's great sound quality and excellent value for money which make the Marantz CD-63 an obvious awardwinner." Since there are no second places awarded, and no (published) debate, was the award as obvious as you say, or does it say a lot more about the competition than the CD-63?

What happened to the CD-63 between April and October to prompt its elevation to the peerage? As a candidate for an integrated CD player upgrade myself, I would be most interested to read your comments on this matter.

Chris Vian, Wedmare, Somerset.

It's true I wasn't overawed by the CD-63, but as in all Sessions pieces I expressed a personal opinion, shared by neither the EISA awards panel nor Paul Miller's blind-listening panel, which Recommended the CD-63 in HFC 137. In retrospect my comments may have been too harsh—compared to its peers, the '63 is a good machine for the price. **Dep Ed** 

## Letter of the month

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

Direct your letters to: The Editor, Hi-Fi Choice, 19 Bolsover Street, London W1P 7HJ, send a fax on 0171-323 3547, or e-mail to 'Hi-Fi Choice' at 100433.1130@compuserve.com



## A CD player conundrum

thought of upgrading my CD player, so I bought your November issue, which reviews eight of them. Off I went to my local hi-fi dealer, armed with my own CD player (an eight-year-old Toshiba portable) and two CDs: Prokofiev's Alexander Nevsky and chamber music by Buxtehude and Pachelbel. I listened to four of the players reviewed — Arcam Alpha One, Denon DCD-825, Marantz CD-63 and Rotel RCD-940BX, plus the Rotel RCD-955BX.

I must say I think your listening panel must be deaf as well as blind. Do they ever look up from their oscilloscopes and listen to the music? I found the Marantz bright and untidy; the Denon, though basically OK, was too laid back; but the Rotel and the Arcam — both of which you panned — were totally involving. Indeed, Buxtehude's *G major Sonata*, as heard through the Arcam, brought tears to my eyes.

I don't care if harmonics zigzag across your graphs, because

I'm a musician not an electronics buff. The shop didn't have the Sony CDP-715E that you raved about, but on this form I'm not sure I'll even bother to listen to it!

Colette Tanns Leamington Spa

As a regular member of Paul Miller's listening panel, I confess that I don't know one end of an oscilloscope from the other! The blind panel doesn't even know what machines they're listening to, let alone specifications or measurements, until the end of the test. We even match listening levels precisely, to eliminate any prejudice.

However, in order to standardise our findings, we conduct all reviews in the context of a reference system, which might produce very different results from a system better suited to the characteristics of the Arcam and Rotel. This simply serves to underline the importance of demonstrations. In absolute terms, the Sony CDP-715E stands above the others, but it won't necessarily be the best bet in your system. **Reviews Ed** 



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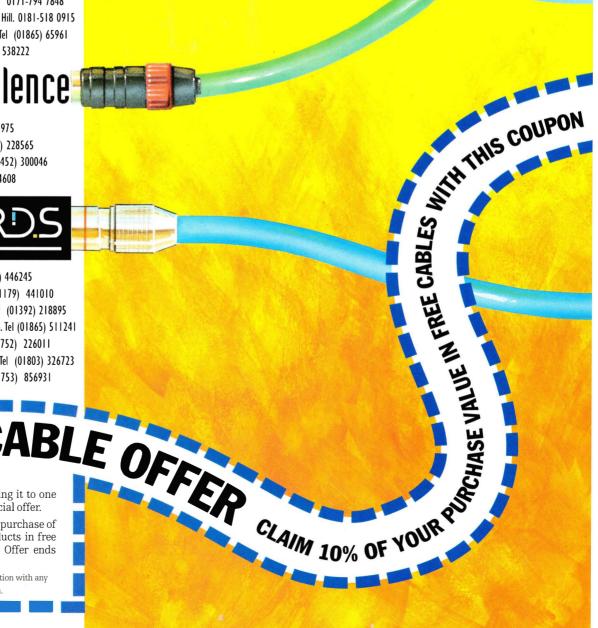
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## 21st Century Fox

Imagine being able to preview a hi-fi system, exactly as it would sound in your room, using just a black box with some bits sticking out. Barry thinks Bose may have the answer...

fyou're a football fan, spare an ear for the sound system installed at White Hart Lane next time you're there. No, don't worry, it wasn't installed by Amstrad. It uses Bose speakers and was designed by a new computer-modelling system from the same American company.

If you strip out the marketing hype, the *Auditioner* package combines Bose's existing *Modeler* computer software with hundred-year-old binaural (dummy-head) technology. It lets a PAsystem designer hear how loudspeakers will sound in a room or hall before they're installed, or even before the site is built. The software runs on an Apple Mac and works only for Bose speakers. It's not for sale, being offered instead as a 'free' consultancywithin an installation service. There will be 36 trained operators round the world.

This suggests that there is now a marketing opportunity for third-party computer software, running on Mac or PC with stereo headphones, which lets hi-fi dealers or installers give customers an idea of how different speakers will sound in their own homes. It would also let architects design sound reinforcement systems without necessarily using Bose speakers.

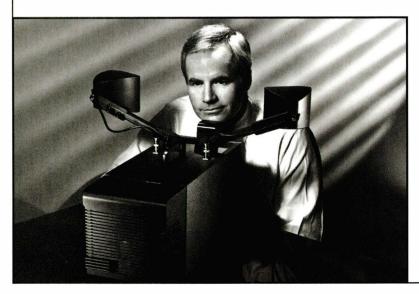
An architect uses *Auditioner* to build a 'virtual room' by entering its bare dimensions, then adding details of the

wall, floor and ceiling material, along with the seating and furnishings. The computer screen displays a three-dimensional picture of the room, rather like a video game image. Auditioner then uses a mix of acoustic theory, past measurements and accumulated experience of speech intelligibility to model the sound field which will be produced by loudspeakers at architect-specified points in the room.

This effect is then demonstrated by feeding speech or music from a CD through a digital signal processor (DSP) card in the PC. The DSP acts as a filter and delay line which creates the acoustic effect defined by the software.

The processed signal is fed to a pair of small speakers, fixed either side of a chin rest that guides the listener's head into a carefully-defined position. The audio effect is like listening to binaural, dummy-head stereo on head-phones. As the notional position of the loudspeakers in the virtual room is changed, so the binaural system changes the music or speech to match.

Without doubt, Auditioner drastically alters the binaural sound field, depending on the room size that has been modelled into the Mac, and the position of the imaginary speakers. However, the accuracy of Auditioner's multi-speaker-sound-field predictions will only become evident when the sys-



No, not the latest in designer home tanning equipment — just Bose's new 'virtual sound' Auditioner system...



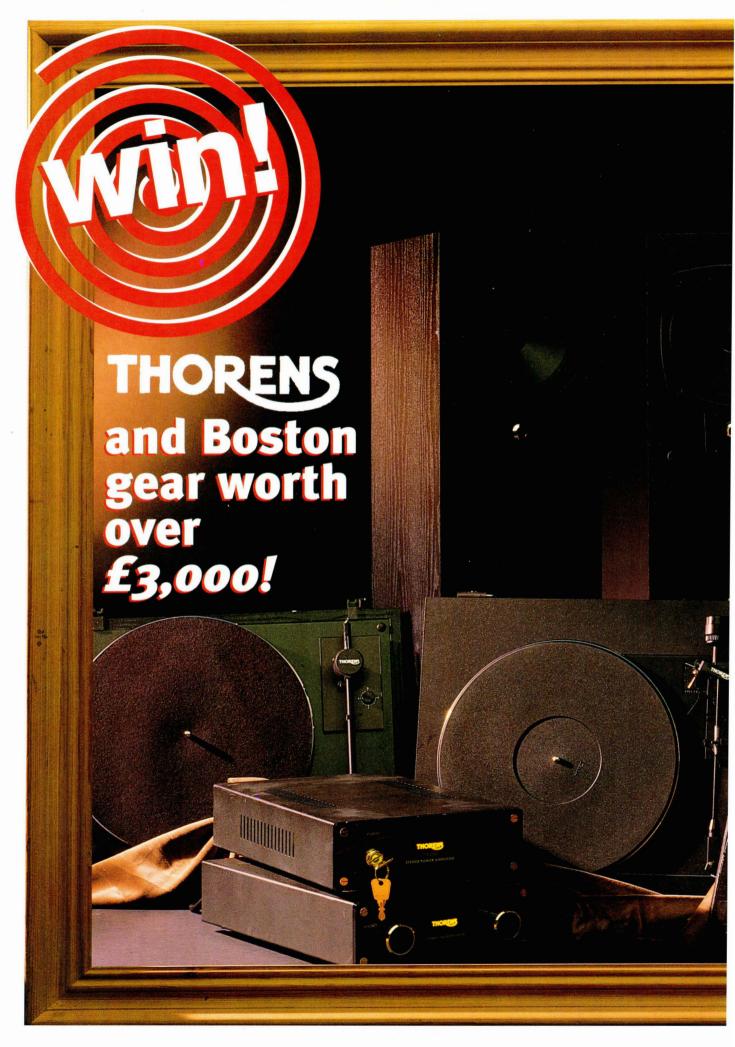
tem has been used, halls have been built and owners have received either pleasant or unpleasant surprises.

The White Hart Lane system was installed while *Auditioner* was still being developed and tested for a year. So it's not really a true pointer to how the system will work in a situation where the architect has designed a sound-reinforcement system from ground zero, relying on the computer.

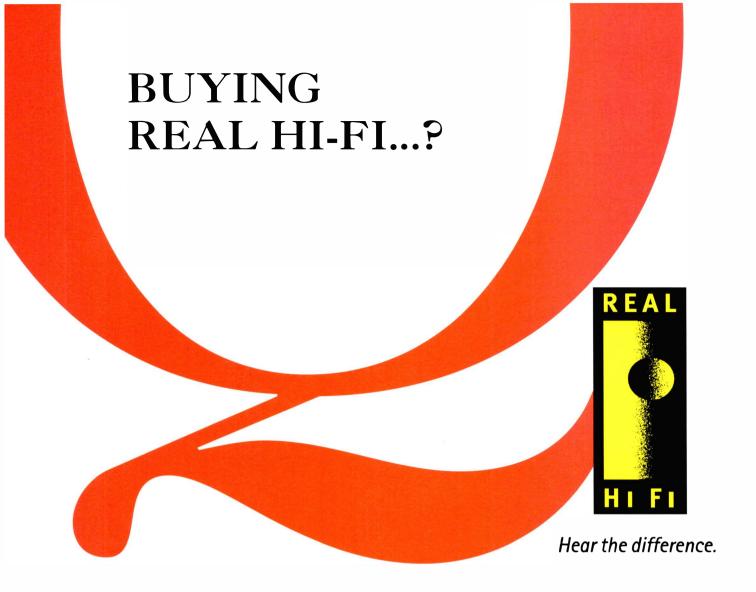
Bose sound reinforcement systems are, in general, streets ahead of the antique rubbish they replace. So how much any improvement is the result of spending serious money on a new system with heavy power-handling capacity, and how much is thanks to *Auditioner*, will take time to establish.

It must also be said that Bose people are past masters at the art of demonstration, much like Ivor Tiefenbrun of Linn and Julian Vereker of Naim in their early barnstorming days. At a recent demonstration of Bose's Wave radio, members of the press were encouraged to note how ``theorchestrasounds right here in the room" and how "you can pick out every instrument of the orchestra". The unit packs a lot of punch for a very small box, but has an FM aerial socket of the wrong gender for the UK and, most important of all, omits Long Wave – despite the pleadings of the UK press while visiting the company's US HQ a year or so ago. Do similar anomalies lurk inside the Auditioner software?

Paul Messenger (who, in turn, devotes his column on page 160 to a deeper investigation of the Wave radio) has devised a glorious acid test. He has asked Bose to use Auditioner to build a computer model of his own listening room, put a stereo pair of imaginary loudspeakers in the virtual room and predict the overall sound. Then Bose would put two real louds peakers in the real room, play the same music and speech, and see how they sound in real life. To avoid any prejudice a panel of listeners would compare the virtual and real sounds. Will Bose rise to this very reasonable challenge?







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# **ON TEST**

# CD Players



en years ago, the main obstacle in the way of eager consumers who wanted to 'go digital' was the high price of CD hardware. Nowadays it's the exorbitant cost of the software that puts people off.

This is why the cost of decent budget players fell through the floor some five years ago but has remained steady, with only a few exceptions, in the £150-£200 range ever since. Putting this into context, these are fully-equipped players, complete with remote control, direct track access, programming and repeat facilities, yet they cost no more than about 12 full-priced CDs.

So, until hell freezes over and the cost of CD software drops to a fiver a disc - tempting the millions who haven't already got a CD player to splash out on one - it's simply not viable for manufacturers to produce ultra-cheap but deadly serious CD players.

As if to reinforce the point, very few sub-£200 players are, er, 'subsidised' like the loss-making £250 market leaders reviewed back in issue 137. Make no

mistake, the £150-£200 arena is no less competitive but compared with the likes of the Sony CDP-715E and Marantz CD-63, its combatants are armed with very much more basic weaponry.

That's not to say these players are either inadequate or indistinguishable. Indeed, month after month, our blind listening panel continues to reveal significant and repeatable differences in the performance of CD players from every walk of life. And this is just as true of the ten sub-£200 wonders marshalled into the corral for this month's test.

Sure enough, these players look pretty similar and most offer a comparable range of user-friendly widgets. Yet many sub-£200 players are no less flexible than their £300 cousins, icing the digital cake with intro scan, index and peak search, tape edit, auto cue, A-B repeat and random play modes.

Few budget players have a fader option but many still carry some sort of up/down volume control, enabling them to be connected directly to a power amplifier instead of an intermediate preamp or

all-in-one integrated amp. This cuts down on superfluous boxes and unnecessary circuitry which, in many instances, just gets in the way of the music.

If you use one of these digital volume controls, however, do remember to check that it hasn't defaulted to maximum output before firing-up your second CD!

Equally importantly, the diverse internal technologies of these budget players ensure that they perform with the same rich variations as their more costly counterparts. Some players still use the original style of multi-bit converter's to translate the CD's digital data into recognisable music. This technique relies on converting entire 16-bit 'words' of information at a time, yielding a wide dynamic range at the expense of slightly increased distortion.

Other players rely on one of a new generation of bitstream converters which reduce these unwieldy 16-bit digital words into smaller packets of four or fewer bits. Smaller chunks of data are processed at an appropriately higher speed, avoiding the uneven steps and distortions of multi-bit converters at the expense of extra noise, both in and out of the audio band.

In an effort to gain the best of both technologies, some CD players use part multi-bit and part bitstream (so-called hybrid converters) though these have their own, unique, distortions.

But you need not fret over the relative compatibility of different CD players because, regardless of the technology, they must all still conform to certain agreed standards. Every CD player will handle both the standard 12cm and 5cm silver discs, will offer the same basic track skip, pause and stop facilities, and will require the services of a line input on your amplifier.

Never connect a CD player to an input marked 'phono' or 'disc' on your amp the result will be dreadful - but use a line-level connection such as aux, tuner, tape or one marked specifically for CD instead. CD compatibility is assured. But good sound quality? Now that's another matter altogether...



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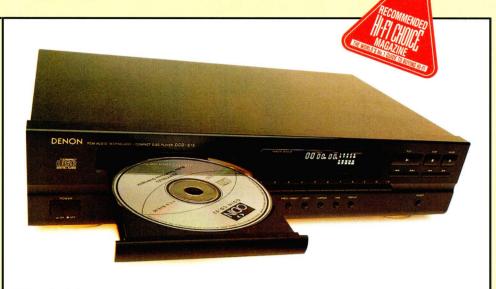
# **DENON DCD-615**

was rather looking forward to grappling with Denon's fanciful propaganda yet, sadly, its description of the new DCD-615 appears to be based on fact rather than fantasy. Could this be the beginning of a trend? I am bound to point out that the '20Bit, 8 times oversampling' flashed across the new rounded facia alludes to the resolution of NPC's oversampling filter and not the DAC. Other than this. however, the DCD-615 is sufficiently impressive to stand on its own four hype-free feet.

The guts of the player are culled from Denon's earlier DCD-595 (issue 128) with both models sharing the same 18-bit digital backbone, the same remote control (with its 12-step volume facility) and the same range of useful onboard widgets.

These include direct track access, 20track programming, auto-edit, auto-space, repeat and display dimmer facilities. On the debit side, the compact fluorescent display is cramped. Denon has responded to an earlier whinge, however, using a decent crystal-based clock rather than a ceramic resonator in the DCD-695.

Not only will this ensure the accuracy of track time information but it has also



permitted the addition of a reliable digital output to service future upgrades.

#### **Sound Quality**

No one could fault the composition of this player's music, at least in the technical sense. It certainly differentiated the two hands playing the piano through Lyle Lovett's Black And Blue as slickly as the dry pitterpatter of percussion. Nevertheless the musical thread quickly became frayed. "Rather than play from the heart", our

panel suggested "it intellectualises its music, draining a little spontaneity for a more arid and analytical approach".

Prokofiev's Romeo And Juliet sounded as if it were being led by several different conductors, leaving the percussion and strings, for example, playing in concert but not necessarily in harmony. Plenty of precise and articulate detail then, but conveyed in a way that just fails to gel.

This is a pity, for Cassandra Wilson's In My Kitchen sounded extremely positive, the thunderous bass line underpinning her confident-sounding vocals to great effect. Regular readers will recognise this as a hallmark of past Denon players but in this instance the artistic impression of the player is clearly suffering for its eagerness to please in the technical department.

#### Conclusion

The subjective parallels between this guietsounding and articulate DCD-615 and the dark subtlety of its forebear, the DCD-595, are plain enough for anyone who cares to peruse issue 128. So, once again we have a budget Denon player that eschews the charisma of its bigger brothers, in this case the fab DCD-825 (issue 137), and opts to feed the brain rather

than the soul.

But even if Denon's DCD-615 tickles the grey matter more effectively than your emotions, it remains a precise and remarkably sophisticated package. And all at a terribly unsophisticated price. Highly Recommended.

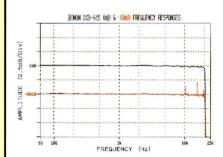
#### LAB REPORT

Maybe responding to our misgivings in issue 128, Denon has revised its Master Clock circuit with a crystal oscillator, reducing clock error from a lax +1807ppm (DCD-505) to a negligible -3ppm. Otherwise the basic complement of NPC's SM5841 8x oversampling filter and 18-bit Burr-Brown PCM61P DACs is unchanged.

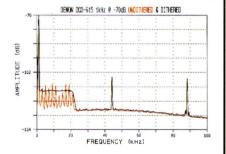
This choice determines the 54dB stopband rejection, the low 0.001-0.02 per cent distortion and very wide 109dB S/N ratio.

The wide S/N ratio and dynamic range is a benefit of conventional multibit DAC technology, advantages that must be ranged against the huge +1odB noise modulation and higher THD (typically 0.03-0.06 per cent @ -3odB) experienced at medium signal levels.

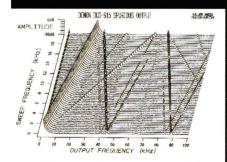
Low-level linearity is a little off that achieved by the DCD-595, but otherwise all is very well indeed.



A very flat response with the mildest rippling caused by NPC's 8x oversampling filter.



A great result demonstrating a wide dynamic range but more leakage of  ${\sf F_S}$  and  ${\sf 2F_S}$  sample tones than DCD-595.



Like the DCD-595 (issue 128), V-patterns of stopband noise escape the 8x filter while 2nd/3rd harmonics escape the DAC.

detailed, great depth and transparency. Digital output. Not flamboyant enough — the accountants choice.

SOUND \*\*\*\* VALUE \*\*\*\* PRICE £180

Mayden Laboratories Ltd, Chiltern Hill, Chalfont St Peter, Gerrards Cross. Bucks SL9 9UG.

(01753) 888447

# DUAL CD1001RC

his is only the second time we have reviewed a CD player from Dual, a West German company whose reputation is founded, in the UK at least, on the death-defying longevity of its CS505 turntable. Still going strong after some 16 years, this £200 LP player is now joined by no fewer than four sub-£200 CD players.

The CD1001RC is the biggest and boldest of Dual's quartet, its broad shoulders supporting a wide variety of user-convenient widgets. These large and clearly-labelled keys will prove a blessing for fatthumbed enthusiasts who are irritated by the tiddly buttons which punctuate the average CD player.

Groups of widgets, catering for direct track access, 32-track programming, a 10-second intro search, three repeat modes and random play, will keep feature-fans blissfully happy. Dual has also provided tape edit, index search and display dimmer facilities by way of a bonus on its remote control.

Under the bonnet, however, the Dual is dominated by a highly complex LSI (largescale integrated circuit) from Yamaha which combines the servo controls required by the



CD transport together with error correction, 8x oversampling, 3rd-order noise-shaping and a bitstream DAC to convert the numbers into music. All this on a single slab of silicon!

#### **Sound Quality**

"Shame about the bass player having died like that" remarked one listener in response to the fast, furious but oddly bass-free rampage of Stevie Ray Vaughan who, it was suggested, had now swopped his plectrum

for a wet halibut. Our next selection had the traditionally droll and gravelly tones of Lyle Lovett transformed into the silky-smooth soul of Georgie Fame, his voice sounding larger but lighter than usual while the accompanying piano and percussion were squeezed into the far corners of the room.

Lighter aspects of percussion from Prokofiev's Romeo And Juliet sounded very free and refreshing but this still tended to create a somewhat detached acoustic. Sadly, our listeners were drawn once more to criticise the lack of bass weight, now sorely undermining the strength and substance of the performance as a whole.

Naturally, Dual's player is not entirely lacking in warmth, even though the splodgy, one-note bass of Cassandra Wilson's Come On In My Kitchen proved LF was often misdirected. "Rather like queuing for a bus", our panel concluded "it all turns up at once".

#### Conclusion

This is an unusual machine, not only for deploying little-used digital electronics and analogue op-amps but also because its PCBs are marked-up for the CD-3700. Another player in another country, perhaps?

#### **VERDICT** Quick, slick and ideally suited to light classical music. **Fundamentally bass** light, old-fashioned sound and appearance. SOUND \*\*\*

VALUE \*\*\* PRICE £180

M RAM UK Ltd, Unit 27, Stretford Motorway Estate, Barton Dock Road, Manchester M32 oZH. 0161-8668101

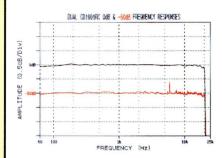
There's no disputing the generous array of features and smart-looking remote, though. These help fire the Dual from the starting blocks even if it snags its bass on the first hurdle and sounds a touch neutered.

#### LAB REPORT

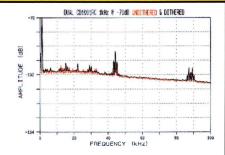
I expressed misgivings over Yamaha's YDC103 'playeron-a-chip' LSI while reviewing its CDX-670 unit back in issue 124. More than a year later, the chip's tell-tale bugs have resurfaced in this Dual player. The +12dB bumps on the 3D plot are particularly characteristic.

It has to be said that Yamaha's implementation produced significantly better results than those from the CD1001RC. For starters, the latter's claimed S/N of 121dB is inflated by digital trickery; in reality the 87dB S/N equates to a sub-standard 14/15-bit performance.

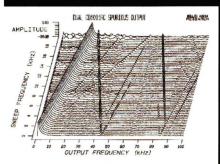
This high level of, presumably, re-quantisation noise also bumps-up the perceived THD+ noise through its midrange (typically 0.04 instead of 0.01 per cent at -3odB). Finally, this squashes the practical dynamic range by a good 10dB compared with Yamaha's CDX-670. Its 1.8V peak output is also rather low.



Poor S/N ratio is reflected in the noisier appearance of the player's low-level frequency response.



Reduced dynamic range with no demonstrable advantage obtained by using dithered signals.



Welts of noise and distortion, caused by a digital overflow, appear near the top of the player's dynamic range.





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# JVCXL-V274

aving just edited the day's listening notes and completed my lab test of JVC's new budget CD player, I checked back on our earlier reviews of JVC goodies from yesteryear. Imagine my surprise then at finding JVC's XL-V274 already on page 54 of issue 128. Only then it was called the XL-V264!

Now call me cynical, but I really cannot see the difference between last season's *XL-V264* and this season's *XL-V274*. For example, they both share the same direct track access keypad, the same repeat, program and random play modes, the same tape edit and DDRP (Dynamics Detection Recording Processor) modes.

Even the layout of the facia — including its fluorescent display — looks identical, right down to the variable output headphone socket. And yes, they both share the same remote control.

Under the bonnet? Unfortunately I did not have an *XL-V264* to cannibalise. Nevertheless, judging by the response of our blind listeners, the plots and panel of test results (which are almost too close for comfort), it's unlikely that there have been any major revisions.



Now, I wonder whether the other hi-fi magazines have picked this up...

#### **Sound Quality**

Unaware that they were, in effect, listening to a CD player that they had already auditioned a year ago, the panel offered a remarkably consistent opinion. This version was described as warm and effusive, a characterful player that trips merrily along until tripped-up by a strong bass rhythm.

There's no lack of bass, yet what exists sounds fat and ponderous compared to the relative agility of its mid and treble.

Prokofiev's Romeo And Juliet ballet was likened to "a funeral march" thanks to the leaden sound of double bass, timpani and cello. However, the grumbling bass from Cassandra Wilson's CD sounded especially powerful, with great dollops of LF energy.

Rather like the action of a loudness button, JVC's XL-V274 tends to reinforce the impact of bass while intensifying the brightest treble detail. The right hand of Lyle Lovett's piano, for example, sounded penetratingly sharp, just as the thudding double bass from Cassandra Wilson's Tell Me... was described as "double-barrelled".

On the one hand its music sounds big, brassy and colourful; on the other, it's often oppressive and artless. Funnily enough, we said pretty much the same thing about the XL-V264 only a year ago.

#### Conclusion

Anyone who missed the *XL-V264* first time around can hop aboard the *XL-V274* — and at no extra cost — if they really want to enjoy exactly the same blend of generous facilities

with a distinctive but gaudy sound.

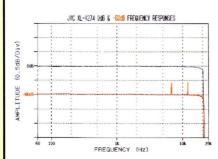
Bass freaks will be perfectly at home with this player though it's likely to prove a little too smothering for the rest of us. How about some genuine changes for next season,

#### LAB REPORT

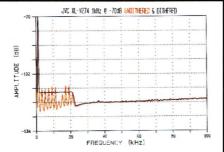
Once again, this player uses JVC's MN35500 DAC which includes 64x oversampling, variable-order noise-shaping and a Pulse Edge Modulation bitstream output. Technically it's extremely advanced, offering a minimum 0.0004 per cent distortion, a superb low-level linearity with errors of just 0.3dB over a full 100dB dynamic range and a fabulous 108dB S/N ratio.

These specs, plus the >106dB stopband rejection, run close to state-of-the-art for any bitstream player at any price. Compared to the XL-V264, however, there are few genuine differences — even the -6odB response has an identical 'blip'! Channel separation, distortion, linearity, S/N and even the 2.12V output level are the same.

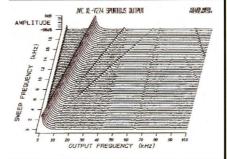
Look closely and you'll see the V274's response is down by 0.13dB at 20kHz compared with the V264. But this is clutching at straws, folks.



Very flat, ripple-free responses demonstrating excellent linearity and low-noise.



A perfect result showing the dithered signal (black trace) converting all distortion harmonics to random noise.



JVC has one of the best digital filters there is, removing stopband noise but leaving distortion from the DAC.

**VERDICT** 

Weighty, and richsounding player.

tends to drag.

SOUND \*\*\*\*

VALUE \*\*\*

PRICE £160

✓ JVC UK Ltd, JVC House, JVC Business Park, Priestley Way, London NW2 7BA. ② 0181-450 3282

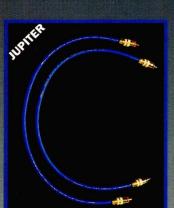
eh JVC?



#

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# **KENWOOD DP-3060**

o-one could ever accuse Kenwood of not sticking to its guns. Four years ago it was the first manufacturer to use a bitstream DAC from NPC (Nippon Precision Circuits), an association it has maintained through the DP-4030 (issue 95), DP-3040 (112) and DP-3050 (124) — all players pitched at the pivotal £200 price-point.

Rather like sticking with the same Lottery numbers week in, week out, for a few million years, this faithful approach has ensured Kenwood finally gets its slice of success. This, then, is the new *DP-3060*, logical successor to the ill-fated DP-3050 with a similarly broad range of features now re-distributed over a curved facia.

I'm bound to say that the top right hand corner is an odd place to stick an eject key but I imagine that anyone who buys the player will soon get used to its quirky layout. With direct access, program, repeat and random play plus peak search, digital volume and multi-disc edit on offer, there's plenty to tempt the impulse purchaser.

#### **Sound Quality**

Such is the sedate and sophisticated composure of this player that you'd never



guess you were listening to a beer-budget machine. Just as importantly, this sense of equanimity is not achieved by squashing the passion from its music. We were mightily relieved to rediscover the sultry intensity of Cassandra Wilson's In My Kitchen, gutsy music that reflected the sturdy but honest sound of the player itself.

The Kenwood can decipher fairly complex rhythms, whether this be the layering of performers marking the tight but tidy intro to Lyle Lovett's Black And Blue, or the seemingly

unstructured percussion and guitar that open Cassandra Wilson's Blue Light CD.

Our listening panel also applauded the DP-3060's coherence, its smooth and evenhanded balance builds along with the developing interplay of its music, rather than limiting its resolution or crumbling into an untidy heap. Masks from Prokofiev's Romeo And Juliet built from near-silence. instrument on instrument to convey a busy and complete picture rather than one dominated by certain instruments.

Sure enough, the DP-3060 is not perfect. It lacks a certain colour and flamboyance and can sound a little thin and restricted, especially through the bass. Yet this is nit-picking in relation to its potential for expanding to accommodate future upgrades to the remainder of your system. A good 'un.

#### Conclusion

This player marks a significant upturn in Kenwood's fortunes, a player that will not seem out of place in a costly system and proof positive that budget players do not have to sound cheap.

And to get this you aren't expected to forfeit any shred of convenience. Indeed the DP-3060 is as generously equipped as the

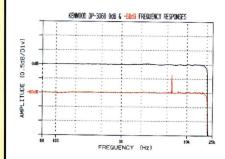
average fly-bywire cockpit, **VERDICT** providing a rare Positive, dynamic and very composed. A toe-tapping player. Could possibly example of the 'complete' sound a little too budget CD small, or even thin, player: one that's beautifully built, luxuriously appointed and sounds implausibly expensive. A clear-cut Best Buy.

#### LAB REPORT

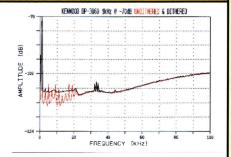
Kenwood's latest update to the third generation of NPC's combined digital filter and bitstream DAC IC (the SM<sub>5</sub>8<sub>72</sub>) has worked wonders. Gone is the massive splurge of re-quantisation noise which was almost guaranteed to upset the constitution of some amplifiers. Gone, too, is the insidious rippling of its response, caused by unsophisticated digital filtering.

Indeed the new SM5872, and Kenwood's use of it in the DP-3060, marks a hold step in the right direction. Low-level linearity is improved from errors of nearly -3dB to just -1dB over a full 100dB dynamic range while the 103dB S/N ratio is superior to that achieved by Marantz with the chip in either the CD-53 or CD-63.

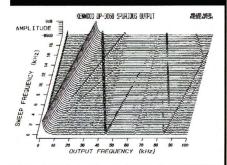
Distortion is extremely low too, just 0.009 per cent midband at the musically important -3 odB - a possible benefit of Kenwood's refined H.P Master Clock circuit.



Very flat response that remains unchanged at low levels. Just a hint of rippling from digital filter.



Wider dynamic range and far lower ultrasonic noise than achieved by the older DP-3050 (issue 124).



Spot the difference between this plot and the Marantz CD-53 — yep, they're using the same digital filter and DAC!

# **MARANTZ CD-53**

hink you've seen this player before? Well you have, in the superficially identical form of Marantz's CD-63 (issue 137). Indeed, both players share the same CDM12 CD mechanism, the same slimline chassis and 'Softline' facia plus exactly the same range of direct track access, program, edit mode and display dimmer facilities.

They even share the same remote control with its extra repeat, random, intro scan and digital volume facilities. So why, I hear you ask, does the CD-53 represent a valuable saving of some £50 over the CD-63? The answer, as ever, lies under the bonnet.

Here we find the digital building blocks of the CD-63, including

Philips' SAA7345 decoder and a combined 8x oversampling filter/bitstream DAC from NPC. However where the CD-63 features Marantz's fully-discrete HDAM op-amp the CD-53 features a blank section of PCB track.

Other treats in the 63 include Cerafine and Silmic power and decoupling capacitors that have been swopped for standard ELNA's in the 53. Bead capacitors are replaced by ceramics while the optical output and rubber grommet, normally used to damp the crystal,



are given the chop. A tidy little list that clearly separates the CD-53 from the CD-63.

#### **Sound Quality**

These compromises ensure that the CD-53 is neither as sophisticated as the CD-63, nor as obviously "jazzed-up" as the older CD-52 (issue 119). Instead, the CD-53 treads a more sober path, allowing its bass free rein, as our panel would have it, to "flop about rather than drive the music along".

In many respects this is the antithesis of Denon's DCD-615, its rich and rolling character lacking both focus, articulation and fine detailing yet still succeeding in conveying its music in a thoroughly emotive fashion.

As a result both the flowing lyrics of Lyle Lovett's Black And Blue and the relentless build-up to Prokofiev's Romeo And Juliet sustained our listeners' attention despite their exposure to both pieces. Yet extreme treble and bass are certainly lacking, stripping a little weight from Prokofiev's double bass and timpani and also dulling the shine from Stevie Ray's metal-stringed guitar.

Once again, however, the CD-53 continues to impress by successfully grappling with the basic passion — the "meat and two veg" of its music while still flaunting what was described as a "technical apathy".

#### Conclusion

Somewhat unusually for Marantz, this player has not been designed to leap out and grab you by the ears. Indeed, on the basis of a quick A/B dem it's unlikely to sound terribly incisive, immediate or raunchy. Moreover you wouldn't necessarily liken its performance to the subtlety and scale achieved by the

costlier CD-63.

In truth, the CD-53 is a no-nonsense machine whose technical heritage seems merely incidental to the highly individual character of its sound. In our panel's words, "this is one to buy in haste and

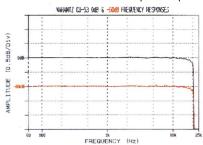
savour at leisure".

#### LAB REPORT

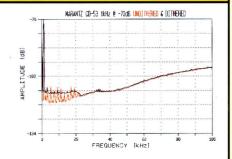
Comparisons with Marantz's CD-63 from issue 137 are fascinating — despite numerous revisions, there are few differences in the two player's basic performance. The increase in peak-level THD from 0.0006 to 0.02 per cent across the audio band, the 54dB suppression of stopband noise and kink at 5kHz in the de-emphasis routine are all functions of the SM5872 filter/DAC IC.

Other features, like incredible channel separation, high 2.3V output and moderate 2200hm impedance are linked to both the common layout and analogue circuitry. Yet subtle distinctions do exist.

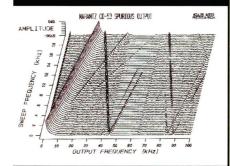
This CD-53 is actually more linear than our sample of the 63, while there's a slight change in its HF response. Furthermore both its noise modulation and 'real' S/N have deteriorated by nearly 1dB. As before, the key to understanding the gulf between the CD-53 and CD-63 boils down to the 'sound' of their respective capacitors.



By removing the HDAM buffer, Marantz avoids the slight treble dip seen in the CD-63 (issue 137).



The blip of 3rd harmonic distortion and sweep of ultrasonic noise is indistinguishable from the CD-63 (issue 137).



The streak of 2nd harmonic distortion and partial V-patterns of stopband noise are a 'fingerprint' of NPC's SM5872 filter/DAC.

**VERDICT** 

Sweet-talking CD player from past masters of the art.

Lacks deep bass and high treble. Delicacy

has been abandoned.

# **NAD 501**

hen it comes to slim, grey CD players devoid of all but the most crucial widgets, NAD has the market sewn-up. Previous players, including the 5425 (issue 95) and 502 (issue 119) have proved unique in applying the audiophile principle of minimalism to a product group normally associated with features, facilities and flashing lights.

Technophobes will be delighted to learn that the 501 is no different. Indeed, the first new player from NAD in the best part of two years is perhaps the least well-equipped yet. Many consumers might accept the loss of a direct access keypad, a variable or headphone output or even a multi-track program facility, but a £180 player without a remote control is downright puritanical.

In its defence, NAD points out that the 501 is designed as a low-cost, entry-level player with the emphasis firmly on sound quality, not convenience. I'd agree. Indeed, you could easily argue that the 501 is a downright inconvenient CD player.

Furthermore, and despite appearances, the 501 bears no relation to the 502. Here the 502's Sony mechanism and Technics MASH/PWM DAC are replaced by a decent Philips CDM4 transport and one of Philips'



early SAA7323 bitstream DACs — the very same combination that powered Rotel's RCD-965BX to glory back in issue 100.

#### **Sound Quality**

Without wishing to appear contradictory, the NAD 501 sounds quick-paced but also restrained, as if it were spoon-feeding measured portions of slick and tidy detail. Lyle Lovett, for example, sounded a little more reserved than he usually does but the 501 didn't smother the catchy bass line or

mute the delicate patter of tiny hi-hats. It's all there, but in miniature.

'A neat terraced house rather than a rambling mansion' remarked our listeners by way of comparison with Marantz's CD-53. Prokofiev's Romeo And Juliet was pulled from a marvellously dark and clean acoustic. conveying much of the ballet's atmosphere but not the sheer power and dynamics of. say, the string section. So its performance is incomplete but remains engaging, albeit as a result of musical subterfuge.

Still, the 501 is less successful with fiercer recordings — such as Cassandra Wilson's In My Kitchen — where the player clamps down on powerful vocalists, making them sound pinched and inflexible as they are funnelled unsympathetically from the speakers.

#### Conclusion

Having steadily built-up a head of support from our panel, NAD's 501 fell at the final fence as our dynamic-sounding pop selection highlighted an inescapable Achilles heel. Specifically, the player has a tendency to cramp the style of any music that falls outside its precisely determined remit.

"It is," the listening panel suggested, "a duffle bag on the great baggage carrousel

#### VERDICT A very neat and tidy sound from a neat and tidy player. Imposes too much restraint on freely dynamic material. No remote control.

VALUE \*\*\*\* PRICE £180 ⋈ NAD Marketing Ltd,

NAD Building, 401-405 Nether Street, London N3 1QG. 0181-343 3240

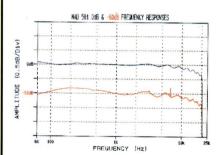
of life". A strange but uncannily appropriate analogy bearing in mind the player's eccentric appearance and its aversion to user-friendly features. One for the non-

conformist.

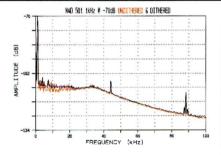
#### LAB REPORT

Despite using a classic SAA7323 bitstream DAC, NAD's implementation alters its 'fingerprint' when compared with the likes of Rotel's RCD-965BX and AMC's CD6  $\,$ (issues 100, 124). NAD has drafted in extra analogue filtering which cuts back on all spurious output above 35kHz (see 3D and -7odB plots) but also influences the treble in the audioband (see response plot).

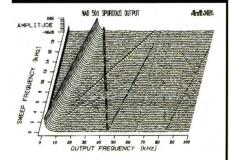
This explains how NAD has maintained a moderate but very even spread of distortion right up to 20kHz, clocking-up some 0.006 per cent at odB and 0.01-0.03 at the musically important -3 odB. Ordinarily, distortion from the SAA7323 DAC will increase by a factor of ten from 1kHz to 20kHz. The just-about-16-bit S/N ratio of 97dB is pretty typical, however. One final point. NAD has hiked its output +2dB above many competing players so beware of indiscriminate A/B dealer demos.



Strong rippling from Philips' integral 256x oversampling. Bass boost at low levels also seen in issues 100 and 107.



Dithering should remove harmonics (black trace — see issue 107). Note effect of NAD's analogue filter above 35kHz.



NAD's analogue filter effectively removes the second stopband image, normally seen fanning out from 88kHz.



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# PHILIPS CD740

ollowing what looked like a period of commercial hibernation, Philips has emerged with a raft of new digital ICs and associated hardware. These components are represented in CD players from competing manufacturers as well as in Philips' own line-up. The CD740 is just one example that, superficially at least, is based on the CD750 reviewed in issue 137.

Here we find the same CDM12 linear-tracking CD transport, the same chassis and facia design with provision for direct track access, repeat and random play, 30-track programming and 'Edit Optimal' which re-arranges the playing order to suit recording onto specific lengths of tape. Philips has

even retained its novel remote volume control that adjusts the signal level on both analogue and digital outputs, a feature that's linked to the player's fade-in and fade-out facility.

It's goodbye, however, to the FTS and Personal Preset memories and also the wellknown BS DAC which has been traded for a new TDA1549 BCC DAC. In practice this fledgling converter is rather like the TDA1305 featured in Cambridge's DAC-Magic (issue 136), albeit with lesser digital filters.

Philips describes it as a mixture of (1-bit)



Bit Stream and (multi-bit) Continuous Calibration technology even though it has retained the familiar PDM bitstream Conversion logo on the CD740's facia. As this is not a pukka PDM player, I'd suggest that Philips' dreams up a new badge to accompany this technological offshoot.

#### **Sound Quality**

Falling smack in the comfort zone, this studious-sounding player soon had our listening panel snoring in agreement. It is

tailor-made for late night listening, with a very dark and almost dreamy balance that ensures the most raucous styles of music remain entirely palatable.

"There's much more of a smooth Galaxy bar about this player than the bitter tang of Bournville chocolate" suggested one listener whose blood sugar was obviously on the wane. Stevie Ray, meanwhile, lacked direction and momentum just as the walking bass line from Lyle Lovett's Black And Blue was criticised for wandering a little too aimlessly.

Even Cassandra Wilson who, thanks to her microphone technique, normally sounds very immediate, forceful and vibrant, was obviously muted on this occasion as her fizzy vocals were traded for an altogether gentler and less demanding outlook. "Like the average hippopotamus" remarked the panel "this player needs to lighten-up".

#### Conclusion

This is only the second time we've reviewed a CD player based on one of Philips' new BCC converters but, with so many versions now on general release, I'm sure that many other manufacturers will soon be hot on the trail.

Nevertheless, in this instance I cannot help

#### **VERDICT** 'Dinner jazz' machine that won't tear your ears off. Needs jazzing-up to stop listeners nodding off. SOUND ++++ PRICE £170 □ Philips Consumer Electronics Ltd, The Philips Centre, 420-430

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CR93QR.

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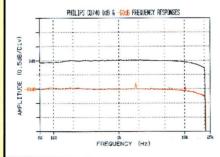
but feel Philips has erred on the side of caution, engineering a player with a tendency to smother the life and spontaneity of its music. No nasty shocks from the CD740 then, but flashes of brilliance are equally unforthcoming.

#### LAB REPORT

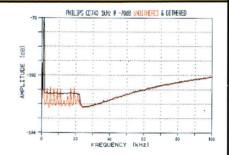
Philips' new TDA1549 BCC DAC contains a 3-stage digital filter (amounting to 96x oversampling) with a 2nd-order noise-shaper that truncates 16-bit to 5-bit data. This then feeds two pairs of high-speed 4-bit multi-bit converters (amounting to 5-bits per channel), requiring a very gentle 1st-order analogue filter.

The good news includes low 'bitstream-like' distortion of just 0.02 per cent (midband, -3odB), good low-level resolution and a wide S/N ratio of 105dB. This is slightly better than most bitstreamers but slightly worse than that expected of a good multi-bit DAC.

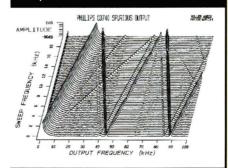
The bad news hinges both on the appalling 29dB suppression of its digital filters and the high +15dB noise modulation - steep even by multi-bit standards and hardly a boon for sound quality. And then there's the reduced bass output which falls by 1.7dB at 20Hz.



The digital filter may be naff but at least the player's response escapes any obvious rippling.



A wider dynamic range, lower (dithered) distortion and ultrasonic noise than Philips achieved with its Bit Stream DACs.



The CD-740 has low harmonic distortion but oversampling filter lets through huge stopband images (V-Patterns).

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# PIONEER PD-S503

hree years ago, players using novel digital filter technologies, like Wadia's Digimaster signal processing, would have cost you thousands of pounds. Since then Pioneer has hijacked the idea, condensed Wadia's DSP16 processors and EPROM look-up tables onto a single IC and called it 'Legato Link Conversion' (LLC).

Incidentally, if you've read the propaganda on the respective benefits of the Digimaster and LLC eight times oversampling filters, you'd never guess they amounted to one and the same thing! For a more thorough discussion, please refer back to issue 113.

For the current season, Legato Link has been combined with Pioneer's own PFM bitstream DAC to reduce costs even further. So the PD-S503 amounts to the cheapest LLC player to date, a player that combines the bare digital bones of Pioneer's PD-S703 (issue 137) with the aesthetics of the old PD-S501 (issue 112).

Press the eject key and out slides Pioneer's upside-down 'Stable Platter' mechanism. Load-up and you'll have access to its direct entry keypad, program, peak search, auto tape edit, highlight



scanning and repeat play facilities. Quite a tidy package and complemented by a remote handset with volume control.

#### **Sound Quality**

In common with previous Legato Link players. the 503 got a very mixed reception — hardly surprising, given its varied interpretation of different music. Lyle Lovett sounded more distant than usual, the player's easy-going, wallpaper-like quality inspiring our panel to suggest this was a "ready-pasted CD player".

Prokofiev's Romeo And Juliet sounded comfortable, weighty and moderately detailed yet the performance still lacked energy, life and spontaneity. Cassandra Wilson also sounded very flat, dry and insipid, her strong bass line lacking the grumbling resonance that would otherwise keep this track rolling along. Instead it simply proved 'rather too much like hard work'.

Otherwise the PD-S503 still has a habit of sounding unduly loud, shouting rather than reflecting a true sense of musical and dynamic contrast. This sharp and glaring quality seems quite at odds with the recessed treble and inoffensive balance heard with other selections of music. So, if nothing else, the PD-S503 will always keep you guessing.

Ever since we first clapped ears on Pioneer's Legato Link technology, over two years ago in issue 112, we have continued to obtain unpredictable and inconsistent results. The original PD-S801 Legato Link player prompted our panel to suggest it was "easy going yet with an uncanny ability to offend", a dichotomy not unlike our panel's epitaph

"Rather like a chameleon with an identity



#### Conclusion

for this latest PD-S503.

suggested, "this player does not adapt itself to the tonal colours musical styles with any great success". It's another love it or loathe it verdict for one more in a long line of Pioneer's Legato

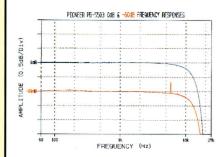
Link CD players.

#### LAB REPORT

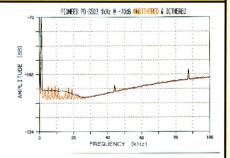
Pioneer has deployed its new PD-2029A combined LLC filter/DAC in both its PD-S703 (issue 137) and PD-S503 players, so both enjoy the same low distortion, good low-level linearity and acceptable 102dB S/N ratio typical bitstream-like results.

The effect of the LLC filter is more dramatic. Hence the 7dB 'rejection' of stopband noise at 24.1kHz is just an indication of how Pioneer dovetails these digital images into the genuine audioband signals (see 3D plot). Sadly, it also allows sampling tones at F<sub>S</sub> (44.1kHz), 2Fs, 3Fs etc to leak out - hence the 28mV recorded at 176kHz (4F<sub>S</sub>).

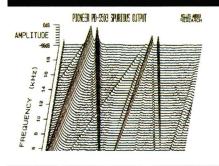
The high 2.4V output is rather cheeky (beware quick A/B dems) but its 1.1kOhm impedance is also less than ideal for long cable runs, especially as its treble response is already greatly modified by the LLC filter.



Pioneer's LLC filter starts well inside the audioband, providing the now familiar 4dB cut at 20kHz (-14dB @ 25kHz).



Dithering removes distortion but both 44/ 88kHz sampling tones and requantisation noise are higher than earlier LLC models.



The LLC 'filter' allows stopband images to collide with the audioband, creating the illusion of a response beyond 22kHz. **VERDICT** 

could work wonders

in the right system. Unpredictable; high

output level will

confuse in dems.

# SONY CDP-312

ather like a cheap pork pie, the insides of this budget player are 95 per cent fresh air. But you cannot whittle down the cost of a CD player without making the odd concession. Even for a player which, despite obvious differences in appearance, is quite clearly derived from the fab CDP-311 which received a Best Buy a year ago in issue 128.

In the event, Sony has succeeded in trimming £20 off the player's ticket by abandoning widgets like a headphone socket, peak search and variable intro scan while moving others, like the direct access keypad and fader, to the seclusion of a matching

remote control. This still leaves the CDP-312 with a generous roll call of features. More than enough, in fact, to give most players at £180-£200 pause for thought.

Under the bonnet, you'll find that Sony has condensed much of the crucial signal processing, including oversampling, noiseshaping and the Pulse bitstream DAC onto one busy little IC, a chip first seen in the CDP-311. This is the principal reason why such a flexible player can be produced so



economically. However, as we were to discover, the implementation of this selfsame circuitry is just a little rougher in this bargain-basement CDP-312.

#### **Sound Quality**

The 312 reminded our panel of that famous Sherlock Holmes adventure The Strange Case Of The Disappearing Instruments. By way of example, the sizzling cymbals from Stevie Ray's Stang's Swang popped periodically in

and out of earshot, leaving a full but phasey bass line to sustain the rest of the track.

THEORY

Yet, compared to others in this test, the CDP-312 is at least a rousing and energetic performer, one that's prepared to jump in at the deep end and expose much of the music's natural dynamics and drama. However, this is won at the expense of a technicolour midband, bringing what was described as "a quacky and plastic kazoo-like coloration" to what should have been the fulsome and raspy character of Prokofiev's brass.

Sibilance, where it occurred, was often laser-etched in its ferocity, leaving the likes of Cassandra Wilson sounding as if she were "frying tonight". Nevertheless, the CDP-312 could never be described as timid or selfeffacing. It's a rough diamond, but more rough than diamond.

#### Conclusion

By way of conclusion our panel suggested that the CDP-312 "has all the hallmarks of a Ratner's CD player, providing plenty of injection-moulded glitter at a bargain price". It's certainly a very free-spirited player, albeit one that's unable to disguise its budget heritage as effectively as the classic CDP-311.

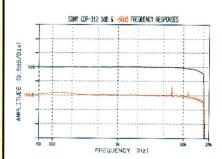
This shows the impact that small cuts in price can have on the overall calibre of such affordable players. But with the CDP-311 as its foundation, the 312 always had an advantage. Recommended then, for the seriously strapped.

#### LAB REPORT

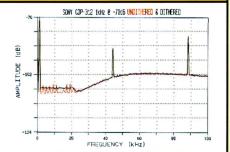
In perfect accord with the impressions of our panel, the technical implementation of this CDP-312 is, indeed, less sophisticated than the Best Buy CDP-311 (issue 128). The CXD2565 oversampling/noise-shaping/ DAC IC is revealed by the typical 74dB stopband suppression, the increase in distortion from 0.002 per cent at 1kHz to some 0.04 per cent at 20kHz and the kink in low-level resolution at 20kHz.

However, in this particular application we see its S/N deteriorate from 97dB to 95dB together with the leakage of both  $F_s$  (44.1kHz) and  $2F_s$  (88.2kHz) sample tones. These are visible on both 3D and -7odB plots.

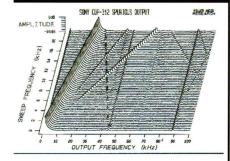
This throws up the possibility of digital/analogue cross-coupling which, in turn, could well be responsible for the disruption of its low-level frequency response (red trace). Either way, it's bad news for sound quality.



The other plots show sample tones, but the rippled low-level response provides evidence for unwanted cross-coupling.



Dither eliminates low-level distortion but other compromises have released 'sample tones' at 44kHz and 88kHz.



High frequency distortion is higher than stopband images. Note tones at 44kHz and 88kHz.

**VERDICT** 

You'll never have

sophistication of a hormone-crazed rhinoceros.

#### VALUE \*\*\* PRICE £156 Sony UK Ltd, The Heights,

Brooklands, Weybridge, Surrey KT13 oXW. (01932) 816000

# **TECHNICS SL-PG460A**

n the face of it. Technics' SL-PG460A looks like a potential bargain, After all, it's visually identical to the SL-PG440A that it replaces (see issue 124) yet saves you a tenner into the bargain. The same chamfered facia design, comprehensive range of facilities and posh 'curvilinear' remote are included so there's been no costcutting in the convenience stakes.

Once again, regular facilities like play, track skip, program, repeat and a headphone socket are offered-up at a finger-friendly angle while advanced widgets like direct access, peak search, auto cue and Technics' Edit Guide (including tape length, side A/B, disc link and time fade options) are scattered around its fluorescent display.

The catch? Well, this is where most hi-fi reviews stop but Choice's probing begins. Technics' has saved a bob or two by trading Philips' swing-arm CDM4 CD transport for the newer linear-tracking CDM12 mechanism.

More importantly, and following the lead of both Sony (issue 128) and Philips (issue 124), Technics has condensed the operations of its servo processor IC, digital signal



processor IC, oversampling filter and MASH/PWM bitstream DAC onto a single slab of silicon. This busy little IC is called the MN662713 — the nearest thing yet to a CD player-on-a-chip.

#### **Sound Quality**

Despite wholesale differences in technology, the apathetic sound of Technics' SL-PG460A was likened to Philips' CD740. "Same wine", they remarked "but a different bottle". Yet

this player is rather less sympathetic of vocal sibilance which it interprets as a slurring rather than a spittiness.

Initially, our panel thought its superficially rhythmic and detailed sound was promising but they soon became jaded by its flat, colourless imaging and muted dynamics. "About as stirring as instant Bisto" remarked one listener in response to the lethargic overtones of Prokofiev's Dance Of The Knights which now lacked its customary sense of drama, scale and tonal shading.

This impassive interpretation carried through to Lyle Lovett where the piano, bass and drums, rather than sounding in step, decided to meander off in different directions, as if the musicians had suddenly lost concentration. Another safe but thoroughly unadventurous player that, according to the panel, is "as risky as bottled shandy on a stag night".

#### Conclusion

At the sharp end of the CD scene, cost and convenience are king and, if the SL-PG460A is any guide, they clearly take precedence over the Holy Grail of gripping sound quality. In this instance it's as if Technics has tried for a



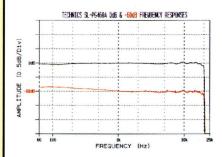
very neutral and even-handed balance. An option that has washed the life and vitality from its music and doused the fire that once burned so brightly in memorable budget wonders like the Technics SL-PG200A, a Best Buy of yore.

#### LAB REPORT

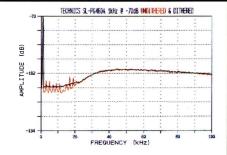
In common with a sample of Technics' SL-PG440A (issue 124) this SL-PG460A suffered from momentary bursts of distortion from transient signals occupying the top 25dB of its dynamic range. This is probably due to a spontaneous overflow of the noise-shaping loop yet, having now seen it twice, it's a bug in Technics' mathematics that needs sorting out.

Otherwise the 'character' of this new MN662713 chip is similar to the MN6475 MASH/PWM bitstream DAC used in the SL-PG340A, '320A and '420A (issues 128, 112, 107). Same stopband pattern and just-about-16-bit S/N but worse low-level linearity and LF distortion.

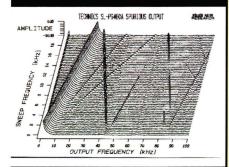
Technics also seems to have cut corners with the master clock (is this a ceramic resonator I see before me?), the vast 807ppm error equivalent to a +16Hz shift at 20kHz. Thank goodness there's no digital output.



Mild rippling entirely in line with SL-PG340, '320 and '420 (issues 128, 112, 107) despite new digital IC's.



Below average dynamic range and wave of requantisation noise is typical of previous MASH/PWM bitstream players.



V-shaped stopband images are typical of the MN6475 oversampling filters in the new all-in-one MN662713 chip.

# **CD PLAYERS**

# Conclusions, best buys and recommendations

*i-Fi Choice*'s policy of targeting extremely tight bands of products gives us a comprehensive 'feel' for performance in key market areas. On this occasion our blind listeners were very impressed with at least four of the ten players. Indeed, the best of this bunch are more than capable of fronting a very high quality system. However, the gulf between the pick of this crop and the best £250 players (issue 137) is still more significant than the mere fissure that lies between key £250 players and those at, say, £500.

And the moral of this tale? If you can scrimp and save that extra £50 then you'll be rewarded with a player of far greater

long-term potential. For the sake of £50, for example, the vivid quality that captivated us with Pioneer's *PD-S703* escapes the unpredictable *PD-S503*.

Despite using new and innovative technology and sounding neither aggressive nor jumbled the Philips *CD740* is too smooth and ponderous for its own good. Technics' *SL-PG460A* had a similar reaction, a genuine disappointment bearing in mind former Recommendations and Best Buys that have been handed down to the company's budget players.

Players like the Dual *CD1001RC* and JVC *XL-V274* provide a marked contrast, the latter for its ebullient bass and gaudy

musical colour and the former for its paucity at the bottom end.

Like Dual, NAD is an infrequent guest at our listening sessions. But this time round, NAD's obsession with fuss-free CD players hasn't delivered the goods. The 501 is too cautious with dynamics, and there aren't any widgets to compensate.

Sony's *CDP-312* is less tidy and refined than the *501*. Yet by balancing a rousing and overly energetic sound with a wealth of useful features, an attractive, well-built chassis and a generous price tag, Sony earns itself a Recommendation. That said, the *312* is a shadow of the £250 *CDP-715* that stormed to a Best Buy in issue 137.

The Denon *DCD-615* and Marantz *CD-53* won equal marks — and Recommendations — but for very different reasons. Neither has any advantage in the features stakes so your decision must be swayed either by the composed, detailed and measured performance of the Denon or the warts-and-all candour of the Marantz. Both are appealing yet neither is flawless. If the Denon let its hair down and the Marantz adopted greater civility, then perhaps we'd have had three Best Buys on our hands.

Only one of our budget wonders, Kenwood's *DP-3060*, warranted the Best Buy accolade. Based on the same chip as

#### Tricks of the trade

ou aren't supposed to notice it, but an insidious trend is on the increase: boosted output levels. If all CD players adhered to the standard 2V output then direct A/B comparisons between different models could easily be conducted on a fair and level playing field. Yet in this test, only Sony hit the 2V nail on the head. And unfortunately once a manufacturer decides to squeeze 2.1V or 2.2V from its player to confer some advantage on audition, the competition is likely to follow suit or even up the ante to 2.3V or more.

Even within this group of ten players, our tests revealed a massive +3dB gulf between the quietest (Dual CD1001RC) and loudest (NAD 501) players. All else being equal, this advantage in level will often be perceived as a bigger and bolder sound when you audition a player.

Choice is the only magazine to conduct blind listening tests with player outputs normalised to a fixed level. As a result we compare genuine rather than artificial differences between players, ensuring that our tests are authoritative, not arbitrary.

#### Measurement data at a glance

		Denon DCD-651		Dual CD1001RC		JVC XL-V274		Kenwood DP-3060			Marantz CD-53					
		20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz
CHANNEL BALANCE		0.1pB	0.1pB	0.1pB	0.4pB	0.3pB	0.3pB	0.1pB	0.1pB	0.2pB	0.0pB	0.0pB	0.1pB	0.0pB	0.0pB	0.0pB
CHANNEL SEPARATION		135pB	121 DB	97pB	107pB	102pB	84pB	124pB	106pB	78pB	106pB	103pB	92pB	155pB	135 DB	142pB
THD vs Level,	0pB	-100pB	-92DB	-73pB	-95pB	-89pB	-78pB	-101pB	-108pB	-84pB	-104pB	-102pB	-75pB	-103pB	-105pB	-75pB
	-30pB	-72pB	-70pB	-65pB	-84pB	-69pB	-66pB	-96pB	-83pB	-77DB	-94DB	-81pB	-69pB	-95pB	-81pB	-65pB
	-60pB	-48pB	-47pB	-56pB	-56pB	-38pB	-37pB	-59pB	-56pB	-51pB	-51pB	-47pB	-38pB	-51pB	-47pB	-35pB
	-80pB	-25pB	-29pB	-35pB	-28pB	-18pB	-17pB	-28pB	-31pB	-32pB	-26pB	-30pB	-18pB	-20pB	-24pB	-14pB
DITHERED,	-90pB	-14pB	-20pB	-25pB	-16pB	-9DB	-10pB	-18pB	-23pB	-21pB	-15pB	-20pB	-9pB	-9DB	-15pB	-5pB
DITHERED,	-100pB		-17pB			-1pB			-20pB			-15pB			-11pB	
DITHERED,	-110pB		-8pB			No Signa	L		-10pB			-6pB			-4pB	
RESOLUTION @	-60pB		0.0pB	0.0pB		0.0pB	0.0pB		0.0pB	0.0pB		0.0pB	0.0pB		0.0pB	0.0pB
	-80pB		-0.2pB	-0.2pB		-0.1pB	+0.1pB		-0.1pB	-0.1pB		-0.1pB	-0.2pB		-0.1pB	-0.2pB
	-90pB		-1.2pB	-1.6pB		-0.2pB	-0.2pB		-0.3pB	-0.3pB		-0.9pB	-1.3pB		+0.1pB	-1.1pB
	-100pB		-1.3pB	-0.4pB		+2.2DB	+2.0pB		0.0pB	-0.1pB		-1.0pB	-0.4pB		-0.4pB	-0.4pB
PEAK OUTPUT LEVEL,	L	-	1.898V			1.805V			2.121V			2.163V			2.310V	
	R		1.914V			1.867V			2.156V			2.159V			2.315V	
RELATIVE OUTPUT LEVEL			-0.4pB			-0.7pB		-	+0.6pB			+0.7pB			+1.3pB	
OUTPUT IMPEDANCE			678онм			1.1конм			677онм			402онм			2220нм	
RADIO FREQUENCY SPURIAE		5м	V@27&1	OMHz	2	OMV BROAD	BAND		20mV@28N	ИНZ	(	1mV broad	BAND	20mV@85MHz		۸Hz
1Hz Noise Modulation			+10.4pB			+0.5 DB			+7.7pB			+4.0pB		+6.6pB		
CCIRIMD,	0pB		-99nB			-87pB			-103pB			-101pB			-102pB	
SUPPRESSION OF STOP-BAND	IMD		53.6pB			75.8pB			>106pB			53.9pB			54.0pB	
DE-EMPHASIS ACCURACY,	1ĸHz		-0.1pB			0.0pB			0.0pB			0.0pB		_	-0.2pB	
	5ĸHz	0.0pB		0.0pB		0.0pB		0.0pB			-0.9pB					
	16ĸHz		-0.1pB			-0.2pB			-0.1pB			0.0pB			-0.3pB	
S/N RATIO (A-WTD), WEMP, C	LSB		109.0pB			121.1pB			√ 108.3pB			122.0pB			124.0pB	
w/o emp, OLS	В		108.9pB			121.1pB			108.2pB			122.0pB			123.8pB	
	W/O EMP, 1LSB		109.0pB		86.6pB		107.8pB		103.1pB			101.6pB				
DIGITAL OUTPUT			COAXIAL			COAXIAL			None			OPTICAL			COAXIAL	
CRYSTAL CLOCK ACCURACY			-3.2PPM			-0.8ррм			+116ррм			+147PPM			-0.4РРМ	
TRACK ACCESS TIME (99)			3secs		4SECS			5secs			3.5secs				3SECS	
SERIAL NUMBER			40845022	91		10448			168V000	5		4059905	5	M	Z00933103	1460
TYPICAL RETAIL PRICE			£180		2.0	£180			£160			£200			£200	

#### How to get the most from our lab measurements

#### **Understanding the Frequency** Response plot:

This graph demonstrates the response of the player at both peak level (odB, black trace) and at a low level (-6odB, red trace). Ideally the black and red responses should match one another. However an increase in noise or deviation in linearity is revealed by a change in the smoothness and extension of the red trace.

This plot demonstrates a rippling in the low-level response of Sony's CDP-312. Ripples in either response may be caused by the oversampling filter but 'wobbles' that only occur in the red (low-level) trace are more often caused by unwanted crosscoupling or an unstable Master Clock.

#### Understanding the dithered -70dB/1kHz plot:

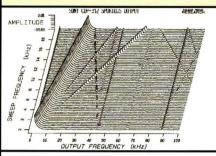
Dither is a special type of noise used to randomise the predictable quantisation errors that cause unwanted harmonic distortion. Ideally, harmonics are then traded for a slight increase in inaudible hiss, as our example plot from JVC's XL-V274 clearly shows.

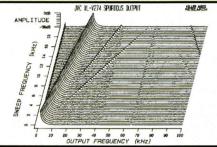
Look out for any build up of ultrasonic noise beyond 20kHz. This is a feature of many bitstream DACs whose noise-shapers are used to re-distribute huge levels of re-quantisation noise. Traditional multibit DACs are often 'cleaner' above 20kHz and, as a result, often perform more consistently when partnered with different amplifiers.

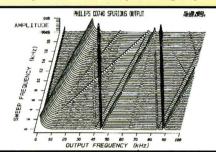
#### **Understanding the 3D Spurious Output plot:**

This shows distortion and sampling images. An audio frequency sweep (20Hz-20kHz) reveals continuous changes in performance rather than at one frequency. Second and third harmonics may be seen radiating out to the right of this sweep from the Philips CD740. The lower the distortion, the less obvious these harmonics will appear.

In addition, sampling or stopband images are seen as whole or partial V-shaped patterns centred on multiples of the 44.1kHz sample rate. Higher-order sampling images can enter the audioband directly, otherwise they are only indirectly audible via secondary distortions in the partnering amp.







the Marantz CD-53, it treads a finer line between sobriety and anarchy. Nothing at this level is entirely perfect, but the DP-3060 comes closer than most. It offers a consistently transparent sound, plenty of insight and flawless internals (you wouldn't bel budget play offers a gen this month' package at a

#### The listening day



D	Philips	Pioneer	Sony	Technics
1	CD740	PD-S503	CDP-312	SL-PG460A
yers). As if nerous asso	untidiness of some that's not enough, is ortment of facilities y is a persuasive ing price.			

	NAD 501			Philip CD740			Pionee PD-S50		CDI				Technic SL-PG46		
20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz	20Hz	1ĸHz	20ĸHz	
0.1pB	0.1pB	0.2pB	0.1pB	0.1pB	0.1pB	0.1pB	0.1pB	0.1pB	0.1pB	0.1pB	0.1pB	0.1pB	0.1pB	0.3pB	
98pB	94pB	91pB	128pB	131pB	128pB	128pB	112pB	91pB	112DB	105pB	79pB	90pB	85pB	69pB	
-85pB	-86pB	-84pB	-97pB	-95pB	-78pB	-102pB	-97pB	-84pB	-92pB	-95pB	-69pB	-90pB	-95pB	-78pB	
-80pB	-71pB	-75pB	-83pB	-76pB	-65pB	-91pB	-82pB	-67pB	-91pB	-81pB	-68pB	-69pB	-77pB	-63pB	
-48pB	-41pB	-47pB	-57pB	-54pB	-42pB	-56pB	-52pB	-36pB	-63DB	-50pB	-37pB	-35DB	-47pB	-35pB	
-17pB	-21pB	-22pB	-24pB	-30pB	-21pB	-28pB	-30pB	-17pB	-28pB	-29pB	-16pB	-11pB	-27pB	-17pB	
-6DB	-11pB	-9pB	-16pB	-22pB	-10pB	-17pB	-20pB	-6pB	-18pB	-18pB	-6pB	-10pB	-19pB	-8pB	
	-9DB			-17pB			-16pB			-11pB			-12pB		
	No Signa	L		-6pB			-6pB			-4pB			-7pB		
	-0.1pB	-0.2pB		0.0pB	0.0pB		0.0pB	0.0pB		0.0pB	-0.1pB		+0.1pB	0.0pB	
	-0.5pB	-2.3pB		-0.1pB	0.0pB		-0.2pB	-0.3pB		0.0pB	-0.4pB		+0.3pB	-0.1pB	
	-1.4pB	-2.6pB		-1.0pB	-0.3pB		-0.8pB	-1.0pB		-0.3pB	-1.3pB		+1.2pB	+0.1pB	
	+1.2DB	+2.5pB		-0.4pB	+0.2pB		-1.1pB	-0.8pB		+0.1pB	-1.0pB		+1.0pB	-2.8pB	
	2.567V		-	2.111V			2.415V			2.006V			2.192V		
	2.550V			2.089V			2.395V			1.988V			2.165V		
	+2.1pB			+0.4pB	+0.4pB		+1.6pB		0.0pB		+0.7pB				
	100онм			1.0конм			1.1конм			1.14кон	А		786онм		
7	7mV@>100	MHz		8mV@1M	Hz		27mV@176	кHz		13mV@85M	ΛHz	<	1mV broadi	BAND	
	+2.0pB			+14.9pB			+6.4DB			+1.0pB			+3.7pB		
	-86pB			-98pB		-	-96pB			-85pB			-98pB	-98pB	
	54.5pB			29.3pB		6.7pB		73.8pB		63.5pB					
	-0.1pB			-0.2pB		0.0pB		-0.1pB		-0.1pB					
	0.0pB			-0.9pB		0.0pB		-0.1pB		+0.3pB					
	+0.1pB			-0.4pB			-1.3pB			-0.2pB			-0.5pB		
	101.0pB			118.3pB			111.6pB			102.9pB			100.8pB		
	99.6pB			118.2pB			111.6pB			102.8pB			100.7pB		
	97.1pB 105.1pB				102.4pB		95.3pB				98.0pB				
	None Coaxial			None			None				None				
	+3.7PPM +21PPM		-19ррм			+17.3PPM			+807ррм						
	3.5secs			2SECS			3.5secs		3secs		2SECS				
	E501N113	11	4V	VT00941500	00618		OE9990003	BUK		5003931			VT4CA000	81	
	£180			£170			£200			£150			£160		

ach of these CD players was auditioned under strict, blind conditions at precisely matched listening levels. This way the high 2.4-2.6V output of the Pioneer PD-S503 and NAD 501 could not secure them any advantage over the lower 2.1V of the Philips CD740 and JVC XL-V274 or the very low 1.8-1.9V output of both the Denon DCD-615 and Dual CD1001RC.

A broad repertoire of vocal, folk, pop and classical CDs was auditioned before the collective impression of the panel was entered directly into a computer. Sound, value and swing tag ratings were awarded prior to identities being revealed.

As ever, the system included DPA-100S pre and power amps plus Audio Note AN-E (main) and REL Stentor (sub) speakers. Thanks to Tom Barron (Gamepath), Alan Sircom (Choice) and Andy Whittle (Rogers) this month's blind but golden-eared panel.



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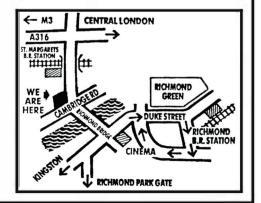
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# **ON TEST**

# Speakers

#### The cast list JPW RUBY 1 £500 **KEF Q50** £500 Mission 733 £300 Monitor Audio MA 202 £450 MUSICAL TECHNOLOGY £250 KESTREL (PLINTH £30) PIONEER S4-UK £250 REGA ELA £500 **TANNOY** 633 £320

#### Left yearning for more after last month's batch, Paul Messenger gets stuck into loudspeakers again.

ollowing on directly from last month's £500-£800 speakers, we've assembled eight models in the price category immediately below: £250-£500 to be precise. Six are floorstanders; two are much smaller 'bookshelf' models. This is roughly the same mix as we had last month, and further confirmation of how the strong trend towards floorstanders. Though this might be taken as an indication of their superiority over the traditional box-shaped speaker, it is by no means the case. Like most things in loud-speaker-land, different approaches have different ups and downs.

Floorstanders save splashing out on stands and, on the surface at least, more cabinet for the money looks like a good deal — certainly it's a prettier deal. But the large internal volume and awkward shape of the box can prove an embarrassment, while the larger surface area invites panel resonance problems.

Though the price band isn't all that wide, our subjects cover quite a broad

range of alternative sizes, finishes, driver and cabinet configurations. Ironically, the smallest is also the most expensive — and the *Ruby 1* is from the king of budget miniatures, JPW. Happily it's also the prettiest, and is clearly aimed at the luxury miniature sector. A metal cone main driver means that it is competing with such models as the Acoustic Energy *AE1* and Monitor Audio *Studio 5*.

At less than half the price, the Musical Technology *Kestrel* is the only other all-metal-diaphragm model on test. This unusual floorstander comes from a new company and is full of imaginative details, at a highly competitive price.

Also at £250, but needing stands, Pioneer's S4-UK is aimed primarily at the audiophile-on-a-budget. First reviewed a couple of years back, with mixed results, it gets a return visit after further main driver refinement.

Mission's 733 is remarkably large for a £300 speaker — and remarkably good looking too. Whether perceived value translates into top-notch performance is for the review to establish.

Tannoy's 633 (£320) looks equally impressive in value terms, any saving in the more compact box being justified by the extra main driver. It's also the only

# How to understand the lab tests

very loudspeaker has a distinct frequency balance that says much about how it will sound. This sonic 'fingerprint' shows which parts of the audio range are emphasised and which are short of relative output level.

To simulate relevant 'real world' conditions, the measurements are made of a stereo pair in the actual (largish) room in which the listening tests are undertaken, using a far field technique averaged across seven microphone positions (after Colloms). The speakers are sited close against a rear wall and a metre out into the room; intermediate positions normally produce intermediate degrees of midbass reinforcement.

A flat straight line isn't expected — the main room modes create unavoidable ups and downs at the low frequency end, but the trace should be as flat and smooth as possible. Gentle variations are preferable to sharp discontinuities; prominences tend to be more irritating than dips; and a gentle high frequency roll-off usually sounds perfectly acceptable.

The sensitivity of a loudspeaker is a guide to how loud that speaker will sound for a given amplifier volume control setting. Our deliberately conservative figure is averaged across the broad midband. A 3dB increase in sensitivity means that the speakers will sound twice as loud for the same volume control setting of the same amplifier.

The snag is the impedance. For the same volume control setting, a 4 Ohm loudspeaker will actually be drawing twice the current (and hence power) as an 8 Ohm design, so to get its sensitivity in true electrical energy conversion efficiency terms you need to subtract 3dB.

sealed-box system in our group, the overall configuration looking similar to that of the Linn *Keilidh* (last month).

Monitor Audio's £450 MA202 is rather larger, with just a single main driver. It's a close relative of the 201, substituting a damped ported floorstanding enclosure for the latter's bookshelf box. Both models recently had hefty price rises.

Rega also has upped the price recently of the long-established *ELA* (now £500), at the same time improving the presentation of this trendsetting floorstander, which uses a folded transmission line to assist bass output of a tiny main driver.

KEF's £500 Q50 is really two smaller, differently sized ported enclosures in one, the upper section driven by one of the company's full range Uni-Q drivers.

Our selection shows considerable variation in design and configuration; this is reflected in a range of distinctive flavours in the art of reproduction.

# PW Ruby 1

PW is the Big Cheese in budget British hi-fi bookshelf speakers, with a whole range of highly competitive 7- and 14-litre models to suit every distribution chain, many with Best Buy and Recommended flags from previous Choice encounters.

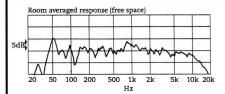
The Ruby series, however, is something completely different. This is a collection of four altogether more upmarket speakers: two standmounts and two floorstanders, priced from £500 up to £1300. The name comes from the colour applied to the main driver's metal cone during surface anodising; the model under scrutiny here is the smallest of the quartet, the £500 Ruby 1.

That's a lot of money for a tiny little two-way speaker, though to be fair there are plenty of other contenders entered for the best and most beautiful baby competition, including several

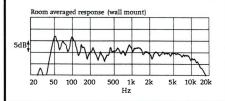
#### LAB REPORT

The Ruby 1 fits the luxury miniature stereotype pretty closely. The little peak around 900Hz perhaps gives JPW a faint excuse for its 87dB sensitivity claim, but broad-band, and in relative far-field loudness terms, a lowish 84dB is much closer to reality. Still, the amplifier load is easy, and bass extension quite respectable for such a small unit, registering -7dB at 30Hz in-room, thanks in no small part to the generous contribution from the 50Hz-tuned port.

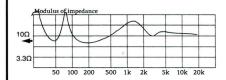
Output is just a shade strong here, but the balance is generally very well behaved, the minor departures from neutrality being a slight forwardness in the upper mid (800Hz-1.5kHz), and an early treble roll-off above 10kHz. Comparison of the room curves implies free-space siting should give the best balance, though some wall reinforcement will do little harm.



An unusually smooth and well-balanced trace, punctuated by a little peak centred on 900Hz.



Not quite as smooth close to the wall, and a little midbass heavy too, but still quite acceptable.



An apparently easy load from the current demand point of view, but quite a complex one too.





examples costing significantly more. Indeed, for those prepared to forego serious bass slam and high loudness capabilities, the 7-10 litre miniature format offers some significant advantages, over and beyond the obvious aesthetic bonus.

The Ruby 1 may be the smallest and also the lightest of our test group, but it's certainly no featherweight. Feel free to calculate the kilogramper-cubic-metre densities from our table if you like, but I reckon it tops the list in this respect, which is at least evidence of solid build (as well as a small enclosed volume, of course).

From the outside the cabinetwork is outstanding, a top quality real-wood veneer covering all six faces, with nicely radiused edges around the baffle and back, and carefully rebated drivers. Digging beneath the pretty skin reveals a number of the expected luxury engineering touches, like the high-power-handling crossover and heavy duty internal cabling, all solidly hardwired. The drivers are both bolted in place too, albeit with a little slack, and the main driver magnet is as big as the gomm metal cone good for electromagnetic control, less so from the point of view of occlusion and acoustic reflection. However, I'm surprised not to find a cast driver frame (helpful for reducing occlusion, as well as improving rigidity), and I noted that the bi-wired crossover network is a pretty complex affair, which rather goes against current audiophile trends. The box has chunky 20mmthick sides, with just a thick foam lining for damping. The tweeter used here is a goodquality 25mm metal dome, and a kosher grille is supplied for those who don't want to show off the shiny red cone and properly veneered baffle to all and sundry.

#### **Sound Quality**

As with so many of this group, the panel delivered a mixed verdict on the Ruby. Two came out strongly in favour of its excellent balance and fine imaging, the other four reacted negatively to its bass and dynamic limitations.

All speakers represent a mix of compromises and trade-offs, and those encountered with the Ruby 1 are hardly unexpected, given past experience with models adopting similar outline configurations. Box coloration here is impressively low — the natural consequence of there being a relatively small surface area to add unwanted tonal shadings.

However, the bottom end is never entirely convincing, less for the lack of weight than for its rather thumpy, lumpy character, which lacks drive, consistency and sometimes control. The smoothness of the overall balance also tends to highlight the small upper-mid peak (quite possibly a reflection from the large diameter magnet), giving a forwardness and explicitness which some found more welcome than others. One listener liked the detail projection, another the extra 'bite' on brass instruments — but others referred to hardness and a rather abrasive and gritty quality.

#### **Conclusion**

Against other all-metal-diaphragm miniatures (eg Acoustic Energy AE1, Monitor Audio Studio 6), the Ruby 1 seems a very competitive prospect. In strict comparison with the other models in this

#### VERDICT **Luxury miniature** has fine overall balance and good detail projection. Pricey, and can sound a shade hard. Bass and dynamics not entirely convincing SOUND \*\*\*\* VALUE \*\*\* PRICE £500 ☑ JPW Loudspeakers Ltd, Ocean Quay, Richmond

Walk, Plymouth, Devon PL14LL.

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group review, it does look rather expensive, mind, especially when the extra cost of adding good quality stands is taken into account. On the other hand, it's the smallest and prettiest by comfortable margins, two important factors in any purchasing decision.

# KEFQ50

espite the fact that it has undergone numerous business and management changes over the past few years, KEF has ensured that its products have maintained gratifyingly consistent engineering and presentation. It's possible therefore to track back the evolution of this £500 Q50 through several generations of similar predecessors. The third model up a four strong range which also includes the slightly smaller floorstanding £360 Q30 (issue 126), it has a driver line-up quite similar to the large bookshelf size stand-mount Q60 from three years back (issue 102) — further evidence of the way bookshelf models are evolving into floorstanders.

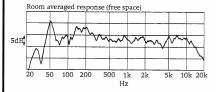
The Q prefix is important. Theoreticians will recognise this as the symbol for directivity, and it

#### LAB REPORT

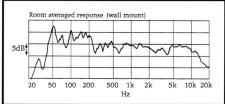
The Q50 offers decent sensitivity (c88dB/W across the main midband) alongside a reasonably easy amplifier load, but sub-40Hz bass extension is relatively limited.

Interestingly, the difference between free space and close-to-wall siting is much less obvious than usual, but sadly the balance is altogether too rich in the bass whichever position is adopted. Part of the difficulty lies in the fact that the (very well damped) ports are tuned to 50Hz, coincident with a main room mode, but output in the 100-200Hz octave is also clearly too strong.

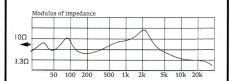
Further up the band the midrange is well balanced if a little uneven and recessed, while the treble is a little stronger than average. The overall mid-to-treble section of the spectrum is pretty well ordered, the slight lack of output 2-5kHz likely to confer a mildly laid back effect.



Output is clearly too strong in the upper bass, and slightly so through the treble too.



Close-to-wall siting leaves the whole bass region several dB ahead of the rest.



Amplifier current demands are not excessive and reflex porting system looks well damped.

is the smooth control over this factor which is an integral part of KEF's Uni-Q driver technology. Co-axial drivers which place a treble unit in the middle of the main driver are not themselves a new idea, but KEF's application uses a tiny superpowerful neodymium alloy magnet to make a tweeter small enough to fit onto the pole-piece of the main driver. By working out the geometry involved, it's possible to make the acoustic centres of the two drivers coincident around the crossover point, and thereby achieve an exceptionally smooth transition between them.

The Uni-Q story is worth telling, and helps provide some explanation for a price at the top of our group range. You get a decentsize box, and subtle styling which is unusually demure and self-effacing, but none of the real wood finish found on the other five hundred pounders here. Instead you get a charcoal grey textured vinyl which should at least blend in well with your TV set. The AV link is further

emphasised here by the fitting of magnetically shielded drivers — but in practice the main left/right speakers of a hi-fi/AV combination system really ought to be far enough apart to leave plenty of room for a TV set in between, without causing magnetic colour disturbance even sans shielding. Only dialogue speakers really need the treatment.

There are two main drivers here, the upper a full range Uni-Q device, the lower one being used to augment bass and lower midrange output. Both have 110mm plastic cones, decent-size magnets and pressed frames, held in place by three reasonably tight woodscrews and disguised beneath plastic trim which renders the twin moulded frame grilles an aesthetic option.

The floorstanding box, built up from 16mm chipboard, is actually two separate enclosures on top of one other. The smaller, upper one is ported at the front; the larger, lower one is ported to the rear. Both have thick absorbent lining. A single terminal pair is tag-connected to the drivers via a fairly complex crossover.

The moulded plastic plinth looks attractive enough, but attempting to fit the spikes proved very tricky, because tightening lock-nut against washer tends to pull the threaded insert out from the moulding. Having broken one plinth I took extra care with its replacement, but still lack confidence, and wonder whether the moulding shouldn't be shaped so that the washer sits flat against the insert.

#### **Sound Quality**

This was the one speaker in the group to receive a pretty unanimous verdict from the blind listening tests. Unfortunately for KEF, the thumbs

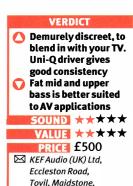


were all below the horizontal, and some of them pointed straight down. There was almost universal criticism of both the quantity and quality of the bass, and not a lot of compensating enthusiasm elsewhere.

The somewhat recessed midband actually sounds quite open and coherent in itself, but the treble was criticised for a slightly scratchy and rough quality, all the more noticeable because it comes through quite strongly too. The seated panel naturally remained unaware of the Uni-Q driver's ability to preserve good consistency when moving in the soundfield. This is certainly a worthwhile bonus, but not really adequate compensation for the limitations elsewhere.

#### Conclusion

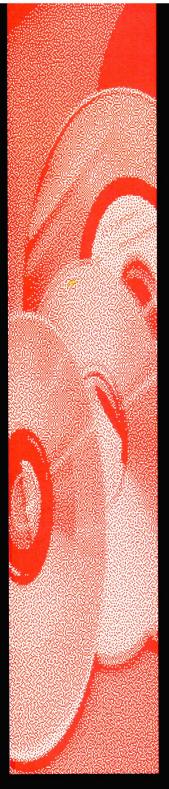
Uni-Q benefits notwithstanding, the Q50 looks on the pricey side for the package on offer. The over-rich and heavy balance was a significant



Kent ME15 6QP.

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factor in the indifferent listening test findings, but what might be less than ideal for stereo music replay could well prove highly effective with AV programming, where a ripe and fruity bass is generally reckoned to give the best results.



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# 1994 CATALOGUE



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# Mission 733

aving missed the launch of Mission's new 73-series of highvalue, vinyl-clad boxes amid the cacophony of Live 94, I was quite unaware of the price of this generous and very attractively presented floorstander. My first guess was somewhere between £350 and £400, leaving me very impressed to discover that the 733's asking price is actually only £300 — a price/bulk ratio which ensures that it enters the marketplace with a wellhoned competitive edge.

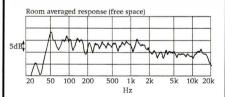
A budget vinvl box it may be, but the 733 is dramatically better-looking than its Mission predecessors, and more than a match for anything around at anywhere near the price. Much of this is due to the clever way most of the edges have been rounded off, giving a

#### LAB REPORT

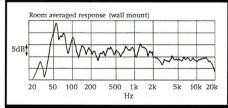
The combination of only average sensitivity (87dB/W) and modest bass extension (-6dB at 40-45Hz in room) is compensated by a load which should make the amplifier's life easy - a more than fair exchange.

Close to a wall, the midbass (50-100Hz) is much too strong, but in free space the 733 balances out pretty well. The bass region is about 3dB above the broad midband, true, and the 50Hz room mode (coincident with the port tuning here) a couple of dB stronger still, which is not ideal but should be acceptable.

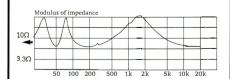
The midband shows a sharp discontinuity at 1.1kHz, also seen as a blip on the impedance graph, and probably a function of cone/surround termination. It peaks up a shade at 1.3kHz before tailing off by about 5dB into a flat-ish treble, which itself peaks up slightly at 12-14kHz.



Balance works exceedingly well when clear of walls; note that the glitch at 1.2kHz coincides with an impedance blip.



Bass becomes horrendously heavy if speaker is placed close to a wall. Good general control is interrupted 1-3kHz.



An easy amp load, but note how the small 1.2kHz blip (probably a cone termination effect) is reflected in the balance traces.

softer somehow friendlier appearance than that of most large budget floorstanders.

The other neat styling device is a plastic sub-baffle, held by eight tight woodscrews, which clamps over the main driver to hold it in place, and also fixes through the mechanically decoupled tweeter faceplate, keeping everything looking very tidy. A second and more dramatic moulding adds a very large port, complete with a builtin vane which is designed to minimise turbulence.

The box shape looks sensibly arranged to provide a decent stability footprint, with the drivers well off the deck. And I was particularly pleased to discover that Mission has changed the sockets into which the spikes are mounted. These no longer spin in their holes as soon as one attempts to tighten the locknuts, which was all too often the case with earlier Mission floorstanders. The new

ones are not exactly over-engineered, but do at least feel capable of taking rather more torque than necessary to remove the skin from rice pudding, and so should continue to keep the support stable and secure over the long haul.

The main driver has a 120mm clear plastic cone, a pressed-steel frame and a decent size magnet, but the tweeter, known as a 28mm composite laminated ringdome, seems a rather feeble affair, mechanically and magnetically. Acoustically speaking this box is not as big as it looks, as the lower 30cm or so is blanked off by a shelf, which also serves to stiffen the four long panels. My rough calculations give an actual enclosure volume of less than 25litres — less than Mission's claimed 35litres and not much more than a traditional large bookshelf size model (but avoiding the need for some separate means of support, of course). One consequence is that the terminal block is placed a third of the way up the back, making it that much more difficult to conceal the wiring.

The box itself is pretty solidly built, with a further brace between the sides up behind the main driver, and pretty substantial 19mm chipboard panels throughout. Internal damping is confined to just a single sheet of foam, lining the rear panel, and a foam ring around the outside of the port. A simple three-element crossover is built into the back of the bi-wire terminal block.

#### **Sound Quality**

Sonically this is a 'quite' speaker — it does everything quite well, though nothing exceptionally so. Two separate presentations gave a reasonable degree of overall





consistency, and a generally positive reaction. albeit with some equivocation.

The bottom end works rather better than the measurements might suggest, conveying reasonable impressions of weight and scale. There's also a measure of agility, provided the speaker is kept well clear of walls. This in turn gives the midband plenty of room to breathe, bringing both spaciousness and clarity to voice reproduction.

That said, the upper mid/presence does sound a bit compressed and shut in, and the treble is not very nice at all, imposing firm limits upon the attainable delicacy and transparency. Dynamics aren't too exciting either, but the whole hangs together and times well, even if it doesn't sound quite as big as it looks.

#### Conclusion

Great styling and a very large box for the money

VERDICT A beautifully presented big box at a surprisingly modest price. Good value. Doesn't sound as big as it looks; treble sounds a bit tacky. SOUND \*\*\* VALUE \*\*\*\* PRICE £300 □ Centralforce Ltd, Stonehill, Huntingdon, Cambs PE18 6ED

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makes the 733 a compelling showroom proposition. The sound may not quite measure up to expectations, especially in the treble, but it remains such a fundamentally well-balanced and well-judged all rounder, at such a sharp price, that a Best Buy rating is appropriate.

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# **MONITOR AUDIO MA202**

he decidedly modern MA201 was included and Recommended in the speaker tests of issue 135, and it's hardly surprising that this £450 MA202 has a lot in common. The business bits of both are more or less identical, the differences lying in the boxes which enclose and support a common baffle/driver array. Whereas the 201 is a smart bookshelf design, this larger 202 is a good-size floorstander.

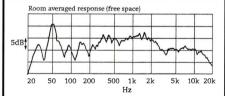
What's disappointing is that the prices of each have recently been jacked up by £50, representing substantial increases of 20 per cent for the 201 and 12.5 per cent for this 202 products which had only been on the market for about eight months. I can't believe that someone pushed the wrong buttons on the calculator when initial costings were carried out, and those

#### LAB REPORT

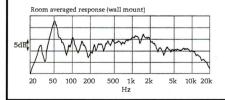
The similarities between 202 and 201 are strong, but there are differences nonetheless, the impedance graph showing subtle changes in the crossover network, and significantly greater damping in the reflex porting system.

Despite the latter, the in-room balance is dominated by output from the port (tuned at 40-50Hz), while upper bass/lower mid output is distinctly lacking irrespective of siting. Free space looks the better option here, but there seems little likelihood of achieving ideal bass alignment. The upper mid is rather forward, but well maintained to above 2kHz, prior to a rather conservative relative treble level with a smooth and well-extended characteristic. The net result is unlikely to score highly for neutrality.

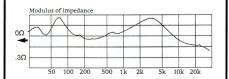
Sensitivity is a decent 88dB/W, the amplifier load is easy, and there's reasonable bass extension.



Bass and treble are a bit detached but the forward midband shows good coherence up to 2kHz+.



Close-to-wall siting leaves the bass bump even more exposed than free space positioning.



An easy amplifier load with a welldamped ported system, but note the odd midband glitches.

percentage increases are way over inflation. Could this be another example of launching at a price low enough to garner a collection of favourable reviews, then cashing in with a price rise? At £300 the 201 would have struggled to reach Recommendation

Initial impressions were that the 202 wouldn't find it easy to justify £450 either. It is the biggest and heaviest in the group, which goes some way down the road, but there's just the one main driver, and the finish is resolutely woodgrain vinyl, even though a decent example of the breed. Styling is traditional with sharp box edges, and everything feels very solidly built. Some gilt styling embellishments add a touch of *ie ne sais quoi*, and high-tech plastic moulding techniques are an integral part of the important bits.

The baffle is made from structural plastics, while the main driver also uses a substantial moulded plastics

frame, along with a big magnet and 115mm doped paper cone. A 'plastic bullet' extension to the central pole-piece provides some phase compensation effect at the top of its working range. The tweeter is one of MA's classy goldanodised alloy domes, well protected under a gilt mesh. Both driver frames fit flush with the front, held by tight, coarse-pitch screws.

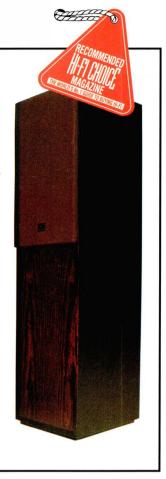
The box is built from substantial 20mm chipboard, with a generous port down low at the rear. Inexplicably, the bi-wire terminal block is quite high up on the back, ensuring that trailing loudspeaker cables will be well and truly visible. The interior of the cabinet is left almost entirely undamped, apart from a sheet of BAFtype wadding and another of foam, which sit over the large ventilation holes in the uppermost of two hefty cabinet braces. This interposes a considerable acoustic resistance between the upper cavity and the lower ported two-thirds, heavily damping the reflex operation.

The whole thing is built onto an integral MDF plinth, and proper gripping screw inserts are fitted from above, ensuring the spikes may be fitted really tightly without problems (and re-tightened occasionally, as the MDF has a tendency to compress under load).

#### **Sound Quality**

Somewhat paradoxically after the slightly disappointing results from the 201, the 202 fared well in the listening tests, less through the overwhelming enthusiasm of any particular panelists, more from a near consensus that this was one of the better all-rounders, thanks to





good vocal projection, a decent sense of scale and some dynamic verisimilitude. "Easy to listen to for long periods", as one panelist put it.

The down side is a rather 'thrummy' bass character — good scale, yes, but also a tad slow and slightly 'one-note' in character. Then there's the top end, which is just a little shut in, while the treble proper is clean and sweet, if a little exposed. To some extent it's a matter of balance, inasmuch as the bass and treble don't quite match the unusually informative midband. Since the latter is a little projected it dominates the attention, leaving the extremes to enhance the overall presentation.

#### **Conclusion**

I'd almost talked myself out of Recommending the 202, largely through irritation with the recent

**VERDICT Easy listening** floorstander has generous scale and attractive vocal projection. Not the most neutral around: bass has onenote tendency; mid is projected. Pricey. SOUND \*\*\* VALUE \*\*\*\* PRICE £450 Monitor Audio Ltd, Unit

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price rise. But if material value is unexceptional, the sound is sufficiently ingratiating to carry the day. That the midband is essentially coherent right up to the far side of 2kHz is, I suspect, an important factor contributing to its unusually believable vocal rendition.

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# Musical Technology Kestrel

efore receiving the Kestrels I'd never heard of Musical Technology. That isn't too surprising, though, as the company was only founded in September 1994. The literature that comes with the speakers is well written and well presented, giving an impressive pedigree for the two principals involved and some serious background information on the speaker itself.

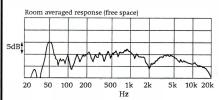
Clive Gibson has spent 15 years in speaker design, most recently with TDL (one reason why both the £250 Kestrel and the £1400 Eagle are floorstanders); partner Martin Nobbs spent a similar stretch at the BBC. The two models, with their vastly different prices, define the extremes of MT's immediate aspirations, and a Harrier is imminent (followed presumably by Perearines. Goshawks and the like in due course).

#### LAB REPORT

Low sensitivity is the most obvious characteristic of the Kestrel. One logical consequence of the small main driver and enclosure is an 84dB rating, 3dB below average but happily uncompromised by the impedance characteristic.

Bass extension is hardly spectacular, but is actually a touch better than the group average. This is partly because of the rather over-enthusiastic output at 50Hz, which, in turn, is mostly down to the port. Positioning is therefore difficult, wall reinforcement usefully assisting the upper bass but exaggerating 50Hz still further, whereas free space leaves the upper bass rather lean.

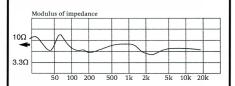
The broad midband balance is smooth and even, especially 150Hz-1.5kHz, and the treble looks smooth and very well judged. Not unusually, the presence region is the main problem area, with a 5dB notch 1.5-3kHz.



Overall balance is pretty smooth through the midband, but 50Hz is rather prominent and 1.5-3kHz recessed.



Close-to-wall siting, as recommended by the manufacturer, fills the upper bass nicely but exposes 50Hz at +8dB.



Amplifier current demands look fairly modest, but the trace indicates a complex crossover network.

To build a compact floorstander to sell at under £250 is not bad going in itself, but to create one that looks as interesting as this, and has as many classy extra ingredients, is a thoroughly impressive achievement. Check out the real-wood top surface with its heavily bevelled edges, the metal-cone main driver and dome tweeter.

In terms of both enclosed volume and main driver diameter, the Kestrel is one of the smallest floorstanders around. The most obvious commercial reference points are perhaps the Royd Minstrel or Rega EL8, though it's equally valid to regard the Kestrel as a near-miniature which doesn't need a couple of chunks of ironmongery.

Somewhat reminiscent of a cute variation on the Tannoy Sixes theme, the enclosure is actually a pentagon in cross section. Its very compact dimensions and attractively finished top-plate make it a very attractive speaker. The advantage of a semi-regular shape such as this over a conventional rectangular section box is that internal reflections are better dispersed, while non-parallel faces help avoid focusing internal standing waves.

Creative detail engineering is very much in evidence. The top section of the enclosure is quite heavily damped, by foam and fibre lining, ensuring some resistive decoupling from the undamped section extending from the large front port downwards. Internal wiring is enamelled solid-core, fed from a single and slightly vulnerable looking terminal pair sticking out the back apex, low down near the floor.

The chunky 15mm MDF box panels are finished in black vinyl woodprint, with imitation burr walnut a straight option, or real wood throughout at a hefty premium. The drivers, fixed by well-tightened woodscrews, comprise a good quality 25mm metal dome tweeter with protective phase compensator, and a main driver with a pressed frame (complete with little foam pads on the inside of the frame), a small double magnet (conferring some magnetic shielding) and a 90mm aluminium cone which is significantly more flexible than others I've

Build seemed generally very good apart from one or two detail teething problems: the stand plate took a while to fit, and the grille frames quickly disintegrated. (A properly engineered grille should be ready by the time this appears in print, I'm informed.) A heavy metal plate (a £30 optional extra) provides secure spike fixing but not a particularly generous footprint.

#### **Sound Quality**

On a majority verdict the panel voted in favour of the Kestrel, two members recording very positive first reactions: "lively and interesting" and "engages the senses immediately". Limited bass extension and power does leave the sound a bit short of scale, but what there is seems well timed and articulate, driving the music rather than booming along in its wake.



The midband is open, clear and coherent, with plenty of detail and good instrumental separation, but the presence dip does detract from the overall openness, leaving everything a little shut in and conservative — not necessarily such a bad thing for a speaker likely to partner all manner of budget amplification.

The narrow and carefully shaped enclosure certainly helps minimise boxy effects, but several panelists commented on rather flat and uninspiring dynamics, and two complained of a slightly 'spitchy' treble.

#### Conclusion

The use of all-metal diaphragms is no automatic guarantee of high quality. Like everything in loudspeaker-land, there are positives and negatives at work, and the trick of a successful design is to accentuate the former while

#### **VERDICT**

- Clever package looks good and sounds both smooth and agile at a modest price.
- Limited scale and volume; dynamically challenged

SOUND \*\*\*

#### VALUE \*\*\*\* PRICE £250

Musical Technology, Unit 10, Howard Industrial Estate, Chilton Road, Chesham Bucks HP5 2AU.

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disguising the latter. This the Kestrel accomplishes rather successfully, in a most ingenious and well-thoughtout overall package that deserves Best Buy recognition for bringing the metal diaphragm entry price

crashing down.



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# PIONEER S-4UK

o all outward intents and purposes, there's no apparent difference between the S-4UK reviewed a year or two back (issue 122), and these new samples of what purports to be the same loudspeaker. Which is perhaps as it should be. All too often marketing-led companies — and an operation the size of Pioneer must certainly be that — seem to indulge in change for change's sake, in the rather cynical but regularly justified assumption that a bit of hype is always worth having.

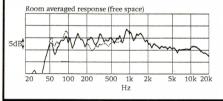
Loudspeakers are perverse and complex affairs, though, and getting a good result while changing several variables at once is a tricky task. It is therefore rather gratifying to find Pioneer simply adding a little refinement and development to a brew which was already well

#### LAB REPORT

The main problem with the original S-4UK was a dramatic output plateau in the upper midband. That forwardness (900Hz-1.6kHz) still remains, but the relative output in the preceding two octaves is now 2-3dB stronger, so the plateau is altogether less obviously exposed than before.

It remains an obvious feature, as does the very limited sub-50Hz bass output, the port here tuned to a highish 60Hz, sacrificing extension but exerting more control over the natural 70Hz driver/box resonance. 88dB sensitivity alongside an easy-to-drive load is a further bonus.

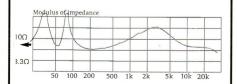
Comparing the room curves suggests placement about 1-2ft from the wall is likely to give the best overall bass alignment. Note also that output falls 4dB between 1.5 and 2kHz, which will help avoid aggressive effects but also leave the sound a little 'shut in'.



Compare current version (solid) with the dotted trace (issue 122), and note how the balance has been flattened out.



Some wall reinforcement could be helpful here, but don't overdo it. Balance is very reminiscent of typical miniature speakers.



An easy amplifier load, the lively port here is tuned to a highish 60Hz.

down the road to offering something special, even if our original samples did fall short in certain important respects.

The S-4UK is already something of a peculiarity in Pioneer's world marketing strategies. Built in Spain but obviously conceived as an audiophile speaker to partner the successful UK-



oriented A-400 series of amps, it has done less well than hoped over here — but a Japanesemade version has become a stonking success back in Tokyo, doing much to create a new-to-Japan 'budget audiophile' trend. And having heard (and measured) the modification which has been incorporated in production of its guite unusual main driver since May 1994, it was clear that a return visit was necessary.

In every other respect the mixture is as before, the S-4UK being a discreet and somewhat nondescript medium bookshelf size box, a little narrower than it is deep, that uses the almost ubiquitous two-drivers-plus-port arrangement. As before the crossover is ultrasimple — just a single capacitor protecting the 26mm fabric dome tweeter from bass overload. The main driver has a very light 100mm paper cone with good size magnet and pressed steel frame, and is tightly bolted in place.

Apart from nice chamfering around the baffle edge, plus careful rebating of the driver frames into the baffle surface, all is very plain, vinyl wrapped outside, and lightly - but painstakingly - damped inside. There's a sheet of light BAFtype wadding covering the back panel, a thick woolly mat over two-thirds of the base, and a little thin felting over part of the port inside clearly the work of an obsessional! The box itself is built from 19mm chipboard, and a single pair of gilt terminals adorn the rear.

#### **Sound Quality**

I'm a little ashamed to admit I got it completely wrong in the blind tests; fortunately the majority of the panel overruled me, correctly pointing out what a nice little speaker this has become. I know that now because I get to play with the speakers for several days after the formal listening sessions, which gives the underlying qualities of a speaker much more time to seep into the subconscious, and under this regime the S-4UK really did get under my skin.

It's still flawed cosmetically, with some mid forwardness prior to a shut-in treble. This isn't immediately appealing but might well help put an acceptable face on budget CD and amplifier signals. It is also unable to deliver serious bass slam or high levels. But within such constraints the sound is attractive — lively and full of detail, delivering fine musical tension across a broad and coherent midband. A little of the over-lean and forward character of the original is retained, but the latter's more unpleasant consequences have been most effectively tamed.

#### Conclusion

It only goes to show how finely balanced a speaker design can be. The original S-4UK was a disappointment when launched eighteen months ago, but a small change to the main driver finds it vying for inclusion in the Best Buy lists. It's a great enthusiast's speaker — though Pioneer is by far the biggest company represented here and shows just how good a bookshelf shape/ size model can sound against the floorstanders in terms of midband delicacy and brio.

Above all, it avoids the thick'n'heavy trap that afflicts so many larger bookshelf models.

#### VERDICT Communicative and agile; highlights the advantages of the bookshelf format. Treble shut in, bass and volume both limited. Nondescript presentation. SOUND \*\*\* VALUE \*\*\*\* PRICE £250 M Pioneer High Fidelity (GB) Ltd. Pioneer House.

Hollybush Hill, Stoke

**2** (01753) 789789

Poges, Slough SL2 4PQ.

The Pioneer has all the charm of the best selling 7litre babies, but with altogether better dynamics, life and sensitivity. Ultimately, it remains a little on the expensive side for Best Buy status considering the ingredients, but a Recommendation is quite clearly appropriate.

# **REGAELA**

ega's ELA speaker dates back to 1989 and was already well established at the time of our original review nearly three years ago (issue 110). With changing trends in loudspeaker design, the wisdom of hindsight shows clearly what an important trendsetter this compact floorstander has been.

Knowing that there had been some interim driver changes, and having rediscovered how good that original (sub-£500) model could sound against the nine £500-£800 models covered last month, I was already keen to undertake a repeat review. The discovery that a new-look ELA was about to be launched was a perfect excuse. If only I'd anticipated the saga that developed...

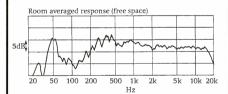
The new version now costs £500, for the very good reason that it's a much prettier looking

#### LAB REPORT

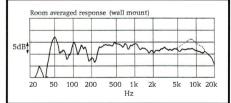
Despite the main driver change, the current ELA is very similar indeed to its predecessor - a shade lighter in the bass but a smoother and flatter through the midband and much more so through the treble (with the right tweeter).

Clearly intended for close-to-wall siting, even here the averaged bass/lower mid output is about 4dB light below 250Hz. The plus side is an exceptionally smooth and well ordered midband and treble, with seamless integration and fine top end extension.

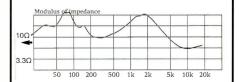
Sensitivity is a reasonable 87dB, given the easy amplifier load, but the little main driver inevitably limits the amount of bass extension and weight available, even with transmission line assistance. The slight peak around 50Hz helps provide extension down to 40Hz, but there's little output in the bottom octave.



The ELA is far too bass light away from walls but the midband and treble are very well balanced and integrated.



Close to a wall the balance remains a little bass light. Dotted HF trace shows the XEL tweeter originally fitted in error.



Despite the complex interaction of line and driver, this is a very easy load for the amplifier.

package, finished in either black ash or sustainably harvested rosewood veneer. The original ELA had its own form-follows-function asceticism, but the positive reaction to its upmarket XEL taught Rega that customers were happy to pay a premium for classy presentation — and preferred that class to take a fairly traditional form. The clever wire-frame grille is retained for cost reasons, but the neatly foolproof tripod frame base is replaced by a more conventional (and stable) quadruped arrangement, two metal rails providing a secure platform for rather thin spikes. The new baffle is a beefed-up two-section EXL-style affair with elegant chamfering.

The front panel leans backwards a few degrees, and the enclosure is subdivided (and stiffened) by an internal panel which creates a transmission line loading for the main driver - a long, folded, tuned column

terminated in a large port at top rear, and internally damped by carefully placed long-haired wool. The main driver is similar to that used in Rega's other models, with a classy cast frame and small gomm paper cone. The tweeter has a 19mm fabric dome, and both drivers are securely mounted to the thick baffle, then hard-wired to a minimalist crossover and single terminal pair mounted conveniently close to the floor.

Rega rushed me the new ELA just in time for inclusion, but I became suspicious that they sounded (and measured) significantly brighter than before — altogether too bright, in fact: an observation amply confirmed by the listening tests. The penny dropped a day or two later when I noticed that the treble section of the ELA's pen charts exactly matched those of the XEL (issue 132). Someone had fitted the wrong tweeters — or as it turned out, the tweeter manufacturer had mislabelled a complete batch. The aberrant drivers were immediately changed, but only after the blind listening day had passed.

#### **Sound Quality**

Despite losing marks because the 'wrong' tweeters only tended to emphasise the rather lightweight bass, one panelist being particularly critical, the ELA still won plenty of praise for its unusually lively, coherent and open midband, its fine overall agility and entertaining dynamics.

Fitting the correct tweeters markedly improved the overall coherence at the top end, though this part of the spectrum is still a shade obvious — this version of the tweeter sounding perhaps a little less sweet than the XEL's. The



overall lack of weight remains the most significant compromise in this design, a fact which might be less obvious in a smaller room. At the same time the freedom from heavy, thickening effects is its own reward: the sound remains determinedly lightweight, but the information content and communication thereof is invariably high class.

#### Conclusion

Although the tweeter shenanigans mucked up the listening test findings, and the overall sound will always be a little too lean and bright for some tastes, the ELA is undoubtedly an exceptional speaker for the price. The latest incarnation is prettier and smoother than its predecessors, and its superb midband communication skills would seem more than

**VERDICT** Fine communicator

with an open and coherent midband: good looking too.

Lightweight balance can sound a bit spitty and lacks bass power; not for Techno freaks.

SOUND \*\*\*\* VALUE \*\*\*\* PRICE £500

Reaa Research Ltd. 119 Park Street, Westcliffe on Sea, Essex SSo 7PD. **1** (01702) 333071

fair compensation for the lack of weight. Assuming the Goods Inward and QC blunders were an isolated aberration, it's an obvious Best Buy in the right system context, but is probably better suited to an average size than a large room, and should certainly be auditioned prior to purchase.

## Tannoy 633

annoy's new popularly priced Profile range comprises all 63-somethings, and this £320 offering — the least expensive of four floorstanding models — occupies the third rung on the ladder. It actually uses the same cabinet as the £100 more expensive 636, but has a conventional tweeter alongside two main drivers, whereas the 636 uses one of Tannov's dual-concentric full range drivers alongside a conventional bass/mid unit.

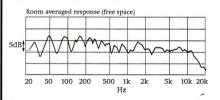
All of which suggests that the 633 could be quite a bargain. There aren't too many sub-£350 floorstanding loudspeakers around, and even fewer (if any) use an extra main driver to reinforce the bass output. It's certainly unusual among today's designs - indeed unique in this group of eight — in employing sealed-box

#### LAB REPORT

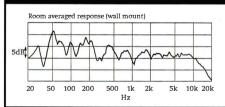
Despite the twin drivers, sensitivity is a shade below the group average, and the load makes quite heavy current demands too. The payoff is in exceptional bass extension for such a compact speaker: 20Hz in-room output is more than 10dB better than for the rest of the group.

Close-to-wall siting looks entirely inappropriate here, not only because mid-bass reinforcement is actually undesirable with this design, but also because the wide dispersion of the Profile cabinet shape increases the influence of midband reflection and interference from a wall close behind, as seen in the appropriate graph.

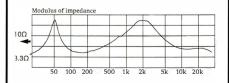
Placed well clear of walls, the overall balance is exceptionally good (±4dB 50Hz-15kHz in-room), but the critical upper midband is rather uneven and recessed, and the ultimate treble roll-off a little premature.



Exceptionally well controlled overall balance with fine bass extension, but uneven upper midband.



Close-to-wall siting over-emphasises the bass region and leads to considerable midband unevenness too.



The Tannoy makes quite heavy current demands, but the single ~55Hz bass resonance is relatively easy to drive.

loading, as distinct from the almost ubiquitous reflex port. The most interesting point of reference is the Linn Keilidh, covered in last month's test. which uses the same bass loading and a very similar driver configuration.

Although stereotyping speaker ingredients has always been a dodgy business, there's no denying that a sealed box is qualitatively different from a ported enclosure, and in my opinion it is probably somewhat superior overall, largely on grounds of simplicity. The need for the sealed box's inherent subsonic stability may have diminished with the decline of vinyl disc's pre-eminence, but its single resonance is always likely to be less intrusive than the double (or more) of the ported system, and easier for the amplifier to drive, too.

The box follows Tannov's clever Profile approach, itself a logical development of the

successful Sixes models. Plastic moulded bases and top sections are joined by a wrap formed by the cabinet sides, while a central vertical strut adds further stiffening.

The irregular shaping of the top and base of the cabinet has several advantages, the post-formed baffle edges promoting good lateral dispersion while the varying width will help de-focus internal standing waves. The Profile's extra depth over the Sixes improves the basic footprint stability.

The box here is a continuous sealed cavity built up from 16mm vinyl woodprint chipboard, the lower section in particular being pretty well stuffed with wadding. The two similar main drivers are mounted above and below a rather low-set tweeter; the upper one, which works right up to the tweeter crossover point, has a hard dome-shaped dust cover. Both are fixed by six fairly tight but coarse woodscrews, their magnets pressed up against the internal strut via a chunk of lossy gunk. Both have pressed frames, modest magnets and 120mm plastic cones, while the tweeter is Tannoy's own 24mm metal dome device, with a removable mesh cover.

The base moulding is a versatile affair, combining threaded inserts which proved adequate enough for spike fixing with bridgeable bi-wire terminals. An open compartment set into the base may be filled with lead shot and/or sand to mass-load the bottom of the speaker and so improve stability, a small separate panel being supplied to cover this; while the crossover network itself is mounted on the inside. A moulded frame grille covers everything neatly and unobtrusively if desired.



#### **Sound Quality**

The Tannoy was another speaker to polarise the opinions of the panelists, which is not all that surprising in view of its balance differences from the norm. Those seeking killer bass at a bargain price need look no further: even without mass loading, the 633 delivers extension, control and speed well ahead of its rivals.

The down side is a midband which is altogether less than the best, with a degree of unevenness which inevitably creates coloration and 'shut in' effects. Treble is a little too strong at the lower end and rather lacking at the top. Dynamics seem just a little grey, but good overall coherence ensures fine intelligibility, which is fair compensation for the cosmetic shortcomings.

#### **Conclusion**

Good looking and very competitively priced, the

Slammin' bass that gives fine ultimate extension without midbass boom. Midband is a bit shut in and coloured. lacking transparency; modest sensitivity SOUND \*\*\*\* VALUE \*\*\*

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

PRICE £320

**2** (01236) 420199

633 differs from the rest of the group, offering bass drive and coherence which is well ahead of the pack, at the expense of a midband which falls somewhat short. To describe it as a Linn Keilidh on the cheap isn't really fair to either product, but the similarities are too close to ignore.

# LOUDSPEAKERS

## Conclusions, Best Buys and Recommendations

he eight selected models, all priced between £250 and £500, provide a fascinating microcosm of the wide range of choices available to the speaker designer or purchaser, as well as an intriguing contrast with the £500-£800 group tested last month.

Judging by the reactions of the panel, this was an unusually good selection, giving away little, if anything, to the more expensive earlier group on sheer sound quality — even though luxury touches were thin on the ground and the performance envelopes a little more restricted.

Only the Rega uses a cast-frame main driver, though Monitor Audio's injection moulded frame is equally noteworthy; and only Rega and JPW use wood veneer as standard, unless you count the top of the Musical Technology *Kestrel* (which also has a pricey full-veneer option).

In a couple of respects these cheaper models were actually superior to last month's group. Only the KEF *Q50* suffered an uncomfortable degree of mid-bass excess, a problem that regularly hampers larger floorstanders.

The KEF was also the only floorstander that gave grief when I attempted to secure the spikes, though I felt nervous with the Tannoy as well. This has been a problem with every other example I've encountered since compact floorstanders started becoming fashionable, mostly because it's awkward to arrange a metal/chipboard or metal/plastic interface capable of handling serious torque.

Here the Rega and Musical Technology

(with baseplate) both have metal/metal spike interfaces, which are entirely trouble free. I've had difficulties in the past with both Mission and Monitor Audio models, so it's pleasing to report that both the 733 and MA202 have new, more effective socket arrangements.

The other obvious piece of good news is the arrival of a new British company with an exceptionally interesting first product. The Musical Technology *Kestrel* is stuffed with clever ideas, and the price should be held for the foreseeable future. This looks like a company to watch.

Comparing and contrasting different designs is, for me, always the most interesting part of these tests, especially now that our price bands are tighter. By applying various different criteria to the group, it is often possible to draw valid cause and effect relationships; or, alternatively, make rash generalisations.

Take main-driver cone material, often used by saloon-bar pundits to characterise the sound of a speaker. The JPW and MT both use metal, albeit of rather different thickness; Mission, Tannoy and KEF have plastic cones, while MA, Pioneer and Rega opt for traditional paper.

The subjective findings did tend to reinforce stereotypes: metals were crisp, clear and precise, but dynamically suspect; papers lively but a little untidy with it; plastics controlled but a little shut in. Certainly there are grounds for assuming that cone material plays a part, but other factors could also be responsible.

The two metal-cone speakers were also the two least-sensitive models in our group, which might well be a clue to their dynamic limitations. But they were also among those using the most complex crossovers, the additional equalisation

#### The best of the rest



ore than twenty £250-£500 Best Buy and Recommended models of various shapes and sizes are currently listed in our Directory, though the availability of some may be limited, and it has to be said that some might not have made it against this latest crop.

The smallest include expensive, luxury sub-miniatures like the Harbeth HL-P3 (£479), and the JRT AD1 Micro (£389). Classy bookshelf-size stand-mounts include the Arcam Delta 2 (£300), Castle Durham 900 (£280), Epos ES11 (£385), Heybrook Trio (£359), Kenwood LS-770G (£260), Monitor Audio MA201 (now £300), NVA Cube 2 (£480), and Bose 305 (£430).

Floorstanders start with the compact Royd Minstrel (£289) and Rega EL8 (£298); bigger boxes include the Celestion 15 (£389), Mission 752 (£500), Origin Live OL2A (£469) and TDL RTL3 (£400).

#### Measurement data at a glance

	JPW RUBY 1	KEF Q50	Mission 733	MA 202	MUS TECH KESTREL
Size (HxWxD)	32x19x21cm	84x19x28cm	86х20.5х31см	89.5x22x28cm	80x20x19cm
WEIGHT	5.5KG	12KG	12KG	15кс	9кG
RECOMMENDED AMP POWER (WPC)	20-70W	15-120W	15-100W	15-100W	25-70W
RECOMMENDED PLACEMENT	1-2ft from wall	CLEAR OF WALLS	CLEAR OF WALLS	1-2FT FROM WALL	≈1ft from wall
IN ROOM AV RESP LIMITS 50Hz-10KHz	±5DB	±6DB	±5DB	±7pB	±6DB
IN ROOM/SPACE LF ROLL-OFF (-6DB REF MID)	42Hz	30Hz	45Hz	28Hz	40Hz
IN ROOM/WALL LF ROLL-OFF (-6DB REF MID)	42Hz	40Hz	40Hz	28Hz	40Hz
IN ROOM OUTPUT AT 20Hz (REF MIDBAND)	BELOW -13DB	BELOW -16DB	BELOW -15DB	BELOW -16DB	BELOW -13DB
EST MIDRANGE SENSITIVITY (REF 2.83V, 1M)	84pB/W	88 <sub>D</sub> B/W	87 <sub>D</sub> B/W	88 <sub>D</sub> B/W	84pB/W
IMPEDANCE CHARACTERISTIC (EASE OF DRIVE)	VERY GOOD	QUITE DEMANDING	VERY GOOD	VERY GOOD	GOOD
TYPICAL PRICE PER PAIR (INC VAT)	£ 500	£ 500	£ 299	£ 450	£250+£30

#### **Best Buy and Recommended models**

his turned out to be a pretty good batch, comparable on sound quality (if not absolute performance) with the more expensive models tested last month, and this is reflected in a generous flag allocation - four Best Buys and two Recommendeds.

Just don't assume that each and every one will work equally well with every system and room. Everything in this price band involves significant compromise between a number of variables, and the reasons for the endorsements vary widely from one model to another.

The cheapest Best Buy is the £250 Musical Technology Kestrel (used with its optional £30 base), a new low price for an all-metal diaphragm model, and a very pretty and creative package to boot, even if it does have low sensitivity and suspect bass alignment.

If you want a really big and affordable box, the £300 Mission 733 is very impressive in value terms and a superb example of high-class industrial design. It sounds good too, if a little unexciting,

but the tweeter remains the 733's Achilles heel.

Tannoy's £320 633 comes into the Best Buy frame for its truly exceptional bass — tighter, more coherent and far more extended than anything else in the class. Power handling is good, too, but here the midrange rather lets things down a little.

For midband superiority it's hard to beat the £500 Rega ELA, which is now a very handsome looking package too. But it might sound too bright in some systems, and is certainly a little lacking in bottom-end weight and power.

Among the Recommended models, the £250 Pioneer S4-UK is another midrange specialist without much bass, but this time one that's a bit short on treble and styling too. For all that it's a lot of fun, illustrating that a good stand-mount can give the floorstanders a run for their money.

Despite going up recently to £450, the Monitor Audio MA202 still makes the lists as a good allrounder, if not the most neutral sound around. It's a bit suspect in bass alignment, but fine midband communication ultimately carries the day.



Monitor Audio MA202





Pioneer S4-UK

#### Mission 733





Musical Technology Kestrel

#### Rega ELA







Tannoy 633

resulting in flatter, more neutral overall responses. Their main drivers, along with those of Rega, had the smallest (90mm) cones of the bunch.

Maybe there is a metal, plastic or paper 'sound'; but since I've yet to encounter a really high-sensitivity metal cone system (the multi-driver Townshend Sir Galahad made around 90dB midband, but all the others I've tested are sub-85dB devices). and offhand I can't think of any low sensitivity paper cone speakers either, it's still

#### The listening day

he listening tests went very well. There was a general feeling at the end that the differences between models had been pretty obvious, and that the group as a whole had proved at least a sonic match for the batch that we'd heard the month before.

Yet again, however, when the results were analysed there were no clear winners, with some panelists favouring one set of compromises, some another. Given such

democratic shillyshallying, I reverted to my traditional presidential rôle for the subsequent hands-on work.

Blind-panel tests remain a crucial cornerstone which help to keep my prejudices in check, but they have their limitations. For example, several panelists described the Tannoy 633 as bass light, where it actually has the best bass extension of the group, and a welcome freedom from boom. The explanation was obvious when I noticed that

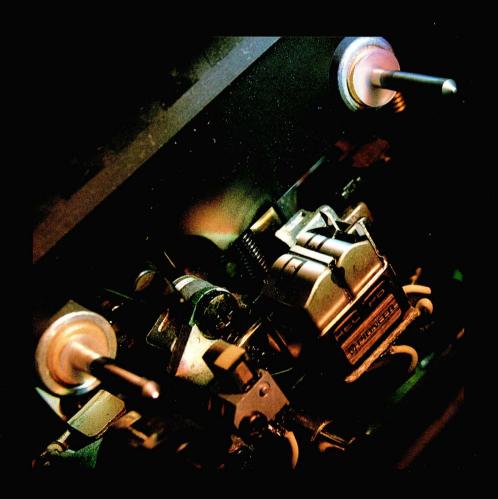


the preceding speaker had been the bassheavy KEF Q50, showing all too clearly how each presentation influences the one that follows. We've started experimenting with interposing a reference speaker, but that has its own difficulties.

The equipment used was the usual collection of Mana-supported Naim and Linn components. Thanks are due to Jason Kennedy for the installation work, and to panelists Russell Kauffman (Morel), Robin Marshall (Mission), David Inman (van den Hul UK), and Ken Weller (Tannoy).

100		经通过 医神经性病 医水杨二醇	进步 医电影性 地名美国
	PIONEER S4-UK	REGA <i>ELA</i>	Tannoy <i>633</i>
	37x21x27cm	84x20x31cm	74x24x23cm
	7 <b>K</b> G	13кG	10kg
	20-80W	15-70W	15-120W
	≈1ft from wall	CLOSE TO WALL	2+FT FROM WALL
	±5DB	±5DB	±4DB
	45Hz	40Hz	BELOW 20Hz
	42Hz	40Hz	BELOW 20Hz
	BELOW -16DB	BELOW -15DB	-5DB
	88 <sub>D</sub> B/W	87DB/W	87pB/W
	VERY GOOD	VERY GOOD	QUITE DEMANDING
	£ 250	£ 500	£ 320





ack in the August edition of Hi-Fi Choice (issue 133), we tested four digital audio recorders, all using new technology. Things have moved fast since then, and among other changes we have seen the price of blank CD-Rs (recordable CDs) drop by nearly 50 per cent. At the same time, MiniDisc has become a defacto standard in professional applications, such as backing up the entire output of Classic FM, or storing jingles and adverts for rapid replay.

Even so, as a hi-fi application CD-R is still only for the very well-heeled, and even now there remains only one hi-fisize MiniDisc recorder on the market (Sony's £799 MDS-501).

For this test, therefore, we are taking a different tack on three formats that are vying for pre-eminence in home recording: DAT, DCC and good ol' compact cassette — specifically with Dolby S. Which one should you go for? If you think the answer's obvious, read on. As it turned out, this was one of the more

surprising hi-fi assignments I've had the pleasure to accept...

For the purposes of this review, cassette is represented by the Pioneer CT-S830S (£500, with Dolby S), DAT by the Sony DTC-60ES (£800, with Super Bit Mapping) and DCC by Philips' DCC951 target price £280, with 18-bit convertors). All three recorders were tested principally as analogue input/analogue output machines, although it must be admitted that this mode will become less common rapidly as more people get used to digital dubbing from CDs, and when digital radio comes along. In fact, the DCC deck is clearly intended to be used principally as a digital recorder (despite its 18-bit analogue-to-digital converter) and if truth be told, analogue recording on this machine is not very convenient.

Obviously this article does not claim to be an exhaustive appraisal of all formats, but all three machines are good, up-to-date and representative samples of their genres. In order to make the tests as demanding as possible, I made some recordings of voice and piano straight from professional microphones, and also copied extracts from CD and LP so that I could subsequently play back recording and source side by side.

FACILITIES AND	ERGONOMI
Cassette	****
DCC	****
DAT	****

All three machines have more features than one will find on most domestic recording gear.

#### Cassette

The Pioneer, despite being 'only' a normal cassette deck, is blessed with Dolby B, C and S, and includes Pioneer's 'Super Auto BLE' automatic alignment system, which claims to extract optimum performance from any cassette. The deck's tape counter can count in real time, but only when recording or playing, so you still have to guess where you are when spooling forwards or backwards.

The metering has two switchable ranges, giving coarse or fine display, but its maximum indication is only 7dB over Dolby level, which isn't quite enough if you like to cook your tapes a little. Tape handling is very slick, with quite fast winding, and the machine is generally pleasant to use. The Auto BLE is defi-

These days, 'home recording'
encompasses everything
from the odd CD copy
to a full-scale sonic
testament of next-door's
karaoke party.
Richard Black pits
cassette against two
digital formats to
see which performs best.

nitely worth bothering with, and only takes about 15 seconds to set up a tape. For some reason the motor is mechanically rather noisy, which I found mildly irritating on a couple of occasions.

#### **Digital Audio Tape (DAT)**

The DAT format comes as standard with the ability to write track start and end ('skip') markers on the tape, and other subcodes exist which can be used in various ways. Sony equips its machines with a date-stamp function, which I find incredibly useful: you have only to put a tape in the machine to find out exactly when it was recorded, which — when combined with a pile of old *Radio Times* — helps you catalogue that embarrassing accumulation of unlabelled air-check tapes.

Track markers can be written to an accuracy of 0.3s, and the process is very simple, including a 'rehearsal' to allow accurate marker positioning. Track start markers may be written manually, or automatically after three seconds

of silence, and a rather neat feature allows subsequent adjustment of markers written automatically, so that they start just before the music rather then fractionally after it.

Tape winding is gratifyingly fast, taking well under a minute for a 90-minute tape (DAT records in one direction only), and track searching is also quick, though of course not nearly as fast as on CD. The long-play mode of DAT is very useful for recording from radio, where the available bandwidth is no greater than that of the recorder, and very long uninterrupted recording (up to four hours) is often required.

With 44.1kHz sampling (in addition to the normal 48kHz rate) and SBM, Sony has introduced two features from the professional recording world into the *DTC-60ES*. The first is direct digital copying to MiniDisc, which is ironic, since Sony's *MDS-501* full-size MD deck performs digital sampling rate conversion from 48kHz anyway. The second, Super Bit Mapping (SBM), performs some digital signal processing on data sampled to 24 bits (!) to give a claimed resolution equivalent to a 20-bit system. SBM operates in recordmode (44.1kHz or 48kHz only), and the results are playable through any 16-bit system. It is switchable, so its effect can be compared with normal sampling.

#### **Digital Compact Cassette (DCC)**

Philips' DCC951 is also endowed with a novel feature: in this case analogue-to-digital and digital-to-analogue convertors operating at 18 bits, making this the first full 18-bit record or replay machine on the market. The DCC951 also addresses some of the ergonomic weaknesses of earlier machines, but the DCC format still suffers from the same playing-time limitation as analogue cassette—45 minutes each way. With the new transport, tape winding is much faster, but it's still only half as fast as on DAT.

Track markers can be written manually or automatically, but not very accurately. One feature that I haven't seen before is the digital input level control on the *DCC951*, which adjusts recording level in 14 steps. It's less convenient than a rotary knob, but it does allow the deck to store different settings associated with, say, a tuner and a phono preamp. Metering is by a numeric display which is accessed by pressing the 'time' button—any particular reason for this?

There are different procedures for recording, depending on whether you want to append to an existing, partly-recorded

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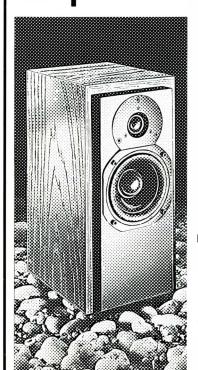
AMPHION
Monoblock
15 Watts of smooth
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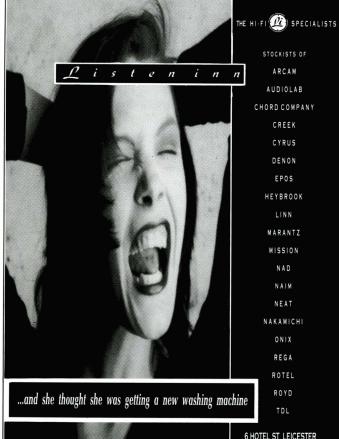
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32 GOLD ST, NORTHAMPTON TEL: 0604 37871 tape; or start recording from a specific location; or start on a fresh tape. If DAT manages perfectly well without that confusion (to append on DATyou simply fast wind until the tape stops and carry on from there, which seems easy enough to me), why can't DCC do the same? Given that you can't see the tape, I find the two-way recording and replay very confusing, as the machine shuttles one way and the other looking for tracks. Altogether, I feel that DCC still has some distance to cover in the ergonomics stakes.

Surveys consistently show that most peopled on 'tknow how to use most features on video recorders and even relatively simple cassette decks. Many of my musician friends, for instance, don't know what Dolby noise reduction is. At the very least, new recording formats should feel like old ones in use, and if new features are added, it seems sensible to put them on a large number of separate buttons, largely as Sony has done on the DTC-60ES. In DCC's favour, though, it should be pointed out that there is a small but growing base of pre-recorded software for



the format, including some 18-bit mastered titles, and DCC machines will also play normal analogue cassettes.

	BUILD QUALITY
Cassette	****
DCC	****
DAT	****

There is very little to differentiate the machines on this account. All three are fine examples of mid-to-high-price, mass-produced electronics, neatly assembled using standard-grade components on large circuit boards. Naturally, there is extensive use of multi-pin integrated circuits, even in the Pioneer cassette deck, where the chips handle Dolby S and transport control functions. The two digital recorders use their manufacturers' own chips for A-to-D and D-to-A conversion.

Transports and electronics in all the machines appear to be fully productionised; and though none contains anything in the way of audiophile components, the Philips deck, least expensive of the bunch, does have some mildly unusual opamps in its circuits.

SOUND QUALITY	15 7 2 2 3 3 3 3 3 3
Cassette	****
DCC	****
DAT	****

I suspect readers will hold a few preconceptions as to which format will sound best, but things aren't always so simple. Bear in mind that all three recorders use some form of signal processing, based on psychoacoustics, to improve their perceived performance (see box, right). So for one thing, specific implementations of psychoacoustical algorithms must be correct if results are to be satisfactory. Neglecting that, and taking a simplistic view, the DAT recorder has the greatest information rate, which is a communication theory term for what you get when



Philips DCC951: brings fullsize DCC to a new low price, but does it convince?

Pioneer's

CT-S830S: a

convincing

spokesman

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campaign

for the

you multiply together the bandwidth and the signal-to-noise-ratio. The next-highest information rate is ascribed to cassette, with DCC in third place, so in theory at least, DAT should sound best. But does it?

In practice the answer is yes. I found that with SBM switched on, the DAT recorder produced the most consistently lifelike results. Noise is very low, pitch instability (wow) effectively nonexistent, and bandwidth not audibly limited. However, I was amazed to find that both DCC and cassette ran pretty close to DAT in particular aspects of performance. Tonally, the DAT and DCC machines were neck-and-neck, giving a very accurate reproduction of the basic character of a soprano voice. In this respect cassette trailed behind, sounding slightly thickened and warm by comparison.

I've noticed this before in various cassette/DAT trials, and it's a simple reflection of the fact that while DAT has what is effectively a perfectly flat frequency response up to at least the upper midband, cassette generally has a few minor response variations. On a good-quality, well-aligned machine like the Pioneer, using decent tape like the Maxell Metal Vertex I deployed, the response variations may be only a few tenths of a dB, but these are enough to be audible, especiallywhen the additional effect on Dolby processing is taken into account. With recordings of piano a small degree of wow was audible on cassette, although this was not serious.

All three recorders reproduced quite decent bass: none of them was outstanding but all were believable. I copied a section of organ music from a CD, and was aware that information had gone awry during the transfer process, but no format singled itself out for particular censure. That's a particularly good result for cassette, since digital systems can be made flat all the way down to 0Hz if one wishes.

In the treble, on the other hand, cassette showed a trump card by giving a fractionally quicker and cleaner attack on transients than the more severely band-limited digital systems. This was most noticeable when recording piano straight from microphones, and the analogue tape definitely had a little more sparkle than the others. Of course, there wasn't anywhere near as big a difference as I've heard between professional openreel recorders and digital systems, but given the low tape speed

# Day after day, they take some sound away...

sychoacoustically-derived signal processing is big business at the moment. The basic idea is to sacrifice bits of the sound to which the ear is less sensitive, in favour of those which it can clearly hear. You may be surprised to learn that the various Dolby noise reduction systems used on cassette, which cut hiss in quiet passages of music, are relatively simple analogue examples of the breed.

DCC, meanwhile, uses complex number-crunching to process the signal digitally and extract only the 'significant' bits to store on tape. (This is the system known as Precision Adaptive Sub-band Coding, or PASC, which underpins the DCC system). Super Bit Mapping, on the other hand, samples the incoming audio to greater precision than 16 bits, and uses psychoacoustic tricks to redistribute quantisation noise in the parts of the audio spectrum where the ear is least sensitive, thus achieving greater resolution and better signal-to-noise ratio than in a straight 16-bit system.



of cassette it's a most impressive achievement. And before someone points out that a touch of analogue tape distortion can subjectively 'speed up' transients, I might add that the same effect was audible when copying from good quality LPs, and in this case comparison with the original showed that the cassette was not enhancing the treble.

How about imaging? This is where cassette fell down most noticeably. The DAT gave the most concrete imaging and the most believable front-to-back effect, while DCC gave the same width and depth but with a feeling that the images were just a little out of focus.

Cassette narrowed the horizontal image and reduced depth quite considerably. My inclination is to attribute this to the superior signal-to-noise ratio of the digital recordings; because imaging information is carried in quite subtle harmonics and phase differences, and although cassette boasts an S/N figure in excess of 70dB with Dolby S, that's comparing full modulation with noise alone. With signal present the noise floor unavoidably rises somewhat, which has the effect of masking the all-important spatial cues.

In quiet passages and silences between tracks, cassette hiss was just noticeable, but not really at a level where it would



Sony DTC-60ES: not cheap, but it's still the best bet for home taping

from the corner of the eye that can't be seen directly. I sometimes wonder whether there isn't an analogous hearing mechanism. Is DCC's data reduction more audible in a relaxed than concentrated state? It appears to be. There's something rather synthetic and artificial about the whole thing, where both DAT and cassette (even with the latter's other imperfections) were always more real and tangible.

That said, at approximately £280 the *DCC951* does an impressive job in many ways, and I can well believe that many listeners will find it hard to beat. However, having been initially quite impressed with DCC (and MD), I'm becoming very wary of data reduction in general.

I would certainly advise anyone contemplating the purchase of DCC to listen to a good long excerpt of something rather than little snippets, which are much more superficially impressive.

# CONCLUSIONS & VALUE FOR MONEY Cassette \*\*\*\*\* DCC \*\*\*\*\* DAT \*\*\*\*\*

For outright sound quality, the Sony DTC-60ES is a clear winner for DATwith Super Bit Mapping, but £800 is a lot of money and there is no pre-recorded software. Then again, blank tapes are getting pretty cheap (as low as £3 an hour, or £1.50 per hour in long play mode), and 44.1kHz sampling gives you the option to make digital copies of important recordings to archival formats—though there are still some residual doubts over DAT's ultimate longevity.

For general use I can still recommend cassette very highly, certainly as it is purveyed by Pioneer's CT-S830S (£500). Its sound is not far behind DAT in manyways, it is compatible with everyone else's equipment, tape is widely available and cheap (£1 perhour even for metals, if you shop around) and the format is both robust and long-lived.

Meanwhile DCC may appear to offer excellent sound per pound, as evinced by the feature-packed Philips DCC951 (£280), but tape costs are no less than DAT, and the format is still not particularly slick to use. Bear in mind also my opinions on its mirage-like sound quality.

Me? I use long play DAT for unattended air-checks, standard play DAT for cheap live recording, and cassette (Dolby B) for air-checks and tapes for friends. And I'm sticking with it!

#### The Three Formateers

assette, of course, is familiar to everyone as Philips' 1960s dictation machine format that has been tweaked and cossetted to a standard surely unimagined at inception. Notwithstanding that, noise has always been the Achilles heel of cassette, and Dolby S is the latest and considerably the most sophisticated system to improve that area. In use, cassette decks vary enormously in quality: from cheap portables that sound ghastly, to serious decks like the Pioneer reviewed here, which is undoubtedly a real hi-fi machine.

**DAT** (Digital Audio Tape) was originally intended as a domestic format, but takeup was poor, and didn't improve when people realised that prices would never drop very low and tapes can't be readily duplicated. However, it has caught on as a budget format for studios, especially for back-up work and location recording, so its future seems reasonably secure. There have been a few scares in the professional world about the error rate and ultimate lifetime of DAT tapes, but I've heard of very few actual problems.

**DCC (Digital Compact Cassette)** is the newest format here, intended to complement CD and analogue cassette, ultimately replacing the latter in all but the cheapest applications. It is a digital system using data reduction, but it is also capable of replaying analogue cassettes. With a stationary head (instead of DAT's rotating one) it has a much simpler transport than DAT, and should in principle be more robust and better suited to mobile use.

cause great distraction. It's only the prospect of noise increasing with signal level that compromises things, and this is an inherent feature of all analogue noise reduction systems, whether or not it's directly audible.

Comparisons between digital in general and cassette are one thing, but those between DAT and DCC were of a slightly different nature. As implied above, the basic characteristics of both are very similar: tonally pretty neutral, clean, high S/N ratio. But there's something slightly odd about the way DCC replays sound, and as I hear more DCC, both pre-recorded and user-recorded, I'm coming to recognise the symptoms.

If you listen hard, consciously, everything is there. But if you relax a little, maybe stare out of the window or casually read the paper, the sound makes no attempt to attract your attention back. It seems insubstantial and vague, but the moment you try to put your finger on what's wrong you naturally get back into conscious listening again and everything seems okay. Of course, one might like to listen with complete concentration all the time, but even musicians have trouble doing that while performing, and it's almost impossible to avoid switching off occasionally. DCC just seems to make it easier to do so.

Astronomers know well that the eye is most sensitive just alongside the direct field of view, which is why one can see stars

Comparison Table Comparison Table											
	PIONEER CT-S830S	PHILIPS DCC951	Sony DTC-60ES								
FORMAT	Сомраст	DIGITAL COMPACT	DIGITAL AUDIO								
	CASSETTE	CASSETTE	Таре								
UNIT PRICE	£500	£280 *	£800								
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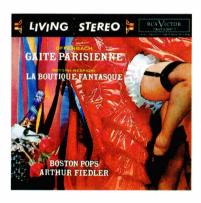
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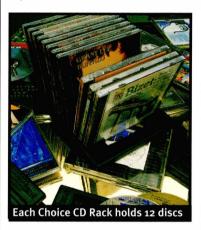
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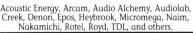
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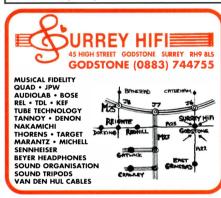
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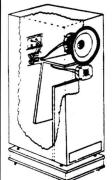
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KRELL PAM5 and KSA100Mk II pre/power, £2,300. Apogee Centaur Minor and stands, £650. KEF 103/4MS rosewood, £670. All mint condition and boxed. Sonic Link Violet and Care cables at half price. Surrey 0181-942 6241

LEAK Stereo 20 amp, preamp and tuner. All mint with original paper, £200. Also pair of Leak 12+ and many other Leak items (list), £400. Exeter (01392) 860182

LINN Isobarik DMS with Linn stands and Naim cable. Excellent, £775. Cornwall (01736) 757721

LINN Karik & Numerik. Mint condition CD. Boxed, as new. Forced sale. New £2,500, sell £1,400. Gloucester (01452) 611917

LINN Klyde cartridge. Less than 20 hours use, £350 ono. Portsmouth (01705) 293646 (Dave)

LINN LP12, Cirkus, Lingo, Ekos, Klyde. In walnut, £1,990. Naim NAC A5 cable, 2x5 metres bi-wired, £60. Cheadle 0161-437 5819

MARANTZ CD-16 new model CD player. Reviewed Dec HFN. List £1,400, accept £985. Unwanted prize. Wanted Rotel passive line stage. Edgware 0181-905 6331

METAXAS Charisma preamp, Iraklis power amp. Boxed, unused, £2,500 ono. Devon (01803) 813808

MISSION DAD 5 CD player, £100. Boxed, as new. Soton (01703) 328573 (Cris)

MUSICAL FIDELITY T1 MkII tuner, with outboard power supply. Barely used, £150. Exeter (01404) 823291

NAKAMICHI RX-505E cassette deck, 18 months old, £600. Enfield 0181-363 7889 Evenings and weekends

NAIM NAIT 3 amp. only three months old. Guaranteed three years, excellent condition, £360. W Sussex (01903) 716275

NAIM 72/Hi-Cap/180. Less than 2 yrs old. Upgrading! Boxed, as new, with receipts. £1,500 or offer. Will split. Norwich (01603) 593185 (daytime)

NVA P90 dual mono preamp (£340), sell £200. AT-OC5 cartridge (£145), sell £75. Played less than five LPs. W. Yorks (01484) 429844 Day, (01484) 534890 Eve.

QUAD FM3 tuner. Perfect condition, £75. Shure V15III cartridge, £5. Pair Tannoy Chevening speakers, offers invited. Brighton (01273) 203887

REVOX B77 Mk II 0.25" two track open reel machine for sale. Excellent condition, £850 ono. London 0181-558 6431

ROKSAN Xerxes XPS2 with Artemiz arm. Superb record player in black ash, lovingly cared for, £695. Kent (01843) 597822 ROSEWOOD KEF 105/3 speakers and KUBE 200, £1,600 ono. Cheadle 0161-437 8636

ROTEL RCD-965BX CD player, with free Cable Talk Studio interconnect. Little use. As new. Boxed, £180. London 0181-659 4294

SONY TAE1000-ESD preamplifier with Pro-Logic, as new, £400. Swindon (01793) 750874

SONY TAN 55ES p/amp. Mint, £225. Pioneer TX9500 tuner. Exc, £95. Garrard 401 deck. Exc, £110. Milton Keynes (01908) 260112 Evenings.

TEAC stereo tape deck X10R. Hardly used. Mint. Boxed. Manuals. NABs & several 10.5" reels. Specifications or request, £400. Exeter (01392) 860182

TECHNICS SUA900 MkII. Brand new. Only 20 Hrs use, £350. Northants (01832) 734884

VAN DEN HUL cables: Thunderline, 0.75m pair, £35. D.102 Mk II, 0.5m pair, £10. Magnum, 4m pair, £80. D.300, 6m pair, £30. XXXX (01663) 742225 Evens (Tom)

VOLT home studio monitors. Black ash finish. Reference speakers and stands, £240. Lincs (01652) 648681

WANTED Manuals or photocopy Pioneer amp 9500. Teac reel X10R, also new 10.5" reels and 1980s Hi-Fi Choice etc. Any hi-fi books, brochures etc, 1970s, 1980s. Exeter (01392) 860182 Eves

WANTED 1980s Hitachi amp and preamp, model 7500. Also handbooks for Pioneer 9500 amp and Teac tape deck X10R. Sell or exchange hi-fi year books Hi-Fi News magazines, Wharfedale Airdales for smaller loudsepakers. Exeter (01392) 860182

WANTED Hi-Fi Choice magazines, 1980s, early hi-fi books, handbook Teac X10R, 10.5" reels (new), 10" LPs, good twin cassette. Sell several valve (Leak) amps etc. Long list free. Exeter (01392) 860182 Eves

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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.

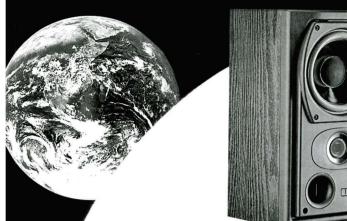


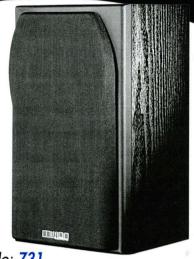
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For further information on innovation stockist or simply for help and advice phone

041-248 2857







Model No: 731

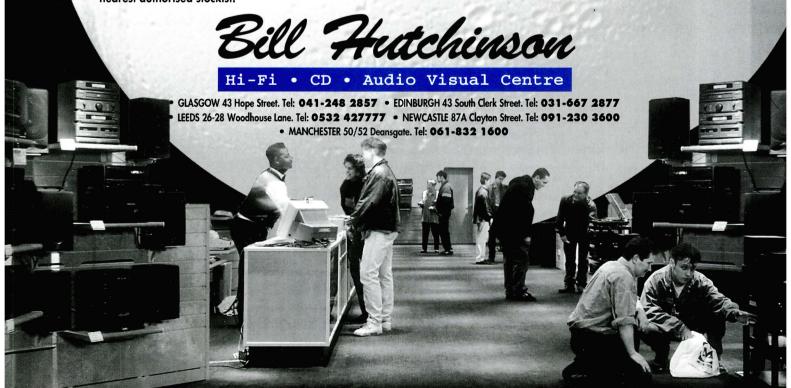
- Unique enclosure design couples the bass driver to the rear panel rather than the front baffle, thus isolating the energy source of the driver from the baffle. This results in a new order of clarity and freedom from coloration.
- Decoupled tweeter mounting reduces intermodulation of treble by low frequency induced energy.
- Precision moulded front baffle and rear panel in polymer composite provide considerable structural integrity and minimises unwanted colorations.
  - Easy drive characteristics.

- Inverted drive unit geometry optimises vertical dispersion characteristics and ensures smooth phase and frequency response around the crossover transition.
  - Anti-turbulance port design minimises low frequency "chuff" and aids production of ultra-clean bass output.



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- Peak power 200 Watts.
- Frequency Response 44Hz 30kHz.
- Sensitivity 90dB.
- 160mm extended bandwidth Dual Concentric provides correct phase, amplitude and optimised dispersion over a wide listening area, and helps promote a uniform, consistent and accurate sound for several listeners, not just a single 'sweet spot'.
- Supplementary 160mm bass only drive unit.
- Variable thickness, injection moulded cones ensure accurate bass and midrange reproduction.
- Non-resonant Waveguide and gold anodised aluminium tweeter dome provide pure, natural and dynamic treble.
- Low diffraction rounded baffle for purer treble and imaging.
- Sealed (IB) enclosure gives smoothley extended bass.
- New, gold plated, sliding link Bi-Wire terminal panel with improved cable access.

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• MANCHESTER 50/52 Deansgate. Tel: 061-832 1600







Model No: D-F10 Mini Component System

- UPA-F10 Integrated Amplifier
- UTU-F10 Am/Fm RDS Tuner
  - UCD-F10 CD Player
- UDR-F10 Horizontal-loading Cassette Deck

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#### Model: Purdey

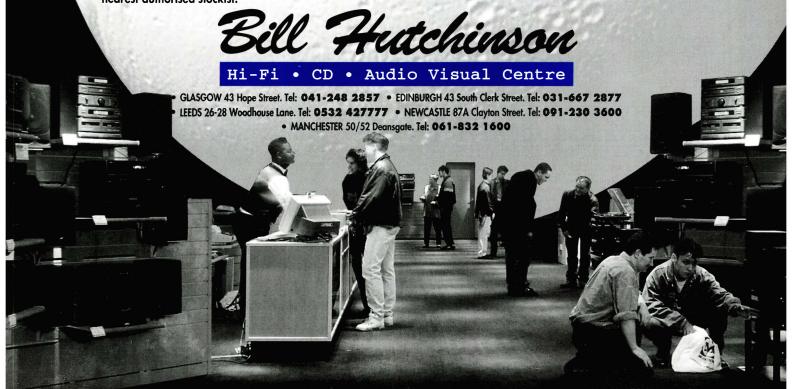
- Compatible with amplifiers from 30 to 120 watts per channel.
- Mass loadable for enhanced bass reproduction.
- Floor-standing, bi-wirable, two-way, speaker with a cone isolated plinth provided.
- Available in either a black-wood or a rich rose-wood finish.
- "...delivers a remarkably powerful performance, one that's detailed and coherent with a strong sense of timing." - Hi-Fi Choice, December 1994.
- "...RAM has a real winner on it's hands with Revolver speakers and (Purdey) model in particular." - CD Review, November 1994.





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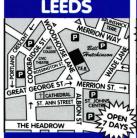
- INNOVATION WINNER '94 YAMAHA DSP-2070 - AV AMPLIFIER Ż - INNOVATION WINNER '94 KENWOOD KRV 6060 - AV RECEIVER Ż PIONEER PDS-703 CD PLAYER - INNOVATION WINNER '94 İ - LYFE STYLE SYSTEM - INNOVATION WINNER '94 **MARANTZ 1020** Ż AIWA AD-450 - CASSETTE DECK - INNOVATION WINNER '94 Ż **KEF 100** - CENTRE SPEAKERS - INNOVATION WINNER '94 JVC UX-C7 - AV AMPLIFIER - INNOVATION WINNER '94

PRICE PLEDGE

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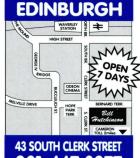
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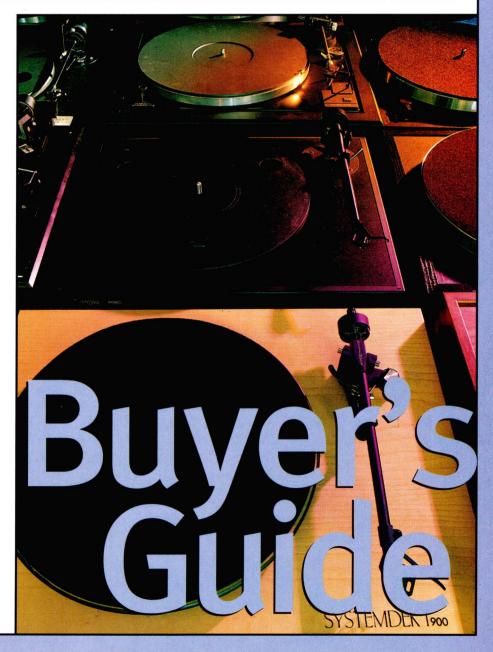
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Key to amplifiers
Price - typical retail, to nearest
pound.
Power - output power in watts, per
channel, RMS.
Inputs - MM/MC - phono moving coil
and moving magnet, L - line (CD, aux
etc), T - tape.
A/V - includes Dolby Surround or Pro
Logic decoder 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 for full test results.



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Model	Price	Type	AVV	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS Aiwa XA-003	140	Int	N	40	MM.2L.1T	Υ	N	-	2 speaker circuits
Aiwa XA-950	230	Int	N	100	MM/MC,2L,2T	Y	Y	-	2 speaker circuits
Alchemist Kraken/pre Ann	1	Pre		N	MM,3L,2T	N	N	25,9,25	Stainless steel/gold finish
Alchemist Kraken/Pwr An		Pwr	-	60		N	N	32,9,25	Stainless steel/gold finish
Alchemist Kraken/Pre	380	Pwr	-	60	-	-	-	32,9,25	Bridgable
Alchemist Kraken/mono	380	Pwr	N	60		N	N	32,9,25	
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	N	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	1020	Pre	N	3	6L,1T	N	N	31,7,30	
Alchemist Odin	1020	Pwr	-	80	- 1		-	31,14,30	
Alchemist Genesis	1525	Pwr	-	110	-	-	-	25,14,30	Pair monoblocks
AMC AV81 Control	289	Pre	Y	-	8L,2T	N	Y	-	
AMC 2445	299	Pwr	-	45	5.00	-	-	-	4 channels
AMC 1030	379	Pre	N	-	MM	N	N	-	
AMC 2030	449	Pwr	-	30		-	-	-	
AMC S84	479	Pre	Υ	-	8L	N	Y	-	Multiroom, bal/unbal inputs
AMC AV81 H.T. Control	499	Pre	Y	-	8L,2T	N	N	-	As AV81 plus Dolby Pro Lo
AMC CVT3030	529	Int	N	30	6L,1T	Y	N	-	Tube amp
Analogue Saturn	75	Pre	N	-	MM	N	N		
Analogue Saturn MC Analogue Jupitor	75	Pre	N	20	MC	N	N	-	
	330	Int	N	30	MM,4L,1T	N	N	42 0 00	Pupaggable tonet
Arcam Alpha 5	230	Int	N	40 50	MM,3L,2T	Y	N	43,8,30	Bypassable tone controls
Arcam Alpha 6 Arcam Delta 290P	330 400	Int Pwr	N	75	MM,3L,2T	Y	N	43,8,30 43,9,30	Remote volume facility
	_	100000000000000000000000000000000000000		-	AL OT	-	-		Opt MM/MC phono module
Arcam Delta 290 Arcam Delta 110S	480 520	Int Pre	N	75	4L,2T MM/MC,3L,2T	Y	Y	43,9,32 43,7,30	As Delta 110, w/o DAC
Arcam Delta 120.2	550	Pwr	N	100	IVIIVI/IVIC,3L,21	Y	N	43,7,30	Bridgeable
Arcam Delta 110	750	Pre	N	100	MM/MC,2L,2T	Y	Y	43,7,30	On-board DAC, 2 inputs
Arion EOS	899	Pwr	N	18	- IVIIVI/IVIO,ZL,ZI	-	-	-	With volume control
Arion Elektra	999	Int	N	18	4L,1T	N	N	-	Class A valve
Arion Eros Line	1050	Pre	N	-	4L,1T	N	N	-	Dual mono construction
Arion EOS Export	1099	Pwr	N	18	2.00		<u> </u>	-	With volume control
Arion Elektra Export	1199	Int	N	18	4L,1T	N	N	-	Class A valve amp
Arion Triton	1250	Pwr		10	-		<u> </u>		Triode, volume control
Arion Eros Phono	1250	Pre	N	-	3L,1T	N	N		Dual mono construction
Arion Talos Line	1350	Int	N	10	4L,1T	N	N	-	Triode Class A valve amp
Arion Tycho	1650	Pwr	N	50	-		-	-	Pure Class A
Art Audio Conductor H'ph			N	-	26.350 2323	Υ	N	-	Single ended triode Class A
Art Audio VPA	750	Pre	N	-	MM/MC	N	N	-	
Art Audio VPL	816	Pre	N	-	6L,2T	N	N	0.00	
Art Audio VP1	952	Pre	N	-	MM,5L,2T	N	N		
Art Audio Conductor	1000	Pre	N	- 300	6L,2T	-	N		Twin valve PSU
Art Audio Quintet	1393	Pwr	-	15	A EXECUTE OF A	-	-	-	Class A triode/pentode
Art Audio Conductor Phon	1500	Pre	N	-	MM/MC	N	N	-	Separate PSU, upgradable
Art Audio Conductor Expo	t 1500	Pre	N		6L,2T	Υ	Υ	-	Separate PSU, upgradable
Art Audio Concerto	1669	Pwr	N	50		-	-		2x mono triode/pentode
Art Audio Tempo	2398	Pwr	•	30		-	- 1	-	2x mono Class A triode
Art Audio Maestro	3524	Pwr	N	100	F. 2000 1923	-	-	-	2x mono triode/pentode
Art Audio Integra	11644	Int	N	30	5L,2T	N	N	15	Class A Pentode
Audio Innovation L1	299	Pre	N	-	3L,1T	N	N	25,10,30	
Audio Innovation Alto	329	Int	N	35	4L,2T	N	N	43,8,30	
Audio Innovation Ser 200	349	Pre	N	-	MM,3L,T	N	N	50,12,30	
Audio Innovation T2	399	Pre	N	-	MC	N	N	12,16,8	Phone stepup
Audio Innovation Ser 200	499	Pwr	N	12	-	N	N	50,12,30	
Audio Innovation Ser 300	499	Int	N	10	MM,3L,1T	N	N	50,12,30	Dharasata
Audio Innovation P2	679	Pre	N	7	MM	N	N	50,12,30	Phono stage
Audio Innovation L2	699	Pre	N	25	4L,1T	N	N	50,12,30	** .
Audio Innovation Ser 800	849	Pwr	N	25	AL 1T	N	N	41,15,34	Vit amplifica
Audio I Classic 25 Audio Innovation P2MC	899	Int	N	25	4L,1T MM/MC	N	N N	46,15,34	Kit amplifier
	899 999	Pre	N N	25		N	N	50,12,30	Phono stage
Audio Innovation Ser 500  Audio Innovation Ser 700		Int Int	N	25	MM,3L,2T 4L,1T	N	N		
Audio Innovation Ser 700 Audio Innovation 1000	1499	Pwr	N	50	42,11	N	N	41,15,34	Monoblocks
Audio Innovation 1000 Audio I First Audio	1549	Pwr	N	7.5	7	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	- 4 de-	N	N	41,15,34	Monoblocks
Audio Note Ongaku		Int	N	26	6L	N	N	-1,10,04	Single-ended Class A tube
Audio Note Oto		Int	N	24	MM/MC,4L,1T	N	N	-	origio oridou oidos A tube
Audio Research LS-3		Pre	N	-	5L,1T	N	N	48,14,26	1 direct input
Audio Research PH-1		Pre	N	-	MM/MC	N	N	48,14,26	Phono preamp
Audio Research LS-3b	2250	Pre	N	-	5L,1T	N	N	48,14,26	1 direct input
Audio Research VT60		Pwr	N	35	SARAMAS	N	N	1	Single ende tube mono
Audio Research LS-2		Pre	N	-	5L.1T	N	N	48,14,26	1 direct input/hybrid
Audio Research D-200	2800	Pwr	N	110	-1014	-	-	48,14,31	Single ended, balanced
Audio Research SP9 II		Pre	N		MM/MC,4L,2T	N	N		Hybrid
Audio Research PH-2		Pre	N	-	MM/MC	N	N		Balanced
Audio Research LS-2b		Pre	N	-500	5L,1T	N	N	48,14,26	1 balanced direct input/hyb
Audio Research V35		Pwr	N	30	- 1	-	-	48,18,37	Balanced in, hybrid
Audio Research V70		Pwr	N	60		-		48,18,40	Balanced in, hybrid
Audio Research D-300		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 VT130		Pwr	N	65		N	N	- 1	Stereo tube, balanced
Audio Research D-400II		Pwr	N	200		L.	-	48,23,33	Single ended, balanced
Audio Research V140		Pwr	N	120	-	200	-		Monoblocks, hybrid
	14900	Pwr	N	130		200	100000	27 21 50	Manahlanká tuho
Audio Research VT150 Audiolab 8000A	500		N	130	MM,MC,1T,3T	Υ	N	37,31,56 45,8,36	Monoblocks, tube

Model	Price	Туре	AV	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS									
Audiolab 8000C	520	Pre	N	-	MM/MC,1T,3T	Υ	N	45,8,36	2 pairs of outputs
Audiolab 8000P	700	Pwr		100	500000000000000000000000000000000000000	-	N	45,8,36	Bi-wire speaker terminals
Audiolab 8000M	750	Pwr Pre	N	125	MM/MC		N -	45,8,36 45,8,36	Single monoblock Phono preamplifier
Audiolab 8000PPA	850	-	CONTRACTOR AND ADDRESS OF THE PARTY NAMED IN CONTRACTOR AND ADDRES	-		Y	Y		
Audiolab 8000Q	1000	PRE Int	N N	60	3L,2T MM/MC	N	N	45,8,36	'Pure Direct' signal path
Audiolink Sterling II	350	-		60		N	N	43,7,270	
Audiolink P400	467	Pre Pwr	N N	100	4L	N	N	43,7,270	
Audiolink PR401	583	Int	N	45	5L.1T	Y	N	43,10,37	
Aura VA80	280	Int	N	70	MM,4L,1T	Y	N	43,6,31	Chrome finish, £50 extra Chrome finish add £50
AVI S2000MA	330 599	Pwr	IN	90	WW,4L,11	I I	IN	43,6,31	Chrome linish add £50
		-	N	90	5L.1T	N	-	21.05.0	
AVI S2000MP	749	Pre Int	N N	100	4L, 1T	IN	Y	31,25,9	
AVI \$2000M1	799 1099	Pwr	IN	150	4L, 11		-	31,25,9	2x monoblocks
AVI S2000MM AVI S2000A	1499	Pwr	N	250	F-0.00	500		43,50,9	ZX ITIUTIUUIUCKS
Beard VM-P	795	Pre	N	230	MM/MC,3L,1T	N	N	43,30,9	Hybrid tube/MOSFET
Beard CA-35	995	Pre ·	N		MM/MC,3L,1T	N	N		Tube Class A
Beard VMI-50	995	Int	N	50	MM/MC,3L,1T	N	N	-	Hybrid tube/MOSFET
Beard P-35	1395	Pwr	-	35	IVIIVIIVIO,SE,TT	N	N	-	Tube, Class A
Beard CA-506	1695	Pre	N	33	MANA/MC 2L 2T	N	N	-	Tube, Class A
			IN	70	MM/MC,3L,2T	N	N	-	Monoblock, tube, Class A
Beard A-70 Beard M-1000	2895 5900	Pwr Pwr	N	100		IN	N -	1.	Pair monoblocks
Bryston .4	641	Pre	Y	100	4L,1T	N	N	48,5,25	i ali monoulocks
	673	Pre	Y		MM or MC	N	N		Phono etonue hal 9 unhal
Bryston BP1	750	Pre	Y	75	IVIIVI UI IVIC	N	N	48,5,25	Phono stepup, bal & unbal Bridgable
Bryston 2B-LP Bryston BP4	802	Pre	Y	13	4L,1T	N	N	48,5,25	Balanced out
	889	Pre	Y			N	N	48,5,25	
Bryston BP5		Pre	Y		MM/MC,3L,1T 8L,1T	N	N	48,5,25 48,5,25	MM or MC, balanced out Balanced in/out
Bryston BP20 Bryston 3B-NRB	1126 1159	Pwr	Y	150	OL, III	N	N		Bridgable, bal & unbalance
Bryston 3B-NRB Bryston THX3B	1262	Pwr	Y	150	200 C C C C C C C C C C C C C C C C C C	N	N		2 channels, THX approved
Bryston 4B-NRB		Pwr	Y	300		N	N		Bridgable, bal & unbalance
	1756	Pwr	Y	500		N	N		
Bryston 7B-NRB	1815 1858	Pwr	Y	300		N	N		Single monoblock
Bryston THX4B Bryston THX7B	_	Pwr	Υ	500		N	N		2 channels, THX approved
	1917		Y	150	7	N			1 channel, THX approved
Bryston 8B-NRB	2195	Pwr	Y	_	30-am/2000	N	N N		4 channels, bridgeable
Bryston THX8B	2400	Pwr	N	150	5L	IN	IN	48,13,39	4 channels, THX approved
C.R. De Kalypso	499	Int	N	15	5L		-	-	
C.R. De Romulus	998	Int	N	35		1000	N	21 40 14	O autauta valva
CAT SL1 Sig line	5500	Pre	N	-	3L,1T		N	31,48,14	
CAT SL1 Sig phono	6000	Pre		200	MM,2L	15-20-5 2000-0	IN	31,48,14	2 outputs, valve
CAT JL1	13500	Pwr Int	N N	200	FL 1T	N	N	-	Delegged CD is belogged a
Chimera X-150C	800	Int	N	80	5L,1T 5L,1T	N	N	-	Balanced CD in, balanced o
Chimera X-80	800 1200	Pwr	IN	150	DL,11	IN	IV		MOCEET halance bridgehle
Chimera X-150P Chimera X-100	1200	Int	N	100	5L,1T	N	N	-	MOSFET, balance, bridgable Outboard PSU
Classe Audio Audio 3D	1320	Pre	N	100	MM/MC,4L,1T	14	R	48,7,28	Outouald F 30
Classe Audio Audio 30 Classe Audio Audio 70	1399	Pwr	IV	75	IVIJVIVIO,4L,11		an and	48,12,30	Single ended, balanced
Classe Audio Audio 4L	1697	Pre	N	-	5L,1T		N	48,9,34	Remote option
Classe Audio Audio 4	1735	Pre	N		MM/MC,4L,1T		N	48,9,34	Remote option
Classe Audio Audio 10	2299	Pwr		125	IVIIVIIVIO, 4L, 11			48,17,42	Single ended, bal bridgable
Classe Audio Audio 5L II	2395	Pre	N	120	5L,1T		N		Remote option
Classe Audio Audio 5 II	2657	Pre	N		MM/MC,4L,1T		N	48,15,43	
Classe Audio Audio 15	3399	Pwr	Ness	175	-			48,19,42	
Classe Audio Audio 15	3469	Pre	N	-	5L,1T		N	48,15,43	
Classe Audio Audio 6L II	3817	Pre	N		MM/MC.4L.1T		N		Remote option, sep PSU
Classe Audio Audio 6 II	4639	Pwr	-	250	- WAYNING,4L,11		IN		Single ended, bal bridgable
Classe Audio Audio M-70		Pwr		700				48,19,44	Single ended, bal monobloc
Classe Audio Audio M-70 Classe Audio Audio M-10		Pwr	-	1k	Santa Parada U				Single ended, bal monobloc
Concordant Exhilerant	900	Pre	N	- 1	5L	N	N	-	6 tube pre, wood case option
Concordant Exquisite	1950	Pre	N	-	5L	N	N	78	10 tubes, 2 line out, ext PSI
Conrad-Johnson PV10AL	995	Pre	N		5L	N	N	-	Line version of PV-10A
Conrad-Johnson PV-10A	1250	Pre	N	-	MC,4L	N	N	2	Tube
Conrad-Johnson PV-12L	2250	Pre	N	- 55	5L	N	N	-	Line version of PV-12
Conrad-Johnson PV-12	2750	Pre	N		MC,4L	N	N		Tube
C-J Premier 11A	3500	Pwr	N	70				-	Baby Premier 8
C-J Premier 10	3900	Pre	N		5L	N	N	-	Line version of Premier 7B
C-J Evolution 20 SP ED	6700	Pre	N	_	MC,4L	N	N	-	Poor man's Premier 7B
C-J Premier 12	7000	Pwr	N	149-			-/-	-	Monoblock pair
C-J Premier 7B		Pre	N	- 1	MC,4L	N	N		Ext PSU, twin mains leads
C-J Premier 8A	16000	Pwr	N	275	- Walley Walley	-31	-	-	Monoblocks, price per pair
Copland CSA14	999	Int	N	60	MM,3L,1T	N	N	43,13,38	Hybrid tube/transistor
Copland CTA-301	1250	Pre	N	-	MM,3L,1T	N	N		Tube, soft start
Copland CTA-501		Pwr	N	30	2L	N	N		Tube, has vol control
Copland CTA-401	1495	Int	N	30	MM,3L,1T	N	N	43,18,38	Tube push/pull ultra-linear
Copland CTA-504	1750	Pwr	N	50	25/2 (100.25)	N	N	43,18,38	Switchable tetrode/triode
Counterpoint Solid 1EM	_	Pwr	-	100	HANGE SEE	- 1		25,6,27	Mono
Counterpoint Solid 8E		Pre	N	- 1	3L,1T	N	N	49,6,27	
Counterpoint SA-1000E		Pre	N	-	MM/MC,3L,1T	N	N	49,12,32	
Counterpoint Solid 1E	-	Pwr		100		-	-	-	Mono
		Pwr	_	100	- 71-100	-	-	12	Hybrid
Counterpoint SA100E		-		AND DESCRIPTION OF THE PERSON NAMED IN	AL OT ES	N	NI.	40 10 22	
		Pre	N	-	4L,2T	14	N	49, 12,33	
Counterpoint SA100E Counterpoint SA-2000E Counterpoint Solid 2E	1595	Pre Pwr	N -	200	4L,21	-	-	49,12,33 49,17,49	Hybrid
Counterpoint SA-2000E	1595 1955		N - N	200		- N	- N	49,17,49	
Counterpoint SA-2000E Counterpoint Solid 2E	1595 1955 1995	Pwr		- 200 - 200	4L,21 - MM/MC,4L,2T -			49,17,49	Hybrid Separate PSU Rated at 40hms, hybrid

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory.

Audiolab 8000A 450 Int N 60 MM,MC,1T,3T Y N 45,8,36 Preout/main in



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Price - typical retail, to nearest
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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 for full test results.



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			Hea		Г				
	Price	Туре	A	Power	Inputs	adphon	Remote		
Model  AMPLIFIERS	6	pe	\$	ě.	द्ध	es	te	Size	Special
Counterpoint SA-5000E	3595	Pre	N	-	MM/MC,4L,2T	N	N	49,12,27	Separate PSU
Counterpoint NPS-400E	3995	Pwr	-	400	- 11	N	N		Rated at 4 ohms, hybrid
Counterpoint SA-9	3995	Pre	N	150	MM/MC	N	N	49,12,37	
C'point Nat Progress Counterpoint NPM-E	4125 7595	Pwr Pwr	-	150 150	- 115		-	49,18,49	Mono, hybrid Twin monoblocks
Credo PMP003	385	Pre	N	-		N	N	22,6,24	Phono amp MM/MC, & PSU
Credo HMP003	388	Pre	N	-	-	Υ	N	-	Class A headphone amp
Credo MMP002	439	Pre	N	-	-	N	N		Mic amp, phantom power
Credo IMP702	499 538	Int	N	70	6L MM/MC 6I		N	44,6,31	As about with some -t-
Credo IMP703 Credo CMP004	538 799	Int Pre	N	70	MM/MC, 6L 6L	- N	Y N	44,6,31 44,6,31	As above, with remote 3 outputs
Credo CMP004 Credo CMP005	1119	Pre	N	-	6L	N	Y	,0,31	Remote controlled pre
Credo PMP154	1699	Pwr	N	150	-	-	N	44,16,31	
Credo PMP303	1699	Pwr	N	30	- 100	-	N	-	Class A power amp
Credo PMP102	2181	Pwr	N	100		-	N	44,21,31	Class A power amp
Credo PMP252 Creek P42	2509 250	Pwr Pre	N -	250	4L,2T	- Y	N -	44,21,31 42,6,20	Plug-in modules available
Creek A42	250	Pre	-	50	-		-	42,6,20	modulos avallable
Creek 4240	250	Int	N	40	3L,1T	Υ	N	42,6,20	Optional phono input
Crimson 620	395	Pwr	N	40	2-10-10 No. 171	-	-	-	
Crimson CS610	395	Pre	N	-	MM/MC,2L,1T	N	N	9,10,35	
Crimson CS620 Croft Micro	395 299	Pwr Pre	N N	40	MM 3T 1T	- N	- N	9,10,35	
Croft Micro Croft Micro	400	Pre	N		MM,3T,1T MM,3L,1T	N	N	43,10,36	Tube
Croft Series 5	549	Pwr	N	35	-	N	N	-,.0,00	Ultralinear design
Croft Charisma	599	Pre	N		MM,3T,1T	N	N		
Croft Integrated	599	Int	N	35	MM,3L,1T	N	N	-	7.
Croft Charisma	700	Pre	N	-	MM,3L,1T	N	N	43,10,36	
Croft Series X Croft Enigma	800 999	Pwr Pre	N N	25	- MM,3T,1T	- N	- N	43,10,36 -	OTL amp, triode
Croft Enigma Croft Enigma	1100	Pre	N	-	MM,31,11 MM,3L,1T	N	N	43,10,36	Tube
Croft Series 6	1300	Pwr	N	120		-	-	43,10,36	Triode facility
Croft Series IIIR	1599	Pwr	N	35	- 2000	N	N	-	OTL, regulated PSU
Croft Series III R	1600	Pwr	N	45	- MALOT I	-	-	50,20,25	OTL amp, triode
Croft Absolut 1	1999 5500	Pre Pwr	N N	100	MM,3T,1T	N N	N N		Monoblask OTI
Croft Series IIR  Dawn Audio Cmd 2 by 20	5500	Pwr	-	100	- printing and a	N	N	38,11,26	Monoblock OTL 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	UK design
Denon PMA-350 II	220	Int	N	50	MM,3L,2T	Υ	N	44,12,28	UK design
Denon PMA-480R	220	Int	N	50	MM,3L,2T	Υ	Y	44,12,29	IIIV d
Denon PMA-450SE Denon PMA-880R	270 300	Int Int	N N	60 75	MM,3L,2T MM,3L,2T	Υ	N	44,14,36 44,16,40	UK design
Denon PMA-880R Denon AVC-1530	480	Int	Y	70	MM,3L,2T MM,2L,2T	Y	Y	44,16,40 44,14,34	
Denon AVC-3020	730	Int	Υ	80	MM,4L,4T	Υ	Υ		Learning remote
Denon AVC-3530	1000	Int	Υ	110	MM,4L,4T	Υ	Υ	44,16,43	Learning remote
DNM 3 Start	850	Pre	N	-	MM/MC,2L,1T	N	N	27,13,16	
DNM 3A Start DNM PA1	1200 1450	Pre Pwr	N N	- 45	MM/MC,2L,1T	N -	N -	27,13,16 27,13,18	Triwire output
DNM 3B Primus E	2050	Pre	N	-	MM/MC,4L,1T	- N	N	27,13,18	ιο σσιμαι
DNM 3B Twin E	3050	Pre	N	-	MM/MC,4L,1T	N	N	27,13,16	
DNM PA2BE	3550	Pwr	N	90			-	27,13,18	Triwire output
DNM 3B Six E	4050	Pre	N	-	MM/MC,4L,1T	N	N	27,13,16	Triming and
DNM PA2BS DNM PA2BS-1	4450 4800	Pwr Pwr	N N	90 90				27,13,18 27,13,18	Triwire output Triwire output
DPA DSP200S	4800	Pwr	N	-	5L,1T	- N	- N	,10,10	ro output
DPA Renaissance	595	Int	N	40	MM,4L,1T	Y	N	-	'Compound Class A' o/p
DPA DPA200S	750	Pwr	-	60		-		-	Bridgable
Dynavector P100	1495	PRE	N	-	MM,MC	- NI	- M	44,6,22	Phono stepup
Dynavector L100  Dynavector HX1.2	1995 3995	PRE PWR	N N	130	3L,2T	N -	N -	44,6,24 44,13,37	High current capability
EAR 834P	349		N	-	MM/MC	N	N	40,40,15	Valve phono stepup
EAR 834	1395	INT	N	50	6L	N	N	40,40,15	Valve
EAR 802	1440	Pre	N	-	MM,2L,2T	N	N	-	Valve
EAR 802MC	1580 1595	Pre	N -	12	MC,2L,2T	N	N	40.40 *=	Valve Single ended valve
EAR 859 EAR 509 Mk II	1595 2900	INT PWR	N N	13	6L	N N	N N	40,40,15 36,20,25	Single ended valve Valve monoblock x1
EAR 519	3830	_	N	100	- 100			43,14,20	Valve monoblock x1  Valve monoblock x1
EAR G88	5770	Pre	N	-	MM/MC,3L,2T	N	N	,. 1,20	Valve
EAR 549	5860	PWR	N	200		- 1	2.3	43,27,22	Valve monoblock x1
ECA Vista	760	Pre	N	-	4L,1T	N	N	39,10,39	Phase coherent design
ECA Prisma ECA Lectern S	760 880	Pre Pwr	-	50	MM,MC *	-		39,10,23	Phono stepup  Phase coherent design
Electrocompaniet ECP-1	502	Pwr	- N	-	- MM/MC	- N	- N	39,10,30 24,7,16	Phase coherent design Self adjusting
Electrocompaniet ECP-1S	670	Pre	N	-	MM/MC	N	N	24,7,16	MC input, blue stone finish
Electro EC-4 Line	1332	Pre	N	-	5L,2T	N	N	48,9,23	
Electro EC-4 SF Line	1460	Pre	N	-	5L,2T	N	N	48,9,23	Blue stone facia
Electrocompaniet EC-3MN	1556	Pre	N	-,	MM,4L,2T	N	N	48,9,23	Plug stone feets
Electro EC-3MM-SF Electrocompaniet EC-3M0		Pre Pre	N N	-	MM,4L,2T MC,4L,2T	N N	N N	48,9,23 48,9,23	Blue stone facia Adjustable MC input
Electro EC-3MC-SF		Pre Pre	N		MC,4L,2T	N N	N N		Adjustable MC input MC input, blue stone facia
Electro AW100DMB	2018	Pwr	-	100	Fig. 19 Mary		-		High current (80A)
Electrocompaniet EC1-1	2081	Int	N	100	5L,2T	N	N	45,13,36	High current (80A)
Electro AW100DMB-SF	2140	Charles and the	N	100	- FLOT	-	- N		High current, blue stone facia
Electro EC1-1 Int-SF Electrocompaniet AW180		Int Pwr	N -	100	5L,2T	N -	N		High current, blue stone facia 2x monoblocks
Electro AW180MB-SF		Pwr	N	180	-/	- N	- N		2x mono, blue stone facia
Electro AW250DMB		Pwr	-	250	-	-	-		High current (100A)
								- 1	

### APPLIFIES   4560   Perf N   250	Model	Power A/V Type		Inputs	eadphone	Remote	Size	Special		
Electro AWGSDONB-SP   566   Nor N   250		e	е	<	4	US .	S	0	Size	Special
EMP Audio Saque		4560	Pwr	N	250	Les Marie			48.45.22	Blue stone facia
Exposure XX		_	-		-	MM 4I 1T	Y	N		
Exposure XX				_	_		_	_		
Exposure NV		_		-	40		100000000000000000000000000000000000000			
Exposure NVIII					-					
Exposure XVIII		_	-		40		-			
Exposure AVIII	Exposure XIV	750	Pre	N	-	MM,MC,3L,2T	N	N	48,8,30	Digital in
Exposure NV 1900   Per N	Exposure XVIII	750	Pwr	N	60	-	N	N	43,85,35	
Exposure NV 1900   Per N		_			-	MM MC 3L 2T	N	N		
Exposure N			-	-	60	IIIIII,IIIO,OL,LI	-			2v mana manahlasik
Fulles Pro 1		_				-	-	_		ZX IIIUIIU IIIUIIUUIUUK
Fulles Pro 1 + 6.64   Pre N		1800			80	÷ 200 (1900)		_		
Fullers A.1 0	Fullers Pre 1	599	Pre	N	-	MM/5L,2T	N	N	48,9,30	Optional MC stage
Fulles A10   1200   Par   N   N   N   N   14,13,30   Single ended Class A Gamma Rouselies (BA)   199   Par   N   N   N   N   44,17,30   N   N   N   14,13,30   And or for Gamma proan Gamma Rouselies (BA)   199   Par   N   N   18   N   18	Fullers Pre 1+	649	Pre	N	-	6L.2T	N	N	48,9,30	No phono option - hard wire
Gamma Rouselage   Figure   F		_		-	10			1.		
Camma Accustics ERA   1999   Per   N   8   8   N   8   18   N   8   42,231   Une integrated Cases and Camma Accustics Stepty   1999   Per   N   18   N   8   N   43,2231   Une integrated Cases A   1999   Per   N   18		_		N	10	of the Company of the	N	N		
Samma Racustes Strytim		_	Market Control			-	IN	10000000000		Add on for Gamma preamp
Gamma Racoustics Spage   3490   Per   N   8   -	Gamma Acoustics ERA		_		-		-			
Samma Rederence   3-99   Pre   N   2 -	Gamma Space Reference	3499	Int	N	18		-	N	43,22,31	Line integrated
Samma Rederence   3-99   Pre   N   2 -	Gamma Acoustics Spage	3499	Pwr	N	18		-	N	43.22.31	
Samma Acquestics Rhyphf   4990			THE REAL PROPERTY.	_				-		
Samma Aeon Signature					05					0: 1 10: 1
Samma Space Signature   1999						-	-	_		
Samma Space Signature   1999		6999					-		29,21,53	Single ended Class A, mon
Samma Space Signature   1999	Gamma Aeon Signature	8999	Pwr	N	30		-	N	29,21,53	Single ended Class A. mon-
Samma Era Signature  7 and 1000  7 and 2 Pre  7 and 1000  7 and 2 Pre  8		_	-		The residence of the last of t	_		_		
Grant CD10			THE RESIDENCE AND PARTY.		1.0			-		omigio oridou oldaa M, IIIUIII
Grant 6100P								_	44,24,39	
Grant GSDA         1128         Pwr Farm Lord SDA         1528         Pwr Tam Lord SDA         1528         Pwr Tam Lord SDA         1528         Pwr Tam Lord SDA         1509         Pwr Tam Lord SDA         1509         Pwr Tam Lord SDA         1500 <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td>					-		-	-	-	
Sarnt G300AMS	Grant 6100P	764	Pre	N	-	MM,2L,1T	N	N	-	
Start G100AMS		_	-		60	1.	-		-	Monoblocks
Stant GSSOA		_						-		
Strondg V210			_	-				-	-	
Strundig V210			_	-		•	-	-	-	
Samudig V210	Grant G200AMS	3760	Pwr	<u> </u> -	200		-	-	-	Monoblocks
Strundig V1		130	Int	N		MM,5L.1T	Y	Υ	36.12.30	Pre-main split
Strundig V310					THE REAL PROPERTY.		100000000000000000000000000000000000000			
Strundig V2										
STUNDIG PT   1500   Pt							-			
GT Audio Pre         1500         Per         N         -         MM,3L,1T         N         N         -         Regulated HT/LT PSU Triode switchable (15w) frode switchab	Grundig V2	200	Int	N	80	MM,5L,1T	Υ		43,14,30	Tone defeat
ST Audio Pwr   2000   Pwr   N   30   N   N   N   N   N   N   N   N   N	Grundig V3	250	Int	N	120	MM,5L,1T	Υ	Y	43,14,30	Pre-main split
### And Comment   2000   Pwr   N   30   Nm   N   N   N   N   N   N   N   N		1500	Pre	N			N	N	-	
Harman-Kardon PK2000   349   Pwr			-		20	illinijoejiii	-	_		
Harman-Kardon PA2100   349						AMA OL OT	-		45 44 07	THOUGH SWITCHADIR (13W)
				N		MM,3L,21	N	N		
Harman-Kardon HK6350   399   Int   N   25   MM,6L,2T   Y   Y   45,11,37	Harman-Kardon PA2100	349	Pwr	-	45		-	-	45,11,37	
Harman-Kardon HK6350   399   Int   N   25   MM,6L,2T   Y   Y   45,11,37	Harman-Kardon HK1400	399	Int	N	40	MM/MC.3L.2T	N	N	45.11.37	
Harman-Kardon AP2500					25	The second secon	Υ	Y		
Arman-Kardon AP2500   499   Pre   N   -			-							
Farman-Kardon PA2200   579   Pwr   70					00					- A
Harman-Kardon HK6650				N	-	MM/MC.6L,21	N	-		
Harman-Kardon HK6850   899	Harman-Kardon PA2200	579	Pwr	-	70		-	-	45,14,38	
Harman-Kardon HK6850   899   Int   Y   85   MM/MC,4L,2T   Y   N   45,16,40   Video circuitry	Harman-Kardon HK6650	749	Int	Y	70	MM/MC,4L,2T	Y	Y	45,14,37	Video circuitry
Harman-Kardon PA2400   899	Harman-Kardon HK6850	899	Int	Υ	85	MM/MC 4L 2T	Υ	N	45 16 40	Video circuitry
Agriculty   Agri					_			THE REAL PROPERTY.		,
Heybrook SiG MNEX				V		AMAZOCI OT	· ·	100000000000000000000000000000000000000		16 d i i i
The prook SIG MNEX   698										video circuitry
No.   Additional Content   No.   No.   No.   Additional Content   No.   No.   Additional Content   No.   No.   Additional Content   No.   No.   Additional Content   No.   No.   No.   Additional Content   No.   No.   No.   Additional Content   No.   No.   No.   No.   No.   Additional Content   No.		550	-	N	_	MM/MC	Υ	N	77,44,30	
Name	leybrook SIG MNEX	698	Pwr	-	140	-		-	-	Mono, uses ext PSU
No.	nca Tech Oberon Pre	350	Pre	N	-	MM/MC,6L,2T	N	N	43,8,22	CD direct & Two outputs
No.		400			70			N		
Addis DEFY-P60   3774   Pre   N   -   MM/MC,4L,1T   -   -   43,17,30   Tube				A COLUMN	, 0	MANAGEL OT	None and a second	-		
Addis JPL					-		Y	N		
Addis JPP-200	adis DEFY-P60	3774	Pre	N	-	MM/MC,4L,1T	-	-	43,17,30	Tube
Radis DEFY-7   5290	ladis JPL	4720	Pre	N	-30.00	5L,1T	-	-	43,17,30	Tube
Radis DEFY-7   5290			710000000000000000000000000000000000000	_	-		-	-	-	
adis JA30         5760         Pwr         30         -         -         21,21,46         Tube, 1x monoblock           adis JP-30MC         6444         Pre         N         -         MM/MC,4L,1T         -         -         21,21,46         Tube, 1x monoblock           adis JP-80MC         9912         Pwr         -         6,1T         -         <					100				49 23 62	Tuhe
Radis JP-30MC			CARROLL STREET, STREET							
Per N   -   -   -   -   -   -   -   -   -			-	-	30		~	-	21,21,46	TUDE, TX MONODIOCK
adis JA80         9912         Pwr         -         60         -         -         23,26,58         Tube, 1x monoblock           adis JA-200         11250         Pre         N         -         MM/MC,4L,1T         -         -         26,23,58         Tube, 1x monoblock (four box adis JA-200MC         19000         Pre         N         -         MM/MC,5L,1T         -         -         26,23,58         Tube, monoblock (four box adis JA-500         21900         Pre         N         -         MM/MC,5L,1T         -         -         28,36,79         Tube, monoblock (four box adis JA-500         21900         Pre         N         -         -         28,36,79         Tube, monoblock (four box adis JA-500         10 th         N         65         MM,3L,2T         Y         N         44,15,31         Y         Y         44,15,31         Y         Y         44,15,31         Y         Y         44,15,31         Y         Y         AL,15,31         Y         Y         Y         44,15,31         Y         Y         Y         44,15,31         Y         Y         Y         Y         Y         AL,15,31         Y         Y         Y         Y         Y         Y         Y         Y         Y         Y         Y <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>28</td>					-		-	-	-	28
adis JP-80MC         11250         Pre         N         -         MM/MC,4L,1T         -	adis JP-S2	7900	Pre	N	-	6,1T	- 1	-	-	
adis JP-80MC         11250         Pre         N         -         MM/MC,4L,1T         -	adis JA80	9912	Pwr	-	60		-	-	23,26.58	Tube, 1x monoblock
adis JA-200         15518         Pwr         -         160         -         -         -         26,23,58         Tube, monoblock (four box adis JA-200 MM/MC,5L,1T         -         -         26,23,58         Tube, monoblock (four box adis JA-200 MM/MC,5L,1T         -         -         26,23,58         Tube, monoblock (four box adis JA-200 MM/MC,5L,1T         -         -         -         28,36,79         Tube, monoblock (four box adis JA-200 MM/MC,3L,2T         Y         N         44,15,31         -         -         -         28,36,79         Tube, monoblock (four box adis JA-200 MM/MC,3L,2T         Y         N         44,15,31         -         -         -         44,15,31         - <th< td=""><td></td><td></td><td></td><td>N</td><td></td><td>MM/MC 4L 1T</td><td>19415</td><td>-</td><td>- ,</td><td></td></th<>				N		MM/MC 4L 1T	19415	-	- ,	
adis JP-200MC         19000         Pre         N         -         MM/MC,SL,1T         -			_		160				26 22 50	Tuho monoblost fform him
According to the control of the co		_	_		100	AMANA SI IT			20,23,38	TUDE, HIDHODIOCK (TOUR DOXE
VC AX-A472BK         250         Int         N         65         MM,3L,2T         Y         N         44,15,36           VC AX-A562BK         250         Int         N         80         MM,3L,2T         Y         Y         44,15,36           VC AX-A562BK         330         Int         N         90         MM/MC,3L,2T         Y         N         44,13,31           AL Magician         550         Pre         N         -         SL,1T         Y         N         -         Tube           AL Empress         3660         Pre         N         -         MM/MC,2L,1T         Y         N         -         Tube           AL Empreor         4375         Pvr         -         -         MM/MC,2L,1T         Y         N         -         Tube           AL Conqueror         12500         Int         N         30         MM/MC,3L,1T         N         -         -         -         Single ended tube Class A           AL Conqueror         12500         Int         N         30         MM/MC,3L,1T         N         N         -           enwood KA-3060R         170         Int         N         65         MM,3L,2T         Y         N		-	_	N		MM/MC,5L,11	-	-	-	
VC AX-R562BK         250         Int         N         80         MM,3L,2T         Y         Y         44,15,31           VC AX-A662BK         330         Int         N         90         MM/MC,3L,2T         Y         N         44,15,31           AL Magician         550         Pre         N         -         N         -         Tube           AL Harlequin         750         Pre         N         -         MM/MC,2L,1T         Y         N         -         Tube           AL Emperor         4375         Pwr         -         9         -         -         -         Single ended tube Class A           AL Conqueror         12500         Int         N         30         MM/MC,3L,1T         N         -         -         Single ended tube Class A           AL Conqueror         12500         Int         N         30         MM/MC,3L,1T         N         -         -         Single ended tube Class A           AL Conqueror         12500         Int         N         60         MM,3L,2T         Y         N         44 wide         'Logical Flow' construction           enwood KA-3060R         170         Int         N         65         MM,3L,2T <td< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td>-</td><td>-</td><td></td><td>Tube, monoblock (four boxe</td></td<>				-			-	-		Tube, monoblock (four boxe
VC AX-R562BK         250         Int         N         80         MM,3L,2T         Y         Y         44,15,31           VC AX-A662BK         330         Int         N         90         MM/MC,3L,2T         Y         N         44,15,31           AL Magician         550         Pre         N         -         MM/MC,2L,1T         Y         N         -         Tube           AL Empress         3660         Pre         N         -         MM/MC,2L,1T         Y         N         -         Tube           AL Empress         3660         Pre         N         -         MM/MC,2L,1T         Y         N         -         Tube           AL Conqueror         12500         Int         N         30         MM/MC,3L,1T         N         -         -         Single ended tube Class A           AL Conqueror         12500         Int         N         30         MM/MC,3L,1T         N         N         -         Tube           AL Conqueror         12500         Int         N         60         MM,3L,2T         Y         N         44 wide         'Logical Flow' construction           enwood KA-3060R         230         Int         N         65	VC AX-A472BK	250	Int	N	65	MM,3L,2T	Υ	N	44,15,36	
VC AX-A662BK         330         Int         N         90         MM/MC,3L,2T         Y         N         44,13,31           AL Magician         550         Pre         N         3L,1T         Y         N         -         Tube           AL Emperor         3660         Pre         N         -         MM/MC,2L,1T         Y         N         -         Tube           AL Emperor         4375         Pwr         -         9         -         -         -         Single ended tube Class A           AL Conqueror         12500         Int         N         30         MM/MC,3L,1T         N         N         -         Single ended tube Class A           AL Conqueror         12500         Int         N         30         MM/MC,3L,1T         N         N         -         Single ended tube Class A           AL Conqueror         12500         Int         N         60         MM,3L,2T         Y         N         44 wide         **Use period Class A           enwood KA-2060R         170         Int         N         50         MM,3L,2T         Y         N         44 wide         **Use period Class A           enwood KA-5020         230         Int         N										
AL Magician 550		_	_							
AL Harlequin 750 Pre N - MM/MC, 2L, 1T Y N - Tube  AL Empress 3660 Pre N - MM/MC, 2L, 1T Y N - Tube  AL Emperor 4375 Pre N - MM/MC, 2L, 1T Y N - Tube  AL Conqueror 12500 Int N 30 MM/MC, 3L, 1T N N - Single ended tube Class A AL Conqueror 12500 Int N 30 MM/MC, 3L, 1T N N - William Construction enwood KA-1060 140 Int N 60 MM, 3L, 2T Y N 44 wide 'Logical Flow' construction enwood KA-2060R 170 Int N 65 MM, 3L, 2T Y N 44 wide 'UK Special Edition enwood KA-3020SE 200 Int N 50 MM, 3L, 2T Y N 44 wide Wilk Special Edition enwood KA-3060R 230 Int N 45 MM, 3L, 2T Y Y 44 wide System control enwood KA-5020 230 Int N 80 MM, 3L, 2T Y N 44 wide 'Pure Signal' ground line enwood KA-5050R 350 Int N 95 MM, 3L, 2T Y Y 44 wide 'Pure Signal' ground line enwood KA-7050R 500 Int N 95 MM, 3L, 2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM, 3L, 2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM, 3L, 2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM, 3L, 2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM, 3L, 2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM, 3L, 2T Y Y 44 wide Pro Logic, learning remide relik KSA-50S 3690 Pwr - 50 48, 22, 40 Systained Plateau Bias relik KSC-2s 4190 Pre N - 6L, 1T N Y 48, 7, 36 Opt MM/MC stage			STATE STATE OF THE PARTY OF THE		00				, 10,01	Tubo
AL Empress 3660			-		A SHEET		CONTRACTOR OF THE PARTY OF	District District	5 5 6	
AL Emperor 4375   Pwr   - 9       Single ended tube Class A AL Conqueror 12500   Int N   30   MM/MC,3L,1T N   N   -   -   -   -   Single ended tube Class A AL Conqueror   12500   Int N   60   MM,3L,2T   Y   N   44 wide   'Logical Flow' construction enwood KA-2060R   170   Int N   65   MM,3L,2T   Y   Y   44 wide   'Logical Flow' construction enwood KA-3020SE   200   Int N   50   MM,3L,2T   Y   N   44 wide   UK Special Edition enwood KA-3060R   230   Int N   80   MM,3L,2T   Y   Y   44 wide   System control enwood KA-5020   230   Int N   80   MM,3L,2T   Y   N   44 wide   'Pure Signal' ground line enwood KA-5020   300   Int N   95   MM,3L,2T   Y   Y   44 wide   Dolby Pro Logic enwood KA-7050R   350   Int N   95   MM,3L,2T   Y   Y   44 wide   System control enwood KA-7050R   500   Int N   100   MM,3L,2T   Y   Y   44 wide   System control enwood KA-7700   600   Int N   100   MM,3L,2T   Y   Y   44 wide   System control enwood KA-7700   600   Int N   50   MM,3L,2T   Y   Y   44 wide   Pro Logic, learning remote   Fill KSL-2   3331   Pre N   4L,1T   N   N   48,7,36   Opt MM/MC stage   Fill KSC-2s   4190   Pre N   6L,1T   N   Y   48,7,36   Opt MM/MC stage   Fill KSC-2s   4190   Pre N   6L,1T   N   Y   48,7,36   Opt MM/MC stage   Fill KSC-2s					-					
AL Conqueror 12500 Int N 30 MM/MC,3L,1T N N enwood KA-1060 140 Int N 60 MM,3L,2T Y N 44 wide 'Logical Flow' construction enwood KA-3020SE 200 Int N 50 MM,3L,2T Y N 44 wide System control enwood KA-3020R 230 Int N 85 MM,3L,2T Y N 44 wide System control enwood KA-5020 230 Int N 80 MM,3L,2T Y N 44 wide System control enwood KA-5020 230 Int N 80 MM,3L,2T Y N 44 wide 'Pure Signal' ground line enwood KA-5020 300 Int N 80 MM,3L,2T Y N 44 wide 'Pure Signal' ground line enwood KA-5020 350 Int N 95 MM,3L,2T Y Y 44 wide Dolby Pro Logic enwood KA-5050R 350 Int N 95 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 95 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide System control enwood KA-7700 600 Int Y 45 MM,11L,1T Y Y 44 wide Pro Logic, learning emiote enwood KA-7700 600 Int Y 45 MM,11L,1T N N 48,7,36 Opt. MM/C stage rell KSA-50S 3690 Pwr - 50 48,22,40 Sustained Plateau Bias rell KRC-2s 4190 Pre N - 6L,1T N Y 48,7,36 Opt. MM/MC stage	AL Empress			N	-	MM//MC,2L,1T	Υ	N		Tube
AL Conqueror 12500 Int N 30 MM/MC,3L,1T N N enwood KA-1060 140 Int N 60 MM,3L,2T Y N 44 wide 'Logical Flow' construction enwood KA-3020SE 200 Int N 50 MM,3L,2T Y N 44 wide System control enwood KA-3020R 230 Int N 85 MM,3L,2T Y N 44 wide System control enwood KA-5020 230 Int N 80 MM,3L,2T Y N 44 wide System control enwood KA-5020 230 Int N 80 MM,3L,2T Y N 44 wide 'Pure Signal' ground line enwood KA-5020 300 Int N 80 MM,3L,2T Y N 44 wide 'Pure Signal' ground line enwood KA-5020 350 Int N 95 MM,3L,2T Y Y 44 wide Dolby Pro Logic enwood KA-5050R 350 Int N 95 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 95 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide System control enwood KA-7700 600 Int Y 45 MM,11L,1T Y Y 44 wide Pro Logic, learning emiote enwood KA-7700 600 Int Y 45 MM,11L,1T N N 48,7,36 Opt. MM/C stage rell KSA-50S 3690 Pwr - 50 48,22,40 Sustained Plateau Bias rell KRC-2s 4190 Pre N - 6L,1T N Y 48,7,36 Opt. MM/MC stage	AL Emperor	4375	Pwr		9		-	-	=	Single ended tube Class A
enwood KA-1060 140 Int N 60 MM,3L,2T Y N 44 wide "Logical Flow" construction enwood KA-2060R 170 Int N 65 MM,3L,2T Y Y 44 System control enwood KA-3020SE 200 Int N 50 MM,3L,2T Y N 44 wide UK Special Edition enwood KA-3060R 230 Int N 45 MM,3L,2T Y N 44 wide System control enwood KA-5020 230 Int N 80 MM,3L,2T Y N 44 wide System control enwood KA-5020 300 Int N 80 MM,3L,2T Y N 44 wide Dolby Pro Logic enwood KA-5050R 350 Int N 95 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 95 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide Pro Logic, learning remote rell KSL-2 3331 Pre N 4L,1T N N 48,7,36 Opt.MM/MC stage rell KSCA-50S 3690 Pwr - 50 48,22,40 Sustained Plateau Bias rell KRC-2s 4190 Pre N - 6L,1T N Y 48,7,36 Opt.MM/MC stage			COURSES	N		MM/MC.3L 1T	N	N	-	2
enwood KA-2060R 170 Int N 65 MM,3L,2T Y Y 44 System control enwood KA-3020SE 200 Int N 50 MM,3L,2T Y N 44 wide UK Special Edition enwood KA-3060R 230 Int N 45 MM,3L,2T Y Y 44 wide System control enwood KA-5020 230 Int N 80 MM,3L,2T Y N 44 wide Pure Signal 'ground line enwood KA-5050R 350 Int N 95 MM,3L,2T Y Y 44 wide Pure Signal 'ground line enwood KA-5050R 350 Int N 95 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide Pro Logic, learning remide relik KSL-2 3331 Pre N - 4L,1T N N 148,7,36 Opt. MM/MC stage relik KSC-2s 4190 Pre N - 6L,1T N Y 48,7,36 Opt MM/MC stage									11 wido	'I onical Flow' construction
enwood KA-3020SE         200         Int         N         50         MM,3L,2T         Y         N         44 wide         UK Special Edition           enwood KA-3060R         230         Int         N         45         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-5020         230         Int         N         80         MM,3L,2T         Y         N         44 wide         Pure Signal' ground line           enwood KA-V3700         300         Int         Y         100         MM,4L,2T         Y         Y         44 wide         Dolby Pro Logic           enwood KA-7050R         500         Int         N         95         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-V7700         600         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-V7700         600         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-V7700         600         Int         Y         45         MM,11,1T         Y         Y         44 wide         System control		_		-			SANDERS WEIGHT			
enwood KA-3060R         230         Int         N         45         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-5020         230         Int         N         80         MM,3L,2T         Y         N         44 wide         Pure Signal' ground line           enwood KA-V3700         300         Int         Y         100         MM,4L,2T         Y         Y         44 wide         Dolby Pro Logic           enwood KA-5050R         350         Int         N         95         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-77050R         500         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-V7700         600         Int         Y         45         MM,11L,1T         Y         Y         44 wide         System control           enwood KA-V7700         600         Int         Y         45         MM,11L,1T         Y         Y         44 wide         System control           erli KSL-2         3331         Pre         N         -         4L,1T         N         N         48,7,36         Opt. MM/MC stage										
enwood KA-5020 230 Int N 80 MM,3L,2T Y N 44 wide "Pure Signal" ground line enwood KA-V3700 300 Int Y 100 MM,4L,2T Y Y 44 wide Dolby Pro Logic enwood KA-5050R 350 Int N 95 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide System control enwood KA-70700 600 Int Y 45 MM,11L,1T Y Y 44 wide Pro Logic, learning remote rell KSL-2 3331 Pre N - 4L,1T N N 48,7,36 Opt. MM/MC stage rell KSA-50s 3690 Pwr - 50 48,22,40 Sustained Plateau Bias rell KRC-2s 4190 Pre N - 6L,1T N Y 48,7,36 Opt. MM/MC stage	enwood KA-3020SE		Int	-		MM,3L,2T			44 wide	UK Special Edition
enwood KA-5020 230 Int N 80 MM,3L,2T Y N 44 wide "Pure Signal" ground line enwood KA-V3700 300 Int Y 100 MM,4L,2T Y Y 44 wide Dolby Pro Logic enwood KA-5050R 350 Int N 95 MM,3L,2T Y Y 44 wide System control enwood KA-7050R 500 Int N 100 MM,3L,2T Y Y 44 wide System control enwood KA-70700 600 Int Y 45 MM,11L,1T Y Y 44 wide Pro Logic, learning remote rell KSL-2 3331 Pre N - 4L,1T N N 48,7,36 Opt. MM/MC stage rell KSA-50s 3690 Pwr - 50 48,22,40 Sustained Plateau Bias rell KRC-2s 4190 Pre N - 6L,1T N Y 48,7,36 Opt. MM/MC stage	opwood KV 30C0D	230	Int	N	45	MM,3L,2T	Y	Y	44 wide	
enwood KA-V3700         300         Int         Y         100         MM,4L,2T         Y         Y         44 wide         Dolby Pro Logic           enwood KA-5050R         350         Int         N         95         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-7050R         500         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-70700         600         Int         Y         45         MM,11L,1T         Y         Y         44 wide         Pro Logic, learning remote           rell KSL-2         3331         Pre         N         -         4L,1T         N         N         48,7,36         Opt. MM/MC stage           rell KRC-2s         4190         Pre         N         -         6L,1T         N         Y         48,7,36         Opt MM/MC stage	ELIMONO KA-SOOOU		Total Control of the last	200	The second second			_		
enwood KA-5050R         350         Int         N         95         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-7050R         500         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-V7700         600         Int         Y         45         MM,11L,1T         Y         Y         44 wide         System control           erell KSL-2         3331         Pre         N         -         4L,1T         N         N         48,7,36         Opt. MM/MC stage           erell KSC-2s         4190         Pre         N         -         6L,1T         N         Y         48,7,36         Opt MM/MC stage					-					
enwood KA-7050R         500         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-V7700         600         Int         Y         45         MM,11L,1T         Y         Y         44 wide         Pro Logic, learning remote           rell KSL-2         3331         Pre         N         -         4L,1T         N         N         48,7,36         Opt. MM/MC stage           rell KSA-50s         3690         Pwr         -         50         -         -         -         48,22,40         Sustained Plateau Bias           rell KRC-2s         4190         Pre         N         -         6L,1T         N         Y         48,7,36         Opt MM/MC stage	enwood KA-5020	_					-	CONTRACTOR OF THE PERSON		
enwood KA-7050R         500         Int         N         100         MM,3L,2T         Y         Y         44 wide         System control           enwood KA-V7700         600         Int         Y         45         MM,11L,1T         Y         Y         44 wide         Pro Logic, learning remote           rell KSL-2         3331         Pre         N         -         4L,1T         N         N         48,7,36         Opt. MM/MC stage           rell KSA-50s         3690         Pwr         -         50         -         -         -         48,22,40         Sustained Plateau Bias           rell KRC-2s         4190         Pre         N         -         6L,1T         N         Y         48,7,36         Opt MM/MC stage	enwood KA-5020 enwood KA-V3700	350	Int	N	95	MM,3L,2T		OLD COLUMN TO SERVICE STATE OF THE PERSON STAT	44 wide	System control
enwood KA-V7700 600 Int Y 45 MM,11L,1T Y Y 44 wide Pro Logic, learning remote rell KSL-2 3331 Pre N - 4L,1T N N 48,7,36 Opt. MM/MC stage rell KSA-50s 3690 Pwr - 50 48,22,40 Sustained Plateau Bias rell KRC-2s 4190 Pre N - 6L,1T N Y 48,7,36 Opt MM/MC stage	enwood KA-5020 enwood KA-V3700		Int	N	100		Y	Υ	44 wide	
rell KSL-2 3331 Pre N - 4L,1T N N 48,7,36 Opt. MM/MC stage rell KSA-50s 3690 Pwr - 50 48,22,40 Sustained Plateau Bias rell KRC-2s 4190 Pre N - 6L,1T N Y 48,7,36 Opt MM/MC stage	enwood KA-5020 enwood KA-V3700 enwood KA-5050R	500						CONTRACTOR STATE		
rell KSA-50s 3690 Pwr - 50 48,22,40 Sustained Plateau Bias rell KRC-2s 4190 Pre N - 6L,1T N Y 48,7,36 Opt MM/MC stage	enwood KA-5020 enwood KA-V3700 enwood KA-5050R enwood KA-7050R				70			100000000000000000000000000000000000000		
rell KRC-2s 4190 Pre N - 6L,1T N Y 48,7,36 Opt MM/MC stage	enwood KA-5020 enwood KA-V3700 enwood KA-5050R enwood KA-7050R enwood KA-V7700	600	-			A I	N	N	48,7,36	upt. MM/MC stage
rell KRC-2s 4190 Pre N - 6L,1T N Y 48,7,36 Opt MM/MC stage	enwood KA-5020 enwood KA-V3700 enwood KA-5050R enwood KA-7050R enwood KA-77700 rell KSL-2	600 3331	Pre	N	-	70,11		-		
	denwood KA-5020 denwood KA-V3700 denwood KA-5050R denwood KA-7050R denwood KA-V7700 rell KSL-2	600 3331	Pre	N -	50	-	-	-		Sustained Plateau Bias
TO ZEE TO OUSTAINED I INCENTION	enwood KA-5020 enwood KA-V3700 enwood KA-5050R enwood KA-7050R enwood KA-V7700 rell KSL-2 rell KSA-50s	600 3331 3690	Pre Pwr		50 -	-15.00	-	- Y	48,22,40	
	enwood KA-5020 enwood KA-V3700 enwood KA-5050R enwood KA-7050R enwood KA-7050R enwood KA-V7700 rell KSL-2 rell KSA-50s rell KRC-2s	600 3331 3690 4190	Pre Pwr Pre	- N	-38	-15.00	-	- Y	48,22,40 48,7,36	Opt MM/MC stage

# **V'AUDIO**

36 Druid Hill Stoke Bishop Bristol BS9 1EJ Telephone: 0272 686005

#### Hi-Fi Consultants

#### BRITISH HI-FI IS THE BEST IN THE WORLD



It is a little known fact that although the Japanese send millions of pounds worth of hi-fi to the UK, the Japanese, and the Eastern countries, in general, look upon British and American hi-fi as being the best!

Specialist British hi-fi companies would probably not survive if it were not for exports, and only had to rely on the UK market.

Two of the most successful companies are ATC and AVI, both located in Stroud. The smallest speaker that ATC produce, the SCM10, was voted 'Best Small Loudspeaker of the Year' in Audiovisual Magazine; 'Best Audiovisual Loudspeaker of the Year' in Hi-Fi Magazine and 'Component of the Year' in Stereo Sound Magazine. All three magazines are Japanese. Nearly all Hollywood and UK films with orchestral scores are monitored on ATC systems. Top recording artists using ATC



equipment include Mike Oldfield, Peter Gabriel, Paul McCartney, Tina Turner and Pink Floyd.
So stop buying all that Japanese equipment and come and listen to the best of British at V'Audio and hear what you are missing.



All right, ATC equipment is not cheap, but it is good value and AVI amplification, tuner and CD players are absolute steals!

But we offer systems at most prices. For example, we do a CD-based system, consisting of AMC CD player, Jupiter amp (made in Bath) and a pair of Ruark Templar speakers for £1,200 including cables and, if that's too much, we regularly have good



quality second hand equipment to save you money.

We have the Ruark range of speakers from £300 to £2,500, the Heybrook range (from Plymouth) from £130 to £1,100. We even have Triangle speakers from France, Jamo sub-woofers from Denmark, plus Rel sub-woofers from Wales. We have amps from AVI, Heybrook, Sugden, Audio Innovations (valve), Cadence (valve), Chord, Electrcompaniet (Norway) and Exposure.

We don't have shelves full of CD players, but we do have the best sounding, plus transports, dac's and turntables (including SME20A).



We are above all else enthusiasts with thirty years in hi-fi AND music and offer a PERSONAL service in your own home if required, that few shops we know can equal. We work from home and can devote more time to each customer. So, for independent advice, with no obligation, why not ring us for a chat and then come and open your ears.



We can also blow your mind with audiovisual/home cinema . . .



Key to amplifiers
Price - typical retail, to nearest
pound.
Power - output power in watts, per
channel. - 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 for full test results.



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.

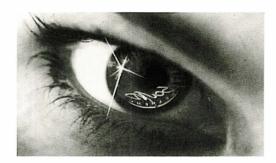
Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory for full test results.

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Model	Price	Туре	AV	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS									
Krell KRCs	6949	Pre	N	-	6L,1T	N	Υ	48,7,36	Opt MM/MC stage
Krell KSA-200s	7987	Pwr	N	200	-	-	-	48,22,54	Sustained Plateau Bias
Krell KSA-300s	9500	Pwr	N	300	-	-	-	48,22,62	Sustained Plateau Bias
Krell K.A.S. 2	18804	Pwr	N	200	-	N	N	-	2x mono
Krell K.A.S.	29500	Pwr	N	350	-	-	-	48,34,64	Monoblocks
Lecson 380X	255	Int	N	35	MM/MC,6L	N	N	44,6,27	
Lecson Stereo 383X	295	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 LFD Phonostage MMO	655	Int	N	50	MM/MC + N/A	N	N	44,6,27	Separate PSU
LFD Integrated Zero	399 499	Pre Int	N	50	MM, MC 5L,1T	N	N	30,6,37	Switchable MM/MC
LFD Linestage LSO	499	Pre	N	50	5L,1T	N	N	30,6,37	Hand made, custom parts
LFD Powerstage PA0	499	Pwr	N	50	JL,11	N	N	30,6,37	Zero feedback Stereo MOSFET
LFD Int. Zero (Ph)	679	int	N	50	MM/MC,5L,1T	N	N	30,6,37	Phono version of Int. Zero
LFD Int. Zero LE	799	Int	N	60	5L,1T	N	N	43,7,33	THORIO VELSION OF THE ZELO
LFD MC1 Phonostage	949	Pre	N	-	MC	N	N	30,7,36	Discrete circuit
LFD LS1 Linestage	999	Pre	N	-	4L.1T	N	N	48,7,33	Zero feedback
LFD PA1 Powerstage	999	Pwr	N	60	-	N	N	48,7,33	MOSFETs, custom parts
LFD PPS	999	Pre	N	-	2L,1T	N	N	13,6,27	Switched attenuator, passive
LFD Integrated 1	1099	Int	N	65	MM/MC,4L,1T	N	N	48,7,37	More powerful Int Zero
LFD Phonostage MC2	1499	Pre	N	-	MC	N	N	30,7,36	Hand tuned MC1
LFD Linestage LS2	1599	Pre	N	-	4L,1T	N	N	48,7,37	Hand tuned LS1
LFD Powerstage PA2	1599	Pwr	N	75	400000000	N	N	48,7,33	Hand tuned PA1
LFD Linestage LS2P	1750	Pre	N	-	MM/MC,4L,1T	N	N	48,7,37	As LS2 with phono stage
LFD Linestage LSB	1999	Pre	N	-	4L,1T	N	N	48,7,37	Balanced LS2
LFD Powerstage PA2M	1999	Pwr	N	90	4.00	N	N	30,7,37	Mono PA2
LFD Disc Preamp	4499	Pre	N	-	MC	N	N	30,5.36	Battery powered
Linn Majik-1 (Line)	524	Int	N	33	4L,2T	Y	N	32,8,33	Works as pre/int multi room
Linn LK100	549	Pwr	-	50	-	-	-	32,8,33	Stereo
Linn Majik-1 (Phono)	593	Int	N	33	MM,MC,3L,2T	Υ	N	32,8,33	As line Majik
Linn Kairn Pro	998	Pre	N	-	4L, 2T	N	N	32,8,33	Multi-room compatible
Linn Kairn Preamp	1398	Pre	N	-	MM, MC 3L,2T	N	N	32,8,32	Multi-room compatible
Linn Klout	1895	Pwr	-	80	450000000000000000000000000000000000000	-		32,8,33	Stereo, tri-wire connectors
Lumley Reference PP70	325	Pre	N	-	6L,1T	-	N	36,46,6	Passive, bolts to ST70
Lumley Reference PP40	325	Pre	N	-	6L,1T	-	N	29,40,6	Bolts to ST40
Lumley Reference PP1	325	Pre	N	-	6L,1T	-	-	29,44,6	Passive, stand alone
Lumley Reference LV1	1000	Pre	N	-	6L,1T	N	N	29,44,6	Active valve circuit
Lumley Reference ST40	1250	Pwr	N	40	30,40,17	N	N	*	Pentode
Lumley Reference PV1	1500	Pre	N	-	MM,5L,1T	N	N	H	Phono version of LV1
Lumley Reference ST70	1950	Pwr	N	70	-	N	N	36,46,18	Switchable triode/pentode
Lumley Reference M120	3200	Pwr	N	120	Edward (Colored		-		2xmono, triode/pentode
Lumley Reference M500	12000	Pwr	N	-	F-10-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-	-	N	35,80,30	2xmono, triode/pentode
Luxman L570	3750	Int	N	50	MM/MC,4L,3T	N	N	44,18,47	Class A
Lynwood Opal	685	Int	N	80	7L,1T	N	N	-	
Lynwood Ruby	985	Pwr	-	120		-	-	-	
Magnum IA120	249	Int	N	50	MM,5L,2T	Υ	N	-	
Magnum Quartet	329	Int	N	36	MM,3L,2T	Υ	N		Manakiada
Magnum MF125 Magnum MF300	515 595	Pwr Pwr		140	-	-	250	-	Monoblocks
Magnum Class A	599	Int	N	60	MM/MC,3L,1T	N	N	-	Monoblocks
Magnum MA500		Pwr	14	280	IVIIVIVIO, 3L, 11	14	14		Monoblocks
Marantz PM-44SE	180	Int	N	45	MM,3L,2T	Y	N	42,14,28	Audiophile components
Marantz PM44SEII	200	Int	N	45	MM,3L,2T	Y	N	42,14,28	Audiophile components
Marantz PM-43	200	Int	N	55	MM,3L,2T	Y	N	42,14,20	
Marantz MA-500	250	Pwr	N	125	IVIIVI, JL, Z I	-	- 18	9,15,45	D-bus, monoblocks, bridgabl
Marantz PM-53	250	Int	N	65	MM,3L,2T	Y	Υ	42,14,30	5 500, monopiochs, priugabi
Marantz PM-63	300	Int	N	70	MM,3L,2T	Y	Y	42,14,30	
Marantz PM-54SE	329	Int	N	65	MM/MC,3L,2T	Y	N	42,14,30	Audiophile components
Marantz PM-700AV	450	Int	Υ	45	MM,5L,2T	Y	Y	42,16,34	Dolby Pro Logic
Marantz PM-80 II	480	Int	N	100	MM/MC,4L,2T	Υ	N	42,17,34	· · · · · · · · · · · · · · · · · · ·
Marantz PM-80SE	650	Int	N	110	MM/MC,3L,3T	Υ	N	42,17,34	Audiophile components
Marantz AV-500	699	Pre	Υ	- 1	MM,7L,2T	N	Υ	42,10,34	Dolby Pro Logic
Mark Levinson No 25	2950	Pre	N	-	MM,3L,2T	N	N	-	
Mark Levinson 29	3450	Pwr		50		-		-	
Mark Levinson 27.5	5399	Pwr	-	100		-		-	
Mark Levinson No 26	5450	Pre	N	-	MM,3L,2T	N	N	-	
Mark Levinson 23.5	7399	Pwr	-	200	* I.N	-	-	-	
Mark Levinson 20.6	15790	Pwr	-	100			-		Monoblocks, Class A
Matisse Fantasy	2300	Pre	Υ	-	6L,2T	N	N	180	Line stage
				-	MM/MC,5L,2T	N	N		
Matisse Reference	3500	Pre	Y	400	IVIIVI/IVIO,OL,Z1		200000		
McIntosh MC7100/2	3500 1095	Pwr	N	100		-	-	-	
McIntosh MC7100/2 McIntosh C712	3500 1095 1295	Pwr Pre	N N	100	- 6L, 2T	- Y	- Y	-	M. D.
McIntosh MC7100/2 McIntosh C712 McIntosh C38	3500 1095 1295 2095	Pwr Pre Pre	N N	-		Υ	Υ	-	Multi-room, balanced out
McIntosh MC7100/2 McIntosh C712 McIntosh C38 McIntosh MC7150	3500 1095 1295 2095 2295	Pwr Pre Pre Pwr	N N N	100	- 6L, 2T MM, 5L,3T -	Y	Y	-	
McIntosh MC7100/2 McIntosh C712 McIntosh C38 McIntosh MC7150 McIntosh C39	3500 1095 1295 2095 2295 2795	Pwr Pre Pre Pwr Pre	N N N N	-	- 6L, 2T MM, 5L,3T - MM, 10L (6 Vid)	Y N Y	Y N Y	(a)	Two zone, THX compatable
McIntosh MC7100/2 McIntosh C712 McIntosh C38 McIntosh MC7150 McIntosh C39 McIntosh C40	3500 1095 1295 2095 2295 2795 2795	Pwr Pre Pre Pwr Pre Pre	N N N N	- 150 -	- 6L, 2T MM, 5L,3T -	Y N Y	Y N Y	•	Two zone, THX compatable Balanced in/out
McIntosh MC7100/2 McIntosh C712 McIntosh C38 McIntosh MC7150 McIntosh C39 McIntosh C40 McIntosh MC7106	3500 1095 1295 2095 2295 2795 2795 2995	Pwr Pre Pre Pwr Pre Pre Pwr	N N N N Y	- - 150 - - 100	- 6L, 2T MM, 5L,3T - MM, 10L (6 Vid)	Y N Y Y	Y N Y N	-	Two zone, THX compatable
McIntosh MC7100/2 McIntosh C712 McIntosh C38 McIntosh MC7150 McIntosh C39 McIntosh C40 McIntosh MC7106 McIntosh MC7106 McIntosh MC7300	3500 1095 1295 2095 2295 2795 2795 2995 3195	Pwr Pre Pre Pwr Pre Pre Pwr Pwr	N N N N Y N Y	- 150 - - 100 300	- 6L, 2T MM, 5L,3T - MM, 10L (6 Vid)	Y N Y Y N	Y N Y N N	* * * * * * * * * * * * * * * * * * *	Two zone, THX compatable Balanced in/out Six channel THX amp
McIntosh MC7100/2 McIntosh C712 McIntosh C712 McIntosh C38 McIntosh MC7150 McIntosh C39 McIntosh C40 McIntosh C40 McIntosh MC7106 McIntosh MC7300 McIntosh MC750	3500 1095 1295 2095 2295 2795 2795 2995 3195 3595	Pwr Pre Pre Pwr Pre Pwr Pwr Pwr	N N N Y N Y N	- 150 - - 100 300 75	- 6L, 2T MM, 5L,3T - MM, 10L (6 Vid)	Y N Y Y N N	Y N Y N N		Two zone, THX compatable Balanced in/out
McIntosh MC7100/2 McIntosh C712 McIntosh C712 McIntosh C38 McIntosh MC7150 McIntosh C39 McIntosh C40 McIntosh MC7106 McIntosh MC7106 McIntosh MC7300 McIntosh MC7300 McIntosh MC275 McIntosh MC2600	3500 1095 1295 2095 2295 2795 2795 2995 3195 3595 5395	Pwr Pre Pwr Pre Pre Pre Pwr Pwr Pwr	N N N N N N N N N N N N N N N N N N N	- 150 - - 100 300 75 600	- 6L, 2T MM, 5L,3T - MM, 10L (6 Vid)	Y N Y Y N N N	Y N Y N N N	* * * * * * * * * * * * * * * * * * *	Two zone, THX compatable Balanced in/out Six channel THX amp
McIntosh MC7100/2 McIntosh C712 McIntosh C712 McIntosh C38 McIntosh C39 McIntosh C40 McIntosh MC7106 McIntosh MC7106 McIntosh MC7106 McIntosh MC7300 McIntosh MC275 McIntosh MC2600 McIntosh MC2600 McIntosh MC1000	3500 1095 1295 2095 2295 2795 2795 2995 3195 3595 5395 9595	Pwr Pre Pwr Pre Pwr Pwr Pwr Pwr Pwr	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	- 150 - - 100 300 75	- 6L, 2T MM, 5L,3T - MM, 10L (6 Vid) MM, 6L, 3T	Y N Y N N N N N	Y N Y N N N N		Two zone, THX compatable Balanced in/out Six channel THX amp Classic valve amp
McIntosh MC7100/2 McIntosh C712 McIntosh C38 McIntosh MC7150 McIntosh C39 McIntosh C40 McIntosh C40 McIntosh MC7106 McIntosh MC7106 McIntosh MC7000 McIntosh MC275 McIntosh MC2600 McIntosh MC2600 McIntosh MC1000 McIntosh MC1000 McIntosh MC1000 McIntosh MC1000 McIntosh MC1000 McIntosh MC1000	3500 1095 1295 2095 2295 2795 2795 2995 3195 3595 5395 9595 595	Pwr Pre Pre Pre Pre Pwr Pwr Pwr Pwr Pwr Pre Pre	N N N N N N N N N N N N N N N N N N N	- 150 - 100 300 75 600 100	- 6L, 2T MM, 5L,3T - MM, 10L (6 Vid)	Y N Y Y N N N N N N Y	Y N Y N N N N N	- - - - - - - - 33,9,34	Two zone, THX compatable Balanced in/out Six channel THX amp Classic valve amp Monoblocks MC option, system handset
McIntosh MC7100/2 McIntosh C712 McIntosh C712 McIntosh C38 McIntosh MC7150 McIntosh C39 McIntosh C40 McIntosh C40 McIntosh MC7106 McIntosh MC700 McIntosh MC7300 McIntosh MC255 McIntosh MC2600 McIntosh MC1000 Meridian 501 Meridian 555	3500 1095 1295 2095 2295 2795 2795 2995 3195 3595 5395 9595 595	Pwr Pre Pre Pre Pre Pwr Pwr Pwr Pwr Pwr Pwr Pwr Pwr Pre Pwr	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	- 150 - - 100 300 75 600	- 6L, 2T MM, 5L, 3T - MM, 10L (6 Vid) MM, 6L, 3T 	Y N Y Y N N N N N	Y N Y N N N N N N	- - - - - - - - 33,9,34 33,9,32	Two zone, THX compatable Balanced in/out Six channel THX amp Classic valve amp Monoblocks MC option, system handset Stereo
McIntosh MC7100/2 McIntosh C712 McIntosh C38 McIntosh MC7150 McIntosh C39 McIntosh C40 McIntosh C40 McIntosh MC7106 McIntosh MC7106 McIntosh MC7000 McIntosh MC275 McIntosh MC2600 McIntosh MC2600 McIntosh MC1000 McIntosh MC1000 McIntosh MC1000 McIntosh MC1000 McIntosh MC1000 McIntosh MC1000	3500 1095 1295 2095 2795 2795 2795 3195 3595 5395 9595 595 595 625	Pwr Pre Pre Pre Pre Pwr Pwr Pwr Pwr Pwr Pre Pre	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	- 150 - 100 300 75 600 100	- 6L, 2T MM, 5L, 3T - MM, 10L (6 Vid) MM, 6L, 3T 	Y N Y Y N N N N N N Y	Y N Y N N N N N	- - - - - - - - 33,9,34 33,9,32 33,9,34	Two zone, THX compatable Balanced in/out Six channel THX amp  Classic valve amp  Monoblocks MC option, system handset Stereo Digital main out. MC option
McIntosh MC7100/2 McIntosh C712 McIntosh C712 McIntosh C38 McIntosh MC7150 McIntosh C39 McIntosh C40 McIntosh C7106 McIntosh MC7106 McIntosh MC7300 McIntosh MC7300 McIntosh MC2600 McIntosh MC1000 McIntosh MC2600 MCIntosh M	3500 1095 1295 2095 2795 2795 2795 3195 3595 5395 595 595 625 695	Pwr Pre Pwr Pre Pwr Pwr Pwr Pwr Pwr Pwr Pre Pre Pre Pre Pre Pre Pre Pre	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	- - 150 - - 100 300 75 600 100 - 60	- 6L, 2T MM, 5L, 3T - MM, 10L (6 Vid) MM, 6L, 3T 	Y N Y Y N N N N N	Y N Y N N N N N N	- - - - - - - - 33,9,34 33,9,32	Two zone, THX compatable Balanced in/out Six channel THX amp Classic valve amp Monoblocks MC option, system handset Stereo
McIntosh MC7100/2 McIntosh C712 McIntosh C712 McIntosh C38 McIntosh C39 McIntosh C40 McIntosh C40 McIntosh MC7106 McIntosh MC7106 McIntosh MC7300 McIntosh MC275 McIntosh MC2600 McIntosh MC1000 McIntosh MC1000 McRidian 501 Meridian 555 Meridian 552 Meridian 562 Meridian 562	3500 1095 1295 2095 2795 2795 2795 3195 3595 5395 595 595 625 695 745	Pwr Pre Pre Pwr Pre Pwr Pwr Pwr Pwr Pwr Pre Pire Pire Pire Pre Pre Pre Pre Pre Pre Pre Pre Pre P	N N N N N N N N N N N N N N N N N N N	- - 150 - - 100 300 75 600 100 - 60	- 6L, 2T MM, 5L, 3T - MM, 10L (6 Vid) MM, 6L, 3T 	Y N Y N N N N N N N	Y N N N N N N N N		Two zone, THX compatable Balanced in/out Six channel THX amp  Classic valve amp  Monoblocks MC option, system handset Stereo Digital main out. MC option MC option

Model	Price	Туре	AV	Power	Inputs	eadphones	Remote	Size	Special
AMPLIFIERS									
Metaxas Ikarus II	1350	Int	N	40	MM/MC,3L,1T	N	N	40,7,40	
Metaxas Charisma	1525	Pre	N	-	MM/MC,3L,2T	-	N	36,6,29	Separate PSU
Metaxas Iraklis	1625	Pwr	N	50	2	-	-	43,18,37	
			N	00	MM/MC,3L,2T	-	-		Congrate DCII
Metaxas Marquis	2250	Pre		-	MIN/MC,3L,21	1	N	29,7,45	Separate PSU
Metaxas Solitaire	2350	Pwr	N	130	-	-	-	52,19,42	
Metaxas Opulence	5500	Pre	N	-	MM/MC,3L,2T	-	N	39,7,45	Separate mains isolated P
Metaxas Soliloquy	5990	Pwr	N	100	- 1000	-	-	52,19,42	Pair monoblocks
Michell Iso	412	Pre	N	-	MM or MC	N	N	small	Phono stage
	_		N			N	N		
Michell Argo	715	Pre		-	3L,1T	-		33,7,19	2 pairs outputs
Michell Iso HR	879	Pre	N	-	MM or MC	N	N	small	Phono stage
Michell Alecto Stereo	1150	Pwr	N	50	-00 to 200	N	N	32,20,36	
Michell Argo HR	1339	Pre	N	-	3L,1T	N	N	36,8,22	2 pairs outputs
Michell Alecto Mono	1989	Pwr	N	100	02,11	N	N	32,20,36	E pano outputo
	_	Name and Address of the Owner, where		100	-	14	_		n .
Michi RHC-10	795	Pre	N	-	5L	-	-	47,8,34	Passive
Michi RHB-05	995	Pwr	N	100	and the second second	-	-	47,8,36	
Michi RHQ-10	995	Pre	N	-	MM,MC	-	-	47,8,34	Phono equaliser
Michi RHA-10	995	Pre	N	-	5L	-	Υ	47,8,34	Active
			N	200	l or		-		Activo
Michi RHB-10	1650	Pwr		200	01.47	-		47,19,37	Landard Literature
Minstrel Ultra Linear	899	INT	N	30	3L,1T	N	N	-	Low feedback hybrid
Mission PSX-R	300	-	N	-		N	N	22,8,36	Outboard PSU
Mission Cyrus III	500	Int	N	50	MM,5L,1T	Υ	N	22,8,36	PSX-R outboard PSU optio
Monrio ADN	595	Pre	N	-	MM/MC	N	N	-	Phono preamp
Monrio Primus	895		N		6L,1T	N	N	-	
		Pre	IV	000	OL, 11	IN			Line only preamp
Monrio MC-25	995	Pwr	-	80	-	-	-	14	Dual mono construction
Monrio Cento	1495	Pwr	N	135		1-	-	-	Dual mono construction
Monrio MC-205	1595	Int	N	80	6L,1T	N	N	-	Inc pre-out sockets
Moth 30 Passive	149	Pre	N	-	4L,1T	N	N	5,10,35	
			N			N	N		
Moth 30 RIAA	199	Pre	IV	-	MM/MC,	IN		5,10,35	
Moth 30 Series Power	239	Pwr	-	30	-	-	-	5,10,35	
Moth 30 Active	249	Pre	N	-	4L,1T	N	N	5,10,35	
Moth 30 RIAA 100VA	299	Pre	N	-	MM/MC	N	N	5,10,35	
Moth 30 Integrated	320	Int	N	30	8L,T	N	N	8,18,35	
			N	00		N	N		
Moth 30 Active 100VA	349	Pre	14	100	4L,1T	IN		5,10,35	0
Moth 30 Mono/40	459	Pwr	-	40	******	-	-	5,10,35	2x monoblocks
Moth 30 Stereo/60	549	Pwr	1-	60	-	-	-	5,15,35	2x monoblocks
Moth 30 Mono/100	879	Pwr	-	100		-	-	5,15,35	2x mono, separate PSU
Mus-Fid A1 Final Edition	399	Int	N	40	MM/MC,3L,1T	N	N	41,6,25	Separate PSU, limited edit
				70					
Musical Fidelity E200	599	Pre	N	-	5L,2T	Υ	Υ	44,12,35	Optional phono/DAC modu
Musical Fidelity E100	599	Int	N	70	MM,4L,1T	Υ	Y	44,12,35	Pre/power removable link
Musical Fidelity E300	699	Pwr	N	100	-	-	-	44,12,35	Mono/stereo switch
Musical Fidelity F22	999	Pre	N	-	5L,1T	N	Υ	49,12,33	Optional phono/digital boa
Musical Fidelity FX	1099	Pwr	N	90		N	N		Ball/unbalanced in
	_	-			MANAGED OF AT	District Control			
Musical Fidelity A1000	1399	Int	N	50	MM/MC,3L,1T	N	N	49,13,36	
Musical Fidelity F15	1899	Pwr	N	100	4 1 (d FT-1)	-	-	49,19,38	Bal/unbalanced in/hybrid
Musical Fidelity F18	3999	Pwr	N	220	-534 (6.2)	-	÷	49,19,67	Bal/unbalanced in/hybrid
NAD 302	169	Int	N	25	MM,3L,2T	Υ	N	121	
NAD Monitor 1000	199	Pre	N	-	MM/MC,3L,2T	Y	N	-	
NAD 304	229	Int	N	35		Y	N		
			-		MM,4L,2T	-			
NAD Monitor 2100	299	Pwr	-	60	7	-	-	-	
NAD Monitor 1000S	319	Pre	N	-	MM/MC,3L,2T	Y	N	50	
VAD 306	329	Int	N	50	MM,4L,2T	Υ	N	-	
NAD Monitor 2700		MANAGEMENT OF THE PARTY OF THE		Sand State Comment	- American				THY approved
	459			150				-	THX approved
NAD Monitor 208		Pwr	-	250	*	-	-	-	THX approved
Naim NAP90/3	375	Pwr	-	30	-	-	-	32,56,30	Latest style. Suits 92
Naim NAC92	405	Pre	N	-	5 (L or T)	N	N	44,56,30	Latest style. Suits 90/3
Naim NAC72	622	Pre	N		2MM/MC, L,2T	N	N		Ugradable with PSU, MC I/
		-	14	45	ENTERING, LIZI	-	14		ogradable with roo, MC I/
Naim NAP140		Pwr						21,76,30	
Naim NAP180	898	Pwr	-	60	-	-	-	43,76,30	
Naim NAP135	1424	Pwr	-	70	-	-	-	43,76,30	
Naim NAP250	1424	Pwr	-	70	\$450 July 180 A	-	-	43,76,30	
Naim NAC82	1880	Pre	N	-	6 (L or T)	N	Υ	43,76,30	
Vaim NAC52		Name and Address of the Owner, where the Owner, which is	N		6 (see note)	N	Y		Ontional phone board
	4741	Pre		40			NAME AND ADDRESS OF	43,76,30	Optional phono board
Nakamichi IA3		Int	N	40	3L,2T	N	N	43,7,32	
Nakamichi IA2		Int	N	50	MM/MC,3L,2T	Y	Y	43,12,36	
Nakamichi IA1	750	Int	N	80	MM/MC,3L,2T	Υ	Y	43,12,36	
VVA P-50		Pre	N	-	3L,1T	N	N	\$ 14	
VVA AP-30		Int	N	50	MM/MC,3L,1T	N	N		
		DOMESTIC STATE	_				-		
VVA AP-30CD		Int	N	80	3L,1T	N	N	-	
VVA P-90		Pre	N		5L.	N	N	-	
NVA Control Tube	470	PRE	N	-	5L,1T	N	N	-	
VA A70		Pwr	-	70	-	-		-	Mono
VA A60		Pwr		60					
		COMPANDED IN	N	THE PERSONNEL PROPERTY.	SI 1T		NI		
		Int	N	60	5L,1T	N	N	-	
NVA AP-35CD		Int	N	60	MM/MC,5L,1T	N	N	-	
NVA AP-35CD	000	<b>PWR</b>	-	60	- 8000 1000	-	-	-	
IVA AP-35CD IVA AP-35	620	INT	N	60	5L,1T	N	N		
IVA AP-35CD IVA AP-35 IVA Power Tube			14	THE PERSON NAMED IN	UL, I I	14	14		Mono
IVA AP-35CD IVA AP-35 IVA Power Tube IVA The Tube	620	- COMMON CONTRACTOR		70				- V	Mono
IVA AP-35CD IVA AP-35 IVA Power Tube IVA The Tube IVA A80	620 730	Pwr		Section Sections		N	N	100	
IVA AP-35CD IVA AP-35 IVA Power Tube IVA The Tube IVA A80 IVA TSS (Pre)	620 730	- COMMON CONTRACTOR	N	-	5L,1T				
IVA AP-35CD IVA AP-35 IVA Power Tube IVA The Tube IVA A80 IVA TSS (Pre)	620 730 1000	Pwr	N N	- 60	5L,1T 5L,1T	N	N		
IVA AP-35CD IVA AP-35 IVA Power Tube IVA The Tube IVA A80 IVA TSS (Pre) IVA TIS	730 1000 1300	Pwr Pre Int	N	CHARLES STREET	5L,1T	N	N	-	
IVA AP-35CD IVA AP-35 IVA Power Tube IVA The Tube IVA ABO IVA TSS (Pre) IVA TSS	730 1000 1300 2300	Pwr Pre Int Int		70			-	-	Mono
IVA AP-35CD IVA AP-35 IVA Power Tube IVA Power Tube IVA The Tube IVA A80 IVA TSS (Pre) IVA TIS IVA TIS IVA TIS	730 1000 1300 2300 3200	Pwr Pre Int Int Pwr	N	70 70	5L,1T	N	N	-	Mono
IVA AP-35CD IVA AP-35 IVA Power Tube IVA The Tube IVA ABO IVA TSS (Pre) IVA TIS IVA TCS IVA TC	620 730 1000 1300 2300 3200 3700	Pwr Pre Int Int Pwr Pwr	N	70 70 70	5L,1T	N	N	- - -	
IVA AP-35CD IVA AP-35 IVA Power Tube IVA The Tube IVA ABO IVA TSS (Pre) IVA TIS IVA TCS IVA TC	620 730 1000 1300 2300 3200 3700	Pwr Pre Int Int Pwr	N	70 70	5L,1T	N N - -	N	-	Mono 1x Monoblock
WA AP-35CD WA AP-35 WA Power Tube WA The Tube WA The Tube WA TSS (Pre) WA TSS (Pre) WA TIS WA TCS WA TSS WA TCS WA TSS WA TSS WA TSS WA TSS	620 730 1000 1300 2300 3200 3700 5800	Pwr Pre Int Int Pwr Pwr	N	70 70 70	5L,1T	N	N	-	
IVA AP-35CD IVA AP-35 IVA Power Tube IVA The Tube IVA ABO IVA TSS (Pre) IVA TIS IVA TCS IVA TCS IVA TCS IVA TSS	620 730 1000 1300 2300 3200 3700 5800 300	Pwr Pre Int Int Pwr Pwr Pwr Int	N N - - N	70 70 70 80	5L,1T 5L,1T - - 5L,1T	N N Y	N N - - N	- - - - 43,77,33	1x Monoblock
WVA AP-35CD WVA AP-35 WA Power Tube WVA The Tube WVA ABO WVA ABO WVA ABO WVA TSS (Pre) WVA TIS WVA TCS WVA TCS WVA TDS WVA TDS WVA TSS (Power) WVA TUS Dnix OA30 Dnix OA324 Listings marked in red	620 730 1000 1300 2300 3200 3700 5800 300 400	Pwr Pre Int Int Pwr Pwr Pwr Int Pre	N	70 70 70 80 40	5L,1T 5L,1T - - 5L,1T MM/MC,2L,2T	N N - - - Y	N N N N N	- - - - 43,77,33 75,23,37	



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> LASER DISC AND PLAYERS



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 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 for full test results.

					Sec. 1982	=		1	
Model	Price	Туре	NA NA	Power	Inputs	leadphones	Remote	Size	Special
AMPLIFIERS									
Onix OA401	400	Pwr	-	50	Mark Control	-		75,23,37	With internal supply for OA24
Onix OA21S	430	Int	N	50	MM/MC,3L,1T	N	N	75,23,37	
Onix OA31	480	Int	N	60	MM/MC,4L,1T	Υ	N	43,77,33	
Onix OA601	699	Pwr	-	70		-			Regulated PSU
Onix OA801	849	Pwr		190		-		75,46,36	2x monoblocks, massive PSL
Onkyo A801	200	Int	N	40	MM,3L,2T	Y	N	46,12,33	ZX IIIOIIODIOCKS, IIIdoSIVC I OC
Onkyo A803		Int	N	60		Y	Y		
	260	AND DESCRIPTION OF THE PERSON NAMED IN	N	-	MM/MC,3L,2T	Y	Y	46,12,33	Mini component Ashm ratio
Onkyo A-911	350	Int		70	MM,3L,2T		-	28,12,33	Mini component, 4ohm rating
Onkyo A850	370	Int	N	60	MM/MC,3L,2T	Y	Y	46,15,35	
Orelle SC-200	400	Pre	N	-	6L,1T	N	N	44,7,28	MM/MC option
Orelle SP-150	499	Pwr	-	75	-	-	-	44,7,28	MOSFET, vdH wiring
Papworth PPA6	0	Pre	N	-	6L	N	N	25,13,33	
Papworth PPA6/P	0	Pre	N	-	MM,MC,6L	N	N	25,13,33	Bi-mono valve
Papworth TVA50	1425	Pwr	N	50	-1	N	N	43,19,33	Tube stereo
Papworth M100	2645	Pwr	N	100	-	N	N	25,17,38	Tube monoblock
Papworth M200	3825	Pwr	N	200		N	N	46,20,31	Tube monoblock
Philips FA930	200	Int	N	65	MM.2L,3T	Υ	Υ	44,14.30	
Pioneer A-103	130	Int	N	30	MM,3L,2T	Υ	N	42,11,31	
Pioneer A-203	150	Int	N	45	MM,3L,2T	Υ	N	42,11,31	
Pioneer A-303R	200	Int	N	45	MM,3L,2T	Υ	Y	42,13,36	
Pioneer A-300X	230	Int	N	40	MM,3L,2T	N	N	42,13,36	
Pioneer A-400	280	Int	N	60	MM/MC,3L,2T	Y	N	42,13,36	-
Pioneer A-400X	300	Int	N	50	MM/MC4,2	Y	N	42,13,36	
			N	-		Y	_		
Pioneer A 503R	300	Int		70	MM,3L,2T	-	Y	42,13,36	
Pioneer A-602	350	Int	N	80	MM/MC,3L,3T	Y	N	42,17,44	Dalla Day Landa
Pioneer VSA-701S	500	Int	Y	55	MM.2L,2T,5V	Y	Υ	42,17,42	
Pioneer VSA-D802S	600	Int	Υ	55	MM.2L,2T,5V	Υ	Υ	42,17,42	Dolby Pro Logic, DSP
Pro-ject Model 7	259	Int	N	40	MM,3L,2T	N	N	-	
PS Audio 6.1	799	Pre	N	-	4L,1T	N	N	43,6,19	Outboard PSU
PS Audio Phono Link	799	Pre	N		MM/MC	N	N	43,6,19	Outboard PSU
PS Audio 5.6	1090	Pre	N	-	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	- 0.00	-	-	42,15,45	
PS Audio 200b Delta	2490	Pwr	-	200				42,15,45	
PS Audio 250 Delta	2980	Pwr		250	F-000 C-002 C-004		-	42,15,45	Monoblocks
QED Vector One	199	Pre	N	-	4L,1T	N	N	42,10,40	WIOTIODIOCKS
QED C-300CD	259	Pre	N		MM/MC,4L,1T	N	N	-	
	299	Pre	N	F. C.					
QED Vector Reference			-	-	4L,1T	N	N	-	
QED C-300PA	329	Pre	N	70	MM/MC,4L,1T	N	N	- 00 7 04	0:
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 77	595	INT	N	70	2L,T		-	33,6,30	System remote £279
Quad 606	690	Pwr	N	140	-	-	N	33,14,24	Stereo power amp
Quad 66	863	Pre	N	35	MM,4L,2T	N	Y	33,8,26	Variable inputs, inc R/C
Rega Brio	229	Int	N	30	MM,3L,1T	N	N	43,7,15	
Rega Elex	398	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	Full dual mono
Roksan ROK-L2	995	Pre	N	-	4L.1T	N	N	43,8,33	
Roksan ROK-S1	1495	Pwr	N	50	-	N	N	-	
Roksan ROK-L1	2250	Pre	N	-	4L,1T	N	N	43,8,33	
Roksan ROK-M1	4500	Pwr	N	120	48,11,34	N	N	10,0,00	Pair monoblocks
Rose RV-23	450	Pre	N	-	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
	550	Pwr	N	75	WIWI/WIC,ZL,ZT	IV	IV		
Rose RP-190 (Dual Mode)		_		10	31 2T	- Y	N	33,9,30	Low feedback monoblock (x2
Rotel RC970BX	150	Pre	N	-	3L,2T		N	44,8,29	
Rotel RA930AX	175	Int	N	30	MM,3L1T	Y	N	44,9,31	0
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	FATS SAME	-	-	44,12,33	
Rotel RC990BX	500	Pre	N	-	MM/MC,3L,2T	Υ	Υ	44,7,33	
Rotel RB990BX	750	Pwr	N	200	-	-	-	44,12,38	
Sansui AU-X117	170	Int	N	30	MM,3L,1T	Υ	N	-	
Sansui AU-X3172.	275	Int	N	40	MM,3L,1T	Υ	N	-	
Sansui AU-X417R	280	Int	N	45	MM,3L,2T	Y	N	-	
Sansui AU-X517R	450	Int	N	60	MM/MC,3L,2T	Y	Y		
Sansui AU-Alpha 607	1300	Int	N	90	MM/MC,2L,1T	Y	Y		
Sansui AU-Alpha707	1500	Int	N	90	MM/MC, 4L3T	Y	Y		Built in BS DAC
			N	30				5 10 00	
Sentec PP9 RIAA MM	500	Pre	-		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	-			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		- 1		4	Dual mono
Sherwood Al 2210	60	Int	N	30	MM,3L,1T	Y	N	-	
Sherwood Al 1110	100	Int	N	55	MM,4L,1T	Υ	N	-	
Sherwood Al 5010	170	Int	N	70	MM,3L,2T	Υ	N		
Sherwood AM/AVP8500	800		Y	230	-	Υ	Y		A/V Pre/power amp
	720	Pre	N	200	6L,2T	N	N	23,5,19	Passive preamp
Sirius Control Unit		Pre	N	200	UL, 21	NAME OF TAXABLE PARTY.			
Sirius Control Unit			IV	200		N	N	30,23,19	1x monoblock
Sirius 7B	2492		=		1444 O' 47	11			
Sirius 7B Sonic Link DM20	349	Int	N	25	MM,3L,1T	Υ	N	23,8,43	
Sirius 7B Sonic Link DM20 Sonic Link DM20 Gold	349 598	Int Int	N N	25 30	MM/MC,3L,1T	Υ	N	23,8,43 23,8,43	
Sirius 7B Sonic Link DM20 Sonic Link DM20 Gold Sonic Link DM30	349 598 725	Int Int Int	N N N	25 30 25	MM/MC,3L,1T MM/MC,3L,1T	Y N	N N	23,8,43 23,8,43 23,8,43	
Sirius 7B Sonic Link DM20 Sonic Link DM20 Gold	349 598 725 150	Int Int	N N	25 30	MM/MC,3L,1T	Υ	N	23,8,43 23,8,43 23,8,43 43,14,31	Source direct MOSFET power stage

				10				Headphones	B				
	Price	Туре	8	Power	inputs			hone	Remote	0.			
Model  AMPLIFIERS	ĕ	ĕ	2	9	ts			S	e	Size	Special		
Sony TAF444E	250	Int	N	50	MM	,3L,2T		Y	N	43,15,38			
Sony TAF542E	300	Int	N	90	NE CONTROL OF	/MC,3I	SERVICE AND ADDRESS OF THE PARTY OF THE PART	Y	N	43,15,38	UK optimised sound		
Sony TA-AV570B	400	Int	Υ	70		,4L,5T		Υ	N	43,15,36	Dolby Pro Logic		
Stemfoort Audio SF60	549	Int	N	60	4L,1	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	or commence	,3L,2T		Υ	N	44,13,36	Mic input		
Teac A-X3030	220	Int	N N	60 75	and the last of	,3L,2T /MC,3I	OT	Y	N	44,13,36 44,16,36	Mic input		
Teac A-X5030 Technics SU-VZ220	260 150	Int Int	N	40	N IMPORTAGE	,2L,1T	CONTRACTOR OF THE PARTY OF THE	Y	N	43,13,32	A/B speaker select		
Technics SU-VZ320	190	Int	N	50		/MM,3I		Y	Y	43,13,32	AVD Speaker Select		
Technics SU-A600	200	Int	N	40	-	MM,3I		Υ	N	43.13.32			
Technics SU-A700	250	Int	N	45		/MM,3l	COLUMN TOWNS	Υ	Υ	43,13,32			
Technics SU-A800	330	Int	N	55		/MM,3I		N	Υ	43,14,37			
Technics SU-A900II	400	Int	N	90	MC	/MM,3I	_,2T	N	Υ	43,14,37			
Technics SU-C2000	700	Pre	N	-	-			N	Υ	45,13,35			
Technics SE-A2000	1050	Pwr	-	100	-			-	Y	45,19,44	Meters, R-Core, MOS AA		
Tesserac TAADA	1500	Pre	N	-		/MC		N	N	-			
Tesserac TALA	1500	Pre	N	-	5L,1			N	N	-			
Tesserac TAHA	1800	Pre	N	-	MC,	-		Υ	N	-			
Tesserac TAP-A	5300	Pre	N	-	MM	,3L,2T		N	N	-			
Tesserac TAMP-60	7350	Pwr	-	60	40.5	(T		- N		-	2x Monoblocks		
Thule IA50	599	Int	N	50	4L,1			N	N	-	Fully balanced operation		
Thule IA100 Triangle TE60	899	Int	N N	100	4L,2			N Y	N	2	Fully balanced operation		
Triangle TE60SE	549 649	Int Int	N	70	5L,1	/MC,4I	1T	Y	N				
Triangle Nemo Allion 02	1550	Int	N	80	5L,2	-	-111	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	35,17,27	Power amp to match Unisis		
Tube Tech Prophet	1199	Pre	N	- 3	4L,1	IT		N	N	35,8,25	Two box pre, separate PSU		
TT Unisis Super Line	1399	Int	N	30	4L,1	_		N	N	35,17,27	Line level version of Unisis		
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	IT,		N	Y	47,18,47			
Woodside SC27 Line	705	Pre	N	-	2L,1	IT		N	N	4			
Woodside SC27 MM	881	Pre	N	-	MM	,2L,1T		N	N	-			
Woodside ISA230 Disc	899	Int	N	30	NAME AND ADDRESS OF THE OWNER, WHEN	,2L,1T		N	N	-			
Woodside ISA230 Line	899	Int	N	30	4L,2	2T		N	N	-			
Woodside ISA 2.40	949	Pwr		40						-			
Woodside SC27 MC	999	Pre·	N	-	MC,	2L,1T		N	N	-			
Woodside MA50 Class A	1224	Pwr	7	50							1 channel monoblock		
Woodside STA35	1323	Pwr	- N	35	2L.2	)T		N	N	-			
Woodside SC25 Line	1420 1931	Pre	N		Section 1	/MC,3L	OT.	N	N	-			
Woodside SC26 Phono	200	Pre Int	N	95	-	MC.3L	and the same of	Y	N	-			
Yamaha AX-470	999	Int	N	45	4L,1	The second second	.,21	N	N	43,9,33			
YBA Integre Line YBA 3 Power	1199	Pwr	-	45	71,	1		14	IN	43,9,33			
YBA Integre	1199	Int	N	45	ММ	,4L,1T		N	N	43,9,33			
YBA 3	1250	Pre	N	-		3L,1T		N	N	43,9,33			
YBA 2	1699	Pre	N	-		,3L,1T		N	N	43,9,33			
YBA 2 Power		Pwr	-	70	-			-	-	43,9,33			
YBA 2 Power	2150	Pwr	-	70				-		43,9,33			
YBA 1	3750	Pre	N	-	MC,	MC,4L,1T		N	N	43,9,33			
YBA 1 Power	4250	Pwr	-	85				-		43,14,33			
16					9	1	1		T				
×			-		j				1				
	-		Dolby		Ξ.	E			1				
Madel	Price	Туре	V NE		olby HX Pro	Heads	e:			nonial			
Model	CD.		1		-	5	Size	_	S	pecial			
CASSETTE DECKS	120	2	D.		Υ	Y 2		5.1	C	per DX head			
Aiwa AD-F450 Aiwa AD-WX727	120 170	S	B,0	-	Y	CONTRACTOR DESCRIPTION							
Aiwa AD-WX828	200	T	BC		Y			. = "		Twin auto-reverse Twin auto reverse, remote			
Aiwa AD-F850	230	S	B,0		Y	3	-	_			twin capstan		
Aiwa AD-S950	300	S	B,0	Management of the	Y	3	-	50					
Aiwa XK-S7000	550	S	B,0	_	Y	3			Dual capstan, remote control  6N head coils, built in DAC				
Aiwa XK-S9000	700	S	B,0		Y	3	-	- 6N head coils, built in DAC					
Arcam Delta 100	899	S	В,0	and the latest designation of the latest des	N	3	43,12	2,34	_+		ned & made in UK		
Denon DRM-540	160	S	В,0		Υ	2	44,13	3,28	T				
Donon DDC 610	200	C	DI		V	12	44.15	21	Dr	owor looding			

Model	Price	Туре	iby NR	HX Pro	Heads	Size	Special
CASSETTE DECKS							
Aiwa AD-F450	120	S	B,C	Υ	2	-	Super DX head
Aiwa AD-WX727	170	T	B,C	Υ	2	-	Twin auto-reverse
Aiwa AD-WX828	200	T	BC	Y	2		Twin auto reverse, remote :
Aiwa AD-F850	230	S	B,C	Υ	3		Super DX head, twin capstan
Aiwa AD-S950	300	S	B,C,S	Y	3	- 80	Dual capstan, remote control
Aiwa XK-S7000	550	S	B,C,S	Y	3	-	6N head coils, built in DAC
Aiwa XK-S9000	700	S	B,C,S	Υ	3	-	6N head coils, built in DAC
Arcam Delta 100	899	S	B,C,S	N	3	43,12,34	Dolby S, designed & made in UK
Denon DRM-540	160	S	B,C	Υ	2	44,13,28	
Denon DRS-610	200	S	B,C	Y	2	44,13,31	Drawer loading
Denon DRW-760	250	T	B,C	Υ	2	44,13,28	
Denon DRM-740	260	S	B,C	Υ	3	44,13,28	Dual capstan ,
Denon DRS-810	300	S	B,C	Y	3	44,13,32	
Dual CC8000 RS	200	T	B,C	N	2	44,13,25	Remote via 9000RS
Goodmans Delta 700	100	T	В	N	2	36,13,28	
Goodmans GSW650	130	T	В	N	2	43,12,27	Both auto-reverse
Grundig CCF210	150	T,AR	В	N	2	36,12,30	AMS, CD copy, hi speed dub
Grundig CCF2	170	T	В	N	2	44,13,30	AMS, remote, display off
Grundig CCF310	190	T,AR	B,C	Υ	2	36,12,30	Elapsed time, CD copy, AMS
Grundig CCF3	200	T,AR	B,C	Υ	2	44,13,30	Elapsed time, display switch
Grundig CF4	250	S	B,C	Y	3	44,13,30	Manual bias, AMS, monitor
Harman-Kardon TD4200	280	T	B,C	N	2	45,13,35	
Harman-Kardon TD4400	349	S	B/C	Υ	2	45,13,35	41
Harman-Kardon TD4500	499	S	B/C	Υ	2	45,13,35	

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory. 450 Int N 60 45,8,36 Preout/main in



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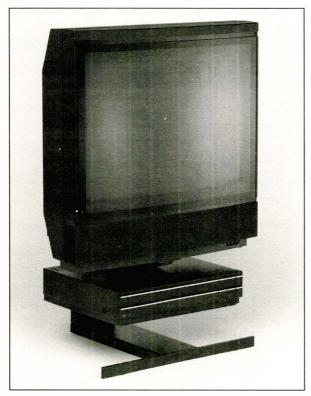
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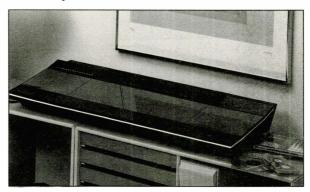
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Beosystem Overture £1800 ex Remote & WB



Beocentre 9300 £1500 ex Remote & Speakers

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Aiwa DX-M100

Arcam Alpha One

ARC CD1

150

349

3278 -300 DS

E,0

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory

Audiolab 8000A 450 Int N 60 MM,MC,1T,3T Y N 45,8,36 Preout/main in

Y 43,8,29

Midi size

'Bit String' conversion

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

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

Dac Ty

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 roslink), E1 - electrical (usually coaxial S/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 for full test results.

	_		Dolby	Dolby HX	=		
Model	Price	Туре	NR.	HX Pro	Heads	Size	Special
CASSETTE DECKS							
Harman-Kardon DC5500 Harman-Kardon TD4600	599 699	T S	B,C,S	Y	2	45,13,35 45,13,35	
Harman-Kardon DC5700	699	T	B,C	Y	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-W208BK	170 170	T S	B,C	Y	2	44,13,33	Twin, one recording deck
JVC TD-X372BK JVC TD-W308BK	200	T,AR	B,C	Y	2	44,13,33	Twin, one recording deck
JVC TD-V562BK	220	S	B,C	Y	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	Y	3	44,13,33	Dual capstan
Kenwood KX-3060 Kenwood KX-W4060	170 180	S	B.C B.C	Y	2	44,12,37	Tape path stabiliser  Computer controlled recording
Kenwood KX-W6060	200	T	B.C	Y	2	44,13,30	Auto bias
Kenwood KX-5 60S	235	S	B,C,S	Υ	2	44,12,30	Auto bias
Kenwood KX-W8 60	260	T	B.C	Υ	2	44,13,30	Auto bias
Kenwood KX-7060S Marantz SD-53	400	S	B.C	Y	3	44,13,30	Auto tape calibration
Marantz SD-415	200	T	B,C B,C	Y	2	43,14,30	D-bus D-bus, mic mixing
Marantz SD-63	269	S	B,C	Y	3	43,14,30	D-bus
NAD 602	200	S	B,C	Υ	2		Play Trim
NAD Monitor 6100	299	S	B,C	Y	2	40.40.00	Play Trim, remote cntrl, Dyneq
Nakamichi DR-3	400 600	S	B,C B,C	N N	2	43,10,32	Diffused recogness transport
Nakamichi DR-2 Nakamichi DR-1	850	S	B,C	N	3	43,10,32 43,10,32	Diffused resonance transport  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 Onkyo KR-609	250 350	T AR	B,C B,C	Y	2	46,12,31 28,12,31	Mini component
Onkyo TA250	350	S	B,C	Y	3	46,12,31	Willi Component
Onkyo K-W606	370	T,AR	B,C	Υ	2	28,12,32	Mini component
Onkyo K-611	430	AR	B,C	Υ	3	28,12,32	Mini component
Pioneer CT-S330	170	S	B,C	Y	2	42,13,28	Audio tape setup, FLEX
Pioneer CT-W503R Pioneer CT-S430S	200	T,AR S	B,C B,C,S	Y	2	42,13,25 42,13,28	Auto NR, FLEX Auto tape setup, FLEX, Dolby S
Pioneer CT-W603RS	230	T,AR	B,C,S	Υ	2	42,13,25	Auto tape setup, FLEX, Dolby S  Auto tape setup, FLEX, Dolby S
Pioneer CT-W803RS	300	T,AR	B,C,S	Y	2	42,13,25	Twin record, mic i/p
Pioneer CT-S630S	300	S	B,C,S	Υ	3	42,13,38	Auto tape setup
Pioneer CT-M601R	380	AR	B,C	Υ	2	42,14,38	Six tape record/play, r/cntrl
Pioneer CT-S830S Pioneer CT-95	500 1000	S	B,C,S B,C,S	Y	3	42,14,38 44,15,38	Slant Z transport mech Copper plated chassis
Sansui D-X117HX	220	S	B,C	Υ	2	-	Copper plated chassis
Sherwood DS1150	80	S	B,C	N	2		
Sherwood DS1010C	100	S	B,C	Υ	2	-	Mic input
Sherwood DD1030C Sherwood DS3010C	100 120	T S	B B,C	N	2		
Sherwood DD3010C	150	T	B,C	Y	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	Y	2	43,12,31	Auto calibration
Sony TCW445B Sony TCK415B	150 180	T S	B,C B,C	Y	3	43,12,31	Full logic control UK optimised sound
Sony TCWR545B	200	T	B,C	Y	2	43,12,29	Auto calibration
Sony TCWR645S	250	T	B,C,S	Υ	2	43,12,31	UK optimised sound
Sony TCK511S	250	S	B,C,S	Y	3	43,12,31	UK optimised sound
Sony TCK611S Teac V-600	300 150	S	B,C,S B,C	Y	3	43,12,30	UK optimised sound Fine bias
Feac W-700R	220	T,AR	B,C	Y	2.	44,15,29	The bias
eac V-1010	250	S	B,C	Υ	3	44,15,29	Fine bias
eac V-3010	350	S	B,C	Υ	3	44,15,36	Copper chassis, remote
eac V-2020S eac W-6000R	380 450	S T,AR	B,C	Y	2	44,15,29	Tape calibration Pitch control, remote
eac R-90 S	500	AR AR	B,C B,C	Y	3	44,15,33 49,15,36	Remote control
eac V-8000S	700	S	B,C,S	Υ	3	48,15,36	Direct drive, tape cal, remote
echnics RS-TR232	180	T,AR	B,C	Υ	2	43,14,29	Play transport unidirectional
echnics RS-BX404 echnics RS-TR333	180 200	AR T,AR	B,C	Y	2	43,13,29	Mic inputs, auto tape cal
echnics RS-BX646	230	S S	B,C B,C	Y	3	43,14,29 43,13,30	Auto tape cal, remote ready
echnics RS-TR515	250	T,AR	B,C	Y	2	43,14,29	Optical quick reverse
echnics RS-BX747	300	S	B,C	Υ	3	43,13,30	Fine bias adj, THC lo-red base
echnics RS-TR979		T,AR	B,C	Y	2	43,13,28	Both decks record, quick rev
amaha KX-650 amaha KX-W952	260 500	S	B/C B,C	Y	3		
		Dac Type	Outputs Dig	Remote			

Agricum Data 270   900   Hybrid   26	Model	Price	Туре	ts Dig	mote	Size	Special
Auto CDS0						THE REAL PROPERTY.	
Aura CDSOON Mail			Company of the Compan			The second secon	
Ans. DECOUNDS							Heavily modified CDM
AN SEQUENCY AN SEQUENCY Carches (CASQ) May 1 AN SEQUENCY Carching Audio (CAS) AN SEQUENCY AN SEQUENCY Carching Audio (CAS) AN SEQUENCY AN							01 5 11
AMS   SECONDAY   1949				E			
Carnets (200 Mic   1.50				E	-		
Cambridge Audio (2020)   190   198   N				-		and the same of th	20 bit buil blown bacs
December 1965   180				N	DECISION STORES	AND DESCRIPTION OF THE PARTY OF	Can play in reverse order
Devot DD 1-200					-		
DA Frenissance		_				NE RESERVE STREET, STR	
Diast OD1956RC   150			MB	E,0	Y	20.00	
Diast DOLOURS	Dual CD1135RC	140	MB	E	Υ	42,8,28	Var. headphone out
Diact CD101	Dual CD1150RC	150	MB			-	Var. headphone out
Date   CDU0101						-5-0	
Estigue CD/20		_					
Edipse CAP20 Coordmans CO300R Coordmans Coordmans Coordmans Coordmans CO300R Coordmans				MANAGEMENT OF THE PARTY OF THE			Headphone out
Coordmans Collago Sign   100 MB				-		IN THE RESERVE THE PERSON NAMED IN	
Gootmark CO2360R   120				NI.		42,8,29	
Gundig CD21							
Grundig CD3						36.8.30	30 mem, random reneat
Gundig CD2						CONTRACTOR OF THE PARTY OF THE	
Grunding CD3					NAME OF TAXABLE PARTY.	CONTRACTOR OF THE PARTY OF THE	, , , , , , , , , , , , , , , , , , , ,
Harman-Kardon H07225   230   8S							FTS, display off, fade, DAC7
Harman-Kardon H07425   349   MB		230	BS	-	Υ	45,10,33	
Harman-Kardon H077262	Harman-Kardon HD7325	299	BS	E,0	Y	45,10,33	
Harman-Kardon H07765	Harman-Kardon HD7425	349	MB	Ε		45,10,33	
Harman Kardon H07725	Harman-Kardon HD7525		MB				
Section						O DESCRIPTION OF THE PARTY OF T	
MCX_LYTABK				E,0	Υ	45,10,33	
JUC N. L. Y. 2748K					-	-	
JOCX   1-2674   300   1bit				-			
JOC XL-M408BK							
JUC XL-21050TN			Commission of the Commission o	2000			Six disc
JOC XL-MC100			The second secon				SIA UISC
Renwood DP-2060				-			100 disc player
Remivood DP-R4060				-			
Nemwood DP-M6060   250					Υ		
Remwood DP-5060	Kenwood DP-3060	200	1bit		Υ	44,10,26	High precision master clock
Netwood DP-7060   380	Kenwood DP-M6060	250	1bit	-		44,12,36	Multiplay CD 6+1 disc
Real KPS20    3278					100000000000000000000000000000000000000		
Krell CD DSPIII 5000         MB         2 E         Y         42,13,28 Has digital in, balanced out           Krell KSP201         9950         E         Y         - Balanced out, top loader           Linn Mimik         798         DS         E         Y         32,8,33         BNC digital           Linn Marank         1497         DS         E, D         Y         32,8,33         BNC digital           Linn Kark         1497         DS         E, D         Y         43,9,30         New transport, DAC, circuit           Marantz CD-53         200         BS         E         Y         43,9,30         New transport, DAC, circuit           Marantz CD-53         250         BS         E, O         Y         42,12,28         Selected passive components           Marantz CD-52 II SE         300         BS         E, O         Y         42,12,28         As CD-52, 4V output           Marantz CD-10         1200         BS         E, O         Y         46,14,36         Twin DAC-7, heavy build           Michtosh MCD7008         1995         MB         E         Y         4         Seven disc multiplayer           Meridian 506         795         DS         E, O         N         33,9,34         Re			1bit			44,12,31	
Krell KDPSPI 5000   S000   MB   2E				E		-	
Record   September   Septemb			-	-	-	II DOMESTIC CONTRACTOR CONTRACTOR	
Linn Mimik 798 DS E Y 32,8,33 BNC digital Linn Kark 1497 DS E,0 Y 32,8,33 BNC digital Lumran D500X's 3750 MB 0 Y 44,12,39 Top loading Marantz CD-53 200 BS E Y 43,9,30 New transport, DAC, circuit Marantz CD-63 250 BS E,0 Y 42,9,30 As CD-53 Marantz CD-78E 600 BS E,0 Y 42,12,28 Sclected passive components Marantz CD-78E 600 BS E,0 Y 42,12,28 As CD-52, 4V output Marantz CD-10 1200 BS E,0 Y 42,12,28 As CD-52, 4V output Marantz CD-10 1200 BS E,0 Y 42,12,28 As CD-52, 4V output Marantz CD-10 1200 BS E,0 Y 42,12,28 As CD-52, 4V output Marantz CD-10 1200 BS E,0 Y 42,12,28 As CD-52, 4V output Marantz CD-10 1200 BS E,0 Y 42,12,28 As CD-52, 4V output Marantz CD-10 1200 BS E,0 Y 42,12,28 As CD-52, 4V output Marantz CD-10 1200 BS E,0 Y 42,12,28 As CD-52, 4V output Marantz CD-10 1200 BS E,0 Y 42,16,36 Twin DAC-7, heavy build McIntosh MCD7008 1995 MB E Y Seven disc multiplayer Meridian 506 795 DS E,0 N 33,9,34 Recently improved sound Meridian 508 1350 DS E,0 N 33,9,34 Metaxas PHOS 1750 BS E,0 Y 42,16,42 Micro-Seiki CDM2000X 4689 MB E Y 42,16,42 Micro-Seiki CDM2000X 4689 MB E Y 43,28,88 Upgradable Micromega Stage 1 450 BS E Y 43,28,88 Upgradable Micromega Stage 2 600 BS E Y 43,28,88 Upgradable Micromega Stage 2 MO BS E Y 43,28,88 Upgradable Micromega Tino 6000 BS E Y 22,8,36 Two box, inc Dacmaster DAC Mission DIscmaster 1900 MB E Y 22,8,36 Two box, inc Dacmaster DAC Mission Discmaster 1900 MB E Y 22,8,36 Two box, inc Dacmaster DAC Mission Discmaster 1900 MB E Y 22,8,36 Two box, inc Dacmaster DAC Mission Discmaster 1900 MB E Y 22,8,36 Two box, inc Dacmaster DAC Mission Discmaster 1900 MB E Y 22,8,36 Two box, inc Dacmaster DAC Mission Discmaster 1900 MB E Y 22,8,36 Two box, inc Dacmaster DAC Mission Discmaster 1900 MB E Y 22,8,36 Two box, inc Dacmaster DAC Mission Discmaster 1900 MB E Y 22,8,36 Two box, inc Dacmaster DAC Mission Discmaster 1900 MB E Y 24,16,30 Two box, no digital output, to Namin CDS 3254 MB - Y 43,16,30 Two box, no digital output, to Namin CDS 3254 MB - Y 43,10,38 Multi-CD, 16 x 4 oversampling Nakamichi MB2 850			MR		-	42,13,28	
Linn Karik			ne	-		32 8 33	
Luxman D500X's         3750         MB         0         Y         44,12,39         Top loading           Marantz CD-63         200         BS         E         Y         43,930         New transport, DAC, circuit           Marantz CD-52 II SE         300         BS         E, Q         Y         42,12,28         Selected passive components           Marantz CD-10         1200         BS         E, Q         Y         42,12,28         As CD-52, 4W output           Mchrosh McD7008         1995         MB         E         Y         42,12,28         As CD-52, 4W output           Mchrosh McD7008         1995         MB         E         Y         4,13,36         Twin DAC-7, heavy build           Mchrosh McD7008         1995         MB         E         Y         4,614,36         Twin DAC-7, heavy build           Mchrosh McD7008         1995         MB         E         Q         Y         42,16,42           Meridian 506         1350         Ds         E, Q         N         33,9,34         Recently improved sound           Microselki CDM200X         4689         MB         E         Y         42,16,42           Microselki CD-M200X         4689         MB         E         Y				-			
Marantz CD-53         200         BS         E         Y         43,9,30         New transport, DAC, circuit           Marantz CD-63         250         BS         E,0         Y         42,9,30         As CD-53           Marantz CD-72SE         600         BS         E,0         Y         42,12,28         Selected passive components           Marantz CD-10         1200         BS         E,0         Y         42,12,28         As CD-52, 4V output           Marantz CD-10         1200         BS         E,0         Y         46,14,36         Twin DAC-7, heavy build           Mcridian 506         795         DS         E,0         N         33,9,34         Recently improved sound           Meridian 508         1350         DS         E,0         N         33,9,34         Recently improved sound           Micror-Seiki CD-M2DC         MS         BS         E,0         N         33,9,34         Metaxas PHOS         1750         BS         E,0         N         33,9,34           Micror-Seiki CD-M2DC         3695         MB         E         Y         -         -           Microrega Stage 1         450         BS         E         Y         43,28,88         Upgradable			The second second second	-			
Marantz CD-63         250         BS         E, 0         Y         42,9,30         As CD-53           Marantz CD-52 II SE         300         BS         E         Y         42,12,28         Selected passive components           Marantz CD-72SE         600         BS         E, 0         Y         42,12,28         As CD-52, 4V output           Marantz CD-10         1200         BS         E, 0         Y         46,14,36         Twin DAC-7, heavy build           McIncrosh MCD7008         1995         MB         E         Y         46,14,36         Twin DAC-7, heavy build           Meridian 506         795         DS         E, 0         N         33,9,34         Recently improved sound           Meridian 508         1350         DS         E, 0         N         33,9,34         Recently improved sound           Merasas PHOS         1750         BS         E, 0         N         33,9,34         Recently improved sound           Micro-Seiki CD-M20C         3695         MB         E         Y         42,16,42         M           Micro-Seiki CD-M20C         4698         MB         E         Y         43,28,88         Upgradable           Micro-Seiki CD-M20C         480         BS				-	-		
Marantz CD-52 II SE         300         BS         E         Y         42,12,28         Selected passive components           Marantz CD-72SE         600         BS         E,0         Y         42,12,28         As CD-52, 4V output           Marantz CD-10         1200         BS         E,0         Y         46,14,36         Twin DAC-7, heavy build           McIndian 506         795         DS         E,0         N         33,9,34         Recently improved sound           Meridian 506         1350         1bit         3E,0         N         Seven disc multiplayer           Meridian 508         1350         DS         E,0         N         33,9,34         Recently improved sound           Meridian 508         1350         DS         E,0         N         33,9,34         Recently improved sound           Meridian 508         1350         DS         E,0         N         42,16,42         42           Micro-Seiki CD-M2DC         3695         MB         E         Y         42,16,42         42           Micro-Seiki CDM200X         4689         MB         E         Y         43,28,88         Upgradable           Micromega Stage 1         450         BS         E         Y					Υ	CONTRACTOR	
Marantz CD-10         1200         BS         E,O         Y         46,14,36         Twin DAC-7, heavy build           McIntosh MCD7008         1995         MB         E         Y         Seven disc multiplayer           Meridian 506         795         DS         E,O         N         33,9,34         Recently improved sound           Meridian 508         1350         DS         E,O         N         33,9,34         Recently improved sound           Meridian 508         1350         DS         E,O         N         33,9,34         Recently improved sound           Meridian 508         1350         DS         E,O         N         33,9,34         Recently improved sound           Micromes 508         1350         DS         E,O         N         33,9,34         Recently improved sound           Micromes 508         1350         DS         E,O         Y         42,16,42         Period           Micromega Stage 1         450         BS         E,O         Y         43,28,88         Upgradable           Micromega Stage 3         800         BS         E         Y         43,28,88         Upgradable           Micromega Stage 1         900         MB         E         Y					Υ		Selected passive components
Meridian 506	Marantz CD-72SE	600	BS	E,0	Υ	42,12,28	As CD-52, 4V output
Meridian 506         795         DS         E,O         N         33,9,34         Recently improved sound           Meridian 606         1350         1bit         3E,O         N         -           Meridian 508         1350         DS         E,O         N         33,9,34           Micro-Seiki CD-M2DC         3695         MB         E         Y         -           Micro-Seiki CDM200X         4689         MB         E         Y         -           Micromega Stage 1         450         BS         E         Y         43,28.88         Upgradable           Micromega Stage 2         600         BS         E         Y         43,28.88         Upgradable           Micromega Trio         6000         BS         E         Y         43,28.88         Upgradable           Mission DAD7         900         MB         E         Y         22,8,36         Wasca Fidelity E00         599         BS         E         Y         43,28,38         Upgradable           Musical Fidelity FCD         1499         BS         E         Y         44,28,35         Two box, inc Dacmaster DAC           Musical Fidelity FCD         1499         BS         E         Y         44	Marantz CD-10	1200	BS	E,0	Υ	46,14,36	
Meridian 606         1350         1bit         3E,0         N         -           Meridian 508         1350         DS         E,0         N         33,9,34           Metaxas PHOS         1750         BS         E,0         N         42,16,42           Micro-Seiki CD-M2DC         3695         MB         E         Y         -           Micromega Stage 1         450         BS         E         Y         43,28,88         Upgradable           Micromega Stage 2         600         BS         E         Y         43,28,88         Upgradable           Micromega Stage 3         800         BS         E         Y         43,28,88         Upgradable           Micromega Trio         6000         BS         E         Y         34,48,31         AES/Toslink digital output           Mission DAD7         900         MB         E         Y         22,8,36         Two box, inc Dacmaster DAC           Musical Fidelity E600         599         BS         E         Y         44,12,35         Balanced XLR output           Musical Fidelity FCD         1499         BS         2E,0         Y         49,12,33         XLR balanced out, tube o/p sta           NAD 501         180<		1995			Υ	-	
Meridian 508			PRODUCTION OF STREET		-	33,9,34	Recently improved sound '
Metaxas PHOS							
Micro-Seiki CD-M2DC         3695         MB         E         Y			And in concession with the same				
Micro-Seiki CDM2000X         4689         MB         E         Y         -           Micromega Stage 1         450         BS         E         Y         43,28,88         Upgradable           Micromega Stage 2         600         BS         E         Y         43,28,88         Upgradable           Micromega Stage 3         800         BS         E         Y         43,28,88         Upgradable           Micromega Trio         6000         BS         E         Y         34,28,88         Upgradable           Mission DAD7         900         MB         E         Y         22,8,36         Two box, inc Dacmaster DAC           Mission Discrmaster         1900         MB         E         Y         22,8,36         Two box, inc Dacmaster DAC           Musical Fidelity FCD         1499         BS         2E,0         Y         49,12,33         XLR balanced vur, tube o/p sta           NAD 501         180         BS         IN         Invaired Color         Sepa Sepa Sepa Sepa Sepa Sepa Sepa Sepa						42,16,42	
Micromega Stage 1						_	
Micromega Stage 2			Marion Production Committee			43,28,88	Upgradable
Micromega Stage 3			CHARLEST CONTRACTOR CONTRACTOR				
Micromega Trio         6000         BS         E         Y         34,48,31         AES/Toslink digital output           Mission DAD7         900         MB         E         Y         22,8,36         Two box, inc Dacmaster DAC           Mission Discmaster         1900         MB         E         Y         22,8,36         Two box, inc Dacmaster DAC           Musical Fidelity E600         599         BS         E         Y         44,12,35         Balanced XLR output           Musical Fidelity FCD         1499         BS         2E,0         Y         49,12,33         XLR balanced out, tube o/p sta           NAD 501         180         BS         N         .         .         .           NAD 502         220         M         E         Y         .         .           NAD Monitor 5000         309         M         E         Y         . <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Mission Discmaster         1900         MB         E         Y         22,8,36         Two box, inc Dacmaster DAC           Musical Fidelity FCD         599         BS         E         Y         44,12,35         Balanced XLR output           Musical Fidelity FCD         1499         BS         2E,0         Y         49,12,33         XLR balanced out, tube o/p sta           NAD 501         180         BS         -         N         -           NAD 502         220         M         E         Y         -           NAD Monitor 5000         309         M         E         Y         -           Naim CD3         898         MB         -         Y         43,630         1 box           Naim CD5         3254         MB         -         Y         43,16,30         Two box, no digital output, to           Nakamichi MB-4S         299         MB         -         Y         43,10,32         Multi-CD, 16 x 4 oversampling           Nakamichi MB3         650         MB         -         Y         43,10,38         Multi-CD, 18x8 oversampling           NVA T.E.S.         2000         BS         E         Y         43,10,38         Multi-CD, 20x8 oversampling           N					Y		AES/Toslink digital output
Musical Fidelity E600         599         BS         E         Y         44,12,35         Balanced XLR output           Musical Fidelity FCD         1499         BS         2E,0         Y         49,12,33         XLR balanced out, tube o/p sta           NAD 501         180         BS         -         N         -           NAD 502         220         M         E         Y         -           NAD Monitor 5000         309         M         E         Y         -           Naim CD3         898         MB         -         Y         32,6,30         1 box           Naim CD5         3254         MB         -         Y         43,16,30         One box, no digital output, to           Nakamichi MB-4S         299         MB         -         Y         43,10,27         Multi-CD, 16 x 4 oversampling           Nakamichi MB3         650         MB         -         Y         43,10,32         Multi-CD, 18x8 oversampling           Nakamichi MB2         850         MB         E         Y         43,10,38         Multi-CD, 20x8 oversampling           NVA CD Tube         1100         1bit         E         Y         -         -         -           NVA T.LS	Mission DAD7	900	MB	E	Υ	22,8,36	X
Musical Fidelity FCD         1499         BS         2E,0         Y         49,12,33         XLR balanced out, tube o/p sta           NAD 501         180         BS         -         N         -         -         N           NAD 502         220         M         E         Y         -	Mission Discmaster	1900	MB	E	Υ	22,8,36	
NAD 501							
NAD 502         220         M         E         Y         -           NAD Monitor 5000         309         M         E         Y         -           Naim CD3         898         MB         -         Y         32,6,30         1 box           Naim CD1         1677         MB         -         Y         43,16,30         One box, no digital output, to           Nakmicb1         3254         MB         -         Y         43,16,30         Two box, no digital output, to           Nakamichi MB-4S         299         MB         -         Y         43,10,32         Multi-CD, 16 x 4 oversampling           Nakamichi MB3         650         MB         -         Y         43,10,38         Multi-CD, 18x8 oversampling           NAA CD Tube         1100         1bit         E         Y         43,10,38         Multi-CD, 20x8 oversampling           NVA T.E.S.         2000         BS         E         Y         -         -           NVA T.L.S         3300         BS         E         Y         -         -           NVA T.L.S         3300         BS         E         Y         -         -           NVA T.L.S         3300         BS				2E,0		49,12,33	XLR balanced out, tube o/p sta
NAD Monitor 5000         309         M         E         Y         -           Naim CD3         898         MB         -         Y         32,6,30         1 box           Naim CD1         1677         MB         -         Y         43,16,30         One box, no digital output, to           Naim CD5         3254         MB         -         Y         43,16,30         Two box, no digital output, to           Nakamichi MB-4S         299         MB         -         Y         43,10,27         Multi-CD, 16 x 4 oversampling           Nakamichi MB3         650         MB         -         Y         43,10,32         Multi-CD, 18x8 oversampling           Nakamichi MB2         850         MB         -         Y         43,10,38         Multi-CD, 18x8 oversampling           NVA CD Tube         1100         bit         E         Y         -         Multi-CD, 20x8 oversampling           NVA T.L.S         3200         BS         E         Y         -         -         -           NVA T.L.S         3300         BS         E         Y         -         -         -           NVA T.L.S         3300         BS         E         Y         -         -			DOCUMENTS OF STREET	- C		-	
Naim CD3         898         MB         -         Y         32,6,30         1 box           Naim CD1         1677         MB         -         Y         43,16,30         One box, no digital output, to           Naim CD5         3254         MB         -         Y         43,16,30         Two box, no digital output, to           Nakamichi MB-4S         299         MB         -         Y         43,10,27         Multi-CD, 16 x 4 oversampling           Nakamichi MB3         650         MB         -         Y         43,10,32         Multi-CD, 18x8 oversampling           Nakamichi MB2         850         MB         E         Y         43,10,38         Multi-CD, 20x8 oversampling           NVA CD Tube         1100         1bit         E         Y         -           NVA T.L.S.         2000         BS         E         Y         -           NVA T.L.S         3300         BS         E         Y         -           NVA T.L.S         3300         BS         E         Y         -           Onix CD33         999         BS         -         -         43,8,33         DAC7           Onkyo DX703         240         1bit         0         Y						E-market and the second	
Naim CDI         1677         MB         -         Y         43,16,30         One box, no digital output, to           Naim CD5         3254         MB         -         Y         43,16,30         Two box, no digital output, to           Nakamichi MB-S         299         MB         -         Y         43,10,27           Nakamichi CD4         380         MB         E         Y         43,10,32           Nakamichi MB3         650         MB         -         Y         43,10,32           Nakamichi MB2         850         MB         E         Y         43,10,38         Multi-CD, 16 x 4 oversampling           NVA CT LS         200         BS         E         Y         43,10,32         Multi-CD, 16 x 4 oversampling           NVA T.E.S.         200         BS         E         Y         43,10,38         Multi-CD, 18x8 oversampling           NVA T.E.S.         2000         BS         E         Y         -           NVA T.LS         3200         BS         E         Y         -           NVA T.LS         3300         BS         E         Y         -           NVA T.LS         3300         BS         E         Y         -      <			Annual State of the State of th	CONTRACTOR OF THE PARTY OF THE		32.6.30	1 box
Naim CD5         3254         MB         -         Y         43,16,30         Two box, no digital output, to           Nakamichi MB-4S         299         MB         -         Y         43,10,27         Multi-CD, 16 x 4 oversampling           Nakamichi CD4         380         MB         E         Y         43,10,32         Multi-CD, 18x8 oversampling           Nakamichi MB2         850         MB         E         Y         43,10,38         Multi-CD, 18x8 oversampling           NVA CD Tube         1100         1bit         E         Y         -           NVA T.E.S.         2000         BS         E         Y         -           NVA T.L.S         3200         BS         E         Y         -           Onix CD33         999         BS         -         -         43,8,33         DAC7           Onkyo DX710         200         1bit         0         Y         46,11,31           Onkyo DX703         240         1bit         0         Y         46,11,31			CONTRACTOR OF THE PARTY OF THE				
Nakamichi MB-4S         299         MB         -         Y         43,10,27         Multi-CD, 16 x 4 oversampling           Nakamichi CD4         380         MB         E         Y         43,10,32         Multi-CD, 16 x 4 oversampling           Nakamichi MB2         650         MB         -         Y         43,10,38         Multi-CD, 18x8 oversampling           NVA CD Tube         1100         1bit         E         Y         -           NVA T.E.S.         2000         BS         E         Y         -           NVA T.LS         3200         BS         E         Y         -           NVA T.LS         3300         BS         E         Y         -           Onix CD33         999         BS         -         -         43,8,33         DAC7           Onkyo DX710         200         1bit         0         Y         46,11,31         -           Onkyo DX703         240         1bit         0         Y         46,11,31         -				-			
Nakamichi CD4         380         MB         E         Y         43,10,32           Nakamichi MB3         650         MB         -         Y         43,10,38         Multi CD, 18x8 oversampling           Nakamichi MB2         850         MB         E         Y         43,10,38         Multi CD, 20x8 oversampling           NVA CD Tube         1100         1bit         E         Y         -           NVA T.E.S.         2000         BS         E         Y         -           NVA T.L.S         3200         BS         E         Y         -           NVA T.L.S         3300         BS         E         Y         -           Onix CD33         999         BS         -         -         43,8,33         DAC7           Onkyo DX701         200         1bit         0         Y         46,11,31         -           Onkyo DX703         240         1bit         0         Y         46,11,31         -				-			
Nakamichi MB3         650         MB         -         Y         43,10,38         Multi CD, 18x8 oversampling           Nakamichi MB2         850         MB         E         Y         43,10,38         Multi-CD, 20x8 oversampling           NVA CD Tube         1100         1bit         E         Y         -           NVA T.E.S.         2000         BS         E         Y         -           NVA T.L.S         3200         BS         E         Y         -           NVA T.L.S         3300         BS         E         Y         -           Onix CD33         999         BS         -         -         43,8,33         DAC7           Onkyo DX701         200         1bit         0         Y         46,11,31         -           Onkyo DX703         240         1bit         0         Y         46,11,31         -				E			
Nakamichi MB2         850         MB         E         Y         43,10,38         Multi-CD, 20x8 oversampling           NVA CD Tube         1100         1bit         E         Y         -         -           NVA T.E.S.         2000         BS         E         Y         -         -           NVA T.L.S         3200         BS         E         Y         -         -           NVA T.L.S         3300         BS         E         Y         -         -           Onix CD33         999         BS         -         -         43,8,33         DAC7           Onkyo DX710         200         1bit         0         Y         46,11,31           Onkyo DX703         240         1bit         0         Y         46,11,31							Multi CD, 18x8 oversampling
NVA CD Tube         1100         1bit         E         Y         -           NVA T.E.S.         2000         BS         E         Y         -           NVA T.L.S         3200         BS         E         Y         -           NVA T.L.S         3300         BS         E         Y         -           Onix CD33         999         BS         -         -         43,8,33         DAC7           Onkyo DX710         200         1bit         0         Y         46,11,31           Onkyo DX703         240         1bit         0         Y         46,11,31				E	Υ		
NVA T.T.S         3200         BS         E         Y         -           NVA T.L.S         3300         BS         E         Y         -           Onix CD33         999         BS         -         -         43,8,33         DAC7           Onkyo DX710         200         1bit         0         Y         46,11,31           Onkyo DX703         240         1bit         0         Y         46,11,31	NVA CD Tube						
NVA T.L.S         3300         BS         E         Y         -           Onix CD33         999         BS         -         -         43,8,33         DAC7           Onkyo DX710         200         1bit         0         Y         46,11,31           Onkyo DX703         240         1bit         0         Y         46,11,31						- 40	
Onix CD33         999         BS         -         -         43,8,33         DAC7           Onkyo DX710         200         1bit         0         Y         46,11,31           Onkyo DX703         240         1bit         0         Y         46,11,31		$\overline{}$	CARDON TOTAL PROPERTY.				
Onkyo DX710         200         1 bit         0         Y         46,11,31           Onkyo DX703         240         1 bit         0         Y         46,11,31		_		Ł	Υ	40.000	DAOZ
Onkyo DX703 240 1bit 0 Y 46,11,31				0			UAC/
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Sings S   ESS   ION   O   1   ESJOJOO   Millin Component							Mini component
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Kre Krell DT-10

Meridian 200

Meridian 500

Micromega Drive 1

Micromega Drive 2

Micromega T-Drive

9090

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43,28,88

22,28,88

Y 34.9.31

Front loader

Upgradable, AES/EBU out

Upgradable, AES/EBU out

Tray loading, AES/EBU out Top loading, AES/EBU out

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
roslink), E1 - electrical (usually coaxial S/PDIF).

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory for full test results.

Remote Control - Y - yes, N - No. Size - width x height x depth in cm.

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory.

450 Int N 60 MM,MC,1T,3T Y N 45,8,36 Preout/main in

Audiolab 8000A

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
Toslink), E1 - electrical (usually coaxial S/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 for full test results.

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1		Dac Type	Outputs Dig	2		1			Dac Type	Outputs Dig	8		
	Price	¥	0 8	I				Price	3	SD	18		
Model	ĕ	ă	g	6	Size	Special	Model	8	8	ē	िक	Size	Special
Onkyo DX-C110	350	1bit	0	Υ	46,12,43		CD TRANSPORTS Micromega Duo CD2-1	2500	2-3-2-3-4	E,0	Y	34,9,31	Top loading, AES/EBU out
Onkyo DX750	350	1bit	0	Y	46,11,31		Orelle CD10-T	799	445081	E	Y	44,10,32	Isolated PSU, silver wiring
Orelle CD-480	400	MB	E	Y	44,10,28	DC coupled	Pink Triangle Cardinal	750		-		46,8,36	Upgradable transport & player
Orelle CD260 II	900	MB	E	Y	44,10,32	Audiophile components, DC cpld	PS Audio Lambda tr	1990	- 200	E	Y	38,8,34	AT&T, AES/EBU optional
Philips CD710	120	MB	-	Y	-	16 bit continuous technology	Roksan ATT-DP2	1295	-	E	Y	46,12,35	Four level isolation
Philips CD740	130	MB	E	Y	-	Hybrid 5-bit DAC	Roksan ATT-DP2A	1490	-	1	Y	46,12,35	AT&T optical
Philips CD720	130	MB	- 8	Y	-	16 bit Continuous Calibration	Teac P-700	900		E,0	Y	23,14,40	Half width, anti-resonance cha
Philips CDC745	199	BS	E	Y	-	Multi-disc tray	Teac P-2	3500	-	E,0	Υ	23,14,49	
Philips CD750	199	BS	E	Y	-	Selected BS DAC, differential	Teac P-2S	4300	- 4885	0,E	Y	23,14,49	Gold plate circuit boards
Pioneer PD-77	100	1-bit	E,0	Y	44,13,33	Satin gold finish	Theta Data Basic	1997		E	Υ	42,8,34	AT&T, AES/EBU option
Pioneer PD-103	140	1-bit	-	N	42,11,28	Display off	Theta Data II NTSC	3290	-	E	Y	42,12,40	AT&T, AES/EBU option
Pioneer PD-203	160	1-bit	-	Y	42,11,28	As 103, variable output & remo	Theta Data II PAL	3490	706 0	E,0	Y	42,12,40	AT&T, AES/EBU balanced in
Pioneer PD-S503	200	1-bit	1	Y	42,11,29	Legato Link	Wadia 20	4370 9995		-	- Y	05.40.40	Glass, plastic, BNC, AES/EBU
Pioneer PD-M603 Pioneer PD-S703	250 300	1-bit 1-bit	0	Y	42,11,30 42,13,27	Six disc SPM, Legato Link , twin PSU	Wadia 7	9995				35,16,46	
Pioneer PD-M703	300	1-bit	1	Y	42,13,27	Six disc, DSP soundfield cntrl				9			11
Pioneer PD-DM802	450	1-bit	1.	Y	42,14,31	Dual magazine 12-disc	1		Da	Outputs Dig	-		
Pioneer PD-S901	499	1-bit	E,0	Y	42,13,33	SPM, Legato Link, Twin DAC		Price	Dac Type	ls .			i -
Pioneer PD-TM3	500	1-bit	-	Y	42,18,35	Triple magazine, 18-disc	Model	8	De .	5	mote	Size	Special
Pioneer PD-F100	600	1bit		Y	42,19,40	100 disc, Legato Link	D/A CONVERTERS						
Pioneer PD-95	2500	1-bit	E,0	Y	44,16,34	Balanced out, Legato, SPM	Arcam Black Box 50	450	Hybrid	E,0	N	43,7,28	Two inputs, sync lock
Quad CD67	825	DS	E	Y	33,8,26	For use with 66 system	Arcam Black Box 500	750	BS	E,0	Y	43,9,28	7 inputs, sync-lock
Roksan ATT-DP2P	1495	DS	E	Y	46,12,35	Player, four level isolation	Audio Alchemy DAC-in-the	e-box200		E		8	
Rotel RCD940BX	230	MB	-	Y	44,10,32		Audio Note DAC1	600	MB	E,0	Y	-	
Rotel RCD-945AX	230	BS	E	Y	44,10,32		Audio Note DAC3	1650	MB	E/0	Y	-	
Rotel RCD-965BX	300	BS	E	Y	44,10,32	Audiophile components	Audio Research DAC2	3940	MB	-	-	48,14,26	20bit, 8x o/s
Rotel RCD-965BX D	375	BS	E	Y	44,10,32	Discrete output	Audiolab 8000DAC	800	BS	-	- V	45,8,36	Balanced AES/EBU input
Rotel RCD-965BX LED	425	BS	E N		44,10,32	Discrete & slit foil caps	Audiomeca Elixir	699	BS MB	E,0	Y	25,39,9	1C hit antical 9 alon i/a
Sansui CD-270 Sansui CD-117K II	180	BS MB	N	N	-		AVI S2000MD Beard DAP-2 DAC	549 999	BS	E.0	Y	31,25,9	16 bit, optical & elec i/p  Hybrid tube
Sansui CD-X217i	200	MB	E	N	1.		Beard DAP-1	1250	MB	E,U			nyona tabe
Sansui CD-X317	250	BS	E,0	Y			Counterpoint DA-11E	1495	IVID	E,0	Y	49,6,27	Optional AT&T & AES/UBU balanc
Sansui CD-X617	350	BS	E,0	Y			Counterpoint DA-10E	1675		E,0	Y	- 10,0,21	Interchangeable DACs, optional
Sentec Diana	1100	MB	E.O	N	12,5,23	20 bit	DPA Little Bit II.	450	BS	E,0		120	interorial goado or too, optional
Sherwood CD3020R	130	BS	Y	N	-	20 01	DPA Bigger Bit	695	BS	E.0		-	
Sherwood CDC5030	200	1bit	N	Y	44,10,38	Five disc carousel	DPA PDM256	2995		-	-	-	Unique DPA DX64 DAC
Sony CDP-M302	130	1bit	N	Y	36,10,33	Midi-size, full remote control	DPA PDM10924	5995	200	-	-	-	Unique DPA DX128 DAC
Sony CDP-312	150	1bit	-	Y	43,10,29	Digital servo	EMF Audio Crystal		BS		-	-	
Sony CDP-C325M	230	1bit	N	Y	36,10,39	Midi size, 5-disc player	Krell Studio 2	3198	MB	-	-	42,13,27	AT&T in
Sony CDP-C345	230	1bit	-	Y	43,13,39	Five disc player	Krell Studio		MB	-151	-	42,6,32	AT&T in
Sony CDP-715E	250	1bit	0	Y	43,11,30	UK optimised sound	Krell Reference 64	_	MB	-	-	42,13,39	AT&T in
Sony CDP-915E	300 800	1bit 1bit	0	Y	43,11,36	UK optimised sound	LFD DAC3	2699 1075	MB MB	-	N	48,7,37 32,8,33	Optional balanced output
Sony CDP-CX100 Teac CD-P3500	200	BS	E	V	43,13,38	100 disc autochanger	Linn Numerik Meridian 563	695	DS	3E,0	N	33,9,34	CD sync link with Karik
Teac CD-P4500				Y	44,12,29	Digital attenuator	Metaxas Mas DAC		MB	E,0	Y	26,15,45	External PSU, 20 bit
		RS	I F						IVID				External 1 00, 20 bit
TESC ARDS-1	280 600	BS BS	E F.O	Y	45.15.34	Twin BS	Micromega Microdac	349	BS		-		Coax/optical
Teac VRDS-7 Teac VRDS-10	600	BS	E,0	Y	45,15,34 45,15,34,	Twin BS Twin DAC7, balanced output	Micromega Microdac Micromega DAC		BS BS	E,0	-	22,5,15	Coax/optical AES/EBU input
Teac VRDS-10 Teac VRDS-20	600			Y	45,15,34 45,15,34, 50,15,34	Twin DAC7, balanced output Twin DAC7, balanced output	Micromega Microdac  Micromega DAC  Micromega Duo BS2	600	BS BS BS		- -		
Teac VRDS-10	600 770	BS BS	E,0 E,0	Y Y - Y	45,15,34,	Twin DAC7, balanced output	Micromega DAC	600 600	BS			22,5,15 43,28,88	AES/EBU input
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1S	600 770 1300 2500 3500	BS BS BS MB MB	E,0 E,0 E,0	Y - Y Y	45,15,34, 50,15,34 46,14,40 46,14,40	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit	Micromega DAC Micromega Duo BS2 Micromega T-DAC Micromega Duo Pro 2	600 600 800 1350	BS BS BS BS			22,5,15 43,28,88 8,28,9 22,28,88 34,48,31	AES/EBU input AES input Four inputs AES input
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1S Technics SL-PG360A	770 1300 2500 3500 140	BS BS BS MB MB	E,0 E,0 E,0	Y - Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable	Micromega DAC Micromega Duo BS2 Micromega T-DAC Micromega Duo Pro 2 Mission DAC5	600 600 800 1350 300	BS BS BS BS BS		-	22,5,15 43,28,88 8,28,9 22,28,88	AES/EBU input AES input Four inputs
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG440A	600 770 1300 2500 3500 140 170	BS BS BS MB MB MB	E,0 E,0 E,0 O N	Y - Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC	Micromega DAC Micromega Duo BS2 Micromega T-DAC Micromega Duo Pro 2 Mission DAC5 NVA Dacon	600 600 800 1350 300 320	BS BS BS BS BS BS		- - - - - N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A	600 770 1300 2500 3500 140 170	BS BS BS MB MB MM M	E,0 E,0 E,0 O N N	Y - Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable	Micromega DAC Micromega Duo BS2 Micromega T-DAC Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188	600 600 800 1350 300 320 379	BS BS BS BS BS BS MB	E,0 - - - - - - E	- - - - - N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5 DC coupled, optical & coax in
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-15 Teac X-1S Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS620A	600 770 1300 2500 3500 140 170 180 200	BS BS BS MB MB MB M M M	E,0 E,0 E,0 O N N O	Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts	Micromega DAC Micromega Duo BS2 Micromega T-DAC Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180	600 600 800 1350 300 320 379 599	BS BS BS BS BS BS MB		- - - - - N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A	600 770 1300 2500 3500 140 170 180 200 250	BS BS BS MB MB M M M M M M M	E,0 E,0 E,0 O N N O O	Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,29	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray	Micromega DAC Micromega Duo BS2 Micromega T-DAC Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC	600 600 800 1350 300 320 379 599 695	BS BS BS BS BS MB MB	E,O E	- - - - - N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A Technics SL-PS40A	600 770 1300 2500 3500 140 170 180 200 250 420	BS BS BS MB MB M M M M M M M M M M	E,0 E,0 O N N O O O	Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,34	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter	Micromega DAC Micromega Duo BS2 Micromega T-DAC Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal	600 600 800 1350 300 320 379 599 695 790	BS BS BS BS BS MB MB MB	E,0 	- - - - - N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5 DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS60A Technics SL-PS60A Technics SL-PS740A Technics SL-PS740A Technics SL-PS400 Technics SL-PS400	600 770 1300 2500 3500 140 170 180 200 250 420 1000	BS BS BS MB MB M M M M M M M M M M M M M	E,0 E,0 E,0 O N N O O	Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,29	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer	Micromega DAC Micromega Duo BS2 Micromega T-DAC Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo	600 600 800 1350 300 320 379 599 695 790 1450	BS BS BS BS BS MB MB MB	E,O E	- - - - - N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5 DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A Technics SL-PS40A	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395	BS BS BS BS MB MB M M M M M M M M M M M	E,0 E,0 E,0 O N N O O O O O	Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,34	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter	Micromega DAC Micromega T-DAC Micromega T-DAC Micromega T-DAC Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DC	600 600 800 1350 300 320 379 599 695 790 1450 1500	BS BS BS BS BS BS MB MB MB BS BS	E,0 	- - - - - N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5 DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1 Technics SL-PG360A Technics SL-PG560A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A Technics SL-PS840 Technics SL-PS840 Technics SL-PS840 Technics SL-P2000	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395 290	BS BS BS BS MB MB MM M M M M M M M M M M	E,0 E,0 O N N O O O	Y Y Y Y Y Y Y Y -	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,34	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer	Micromega DAC Micromega Duo BS2 Micromega T-DAC Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo	600 600 800 1350 300 320 379 599 695 790 1450	BS BS BS BS BS BS MB MB MB BS BS BS	E,0 	- - - - - N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 46,8,35	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5 DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG560A Technics SL-PS60A Technics SL-PS620A Technics SL-PS620A Technics SL-PS840 Technics SL-PS840 Technics SL-P2000 Wadia 16 Yamaha CDX-670	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395 290 300	BS BS BS BS MB MB M M M M M M M M M M M	E,0 E,0 E,0 O N N O O O O O	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,34	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DC PS Audio DigiLink II	600 600 800 1350 300 320 379 599 695 790 1450 1500 688	BS B	E,0 	- - - - - N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 46,8,35 38,8,16	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5 DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-15 Technics SL-PG360A Technics SL-PG440A Technics SL-PS660A Technics SL-PS60A Technics SL-PS620A Technics SL-PS840 Technics SL-PS40A	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395 290 300 330	BS BS BS MB MB MM M M M M M M M M M M M	E,0 E,0 E,0 O N N O O O O O - E,0 - O E,0	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,34	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DCA Pink Triangle DCA PS Audio Digit.ink II PS Audio Supert.ink 2	600 600 800 1350 300 320 379 599 695 790 1450 1500 688 1230	BS MB MB MB BS	E,0 	- - - - - N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 46,8,35 38,8,16	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5 DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-15 Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A Technics SL-PS40	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395 290 300 330	BS BS BS MB MB MM M M M M M M M M M M M	E,0 E,0 E,0 O N N O O O O O O - E,0	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,34	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio Ref Link QED Positron	600 600 800 1350 300 320 379 599 695 790 1450 688 1230 2650 5490	BS BS BS BS BS MB	E,0	N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,8,6,20	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5 DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo AT&T input option
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS60A Technics SL-PS60A Technics SL-PS740A Technics SL-PS740A Technics SL-PS400 Wadia 16 Yamaha CDX-670 Yamaha CDX-670 Yamaha CDX-7000	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395 290 300 330 599	BS BS BS MB MB MM M M M M M M M M M M M	E,0 E,0 E,0 O N N O O O O - E,0 E,0	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,39 43,13,39	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DCA PS Audio Digit.ink II PS Audio Digit.ink II PS Audio Supert.ink 2 PS Audio DIgit.ink II PS Audio DIgit.ink II PS Audio DIgit.ink II PS DESIRTON OED Digit Plus	600 600 800 1350 300 320 379 599 695 790 1450 688 1230 2650 5490 89 139	BS B	E,0 	- - - - - N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,8,6,20	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers  Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS60A Technics SL-PS60A Technics SL-PS740A Technics SL-PS740A Technics SL-PS400 Wadia 16 Yamaha CDX-670 Yamaha CDX-670 Yamaha CDX-7000	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395 290 300 330 599 2999	BS BS BS BS MB M M M M M M M M M M M M M	E,0 E,0 E,0 O N N O O O O - E,0 E,0	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,39 43,13,39	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU	Micromega DAC Micromega Duo BS2 Micromega T-DAC Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DaCapo Pink Triangle DC PS Audio Digil.Ink II PS Audio Superl.ink 2 PS Audio UltraLink 2 PS Audio Ref Link QED Positron QED Digit Plus QED Digit Reference	600 600 800 1350 300 320 379 695 790 1450 1500 688 1230 2650 5490 89 139 299	BS B	E,0	N N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 22,7,23 44,7,28 - 23,8,35 46,8,35 46,8,35 38,8,16 38,8,16 38,8,16	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5 DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS60A Technics SL-PS60A Technics SL-PS740A Technics SL-PS740A Technics SL-PS400 Wadia 16 Yamaha CDX-670 Yamaha CDX-670 Yamaha CDX-7000	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395 290 300 330 599 2999	BS BS BS BS MB M M M M M M M M M M M M M	E,0 E,0 E,0 O N N O O O O - E,0 E,0	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,39 43,13,39	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU	Micromega DAC  Micromega Duo BS2  Micromega Duo BS2  Micromega Duo Pro 2  Mission DAC5  NVA Dacon  Orelle DA-188  Orelle DA-188  Orelle DA-180  Perception DAC  Pink Triangle Ordinal  Pink Triangle DC  PS Audio DigiLink II  PS Audio SuperLink 2  PS Audio SuperLink 2  PS Audio Ref Link  QED Positron  QED Digit Reference  Roksan ATT-DA2	600 600 800 1350 300 320 379 599 695 790 1450 1500 688 1230 2650 5490 89 139 299 549	BS B	E,0	N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,8,6,20	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers  Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit
Teac VRDS-10 Teac VRDS-20 Teac X-11 Teac X-11 Teac X-15 Technics SL-PG360A Technics SL-PG560A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A Technics SL-PS840 Technics SL-PS840 Technics SL-PS840 Technics SL-PC000 Wadia 16 Yamaha CDX-670 Yamaha CDX-670 Yamaha CDX-1000 YBA 2	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395 290 300 330 599 2999	BS BS BS BS MB M M M M M M M M M M M M M	E,0 E,0 E,0 O N N O O O O O - E,0 - O E,0	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 44,10,29 43,10,29 43,11,30 445,13,33 45,13,33 45,13,33 43,10,33	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU  Outboard power supply	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio SuperLink 2 PS Audio Ref Link QED Positron QED Digit Plus QED Digit Reference Roksan ATT-DA2 Sentec Diana	600 600 800 1350 300 320 379 599 695 790 1450 1500 688 1230 2650 5490 89 139 299 549 993	BS B	E,0	N N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,6,20 38,8,36 - - - - - - - - - - - - - - - - - - -	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit DAC 4 inputs, optional AT&T
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1 Teac X-1 Technics SL-PG360A Technics SL-PG440A Technics SL-PS680A Technics SL-PS680A Technics SL-PS840 Technics SL-PS840 Technics SL-PS840 Technics SL-PS840 Technics SL-PC000 Wadia 16 Vamaha CDX-670 Vamaha CDX-670 Vamaha CDX-1000 VBA 2	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395 290 300 330 599 2999	BS BS BS MB MB MM M M M M M M M M M M M	E,0 E,0 E,0 O N N O O O O - E,0 E,0	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,39 43,13,39	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle DaCapo Pink Triangle DaCapo Pink Triangle DCapo Pink Triangle DC BoCapo Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio UltraLink 2 PS Audio UltraLink 2 PS Audio Digit Peference Roksan ATT-DA Sentec Diana Teac D-700	600 600 800 1350 300 320 379 599 695 790 1450 1500 688 1230 2650 5490 89 139 299 5490 693 693 693 694 695 695 695 695 695 695 695 695	BS B	E,0	N N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 46,8,35 38,8,16 38,8,16 38,6,20 38,8,36 - - - - - - - - - - - - - - - - - - -	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers  Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit DAC 4 inputs, optional AT&T  Matches P-700, 4x20bit
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-15 Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A Technics SL-PS40A Technics SL-PS40A Technics SL-PS40A Technics SL-PS40 Technics SL-PS40A Technics	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395 290 300 330 599 2999	BS BS BS BS MB M M M M M M M M M M M M M	E,O E,O E,O Outputs Dig	Y - Y - Y - Y - Y - Y - Y - Y - Y - Y -	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,11,30 43,12,29 43,13,34 45,13,33 43,10,33	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x20bit Remote control capable 4-DAC Selected audio parts Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU Outboard power supply	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio DigiLink II PS Audio SuperLink 2 PS Audio Digit Pius QED Positron QED Digit Plus QED Digit Reference Roksan ATT-DA2 Sentec Diana Teac D-700 Teac D-2	600 600 800 320 320 379 599 695 1450 1500 688 1230 2650 5490 93 93 93 93 600 2500	BS B	E,O	N N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 46,8,35 38,8,16 38,6,16 38,6,20 38,8,36 - - - - - - - - - - - - - - - - - - -	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit DAC 4 inputs, optional AT&T
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG560A Technics SL-PG560A Technics SL-PS620A Technics SL-PS640 Technics SL-PS640 Technics SL-PS640 Technics SL-PS640 Technics SL-PS640 Technics SL-PS640 Technics SL-PS620A Tech	600 770 1300 3500 140 170 250 250 250 250 250 420 250 420 7395 290 300 599 2999	BS BS BS BS MB M M M M M M M M M M M M M	E,O E,O E,O O N N O O O O O O C E,O O O O O O O O O O O O O O O O O O O	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,11,30 43,12,29 43,13,34 45,13,33 43,10,33  Size	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x 20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU  Outboard power supply  Special  BNC out. Has sync lock input	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio SuperLink 2 PS Audio RF Link QED Positron QED Digit Reference Roksan ATT-DA2 Sentec Diana Teac D-700 Teac D-2 Theta Pro-Prime II	600 600 800 320 379 599 1450 1500 2650 5490 89 139 299 549 993 600 2500 2500	BS B	E,0	N N N N N	22,5,15 43,28,88 8,28,9 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,8,16 38,8,16 38,8,16 38,8,16 38,16	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers  Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit DAC 4 inputs, optional AT&T  Matches P-700, 4x20bit
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-15 Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A Technics SL-PS40A Technics SL-PS40A Technics SL-PS40A Technics SL-PS40 Technics SL-PS40A Technics	600 770 1300 2500 3500 140 170 180 200 250 420 1000 7395 290 300 330 599 2999	BS BS BS BS MB M M M M M M M M M M M M M	E,O E,O E,O Outputs Dig	Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,11,30 43,12,29 43,13,34 45,13,33 43,10,33	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x20bit Remote control capable 4-DAC Selected audio parts Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU Outboard power supply	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio DigiLink II PS Audio SuperLink 2 PS Audio Digit Pius QED Positron QED Digit Plus QED Digit Reference Roksan ATT-DA2 Sentec Diana Teac D-700 Teac D-2	600 600 800 320 379 695 790 1450 688 1230 2650 89 139 299 600 2500 2500 2299	BS B	E,O	N N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 46,8,35 38,8,16 38,6,16 38,6,20 38,8,36 - - - - - - - - - - - - - - - - - - -	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers  Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit DAC 4 inputs, optional AT&T  Matches P-700, 4x20bit
Teac VRDS-10 Teac VRDS-20 Teac VRDS-20 Teac X-11 Teac X-15 Technics SL-PG360A Technics SL-PG560A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A Technics SL-PS620A Technics SL-PS840 Technics SL-PS840 Technics SL-PS840 Technics SL-PS600 Wadia 16 Yamaha CDX-670 Yamaha CDX-670 Yamaha CDX-670 Yamaha CDX-1000 YBA 2  Model  ### CD TRANSPORTS Arcam Delta 250 Audiolab 8000CDM	750 1250 750 1300 140 170 250 250 140 170 250 420 250 420 3300 330 330 399 2999	BS BS BS BS MB M M M M M M M M M M M M M	E,O E,O E,O O N N O O O O O O C E,O O C O O C C E,O O O O O O O O O O O O O O O O O O O	Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,13,34 45,13,33 43,10,33  Size  43,9,28 45,8,36	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x20bit Remote control capable 4-DAC Selected audio parts Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU  Outboard power supply  Special  BNC out. Has sync lock input Precision master clock Heavily modified CDM	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio SuperLink 2 PS Audio Ref Link QED Positron QED Digit Plus QED Digit Reference Roksan ATT-DA2 Sentec Diana Teac D-700 Teac D-2 Theta Pro-Prime II Theta Probasic II	600 600 800 320 320 379 695 790 1450 688 1230 2650 5490 139 299 600 2500 1800 2299 5690	BS B	E,O	N N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,6,20 38,8,16 38,6,20 38,36 - 22,10,33 - 22,10,33 - 23,14,40 23,14,49 42,5,23 42,5,29	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit DAC 4 inputs, optional AT&T Matches P-700, 4x20bit 18 bit, balanced output
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1 Teac X-1 Teac X-1S Technics SL-PG360A Technics SL-PG440A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A Technics SL-PS840 Technics SL-PS840 Technics SL-PS840 Technics SL-PS840 Technics SL-PS60A Technics SL-PS60A Technics SL-PS60A Technics SL-PS840 Technic	750 1250 3500 140 170 250 3500 140 170 250 420 250 420 7395 290 300 599 2999	BS BS BS BS MB M M M M M M M M M M M M M	E,O E,O E,O O N N N O O O O O C E,O E,O E,O E,O E,O E,O E,O E,O E,O E,O	Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,34 45,13,33 43,10,33  Size  43,9,28 45,8,36 29,10,32	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU  Outboard power supply  Special  BNC out. Has sync lock input Precision master clock	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-180 Perception DAC Pink Triangle DaCapo Pink Triangle DaCapo Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio UltraLink 2 PS Audio Bret Link QED Positron QED Digit Peference Roksan ATT-DA2 Sentec Diana Teac D-700 Teac D-2 Theta Pro-Prime II Theta Pro Pein III Theta Pro Gen III	600 600 800 320 379 695 790 1450 1500 2650 549 9 139 299 549 900 2500 1800 2299 8500	BS B	E,O	N N N N N N N N N N N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,8,16 38,6,20 38,8,36 - - - - - - - - - - - - -	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit DAC 4 inputs, optional AT&T Matches P-700, 4x20bit 18 bit, balanced output
Teac VRDS-10 Teac VRDS-20 Teac VRDS-20 Teac X-11 Teac X-15 Technics SL-PG360A Technics SL-PG560A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A Technics SL-PS620A Technics SL-PS840 Technics SL-PS000 Wadia 16 Yamaha CDX-670 Yamaha CDX-670 Yamaha CDX-670 Yamaha CDX-1000 YBA 2  Model  ### ### ### ### ### ### ### ### ### #	750 1250 750 1300 140 170 250 180 200 250 420 180 290 300 330 330 599 2999	BS BS BS BS MB M M M M M M M M M M M M M	E,O E,O E,O O N N O O O O O O E,O E,O E,O E,O E,O E,O E,O	Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,34 45,13,33 43,10,33  Size  43,9,28 45,8,36 29,10,32 25,14,39	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x20bit Remote control capable 4-DAC Selected audio parts Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU  Outboard power supply  Special  BNC out. Has sync lock input Precision master clock Heavily modified CDM	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio SuperLink 2 PS Audio Ref Link QED Positron QED Digit Plus QED Digit Plus QED Digit Reference Roksan ATT-DA2 Sentec Diana Teac D-700 Teac D-2 Theta Pro-Prime II Theta Pro Gen III Theta Pro Gen III Theta Pro Gen III Theta Pro Gen V Wadia 12 Wadia 15	600 600 800 320 379 695 790 1450 688 1230 2650 89 139 299 600 2500 2500 2500 2500 2500 3790 3790	BS B	E,O	N N N N N N N N N Y Y	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,8,16 38,6,20 38,8,16 38,6,20 38,36 - 22,10,33 - 22,10,33 - 23,14,40 23,14,40 23,14,40 24,5,29 42,5,29 42,8,34 42,5,29 42,8,34 42,8,34 42,8,34 42,8,34	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers  Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit  Combined 2x Positron/Digit DAC 4 inputs, optional AT&T  Matches P-700, 4x20bit 18 bit, balanced output  AT&T input option
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-17 Teac X-17 Teac X-15 Technics SL-PG360A Technics SL-PG560A Technics SL-PG560A Technics SL-PS620A Technics SL-PS620A Technics SL-PS620A Technics SL-PS640 Technics SL-P	750 1250 750 1250 1250 1250 1250 1250 1250 1250 12	BS BS BS BS MB M M M M M M M M M M M M M	E,O E,O E,O O N N N O O O O O C E,O E,O E,O E,O E,O E,O E,O E,O E,O E,O	Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,12,29 43,13,34 45,13,33 43,10,33  Size  43,9,28 45,8,36 29,10,32 25,14,39	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU  Outboard power supply  Special  BNC out. Has sync lock input Precision master clock Heavily modified CDM Integral platter, layer suspen 'Deltran' clock locking (with	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle DaCapo Pink Triangle DaCapo Pink Triangle DC PS Audio Digit.Ink II PS Audio SuperLink 2 PS Audio Digit.Ink II PS Audio Digit.Ink I	600 600 800 320 339 695 790 1450 1500 688 1230 2650 5490 993 600 2500 1800 2500 1800 2500 1800 2500 1800 4750 4750	BS B	E,0	N N N N N N N N N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,8,16 38,8,16 38,8,16 38,35 - - - - - - - - - - - - -	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit DAC 4 inputs, optional AT&T  Matches P-700, 4x20bit 18 bit, balanced output  AT&T input option  Balanced and AT&T input Software upgradable Balanced output
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1 Teac X-1 Technics SL-PG360A Technics SL-PG360A Technics SL-PG40A Technics SL-PS620A Technics SL-PS620A Technics SL-PS620A Technics SL-PS40A	750 750 750 750 760 770 770 780 790 790 790 790 790 790 790 79	BS BS BS BS MB M M M M M M M M M M M M M	E,O E,O E,O O N N O O O O O O O E,O E,O E,O E,O E,O E,O E	Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,11,30 43,12,29 43,13,34 45,13,33 43,10,33  Size  43,9,28 43,9,28 43,18,36 29,10,32 25,14,39 43,15,33	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x20bit Remote control capable 4-DAC Selected audio parts Centre tray Advanced MASH converter THOB base, R-Core transformer Glass, plastic, BNC & AES/EBU  Outboard power supply  Special  BNC out. Has sync lock input Precision master clock Heavily modified CDM Integral platter, layer suspen 'Deltran' clock locking (with Top load	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio UltraLink 2 PS Audio BigiLink II QED Positron QED Digit Pelus QED Digit Reference Roksan ATT-DA2 Sentec Diana Teac D-700 Teac D-2 Theta Pro-Prime II Theta Pro-Dasic II Theta Pro Gen III Theta Pro Gen V Wadia 12 Wadia 15 Wadia 64 4 Wadia 9	600 600 800 320 339 695 790 1450 1500 2650 5490 299 549 933 600 2299 8500 1530 3790 8500 1530 3790 8750 887 889 139 889 139 889 139 889 139 889 139 889 139 889 139 889 139 889 139 889 889 139 889 889 889 889 889 889 889 889 889 8	BS B	E,0	N N N N N N N N N Y Y	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,8,16 38,6,20 38,8,16 38,6,20 38,36 - 22,10,33 - 22,10,33 - 23,14,40 23,14,40 23,14,40 24,5,29 42,5,29 42,8,34 42,5,29 42,8,34 42,8,34 42,8,34 42,8,34	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit DAC 4 inputs, optional AT&T Matches P-700, 4x20bit 18 bit, balanced output  Balanced and AT&T input Software upgradable
Teac VRDS-10 Teac VRDS-20 Teac X-11 Teac X-15 Technics SL-PG360A Technics SL-PG560A Technics SL-PG560A Technics SL-PS620A Technics SL-PS60A Tech	750 1250 750 1200 770 1300 140 170 250 250 420 250 420 7395 290 300 599 2999	BS BS BS BS MB M M M M M M M M M M M M M	E,O E,O E,O O N N N O O O O O O C E,O E,O E,O E,O E,O E,O E,O E,O E,O E,O	Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,10,29 43,11,30 43,13,34 45,13,33 43,10,33  Size  43,9,28 45,8,36 29,10,32 25,14,39 43,15,33	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x20bit Remote control capable 4-DAC Selected audio parts  Centre tray Advanced MASH converter THCB base, R-Core transformer Glass, plastic, BNC & AES/EBU  Outboard power supply  Special  BNC out. Has sync lock input Precision master clock Heavily modified CDM Integral platter, layer suspen 'Deltran' clock locking (with	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio SuperLink 2 PS Audio BerLink QED Digit Reference Roksan ATT-DA2 Sentec Diana Teac D-700 Teac D-2 Theta Pro-Prime II Theta Pro-Gen III Theta Pro-Fro-Fro-Fro-Fro-Fro-Fro-Fro-Fro-Fro-F	600 600 800 320 379 695 790 1450 688 1230 2650 89 139 99 549 993 600 1800 2299 5690 1800 2299 5690 1800 2500 1800 2500 1800 2500 1800 2500 1800 2500 1800 2500 1800 2500 2500 2500 2500 2500 2500 2500 2	BS B	E,O	N N N N N N N N N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,8,16 38,8,16 38,8,16 38,35 - - - - - - - - - - - - -	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit DAC 4 inputs, optional AT&T  Matches P-700, 4x20bit 18 bit, balanced output  AT&T input option  Balanced and AT&T input Software upgradable Balanced output
Teac VRDS-10 Teac VRDS-20 Teac X-1 Teac X-1 Teac X-1 Teac X-1 Technics SL-PG360A Technics SL-PG360A Technics SL-PG40A Technics SL-PS620A Technics SL-PS620A Technics SL-PS620A Technics SL-PS40A	750 750 750 750 760 770 770 780 790 790 790 790 790 790 790 79	BS BS BS BS MB M M M M M M M M M M M M M	E,O E,O E,O O N N O O O O O O O E,O E,O E,O E,O E,O E,O E	Y	45,15,34, 50,15,34 46,14,40 46,14,40 43,10,29 43,11,30 43,12,29 43,13,34 45,13,33 43,10,33  Size  43,9,28 43,9,28 43,18,36 29,10,32 25,14,39 43,15,33	Twin DAC7, balanced output Twin DAC7, balanced output Balanced out, 4x20bit Balanced out, 4x20bit Remote control capable 4-DAC Selected audio parts Centre tray Advanced MASH converter THOB base, R-Core transformer Glass, plastic, BNC & AES/EBU  Outboard power supply  Special  BNC out. Has sync lock input Precision master clock Heavily modified CDM Integral platter, layer suspen 'Deltran' clock locking (with Top load	Micromega DAC Micromega Duo BS2 Micromega Duo BS2 Micromega Duo BS2 Micromega Duo Pro 2 Mission DAC5 NVA Dacon Orelle DA-188 Orelle DA-188 Orelle DA-180 Perception DAC Pink Triangle Ordinal Pink Triangle DaCapo Pink Triangle DC PS Audio DigiLink II PS Audio SuperLink 2 PS Audio UltraLink 2 PS Audio BigiLink II QED Positron QED Digit Pelus QED Digit Reference Roksan ATT-DA2 Sentec Diana Teac D-700 Teac D-2 Theta Pro-Prime II Theta Pro-Dasic II Theta Pro Gen III Theta Pro Gen V Wadia 12 Wadia 15 Wadia 64 4 Wadia 9	600 600 800 320 379 695 790 1450 688 1230 2650 89 139 99 549 993 600 1800 2299 5690 1800 2299 5690 1800 2500 1800 2500 1800 2500 1800 2500 1800 2500 1800 2500 1800 2500 2500 2500 2500 2500 2500 2500 2	BS B	E,0	N N N N N N N N N N N N	22,5,15 43,28,88 8,28,9 22,28,88 34,48,31 7,11,29 - 22,7,23 44,7,28 - 23,8,35 46,8,35 38,8,16 38,8,16 38,8,16 38,8,16 38,35 - - - - - - - - - - - - -	AES/EBU input AES input Four inputs AES input Outboard DAC, matches DAD5  DC coupled, optical & coax in 2 outputs, twin transformers Interchangable DAC & filter Unique discrete DAC Massive battery PSU for DaCapo  AT&T input option AT&T input Upgrade PSU for Digit Combined 2x Positron/Digit DAC 4 inputs, optional AT&T  Matches P-700, 4x20bit 18 bit, balanced output  AT&T input option  Balanced and AT&T input Software upgradable Balanced output

#### 108 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 (usualIy Coaxial 5/PDIF), O - optical, (usualIy Toslink).

DAC Type - MB - multibit, 1 bit - single bit, BS - Bitstream, DS - Delta Sigma. Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory for full test results.

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.

Impedance - in ohms.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory for full test results.

				Dig.	DAC		
Model	Price	Туре	Dig. In	Out	Туре	Size	Special
DIGITAL RECORDERS	5						
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
Meridian CDR	4500	CD-R	E,0	E	BS in/	-	
Nakamichi 10007	0	DAT	E,0	E,O	MB in/	-	
Philips DCC300	179	DCC	E	Υ	BS in/	36,11,30	
Philips DCC600	199	DCC	E	Υ	BS in/	44,12,30	
Pioneer D-07	1150	DAT	E,0	E,0	-	44,14,38	96kHz record, Legato Link
Sharp MD-M11E	450	MD	-	Υ		8,3,11	Recorder, title generator
Sony MBS501	800	MD	E,0	E,0	BS	43,9,35	Sample rate converter
Sony DTC80ES	800	DAT	E,0	E,0	BS	43,11,55	SBM
Technics RS-DC8	700	DCC	E,0	E,0	BS	43,12,35	

Meridian CDR	4500					-	-		
Nakamichi 10007	0	DAT	E,0	E,	0	MB in/		-	
Philips DCC300	179	DCC	E	Y		BS in/		36,11,30	
Philips DCC600	199	DCC	Е	Y		BS in/		44,12,30	
Pioneer D-07	1150	DAT	E,0	E,	0	-		44,14,38	96kHz record, Legato Link
Sharp MD-M11E	450	MD	-	Y	•	-		8,3,11	Recorder, title generator
Sony MBS501	800	MD	E,0	E.		BS		43,9,35	Sample rate converter
Sony DTC80ES	800	DAT	E,0	E,0		BS		43,11,55	SBM
Technics RS-DC8	700	DCC	E,0	E	0	BS		43,12,35	
		Vi S			=				
					mpedance				
	2	9		Weight	da				
Madel	Price	Type		ght	120		ı,	Sanaia!	
Model HEADPHONES							3	Special	
Aiwa HP-V141	7	Ear		5	1	6		Bass resonator	ducts
Aiwa HP-A160	7	Opn		45	3			Banded, 3.5/6	
Aiwa HP-JB33	8	Opn		18	11		_	Vertical ear fit,	
Aiwa HP-V143	9	Ear	North Control	5	11		-	Bass resonator	
Aiwa HP-A260	9				_		-		resonator ducts
Aiwa HP-V145	10	Opn 54 32				Carrying case			
Aiwa HP-V147	10	Ear 5 16 Ear 5 16				_	Bass resonator		
Aiwa HP-X201	13	Sld		230			_	Dual plug	0000
Aiwa HP-A360	13	Opn		65	4	0	_		resonator ducts
Aiwa HP-X301	20	Sld		230	1.			3m lead, dual	
Aiwa HP-VX303	25	Sld	14/5	230	1-			In-line controls	
Aiwa HP-X705	40	Sld		130	1-			Dual plug, 2m	
AKG K2	23	Opn	1800	70	12	00	-	Mini	
AKG K33	25	Opn		90	5				
AKG K44	42	Opn	90	5		İ			
AKG K135	46	Opn	160		50	1			
AKG K141	74	Opn	225		00				
AKG K240 Monitor	82	Opn	240	6	00				
AKG K270	112	Sld			7	5			
AKG K280 Parabolic	117	Opn			7	5	T		
AKG K400	118	Opn	250	1	20				
AKG K270 Studio	121	Sld		250	7	5			
AKG K500	138	Opn		250	1	20			
AKG K340	191	Opn		380	4	400			
AKG K1000	646	Opn		270	1	120			
Audio Technica ATH-309	36	Opn		140	3	30			
Audio Technica ATH-M4X	39	Opn		140		30			
Audio Technica ATH-909	60	Opn	-	200	_	600 600			
Audio Technica ATH-01	80	Opn		200	_				
Audio Technica ATH-910	90	Sld		200		00	1		
Audio Technica ATH-900	245	Opn		240	3				
Beyer DT211	33	Opn		120	4				
Beyer DT311	49	Opn		124	4				
Beyer DT331	59	Opn		210	4				
Beyer DT411	69	Opn		120	_	50			
Beyer DT431	89	Opn		210	4				
Beyer DT511 Beyer DT990	99 119	Opn		200	_	50	+		
Beyer DT531	129	Opn Opn		245		600			
Beyer DT100	135	Sld		350		250 600			
Beyer DT801	159	Sld		250					
Beyer IRS790	179	Opn		270	1	250		Cordless infra-	red
Beyer DT811	179	Opn		245	2	250		our unboo IIIII d	.00
Bever DT770 Pro	185	Sld		250		250 600			
Beyer IRS890	199	Opn		270	_	00	1		
Beyer DT990 Pro	199	Opn		230	Marie Marie	00	1		
Beyer DT901	199	Sld		280	-	50	1		
Beyer DT911	219	Opn		275		50			
Grado Prestige SR60	90	Opn		-	4		1		
Grado Prestige SR80	125	Opn		-	4				
Grado Prestige SR100	175	Opn		-	4		İ		
Grado Prestige SR200	230	Opn		-	4	0			
Grado Prestige SR300	320	Opn		-	4	0			
Grado Signature HP3	410	Opn			4		I		
Grado Signature HP2	510	Opn		-	4				
Grado Signature HP1	615	Opn		-	4		I		
Jecklin Float Model 1	75	Opn		400		00			
Jecklin Float Model 2	99	Opn		400		00	ļ		
Jecklin Float ELS	399	Opn		600 8		Electrostatic			
JVC HA-M3	6	Sld		33	3			1.2m dual plug	
JVC HA-F15	9	Opn		6 16 N		Mini 1.2m, 3.5			
JVC HA-X55	12	Sld		45	3			2m dual plug l	
JVC HA-D410	15	Sld		90	3			2m, 3.5/6.3m	
JVC HA-X77	16	Sld		40	3			2m dual plug l	
JVC HA-F35	16	Opn		6	3			Mini 1.2m, 3.5	
JVC HA-X99	17	Sld		50	3		1000	2m dual plug l	
JVC HA-D510	20	Sld		110	3			3m, 6.3/3.5m	
JVC HA-D610	25	Sld	No.	120	3			3m, 6.3/3.5m	
JVC HA-D690	40 55	Sld Sld		220	3		3m, 6.3/3.5mjacks 3m, 6.3/3.5mjacks		
JVC HA-D710 JVC HA-D910		Sld		220	3			3m, 6.3/3.5m	
040 IW-DAID	00	Old		1220	13	L		om, 0.0/0.0III	uond

Weight - without cable.   Weight - without - without cable.   Weight - without cable.   Weight - without cable.   Weight - without - w		/	Ear - in-ear m	iodel.	a red cordless	
MAD   MAD	$\overline{}$		weight - with	lout cable.		
MICHAPTION   Solid		Pric	Į.	Weigl	Impedanc	
JUNCHAPO   1000		ĕ	ĕ	#	in the	Special
Semwood KH-757		250	Sld	340	32	5m, 6.3/3.5mjacks
Verwood KH-1000	Kenwood KH-535			12 S. 1		
Kenwood KH-959  Kenwood KH-900  70  Sid  200  32  2.5m OFC lead  Kenwood KH-900  70  Sid  200  32  2.5m OFC lead  Kenwood KH-900  70  Sid  200  32  2.5m OFC lead  Kenwood KH-900  70  Sid  200  32  2.5m OFC lead  Kenwood KH-900  70  Sid  200  32  2.5m OFC lead  Coss HP/1  60  60  60  60  60  60  60  60  60  6		_		-		
Kemwood KH-2020		_		30		
Kernwood KH-5000				210		
Koss HP/3         7         Ear         5         27           Koss HP/5         11         Ear         12         28           Koss HP/6         15         Opn         75         92           Koss TD60         15         Opn         55         90           Koss TD65         45         SId         150         27           Koss D65         45         SId         150         27           Koss D775         59         SId         150         27           Koss D775         59         SId         330         150           Koss D787         10         65         60         0           Koss D787         10         65         60         0           Koss MAC7         65         Sid         160         60           Koss MAC8         115         Cld         250         100           Koss JCK200         195         Sid         240         100         Cordless infra-red           Koss JCK300         350         Sid         240         100         Cordless infra-red           Koss JCK300         350         Sid         240         100         Cordless infra-red						2.5m of o lead
Koss HP/6         15         Opn         75         92           Koss HP/7         20         Opn         55         90           Koss 1000         29         Sld         150         27           Koss 1056         45         Sld         150         100           Koss MACS         45         Opn         60         0           Koss Porta Pro Jin         59         Sld         330         150           Koss Porta Pro Jin         59         Sld         330         150           Koss Porta Pro Jin         60         Opn         65         60           Koss Pro 480         115         Cld         250         100           Koss Pro 4AA         129         Sld         420         100         Cordless infra-red           Koss SC SCX300         195         Sld         240         100         Cordless infra-red           Koss SC SCX3030         350         Sld         240         100         Cordless infra-red           Koss SC SCX200         195         Sld         240         100         Cordless infra-red           Koss SC Sc Sc Sc Spenso         1995         Opn         350         -         Electrostate <t< td=""><td></td><td>_</td><td>CONTRACTOR CONTRACTOR SANCTOR</td><td>-</td><td></td><td></td></t<>		_	CONTRACTOR CONTRACTOR SANCTOR	-		
Coss HP/7	Koss HP/5	11	Ear	12	28	
Score   Scor	Koss HP/6	15	Opn	75	92	
Koss TD65         45         Sld         150         100         60           Koss MAC5         45         Opn         100         60           Koss Porta Pro Jur         59         Qpn         65         60           Koss Porta Pro Jur         65         Opn         65         60           Koss Porta Pro 200         65         Opn         65         60           Koss Porta Pro 200         95         -         -         -           Koss Pro 4AA         129         Sld         425         230           Koss JCX300         350         Sld         240         100         Cordless infra red           Koss SP9950         195         Opn         350         -         Electrostatic           Maxell EB125         4         Ear         15         32         Stereo ear buds           Maxell HP-100         4         Ear         15         32         Stereo ear buds           Maxell HP-200         5         Opn         30         32         Replacatile pads, 1m lead           Maxell HP-300         8         Ear         25         32         Water resistant           Maxell HP-300         8         Ear         25		_				
Koss MACS         45         Opn         100         60           Koss ToXFS         59 Sid         330         150           Koss Porta Pro Inr         69         Opn         65         60           Koss MACT         65         Opn         65         60           Koss MACT         65         Sid         160         60           Koss Pro 480         115         Cld         250         100           Koss Pro 48A         129         Sid         240         100         Cordless infra-red           Koss JCK200         195         Sid         240         100         Cordless infra-red           Koss JCK2300         350         Sid         240         100         Cordless infra-red           Koss JCK2300         350         Sid         240         100         Cordless infra-red           Koss JCK2300         350         Sid         240         100         Cordless infra-red           Koss JCK3300         350         Sid         240         100         Cordless infra-red           Maxell BB125         4         Ear         13         32         Steree ear buds           Maxell BB126         8         Ear         4		_				
Coss   D75   59   Sid   330   150	and the second s	_				
Koss Porta Pro 1 nr         59         Opn         65         60           Koss Porta Pro 1 nr         65         Opn         65         60           Koss Pro 14P nr         65         Std         160         60           Koss Pro 14P nr         115         Cld         250         100           Koss Pro 14P nr         115         Cld         250         100           Koss Pro 14P nr         115         Cld         250         100           Koss Pro 14P nr         115         Std         240         100         Cordless infra red           Koss LOX300         350         Std         240         100         Cordless infra red           Koss LOX300         350         Storeo arbuds         Maxell EB25         4         Ear         15         32         Stereo aer buds           Mazell BE25         4         Ear         15         32         Water resistant           Mazell HP-200         5         Opn         30         32         Replacable pads, 1m lead           Mazell HP-200         8         Ear         4         21         Stereo ear buds, minder case           Mazell HP-200         8         Ear         4         32         With po		_				
Coss Porta Pro 1         65         Opn         65         Go           Koss MAC7         65         Std         160         60           Koss Pro 480         115         Cid         250         100           Koss Pro 44A         129         Sid         425         230           Koss JCK200         195         Sid         240         100         Cordless infra-red           Koss SCM300         350         Sid         240         100         Cordless infra red           Koss SCM5030         350         Sid         240         100         Cordless infra red           Koss SCM5030         350         Sid         240         100         Cordless infra red           Koss SCM5030         350         Sid         240         100         Cordless infra red           Maxell HP-100         4         Ear         15         32         Stereo ar buds           Maxell HP-200         5         Opn         30         32         Replacable pads, Im lead           Maxell HP-300         8         Ear         25         32         Water resistant           Maxell HP-300         8         Ear         4         32         With pouch, 6/3/3.5mm fit		-	The second secon			
Koss MAC7         65         Sid         160         60           Koss Prot Pro 2000         95         -         -         -           Koss Pro 4AA         129         Sid         425         230         Cordless infra-red           Koss JCK200         195         Sid         240         100         Cordless infra red           Koss JCK300         350         Sid         240         100         Cordless infra red           Koss JCK300         350         Sid         240         100         Cordless infra red           Koss JCK300         350         Sid         240         100         Cordless infra red           Koss SCK3000         350         Sid         240         100         Cordless infra red           Maxell BE25         4         Ear         15         32         Stereo ear buds, minder           Maxell BE25         8         Ear         44         21         Stereo ear buds, minder case           Maxell HP-400         8         Ear         4         32         With pouch, 6/3/3.5mm fit           Maxell HP-400         8         Ear         4         32         With pouch, 6/3/3.5mm fit           Maxell HP-700         10         Opn						
Coss Prot 4P0 2000					-	
Koss Pro 480         115         Cld         250         100           Koss Pro 4AA         129         Sld         425         230           Koss JCK300         195         Sld         240         100         Cordless infra-red           Koss LCK300         350         Sld         240         100         Cordless infra red           Koss LCK300         350         Sld         240         100         Cordless infra red           Koss LCK300         350         Lectrostatic         Lectrostatic           Maxell EB25         4         Ear         15         32         Stereo ear buds, Im lead           Maxell HP-200         5         Opn         30         32         Replacable pads, 1m lead           Maxell HP-200         8         Ear         25         32         Water resistant           Maxell HP-300         8         Ear         4         32         With pouch, 6/3/3.5mm fit           Maxell HP-400         8         Ear         4         32         Water resistant           Maxell HP-500         10         Opn         56         22         Adjustable locking headband           Maxell HP-500         13         Opn         56         22         <		-	- 1 - 1	1-		
Sid   240   100   Cordless infra-red		115	Cld		100	
Koss JCK300         350         SId         240         100         Cordless infra red           Koss ESP950         1995         Opn         350         -         Electrostatic           Maxell EB125         4         Ear         15         32         Stereo ear buds           Maxell HP-100         4         Ear         3         32         Replacable pads, Im lead           Maxell HP-200         5         Opn         30         32         Replacable pads, Im lead           Maxell HP-400         8         Ear         44         21         Stereo aer buds, minder case           Maxell HP-400         8         Ear         25         32         Water resistant           Maxell HP-400         8         Ear         13         32         Water resistant           Maxell HP-700         10         Opn         56         22         Adjustable locking headband           Maxell HP-700         10         Opn         56         22         Adjustable locking headband           Maxell HP-300         15         Opn         45         32         2.7m lead, 6.3/3.5mm fit           Maxell HP-3000         30         36d         120         32         Volume control digital ready		-	Value of the last			
Maxell HP-100   4   Ear   15   32   Stereo ear buds		_				
Maxell HP-100         4         Ear         15         32         Stereo ear buds           Maxell HP-200         4         Ear         3         32         Replacable pads, 1m lead           Maxell HP-200         5         Opn         30         32         Replacable pads, 1m lead           Maxell HP-200         8         Ear         44         21         Stereo ear buds, minder case           Maxell HP-400         8         Ear         25         32         Water resistant           Maxell HP-400         8         Ear         4         32         With pouch, 6/3/3.5mm fit           Maxell BS150         8         Ear         13         32         Water resistant           Maxell BS25         9         Ear         13         32         Water resistant           Maxell BS25         10         Ear         13         32         Stereo ear buds, minder case           Maxell HP-700         10         Opn         56         22         Adjustable locking headand           Maxell HP-700         15         Opn         95         32         2.7m lead, 63/3.5mm fit           Maxell HP-2000         30         Sed         120         32         Volume control digital ready		_	NAME OF TAXABLE PARTY.		100	
Maxell HP-100         4         Ear         3         32         Replacable pads, 1m lead           Maxell HB-200         5         Opn         30         32         Replacable pads, 1m lead           Maxell HBS150         8         Ear         44         21         Stereo ear buds, minder case           Maxell HBS150         8         Ear         25         32         Water resistant           Maxell HP-400         8         Ear         4         32         With pouch, 6/3/3.5mm fit           Maxell BBS325         9         Ear         13         32         Water resistant           Maxell HP-700         10         Opn         56         22         Adjustable locking headband           Maxell HP-700         10         Opn         56         22         Adjustable locking headband           Maxell HP-1000         15         Opn         95         32         2.7m lead, 63/3 5mm fit           Maxell HP-2000         10         Opn         45         32         2.7m lead, 63/3 5mm fit           Maxell HP-3000         30         Sed         120         32         2.7m lead, 63/3 5mm fit           Maxell HP-3000         30         Sed         120         32         2.7m lead, 63/3 5mm					-	i
Maxell HP-200         5         Opn         30         32         Replacable pads, 1m lead           Maxell BB250         8         Ear         44         21         Stereo ear buds, minder case           Maxell HBS150         8         Ear         45         32         Water resistant           Maxell HP-400         8         Ear         4         32         With pouch, 6/3/3.5mm fit           Maxell BB325         9         Ear         13         32         Stereo ear buds, minder case           Maxell HP-700         10         Opn         56         22         Adjustable locking headband           Maxell HP-500         13         Opn         45         32         2.7m lead, 6.3/3.5mm fit           Maxell HP-1000         15         Opn         95         32         2.7m lead, 6.3/3.5mm fit           Maxell HP-2000         30         Opn         45         32         2.7m lead, 6.3/3.5mm fit           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         32         2.7m lead, digital		_	The second secon			
Maxell FB255         8         Ear         44         21         Stereo ear buds, minder case           Maxell HB5150         8         Ear         25         32         Water resistant           Maxell HP-400         8         Ear         4         32         With pouch, 6/3/3.5mm fit           Maxell B5325         9         Ear         13         32         Water resistant           Maxell HP-700         10         Opn         56         22         Adjustable locking headband           Maxell HP-500         13         Opn         45         32         2.7m lead, 6.3/3.5mm fit           Maxell HP-1000         15         Opn         95         32         2.7m lead, 6.3/3.5mm fit           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32 <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td></t<>		-				
Maxell HBS150         8         Ear         25         32         Water resistant           Maxell EBS325         9         Ear         4         32         With pouch, 6/3/3.5mm fit           Maxell EBS325         9         Ear         13         32         Water resistant           Maxell EBS255         9         Ear         13         32         Water resistant           Maxell EP-700         10         Opn         56         22         Adjustable locking headband           Maxell HP-700         10         Opn         56         22         Adjustable locking headband           Maxell HP-1000         15         Opn         45         32         2.7m lead, 6.3/3.5mm fit           Maxell HP-2000         20         Opn         140         32         2.7m lead, 6.3/3.5mm fit           Maxell HP-3000         30         Sed         120         32         2.7m lead, 6.3/3.5mm fit           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         30         2m OFC cable           Pioneer		-				
Maxell HP-400         8         Ear         4         32         With pouch, 6/3/3.5mm fit           Maxell EBS325         9         Ear         13         32         Water resistant           Maxell HP-700         10         Opn         56         22         Adjustable locking headband           Maxell HP-500         13         Opn         45         32         2.7m lead, 6igfal ready           Maxell HP-1000         15         Opn         95         32         2.7m lead, digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         30         2m OFC cable         2m OFC cable           Pioneer SE-5         16         Opn         60         30         2m OFC cable           Pioneer SE-32         25         Opn         104         40         2.5 OFC cable <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>		-				
Maxell EB425         10         Ear         13         32         Stereo ear buds, minder case           Maxell HP-700         10         Opn         56         22         Adjustable locking headband           Maxell HP-500         13         Opn         45         32         2.7m lead, 6.3/3.5mm lit           Maxell HP-1000         15         Opn         95         32         2.7m lead, digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         20         30         30         20         30         20           Pioneer SE-30         20         30		_		_		
Maxell HP-700         10         Opn         56         22         Adjustable locking headband           Maxell HP-500         13         Opn         45         32         2.7m lead, 6.3/3.5mm fit           Maxell HP-1000         15         Opn         95         32         2.7m lead, 6.3/3.5mm fit           Maxell HP-2000         20         Opn         140         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Valvagil HP-3000         30         Sed         120         32         Volume control digital ready           Valvagil HP-3000         30         Sed         120         32         Volume control digital ready           Valvagil HP-3000         30         Sed         120         32         Volume control digital ready           Valvagil HP-3000         30         Sed         120         32         Volume control digital ready           Valvagil HP-3000         30         Sed         120         32         Volume control digital ready           Valvagil HP-3000         30         Sed         120         29         48         25         07         26         26         30         3	Maxell EBS325	9	Ear	13	32	Water resistant
Maxell HP-500         13         Opn         45         32         2.7m lead, 6,3/3.5mm fit           Maxell HP-1000         15         Opn         95         32         2.7m lead, digital ready           Maxell HP-2000         20         Opn         140         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         45         32         Volume control digital ready           Maxell HP-3000         30         30         25         20         25         20         20         25         20	Maxell EB425	10	Ear	13	32	Stereo ear buds, minder case
Maxell HP-1000         15         Opn         95         32         2.7m lead, digital ready           Maxell HP-2000         20         Opn         140         32         Volume control digital ready           Maxell HP-2000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         45           Pioneer SE-5         16         Opn         60         30         2m OFC cable           Pioneer SE-15         20         Opn         65         30         2m OFC cable           Pioneer SE-32         23         Opn         94         40         2.5 OFC cable           Pioneer SE-52         25         Opn         65         30         5m OFC cable           Pioneer SE-15V         30         Opn         65         30         5m CC cable           Pioneer SE-4000         37         Sld         185         35         3m cable, dual bass horn           Pioneer SE-4000         48         Sld         175         35         3m cable, dual bass horn           Pioneer SE-7000	Maxell HP-700	10	Opn			Adjustable locking headband
Maxell HP-2000         20         Opn         140         32         Volume control digital ready           Maxell HP-3000         30         Sed         120         32         Volume control digital ready           Valkamitchi SP7         70         Opn         150         45         Volume control digital ready           Pioneer SE-5         16         Opn         60         30         2m OFC cable           Pioneer SE-15         20         Opn         65         30         2m OFC cable           Pioneer SE-32         23         Opn         94         40         2.5 OFC cable           Pioneer SE-32         25         Opn         104         40         2.5 OFC cable           Pioneer SE-3300         35         Sid         165         30         5m OFC cable           Pioneer SE-3300         35         Sid         165         35         3m cable, bass boost duct           Pioneer SE-3000         37         Sid         185         35         3m cable, dual bass horn           Pioneer SE-3000         48         Sid         175         35         3m cable, dual bass horn           Pioneer SE-3000         60         Sid         180         35         3m cable, dual bass horn		-	Opn			
Maxell HP-3000   30   Sed   120   32   Volume control digital ready		_				
Nakamichi SP7		_				
Pioneer SE-5         16         Opn         60         30         2m OFC cable           Pioneer SE-15         20         Opn         65         30         2m OFC cable           Pioneer SE-32         23         Opn         94         40         2.5 OFC cable           Pioneer SE-52         25         Opn         104         40         2.5 OFC cable           Pioneer SE-15V         30         Opn         65         30         5m OFC cable           Pioneer SE-300D         35         Sid         185         35         3m cable, bass boost duct           Pioneer SE-400D         37         Sid         185         35         3m cable, dual bass born           Pioneer SE-500D         48         Sid         175         35         3m cable, dual bass born           Pioneer SE-700D         60         Sid         180         35         3m cable, dual bass born           Pioneer SE-700D         60         Sid         180         35         3m cable, dual bass born           Pioneer SE-700D         60         Sid         180         35         3m cable, dual bass born           Ross RE-233         5         Opn         25         8         Micro           Ross RE-		_	Control of the Contro			Volume control digital ready
Prioneer SE-15         20         Opn         65         30         2m OFC cable           Prioneer SE-32         23         Opn         94         40         2.5 OFC cable           Prioneer SE-52         25         Opn         104         40         2.5 OFC cable           Prioneer SE-15V         30         Opn         65         30         5m OFC cable           Prioneer SE-30D         35         Sid         165         35         3m cable, bass boost duct           Prioneer SE-400D         37         Sid         185         35         3m cable, dual bass horn           Prioneer SE-700D         60         Sid         180         35         3m cable, dual bass horn           Prioneer SE-700D         60         Sid         180         35         3m cable, dual bass horn           Ross RE-233         5         Opn         25         8         Micro           Ross RE-233         6         Opn         25         8         Micro           Ross RE-233         6         Opn         5         16         Personal stereo           Ross RE-234         6         Opn         5         16         Personal stereo           Ross RE-230         6		-	Control of the Contro			2m OFC cable
Pioneer SE-32         23         Opn         94         40         2.5 OFC cable           Pioneer SE-52         25         Opn         104         40         2.5 OFC cable           Pioneer SE-15V         30         Opn         65         30         5m GFC cable           Pioneer SE-330D         35         Std         165         35         3m cable, bass boost duct           Pioneer SE-400D         37         Std         185         35         3m cable, dual bass horn           Pioneer SE-500D         48         Std         175         35         3m cable, dual bass horn           Pioneer SE-700D         60         Std         180         35         3m cable, dual bass horn           Pioneer SE-700D         60         Std         180         35         3m cable, dual bass horn           Pioneer SE-700D         60         Std         180         35         3m cable, dual bass horn           Pioneer SE-700D         60         Std         180         Micro         4m date         4m date <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>		-				
Prioneer SE-52         25         Opn         104         40         2.5 OFC cable           Prioneer SE-15V         30         Opn         65         30         5m OFC cable           Prioneer SE-30D         35         Std         165         35         3m cable, bass boost duct           Prioneer SE-400D         37         Std         185         35         3m cable, dual bass horn           Prioneer SE-700D         48         Std         175         35         3m cable, dual bass horn           Prioneer SE-700D         60         Std         180         35         3m cable, dual bass horn           Prioneer SE-700D         60         Std         180         35         3m cable, dual bass horn           Prioneer SE-700D         60         Std         180         35         3m cable, dual bass horn           Prioneer SE-700D         60         Std         180         35         3m cable, dual bass horn           Prioneer SE-7233         5         Opn         25         8         Micro           Ross RE-233         6         Opn         5         16         Personal stereo           Ross RE-234         6         Opn         5         16         Personal stereo		•	The second secon	The second secon	-	
Prioneer SE-15V         30         Opn         65         30         5m OFC cable           Prioneer SE-300D         35         Sid         165         35         3m cable, bass boost duct           Prioneer SE-400D         37         Sid         185         35         3m cable, dual bass horn           Prioneer SE-700D         48         Sid         175         35         3m cable, dual bass horn           Prioneer SE-700D         60         Sid         180         35         3m cable, dual bass horn           Ross RE-233         5         Opn         25         8         Micro           Ross RE-233         6         Opn         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-234         6         Opn         5         16         Personal stereo           Ross RE-239         6         Opn         5         8         Personal stereo           Ross RE-2030         6         Opn         5         8         Personal stereo           Ross RE-280         7		_				
Proneer SE-400D         37         Std         185         35         3m cable, dual bass horn           Proneer SE-500D         48         Std         175         35         3m cable, dual bass horn           Proneer SE-700D         60         Std         180         35         3m cable, dual bass horn           Ross RE-233         5         Opn         25         8         Micro           Ross RE-233         6         Opn         25         8         Micro           Ross RE-235         6         Opn         5         16         Personal stereo           Ross RE-234         6         Opn         5         16         Personal stereo           Ross RE-234         6         Opn         5         16         Personal stereo           Ross RE-229         6         Opn         5         8         Folding           Ross RE-220         6         Opn         5         8         Personal stereo           Ross RE-280         7         Ear         10         16         Vertical inner ear           Ross RE-280         7         Ear         10         16         Vertical inner ear           Ross RE-223         7         Std         155	Pioneer SE-15V	30	Let's from the work of the state of the stat	65	30	5m OFC cable
Pioneer SE-500D         48         Std         175         35         3m cable, dual bass horn           Pioneer SE-700D         60         Sld         180         35         3m cable, dual bass horn           Ross RE-233         5         Opn         25         8         Micro           Ross RE-233         5         Opn         25         8         Micro           Ross RE-235         6         Opn         5         16         Inner ear headphone           Ross RE-234         6         Opn         5         16         Personal stereo           Ross RE-229         6         Opn         5         8         Folding           Ross RE-230         6         Opn         5         8         Folding           Ross RE-230         6         Opn         5         8         Personal stereo           Ross RE-230         7         Opn         51         8         Lightweight           Ross RE-280         7         Ear         10         16         Vertical inner ear           Ross RE-223         7         Sid         155         8         Stereo/mono           Ross RIH-360CD         9         Opn         48         16         <	Pioneer SE-330D	35	Sld	165	35	3m cable, bass boost duct
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Sennheiser HD535         90         Opn         255         150         3m lead, 3.5/6.3mm		-	Opn			3m lead, 3.5/6.3mm
Sennheiser HD545 Reference110         Opn         255         150         3m lead, 3.5/6.3mm						
Sennheiser Set 90/UK 130 Ear 40 - Mono, infra-red cordless		_		The second second		
Sennheiser HD565 Ovation         130         Opn         255         150         3m lead, 3.5/6.3mm           Sennheiser HD265 Linear         130         Sld         260         150         Closed back						

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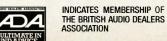
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Weight - without cable.

Impedance - in ohms.

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1ype - 2x, 3x etc - number of independent drive units, Pt - ported, IB sealed, Active - dedicated active
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- subwoofer, Uni-Q - KEF prop. coaxial
drive unit, Horn - horn loading, MC
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bass/ESL or ribbon top.

Sens - output at given power input level. Impedance - in ohms. Power - maxi-mum 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 for full test results.

Model	Price	Туре	Weight	Impedance	Special
HEADPHONES	w			O .	оросна
Sennheiser IS450	150		160	-10	Infra-red cordless - hi-fi
Sennheiser Set 180/UK	150	Ear	43	2	Stereo infra-red cordless
Sennheiser IS550	180	- 10	170	-	Infra-red cordless
Sennheiser HD 580 Precis		Opn	260	300	Flagship model
Sennheiser Charleston	225	Opn	210	140	3m lead, dual plug, leather tr
Sennheiser IS850	830	9/5 (0/19/5)	330	-	Digital audiophile infra-red
Sennheiser HE60/HEV70	998	Opn	MANAGEMENT CONTRACTOR OF THE PARTY OF THE PA		Electrostatic with energiser
Sennheiser Orpheus	9652	Opn	365	-	Electrostatic, valve energiser
Sony MDR-E505	8	Ear Ear	5		Supplied soft case  1m lead, mini plug
Sony MDR-E515EX 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-A009	12	Opn			-
Sony MDR-E515V	12	Ear	5	9790000	1m lead, mini plug
Sony MDR-V50	13	Sld	- 1	-	-
Sony MDR-E525	15	Ear	5	20.00	1m lead, mini plug
Sony MDR-24	15	Opn			7m, 3.5/6.3mm plug
Sony MDR-25	16	OPN		- 110	
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-35	20	OPN			0 0.5/0.0
Sony MDR-CD30	20	Sld	-		2m, 3.5/6.3mm plug
Sony MDR-E747MP	20	Ear Sld	6 180	24	1.2m lead, mini plug
Sony MDR-CD50 Sony MDR-5747	20	Ear	6	-	2m, 3.5/6.3mm plug 1.2m lead, mini plug
Sony MDR-P1TV	22	Sld	0	Parties and the	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-IF210	50	IR	170		Extra h/phone w/o transmitter
Sony MDR-CD550	60	Sld	270	45	3m, 3.5/6.3mm plug
Sony MDR-D33	70	Sld	120	45	1.5m, 3.5/6.3mm plug
Sony MDR-IF210K	80	IR	170		Seven meter range infra red
Sony MDR-D55	90	Sld	120	45	1.5m, 3.5/6.3mm plug
Sony 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	5-	Seven meter range infra-red
Sony MDR-CD1000	200	Sld	330	45	1.5m, 3.5/6.3mm plug
Stax SR34	169	Opn	170		Electrostatic
Stax SR Gamma	239	Opn	300		Electrostatic
Stax SR84 . Stax SR Lambda	259 349	Opn Opn	160 325		Electrostatic Electrostatic
Stax Gamma Pro	399	Opn	300	Section Section 1	Electrostatic
Stax Lambda Pro	449	Opn	325		Electrostatic
Stax Lambda Sig	549	Opn	325	200	Electrostatic
Technics RP-HT77	30	Sld	150	32	3m lead
Technics RP-HT86	40	Sld	150	35	3m lead
Technics RP-HT116	60		190	35	3m lead
Technics RP-F10	100		300	32	3m lead
Technics RP-F30	180	Sld	340	32	3m lead
Vivanco SR35 Micro	12	Ear	4	18	For personal stereos
Vivanco SR65 Mini	13	THE RESIDENCE OF THE PARTY OF T	30	32	For portable CD players
Vivanco SR25 Micro	14	Ear	4	18	Includes case
Vivanco SR45 Micro	15	Ear			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 Vivanco IR900	70 70	Opn Opn	285 235	600	Remote control lead, all plugs Infra-red cordless
Vivanco SR10001/1FL	110	Opn	265	100	In-front localisation
Vivanco SR9001s	120	Opn	280	-	Infra-red cordless
	120				
Model	Price	Sens Type	Power	Size	Special

Model	Price	Туре	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS			MODE STATE				· · · · · · · · · · · · · · · · · · ·
Acoustic Energy Aegis 1	452	2x Pt	86	8	150	21,39,26	Stand mount, metal cone
Acoustic Energy Aegis 2	799	2x Pt	86	8	200	33,106,26	Floor, reflex, metal cone
Acoustic Energy AE1	870	2x Pt	88	8	200	26,30,18	Metal dome/cone, solid enc
Acoustic Energy AE2	1175	2x Pt	91	6	200	24,40,32	Twin bass, metal cone
Acoustic Energy AE3	1650	3x Pt	87	4	250	37,27,63	Simplified metal dome/cone
Advent Mini	99	- 5 4	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	4	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

Vivanco SR10001/1FL	110	Opn	200	265	100	In-fr	ront localisation	B&O Beovox CX50	285	2x IB	89	6	100	12,21,21	
Vivanco SR9001s	120	Opn		280	-	Infra	a-red cordless	B&O Beovox CX100	395	2x IB	89	6	200	12,32,21	
				I BORNOON				B&O Beovox RL6000	435	3x	87	8	100	41,54,18	Simplified RL7000
				=			91	B&O Beovox 4500	450	2x Pt	87	8	90	45,38,8	
				pe				B&O Beovox RL7000	665	3x	88	8	200	50,70,24	Twin bass
	P.	Туре	Se	dance	Power		,	B&O Beolab 4500	1125	Active	-	-	45	45,38,8	Attaches to wall, display
Model	8	26	3	8	er	Size	Special	B&O Beolab 6000	1350	Active	0.00		80	20,110,21	Column, two amps, shielded
LOUDSPEAKERS								B&O Beolab 8000	2025	Active	-201	-	100	15,132,15	Column, two built in amps
Acoustic Energy Aegis 1		2x Pt	86	8	150	21,39,26	Stand mount, metal cone	B&O Beolab Penta 3	2375	Active	-		150	22,165,34	Line array column, three-way
Acoustic Energy Aegis 2	799	2x Pt	86	8	200	33,106,26	Floor, reflex, metal cone	B&W Solid Team	140	Pt	87	4	75	14,20,14	White & black finish
Acoustic Energy AE1		2x Pt	88	8	200	26,30,18	Metal dome/cone, solid enc	B&W Centrale	150	Pt	89	8	150	17,24,17	
Acoustic Energy AE2		2x Pt	91	6	200	24,40,32	Twin bass, metal cone	B&W CWM5	150	2x	89	8	70	16,22,7	In wall
Acoustic Energy AE3	1650	3x Pt	87	4	250	37,27,63	Simplified metal dome/cone	B&W Solid Team Bass	160	Sub	91	4	100	20,45,34	White & black finish
Advent Mini	99	2 8 1	88	8	120	16,28,14	Bookshelf/stand mount	B&W 2002	160	Pt	87	4	80	18,35,20	Budget hi-fi range, black ash
Advent Baby 2		2x	89	8	75	26,39,15	Bookshelf/stand mount	B&W DM600i	190	2x IB	87	4	100	21,36,25	Stand/shelf mount "
Advent Graduate	219	2x	89	8	210	28,44,17	Bookshelf/stand mount	B&W 2003	190	Pt	89	4	100	20,43,24	Budget hi-fi range, black ash
Advent Prodigy	299	-	89	8	300	24,68,20	Floor standing, free space	B&W CWM6	220	2x	89	8	70	23,32,8	In wall
Advent Legacy 2	349	4	90	8	500	38,67,22	Floor standing, free space	B&W Solid Twin Bass	230	Sub	91	4	150	45,20,60	White & black finish
Advent Laureate	499		90	8	500	21,80,29	Floor standing, free space	B&W DM610i	250	2x IB	89	4	150	24,49,31	Stand/shelf mount
Advent Heritage	579	-	90	8	600	25,89,31	Floor standing, free space	B&W CWM8	250	2x	90	4	100	28,38,9	In wall
Allison AL100	100	2x	90	4	150	33,24,19	Boundary, stand mount	B&W 2004	250	Pt	91	4	120	20,65,24	Budget hi-fi range, black ash
Allison AL105	170	2x	90	4	150	24,37,21	Boundary, stand mount	B&W Solid Verticale	400	Sat/su	88	4	100		Lifestyle, 3 boxes
Listings marked in re	d (ac ch	own ho	low) ar	o cove	rod in th	o Hi-Ei Choi	ca Directory	B&W DM620i	430	2x ABF	90	4	150	24,75,31	Floor standing
Allison AL100		2x	90	A	150	33,24,19	Boundary, stand mount	B&W DM630i	700	3x Pt	91	4	200	24,85,41	Floor standing
AIIISUIT AL TUU	100	۷,	90	4	130	33,24,19	boundary, stand mount	B&W Matrix 805 V/H	895	Pt	87	8	120	33.33.21	Outhoard tweeter (vert/horiz)

		bass/	ESL or ri	bbon	top.		
Model	Price	Туре	Sens	Impedance	Power	Size	Special
Allison MS200	220		- 90	4	75	13,25,14	Boundary, stand mount
	220	POST CONTRACTOR OF THE PARTY OF	90	4	150		Floor standing, free space
Allison AL110	- 280	-	90	4	150	24,40,23	
Allison AL115 Allison CD6	300		90	4	150	28,51,26	Boundary, stand mount
	_	Total Control Control		ATTENDED AND THE		29,29,29	Cuboid, wall mount
Allison CD7	380	6-10-	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	95-AN (2018)	87	6	400	53,122,31	Floor standing, free space
AMC WM50	120	100000	86	8	60	19,28,7	Ceiling mount
AMC WM75	160		86 86	8	100	22,30,9	Ceiling mount
AMC WM100	210	Ribbon	86		100	26,36,10 71,194,86	Ceiling mount Three way ribbon, active sub
Apogee Grand	1345		88	4	100		
Apogee Centaur Minor	_		THE RESERVE AND ADDRESS.	-	-	30,88,20	Ribbon/dynamic
Apogee Ribbon Wall	1750			4	ETOTO PORTON	27,120,7	Ribbon/dynamic
Apogee Centaur	2300	Hybrid		-	150	33,102,25	Ribbon/dynamic
Apogee Slant 6	2400	Hybrid	88			- 00 00 55	Ribbon tweeter, dynamic bass
Apogee CDD Subwoofer	3490			-	-	63,38,55	Active moving coil sub
Apogee Stage Sub	3645	MC	86		10.20	58,25,42	Active moving coil sub
Apogee Slant 8	3700	Hybrid	88				Ribbon treble, dynamic mass
Apogee Caliper Sig	3998	Ribbon		-	Property in the	58,127	Two way
Apogee Stage	4100	Ribbon	86	-	- 000	55,82,5	Two way
Apogee Centaur Major	4980	Hybrid		4	200	40,141,27	Ribbon/dynamic
Apogee Studio Grand	14900	Hybrid		-		63,160,55	Three way ribbon, active sub
AR M.5	139	2x	88	6	- 60	18,21,15	Boundary, bookshelf mount
AR Pi One	149	170	90	8	60	19,32,17	Stand mount, boundary siting
AR Fun Partner	170		90	6	75	27,15,20	Utility model
AR Pi Two	199		90	8	100	27,44,2	Stand mount, boundary siting
AR M1	199	-	88	8	100	28,27,20	Boundary, bookshelf mount
AR Pi Three	219	1-000	89	8	100	21,51,22	Stand mount, boundary siting
AR Active Partner	230	Active		-		19,27,15	Utility model
AR Rock Partner	240	*	90	8	100	24,37,22	Utility powered (active)
AR M2	299	- 00	90	8	125	24,42,36	Boundary, bookshelf mount
AR Subwoofer 1MS	300	-	90	4	180	30,21,48	Compact subwoofer
AR M3	349	-	90	8	125	24,55,40	Boundary, bookshelf mount
AR Powered Partner	350	Active	-	-	15	19,27,15	Stand mount, free space
AR Pi Four	399	-	88	8	125	25,57,27	Stand mount, free space
AR M4	429	-	88	8	150	20,72,40	Floor standing, free space
AR M5	799	-	90	8	175	22,92,27	Floor standing, free space
AR M6	899	-	90	8	200	22,106,27	Floor standing, free space
Arcam Delta 2	300	2x Pt	88	8	75	22,38,28	Stand mount, walnut or black
ATC SCM10	995	2x IB	80	8	300	18,38,26	Mnimum 100wpc, non-boundary
ATC SCM20	1461	2x IB	83	8	300	31,72,34	Minimum 100wpc, non-boundary
ATC SCM20 Tower	1999		83	8	300	24,103,34	Floor standing SCM20
ATC SCM50	3218		85	8	150	31,72,43	To special order only
ATC SCM100	3683		88	8	-	40,84,53	To special order only
ATC SCM50A	4497	Active	-	8	350	31,72,48	With crossover and amplifiers
ATC SCM100A	5006	Active	8-15/20	8	350	40,84,59	With crossover and amplifiers
ATC SCM200A	10995	Active	91	8	850	83,73,440	With cross over and amplifiers
ATC SCM300A	11995	Active		8	850	88,92,47	With cross over and amplifiers
Audio Note AN-KB	499	-	90	8	100	28,46,23	Free space, stand mount
Audio Note AN-K/SP	699	The second secon	90	6	100	28,46,23	Free space, stand mount
Audio Note AN-J/B	799	and the latest designation of the latest des	93	8	150	38,58,25	Free space, stand mount
Audio Note AN-J/SP	999		93	8	150	38,58,25	Free space, stand mount
Audio Note AN-E/B	1299	-	94	8	150	36,84,28	Free space, stand mount
Audio Note AN-E/SP	1599	-	94	8	150	26,84,28	Free space, stand mount
Audio Vector 2X	850	2x	89	8	120	17,90,22	Black ash
Audio Vector 3X	1200	THE RESERVE OF THE PERSON NAMED IN	89	8	150	19,98,52	Black ash
Audio Vector 5X	2300		91	8	200	24,110,34	Black ash .
Aura SP-50	400	-	87	4	120	21,40,24	Carbon fibre bass unit
B&O Beovox RL1000	215	3x	86	8	60	32,40,13	Simplified RL6000
B&O Beovox CX50	285		89	6	100	12,21,21	
B&O Beovox CX100	395	2x IB	89	6	200	12,32,21	
B&O Beovox RL6000	435	3x	87	8	100	41,54,18	Simplified RL7000
B&O Beovox 4500	450	2x Pt	87	8	90	45,38,8	
B&O Beovox RL7000	665	-	88	8	200	50,70,24	Twin bass
B&O Beolab 4500	1125	_	7	-	45	45,38,8	Attaches to wall, display
B&O Beolab 6000	1350	Active	02-30		80	20,110,21	Column, two amps, shielded
B&O Beolab 8000	2025		100	1	100	15,132,15	Column, two built in amps
B&O Beolab Penta 3	2375		-	4	150	22,165,34	Line array column, three-way
B&W Solid Team	140	Pt	87	4	75	14,20,14	White & black finish
B&W Centrale	150	Pt	89	8	150	17,24,17	
B&W CWM5	150		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 2002	160		87	4	80	18,35,20	Budget hi-fi range, black ash
B&W DM600i	190		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 CWM6	220	2x	89	8	70	23,32,8	In wall
B&W Solid Twin Bass	230		91	4	150	45,20,60	White & black finish
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 2004	250		91	4	120	20,65,24	Budget hi-fi range, black ash
B&W Solid Verticale	400	-		4	100	-	Lifestyle, 3 boxes
B&W DM620i	430			4	150	24,75,31	Floor standing



Key to loudspeakers
Price - typical retail, to nearest
pound.
Lype - 2x, 3x etc - number of independent drive units, Pt - ported, IR sealed, 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.

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		couple	ed cavity	, Hyb	rid - dynar	nic	
			- 10	=			
	_			pedance	2		
Model	Price	Туре	Sens	ance	Power	Size	Special
LOUDSPEAKERS							
B&W DM640i	900	3x Pt	91	4	200	24,97,41	Floor standing
B&W Matrix 804 B&W Matrix 803 S2	1495 1945	Pt Pt	90	8	200 250	26,92,26 26,101,34	Matrix enclosure 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	
B&W Silver Signature	4500	Pt	88	8	120	25,45,24	External crossover
Bose XL1000	115	Pt		8	50	29,19,17	
Bose XL2000	160	Pt	-	8	70	36,23,18	
Bose XL3000	180	Pt	-	8	90	47,29,23	
Bose 101 M'ble Monitor	190	- Dt	- 1	4	60	13,23,15	Black finish
Bose XL4000 Bose VS100	220 250	Pt		8	100	57,32,30 23,15,15	
Bose 151 Environmental	270			6	60	24,14,16	Waterproof/suitable for extrem
Bose 161 Freestyle	275	-	-	6	60	25,14,16	Waterproof/Surtable for CARSIII
Bose 201 Ser III	290	-	1.	8	60	38,20,25	Direct/reflecting technology
Bose C'puter RoomMate	300	Active	1.0	-	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
Bose 301 VM	380	-	-	8	75	24,43,27	Direct/reflecting technology
Bose 305	430	2x	-	8	100	23,45,28	Tall stand mount, boundary
Bose A'mass AM3 II Bose 401	500 500		-	4-8	50 100	36,20,20 30,30,76	Acoustimass technology Direct/reflecting technology
Bose SE-5 Ser II System	760	-	-	4-8	100	90,100,18	billocate lecting technology
Bose A'mass AM511	760	-	-	4-8	200	49,35,19	Acoustimass direct/reflecting
Bose A'mass AM7	830	-	-	4-8	100	35,49,19	Acoustimass direct/reflecting
Bose 601 MKIII	880	9	-	8	200	32,31,76	Direct/reflecting technology
Bose 901 V1	1650	1x	-	8	-	33,53,32	Direct/reflecting technology
Boston Acoustics HD5	139	2x	89	8	50	25,16,18	Bookshelf, black
Boston Acoustics 325	139	-	90	4	50	17,17,5	Wall/ceiling white flush mount
Boston Runabout Boston Acoustics HD7	169 169	2x	89 90	8	50 75	22,15,16	White indoor/outdoor system
Boston Satellites	170	2x	89	8	75	36,23,18	Bookshelf, black Satellite speakers
Boston Acoustics 350	179	-	-	4	50	24,17,6	Wall/ceiling white flush mount
Boston Acoustics 335	179		90	8	50	18,9	Wall mount, round
Boston Acoustics HD8	199		90	8	75	46,29,20	Stand/shelf, black
Boston 360 Ser II	209		89	8	60	22.15,7	Wall/ceiling, white, flush mou
Boston Acoustics HD9	249	2x ABR	90	8	100	62,32,25	Stand/shelf mount
Boston Acoustics 380	249	-	90	8	75	31,24,8	Wall/ceiling white flush mount
Boston Acoustics Voyager	299 449	Cub	89	8	60	26,16,17	White indoor/outdoor, metal
Boston Acoustics SW10 Boston SubSat Six	450	Sub Sat/sub	89	8	100	34,17,42	Powered subwoofer Passive subs and two satellite
Boston SubSat 7	549	-	89	8	125	-	PAssive sub & 2 satellites
Boston Lynfield 300L	1499		83	8	250	23,34,28	Stand mount, black
Boston Lynfield 500L	4449		85	5	350	122,23,47	Free stand, separate bass/top
Canon S-C10	130	2x	87	6	87	34,15,15	Shielded, nr omnidirectional
Canon SV-15	130	2x	86	8	50	24,17,17	Utility - wide dispersion
Canon S-30	180	2x Pt	90	6	75	25,31,28	Wide imaging stereo
Canon S-B20 Canon V-100	200	Sub 2x Pt	90	8	100 75	39,48,27 25,33,17	Free standing, passive
Canon S-35	250	2x Pt	90	6	75	27,23,24	Corner mount, wide dispersion Wide Imaging Stereo
Canon V-SB100	250	Sub	88	6	150	37,34,21	Subwoofer for V100
Canon S-60	350	2x	89	8	100	31,25,25	Near omnidirectional
Canon S-50	350	2x Pt	89	8	75	25,31,25	Wide imaging stereo
Canon S-70	700	2x Pt	87	6	100	25,78,25	Wide imaging stereo
Castle Trent II	199	Pt	89	8	60	20,34,18	Shelf/stand, nine finishes
Castle Durham 900	279	Pt	90	8	85	22,40,23	Shelf/stand, nine finishes
Castle York	399	Pt	89	8	100	26,43,22	Stand mount, stands inc
Castle Severn Castle Chester	499 699	Pt Horn	90 90	8	110	23,77,20 23,91,25	Free standing, 9 finishes Qiuarter wave, nine finishes
Castle Howard	999	3xHorn	90	8	125	26,104,41	Quarter wave, nine finishes
Castle Winchester	1499	3x	90	8	150	42,108,23	9 finishes, quarter wave
Celestion 1	109	- 1	86	8	50	16,27,21	
Celestion CSC	129	- 11	89	6	75	33,13,15	
Celestion 3 MKII	129	-	88	8	75	21,31,18	Integrated LF/baffle moulding
Celestion CS135	139	-	86	8	90	52,19,34	
Celestion CS2 Celestion CS4	149 169		86 87	8	60 75	16,29,22	
Celestion 5 Mkll	169		89	8	90	18,33,23 25,35,21	Larger version of Celestion 3
Celestion 9	269	-	89	8	100	21,50,25	Early Totalon or Collection o
Celestion 15	389		89	8	100	21,100,23	
Celestion SL6Si	429	2x	84	8	120	20,38,27	Compact stand mount, free spac
Celestion CS6	449		88	8	100	19,85,31	
Celestion CS8	499	-	88	8	120	19,100,31	
Celestion 100	539	-	84	8	120	21,42, 26	
Celestion SL12si	629	-	86	8	150	20,53,29	Aarolam lightusiaht analas
Celestion SL600si Celestion 300	820 1099		82 84	8	120 120	20,37,24 21,97,33	Aerolam lightweight enclosure
Celestion 700SE	1435		82	8	120	20,37,24	
Cerwin Vega VS8	250	2x	94	6	100	28,51,29	Bookshelf
Cerwin Vega SAT-6	300	Sat/sut	95		125	22,25,32	3 box satellite/subwoofer
Cerwin Vega VS10	350	3x	95	6	125	33,70,29	Floor standing
Cerwin Vega VS12	550	3x Pt	97	4	250	42,81,38	Floor standing
Cerwin Vega DC10	550	3x Pt	96		200	29,94,35	Floor standing
Cerwin Vega DC12	650	3x Pt	98	-	300	36,98,35	Floor standing
Cerwin Vega VS15 Cerwin Vega DC15	700 850	3x Pt	102	4	400 500	46,90,47 44,103,46	Floor standing Floor standing
Cerwin Vega 1515	1300	6x Pt	100	4	600	44,103,46	Floor standing, hi sensitivity
Chord Sys Audio 905		2x	89	8	70	27,15,19	Black Ash
						, -,	

Model	Price	Туре	Sens	mpedance	Power	Size	Special
LOUDSPEAKERS Clements 300si	395		89	4-8	90	24,36,36	Compression line
Clements 600si	595		88	4-8		24,81,36	Compression line
Clements Reference 1	995		86	8	100	20,43,29	Ribbon tweeter
Clements Reference 7	1995	-	88	4.5	200	25,114, 4	Ribbon tweeter
Dali 102	250		88	6	100	21,32,26	
Dali 104	400		93	4	120	86,22,27	
Dali 400	700	-	93	4	180	24,97,34	
Dali Skyline 1000	1600		88	-	120	-	
Dali Skyline 2000	2200	-	88	4	120	51,160,45	
Dawn Audio Chorus BS	482	2x IB	89	8	-	26,38,21	Bookshelf
Dawn Audio Chorus FS	698	2x IB	89	8	-	26,88,21	Floor standing
Dawn Audio Symphony	1,995	3x IB	91	8	70	34,113,32	Floor standing
Denon SCM2	80	IB Dt	87	6	70	19,28,20	UK designeed & built
Denon SC-E313	160	Pt	88	8	100	22,75,23	UK designed & built
ECA SERVO A.2	1850 395	2x Pt Pt	80 87	8	150 75	22,102,30 20,38,25	True ribbon tweeter
Epos ES11	595	Pt	87	8	100	23,49,29	Free space, stand mount Free space, stand mount
Epos ES14 Faraday FS1	245	2x	87	8	75	27,46,25	Matt black or granite effect
Faraday SG	345	2x	89	4	75	27,26,25	Matt black or granite effect
Faraday Siren	445	2x	90	4	80	27,25,46	Matt black or granite effect
Faraday FS10	795	3x	91	4	100	27,25,93	Matt black or granite effect
Fullers Sultan	399	2xPt	91	8	50	24,51,30	3 finishes
Fullers Sultan H.E.	439	2xPt	98	8	90	24,51,30	High sensitivity, 3 finishes
ullers Pharaoh 1	649	2xPt	88	8	60	20,30,20	Curved sides, various finishes
ullers Sphinx	839	3x	89	8	70	25,91,30	Floor standing, var finishes
Fullers Pharaoh 2	1200	3xPt	88	8	80	39,100,31	Pharaoh 1 with added bass encl
Fullers Pharaoh 3	2499	4xPt	88	8	150	46,118,45	Pharaoh + bass & subbass encls
Gale Reference Monitors	100	2x	88	8	70	-	Bookshelf, black finish
Gale Model 2	150	2x	88	8	70	-	Bookshelf, black finish
Gale Model 4	200	2	88	8	75	-	Bookshelf, black finish
Gamma Acoustics Epoch	1499	-		-	6-35	27,95,36	
Genelec 1019A	1572	Active	3,00	-	28	23,31,25	
Genelec Blamp 1031A	2068	Active	- 1	-	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			6	50	35,21,24	
Genexxa GX650	140		90	8	60	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	1	86	6	100	25,42,29	
Goodmans Active 75	65	Active		- 1	80	*	
Goodmans M100	80	2x	86	8	75	17,26,20	Bookshelf, close to wall
Goodmans HT100	100	-	86	8	60	25,53,20	
Goodmans HT170	150	-000	92	8	100	25,70,22	
Grundig MBX310	80	3xPt		4	70	18,42,29	3 drivers, 2 way
Grundig BX1	160	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	- 00	4	120	24,107,34	53 litre, 3 drivers, 2 way
Harbeth BBC LS3/5A	675	IB ID	82	10	30	30,19,18	Free standing
Harbeth HL-P3	699	IB Dt	83	8	45	31,19,18	Free standing, shielded, biwir
Harbeth BBC LS5/12A	1195	Pt Dt	81	8	100	30,18,23	Free standing, biwire Shielded, biwire
Harbeth HL Compact 7	1295 1495	Pt Pt	86 86	8	120 100	52,27,32 64,32,31	Free standing, biwire
Harbeth HL-5 · Harman-Kardon LS0200	1495	rı .	87	8	50	21,35,30	Free Standing, Diwire
	199		88	8	75	21,38,80	
larman-Kardon LS0300 lelius Syrius III	1330	- Pt	90	8	250	31,97,16	
lelius Syrius II	1975	Pt	95	4	300	36,107,16	
Helius Syrius I	2500	Pt	93	4	500	36,107,16	Floor standing, biwire
Heybrook Prima	130	2xPt	87	6	60	20,29,18	Bookshelf or stands
leybrook Solo	189	2x	89	6	75	23,36,23	Boundary design, stands requir
leybrook HB1	259	2x	90	8	75	29,47,23	Boundary, stands required
leybrook Trio	359	2x	89	8	75	24,47,25	
leybrook Heystak	499	3xABR	89	8	100	98,22,28	Inc stands
leybrook Quartet	555	2xPt	90	8	80	24,41,22	
leybrook Sextet	1099	3x	88	8	200	27,90,20	With stands
mpulse H7	835	Horn	88	8	70	14,80,29	Floor standing
mpulse H6	1425	Horn	89	8	100	19,91,35	Floor standing
mpulse H5	1675	Horn	93	8	100	27,90,45	Floor standing
mpulse H2	2385	Horn	94	8	100	26,116,45	Floor standing
mpulse H1	3400	Horn	96	8	100	36,103,68	Floor standing
nfinity Ref 10	200	IB	90	6	75	23,37,23	Pedestal
nfinity Ref 20	300	IB	90	6	100	27,47,26	Pedestal
nfinity Inf IV Sat	300	IB	90	6	80	16,24,18	Wall mount, shielded
nfinity Ref 30	400	IB	90	6	100	27,84,25	Floor standing
nfinity Inf Micro	400	Pt/sub	90	6	100	21,x 127d	Two satellites and passive sub
nfinity SSW-10 Sub	500	Active			F-100	34,34,33	
nfinity Kappa 6.1i	995	Pt	89	6	150	31,95,25	Floor standing
nfinity Kappa 7.1i	1195	Pt	89	6	225	36,108,26	Floor standing
nteraudio XL1000	100	-		8	50	19,29,17	
nteraudio XL2000	140	-	-	8	70	23,36,18	35 v
nteraudio XL3000	160			8	70	29,46,23	
nteraudio XL4000	200	-	-	8	75	32,56,29	
Jamo Studio 80	60	2xPt	91	-	45	22,35,17	
			-	100000000000000000000000000000000000000	CO	01 10 00	
Jamo Studio 110	100	3xPt	91	4	50	24,42,22	

18,28,20 Budget hi-fi range, black ash

#### 116 HI-FI CHOICE BUYER'S GUIDE



Audiolab 8000A

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, 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 for full test results.

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2	Price	Ty	Se	Impedance	Power			
Model	ice	Туре	Sens	ice	ver	Size	Special	
Jamo Sat 160	100	2x IB	90	8	50	14,20,88	Shelf/wall mount, with wall br	
Jamo D115	100	-	91	4-8	75	24,42,22	,	
Jamo Cornet 30.4	100	2x Pt	88	8	55	20,32,23	Black ash - Mahogany £20 extra	
lamo Sat 200	110	2x	90	8	50	15,22,88	Stereo passive sub	
Jamo Sat 300	120	2x	90	8	50	15,21,8	Use with SW500	
lamo Cornet 40.4	140	2x Pt	89	8	60	20,32,23	Black ash - Mahogany £20 extra	
Jamo Studio 180	150	3xPt	92	4	80 50	22,50,26	Coordinate with a cooling	
Jamo Artina Jamo Sat 500	150 150	2xPt 2x Pt	90	8	50	29,25,8 16,21,14	Small, flat wall speaker Satellites for SW500	
Jamo D135	150	- 2 2 7 1	94	4-8	90	28,52,25	Satellites for Sw500	
Jamo Converta	150	2x Pt	90	8	50	9,25,24	Lamp-like appearance	
Jamo Cornet 60.4	180	2x Pt	90	8	80	23,42,27	Black ash - Mahogany £20 extra	
Jamo D165	190	- 10	94	4-8	100	28,52,25	<u> </u>	
Jamo SW160 System	200		90	8		20,34,48	Subwoofer, adjustable	
Jamo Art	200	2x Pt	88	8	60	35,40,9	Shape and size of shallow 20 i	
Jamo Classic 4	230	2xPt	90	4	100	20,47,25		
Jamo D265	300	3xPt	95	4	150	44,68,32		
Jamo Classic 6	300	2xPt	90	4	100	20,84,29	Inc spiked feet	
Jamo BX100A	300	3x Pt	91	8	100	32,55,28	Floor or stand mount	
Jamo 307 Jamo Cornet 90-4	300	2x Pt 3xlB	87 91	6	70 140	18,31,27 26,87,27	Stand mount	
Jamo 407	350	2x Pt	88	4	80	22,41,29	Stand mount	
Jamo Graphic	350	2x Pt	88	8	60	39,44,8	Wall mount	
amo Atmosphere	380	2x Pt	88	8	60	27,37,16	Wall mount, doubles as lamp	
Jamo Cornet 100-4	400	3xIB	91	4	200	32,95,27		
Jamo Classic 8	400	3xPt	90	4	150	23,90,29	Inc spiked feet	
Jamo Silhouette	400	-	90	5	80	25,122,17		
Jamo D365	400	-	96	4-8	200	46,78,35		
Jamo BX150A	400	3x Pt	92	8	150	38,63,31	Floor mount	
Jamo SW500 System	430	2x	90	8	140	41,38,53	Passive stereo subwoofer Floor mount	
Jamo BX200A Jamo 477	450 500	3x Pt 2x Pt	88	4	250 100	29,17,13 19,77,29	Floor standing	
Jamo 507	700	3x Pt	88	4	150	22,91,37	1 loor standing	
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	5		
JBL L3	699	2x Pt	89	8	200	30,86,24	Asymmetric, time aligned	
JBL HTS-2 system	800		-	4	150 180	-		
JBL HTS-3 JBL L5	999 1299	3x Pt	90	6	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	
Jordan Watts JH400M	970	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	86	8	80	82,28,21		
J Watts JH1+1 Aspect J Watts JH1+1 Aspect K	1730	2x	85	8	100	92,40,22		
J Watts JH1+1 Aspect M	2310 2745	2x 2x	85 85	8	100	92,40,22		
J Watts Aspect JH1+1	2745	2xIB	85	8	100	40,93,23	Matt - alt finishes extra	
Jordan Watts JH2K	3230	-	-	-	12	- ,00,20		
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	2x IB	92	8	500	47,156,40	Floor stand, line array	
Jordan Watts JH10KM	10495	2xIB	92	8	500	47,156,40	Line driver array	
JPW Minim SGL SHD	50	2x	87	6	70	19,28,20	Shielded, single speaker	
JPW Satellite SGL SHD	50	2x	85	8	70	13,24,11	Shielded, single speaker	
JPW Satellite JPW Minim	80	2x 2x	85	6	70 70	13,24,11	Shielded, single speaker 135mm bass, 14mm treble	
JPW Minim Pair Solid	89	2x	87	6	70	19,28,20	Shielded .	
JPW Sonata Vinyl	100	2x	87	8	70	23,32,22		
JPW Sonata	120	2x	87	8	70	23,32,22	165mm bass, 14mm treble	
JPW Subwoofer	130	1x	95	8	80	26,51,27		
JPW P1 Vinyl	150	2x	89	8	70	26,44,25		
JPW P1	170	2x	89	8	70	26,44,25	200mm bass, 19mm treble	
JPW AP2	200	2x	89	8	80	26,44,25	200mm bass, 19mm treble	
JPW AP3	230	2x	88	8	100	26,52,29	200mm bass, 19mm treble	
JPW Ruby 1	500 700	2x	87	6	120	32,19,21	Alloy cones	
JPW Ruby 2 IPW Ruby 3	700 1000	2x	88	6	150 150	43,22,25	Alloy cones	
JPW Ruby 3 JPW Ruby 4	1000	3x	89	6	200	75,19,22 90,22,26	Alloy cones	
IVC SPX220TBK	100	3x 3x Pt	90	8	60	24,66,24	Alloy cones	
IVC SPX550BK	130	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		
	300	2xPt	90	6	100	- Satellite subwoofer system		
JVC SX-SW9	300					38,63,35		
JVC SX-SW9 JVC SX911WD JVC SX500	660 700	3x Pt 2x Pt	91 90	6	150 180	38,63,35 27,45,28		

450 Int N 60 MM,MC,1T,3T Y N 45,8,36 Preout/main in

Model   1000					Imp			
Marchaet Marchaet	Model	Price	Тур	Sens	mpedance	Power	Siza	Special
Max   Max		LU .	(B)	G/	C		JIZE	Эресіаі
MAX   Turnigal		395		86	8	120	23,27,17	
MAX Trans-pubment   1909		619	* 1			The second second second		
Na			+			PARTICIPATION OF THE PARTICIPA		
Mar. Marche   1900		-		CONTRACTOR OF THE PARTY OF THE	-			
KEF CRIAD   199		_		-				
Memory Color   199   24.8   8   8   8   0   21.42   24.25   25.25			2xPt	-	_			Black ash finish
KEF 1010		_			-	-		
KEF K140         293         28.8         88         8         100         Zeb.255         Band-blookhelf           KEF K160         392         2 AMR         88         8         25         26         76.75.23         Horo, Shelderd, Mr Surmund           KEF 600         419         2 PH         88         6         125         26.75.23         Horo, Shelder, Mr Surmund           KEF 600         419         2 PH         89         6         100         25.84.28         Iun 10, Shelder, floor starding           KEF 600         419         2 PH         89         6         100         25.83.28         Iun 10, Shelder, floor starding           KEF 1010 Block         569         2 PM         87         6         150         2 23.32.6         Iun 10, Shelder, floor stard           KEF 1020 MC         699         2 MR         80         150         2 25.02.8         Iun 10 floor starding           KEF 1020 MC         799         3 CCD         88         4         150         2 36.93.2         Iun 10 floor stard, shelded           KEF 1020 MC         1199         3 CCD         89         4         150         2 36.93.0         Iun 10, Shelded, floor starding           KEF 1027 MC         1199						-		
KEF K160         399         ZAMPR         88         8         255         767,320         Toor standing           KEF G80         419         2P.P         99         8         100         258,428         Lin 0, Incident floor standing           KEF G80         499         3P.P         99         6         100         258,428         Lin 0, Incident floor standing           KEF 1007 Black         569         2ARR 88         8         150         253,326         Lin 0, Incident floor standing           KEF 1007 Black         569         2ARR 88         8         150         259,032         Lin 0 floor standing           KEF 1008 Critic         699         4AP         80         6         150         253,036         Lin 0 floor standing           KEF 1009 Critic         799         3CC         89         4         150         259,032         Lin 0 floor standing           KEF 1009 Critic         799         3CC         89         4         150         236,030         Lin 0, Shelded floor stand incident           KEF 10078 Critic         1199         4CC         91         4         200         229,031         Lin 0, Shelded floor standing           KEF 10072 Critic         1199         3CC         <		_	2x IB	-	-			
KEF F300	KEF 70S	299	2xlB	87	6	100	17,25,12	Uni-Q, shielded, AV surround
KEF 660         419         24 PL         891         8         100         25 84.28         Lun 0, besident floor standin           KEF 1010 Black         5.99         24 PL         87         6         150         22.33.26         Lun 0, besident floor standin           KEF 1010 Black         5.99         24 PL         87         6         150         22.33.26         Lun 10, besident floor standing           KEF 1020 CMS         5.99         24 PL         87         6         150         22.33.26         Lun 10, besident floor standing           KEF 1020 CMS         7.99         300         8         150         25.90.32         Lun 0, besident floor standing           KEF 1020 CMS         7.79         300         8         150         25.90.32         Lun 0, besident floor standing           KEF 1020 CMS         1199         400         59         4         150         23.90.32         Lun 0, besident floor standing           KEF 1024 CMS         1199         400         59         4         150         23.90.32         Lun 0, besident floor standing           KEF 1024 CMS         1199         400         59         4         200         28.90.11         4         200         29.91.11         Advanced floor standing					-			
FeF F10/3 Biol.   599   24 APR   89   6   150   198.33					-	-		
KEF FIOR Black  F5 90 2 MB 8 2 11 30 19 30,16 Reprond Coole Special Edition  KEF LSUSSa		_			-			
KEF 1808		_		-	-			
KEF LSG/Sa  SP9 2MB 8B 1 11 30 193.01 6 Repmond Cooke Special Edition  KEF G00 73 3 x PL 8B 8 8 150 25 93.32 Un 0 Uno - shielded, floor standing  KEF 102/MS 749 30 6 7 150 190 25 93.32 Un 0 Uno - shielded, floor standing  KEF Model Three  KEF Model Three  LSEF 103/MS 1199 40 60 91 4 200 25 93.31 Un 0 Uno - shielded  KEF Model Three  LSEF 103/MS 1199 40 60 191 4 200 25 93.31 Un 0 Uno - shielded  KEF Model Three  LSEF 103/MS 1294 40 00 291 4 200 25 93.31 Un 0 Uno - shielded  KEF Model Three  LSEF 103/MS 1294 40 00 291 4 200 25 93.31 Un 0 Uno - shielded  KEF 103/MS 1294 40 00 291 4 200 25 93.31 Un 0 Uno - shielded  KEF 103/MS 1294 40 00 291 4 200 25 93.31 Un 0 Uno - shielded  KEF 103/MS 1294 40 00 291 4 200 28 93.41 Playmond Cooke Special Edition  KEF 104/R EKE 0 199 50 00 91 4 300 27 114.34 Uni 0 University Shielded  KEF 105/S3 292 6 60 0 91 4 300 27 114.34 Uni 0 University Shielded  KEF 105/S3 292 6 60 0 93 4 300 28 114.01 Uni 0 University Shielded  KEF 105/S3 293 6 60 0 94 4 300 33 116.65 Floor standing, Nubbe equalser  KEF 107/R EKE 0 399 40 0 0 91 4 300 33 116.65 Floor standing, Nubbe equalser  KEF 107/R EKE 0 399 40 0 0 PL 88 4 10 0 25 15.05 Floor standing Nubbe equalser  KEF 107/R EKE 0 399 40 0 0 PL 88 4 10 0 25 15.05 Floor standing Nubbe equalser  KER 104/KS 10 0 0 PL 88 4 10 0 25 24 28 European design  Kenvood LS-500 5 0 0 PL 88 4 10 0 25 24 28 European design  Kenvood LS-500 5 0 0 PL 88 4 10 0 25 24 28 European design  Kenvood LS-500 5 0 0 PL 88 4 10 0 25 24 28 European design  Kenvood LS-500 5 0 0 PL 88 4 10 0 25 24 28 European design  Kenvood LS-500 5 0 0 PL 88 8 1 100 28 5 12 6 European design  Kenvood LS-500 5 0 0 PL 88 8 8 10 0 23 3 10 3 European design  Kenvood LS-500 5 0 0 PL 88 8 8 10 0 23 3 10 3 European design  Kenvood LS-500 5 0 0 PL 88 8 8 10 0 23 3 10 3 European design  Kenvood LS-500 5 0 0 PL 88 8 8 10 0 23 3 10 3 European design  Kenvood LS-500 5 0 0 PL 88 8 8 8 10 0 23 3 10 3 European design  Kenvood LS-500 5 0 0 PL 88 8 8 8 10 0 23 3 10 3 European design  Kenvood LS-500 5 0 0 PL 88 8 8		_		PROFESSION STREET, STR				
KEF D70         690         44Pt         890         6         175         19.10.5.30         Lin-10.2 shelded, floor stand standing           KEF D20/2MS         740         36C         89         4         150         25.90.25         Lin 10.2 shelsed shelf/stand mt           KEF T03/4MS         1193         4CC         81         4         150         22.50.26         Lin 10.2 shelsed shelf/stand mt           KEF T03/4MS         1193         4CC         91         4         200         22.90.31         Vuln 0, shielded, coupled cavit           KEF T03/4MS         1193         4CC         91         4         200         22.90.31         Vuln 0, shielded, coupled cavit           KEF T04/2MS         1199         5CC         92         4         200         22.90.31         Vuln 0, shielded           KEF 104/2B FEC         1799         5CC         92         4         200         28.90.41         Plan 119		_						
KEF 1002MS		_						
KEF 1002/KS   749   30C   88   4   150   22.50.26   Uni 0, sheloted shelf/stand mt KEF Model Cene   999   30C   88   4   150   23.60.3   Uni-0, thors stand, shelded   KEF 1002/KS   1749   46C   991   4   200   22.90.31   Uni-0, thors stand, shelded   KEF 1002/KS   1749   46C   991   4   200   22.90.31   Uni-0, thors stand, shelded   KEF 1002/KS   1749   46C   991   4   200   23.90.31   Uni-0, thors stand, shelded   KEF 1002/KS   1749   46C   190   4   200   23.90.31   Uni-0, thors stand, shelded   KEF 1002/KS   1799   50C   92   4   200   28.90.41   Four standing, coupled carry   KEF 1007/KS   200   22.90.31   Value   Valu		_			-	-		
KEF 103/AMS         1199         40C         91         4         200         229.03.1         Un O, shielded, coupled can't           KEF 104/2         1495         AuCC         90         4         200         229.03.1         Justine H03/4           KEF 104/2 REC         1795         SuCC         92         4         200         229.04.1         Por standing, coupled cavity           KEF 104/2 REC         1799         SuCC         91         4         300         221.11.4.3         Un-O, floor stand, shielded           KEF 107/2         2355         6xCC         93         4         300         221.11.4.1         Un-O, floor stand, shielded           KEF 107/2         365         6xCC         93         4         300         221.11.4.1         Un-O, floor stand, shielded           KEF 107/2         366         ACC         90         4         300         231.16.45         Reymond Cooks Special Edition           KEF 107/2         369         4xCC         90         4         300         33.11.6.45         Reymond Cooks Special Edition           KEF 107/2         260         Pt         88         4         110         27.48.26         European design           KEF 107/2         270	KEF 102/2MS	749		89	4	150		
KEF DIOJAS         L129         ACC         91         4         200         23.03.11         Autochniler 103/4           KEF Nodel From         L199         ACC         92         4         200         23.01.10         Un-D., Born stand, shelsted           KEF 104/2 REC         1799         SuCC         92         4         200         28.90.41         Foor standing, coupled cavity           KEF 105/IS         2255         GCC         93         4         300         22.11.43         Un-D, coupled cavity           KEF 105/IS         2356         GCC         93         4         300         22.11.04.11         Un O, coupled cavity           KEF 107/IS         ACC         90         4         300         23.11.64.5         Foor standing, Kube equaliser           KEF 107/IS         REC         200         Pt         88         4         60         21.35.30         European design           Kerwood LS-300G         300         Pt         88         4         100         22.44.28         European design           Kerwood LS-300G         500         Pt         87         4         100         22.44.28         European design           Kerwood LS-300G         700         Pt         8	KEF Model One	999	3xCC	89	4	150	23,86,30	Uni-Q, floor stand, shielded
KEF Model Two         1499         ACC         90         4         200         23,101,30         Lin-O, floor stand, shelided           KEF 104/2 REC         1799         SuCC         92         4         200         28,90,41         Raymond Cooke Special Edition           KEF 106/2 REC         1799         SuCC         93         4         300         22,114,44         Lin-O, floor stand, shelded           KEF 107/2         2935         6xCC         93         4         300         22,114,41         Lin-O, floor stand, shelded           KEF 107/2         2935         6xCC         93         4         300         22,114,14         Lin-O, floor stand, shelded           KEF 107/2         2935         6xCC         90         4         300         23,116,45         Roundled Carlot           KEF 107/2         2939         4xCC         90         4         300         33,116,45         Rownool LS-300G         80         PL         89         4         60         21,35         Burphonel Cooke Special Edition           Kernwool LS-700G         200         PL         88         4         110         22,426         European design           Kernwool LS-700G         200         PL         86         4 </td <td></td> <td></td> <td>THE REAL PROPERTY.</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td>			THE REAL PROPERTY.	-	-			
KEF 104/2 ECC 1779 SinCC 92 4 200 28,90,41 Floror standing, coupled cavity KEF 104/2 ECC 1779 SinCC 91 4 300 27,114,34 Uni-C, floor stand, sheided MEF 105/3 235 6xCC 93 4 300 28,110,41 Un C, coupled cavity bass KEF 105/3 235 6xCC 93 4 300 28,110,41 Un C, coupled cavity bass KEF 107/2 6365 4xCC 90 4 300 33,116,45 Floror standing, Kute equaliser KEF 107/2 ECC 3994 AxCC 90 4 300 33,116,45 Floror standing, Kute equaliser KEF 107/2 ECC 3994 AxCC 90 4 300 33,116,45 Floror standing, Kute equaliser KEF 107/2 ECC 200 Pt 88 4 110 22,86,26 European design Kerwood LS-200G 200 Pt 88 4 110 22,86,26 European design Kerwood LS-200G 200 Pt 88 4 110 22,84,26 European design Kerwood LS-200G 300 Pt 87 4 1100 22,44,28 European design Kerwood LS-200G 500 Pt 87 4 1100 22,44,28 European design Kerwood LS-200G 500 Pt 87 4 120 30,90,30 European design Kerwood LS-200G 700 Pt 87 4 120 30,90,30 European design Kerwood LS-200G 700 Pt 87 4 120 30,90,30 European design Kerwood LS-200G 700 Pt 87 4 120 30,90,30 European design Kerwood LS-200G 700 Pt 87 4 120 30,90,30 European design Kerwood LS-200G 700 Pt 87 4 120 30,90,30 European design Kerwood LS-200G 700 Pt 87 4 120 30,90,30 European design Kerwood LS-200G 700 Pt 87 4 120 30,90,30 European design Meswick Audio Pigro 70 Pt 97 4 120 Pt 87 4 120 30,90,30 European design Kerwood LS-200G 700 Pt 87 4 120 30,90,30 European design Meswick Audio Pigro 70 Pt 97 4 120 Pt 88 8 7 70 Electro 70 Pt 88 8 8 7 70 Electro 70 Pt 88 8 8 8 70 Electro		_			-			
KEF Hold Pice         1799         SACC         92         4         200         29.91.41         Reymond Cooke Special Edition           KEF Hold Tree         1999         ACC         93         4         300         22.11.0.41         Un O., audiophile 105/3           KEF 105/S         2235         6xCC         93         4         300         28.110.41         Un O., audiophile 105/3           KEF 107/Z         2345         6xCC         90         4         300         23.116.45         Reymond Cooke Special Edition           KEF 107/Z         2399         4xCC         90         4         300         33.116.45         Reymond Cooke Special Edition           Kenwood LS-200G         200         Pt         89         4         100         22,42.66         European design           Kenwood LS-300G         300         Pt         86         4         110         22,43.68         European design           Kenwood LS-300G         500         Pt         87         4         120         39,03.03         European design           Kenwood LS-300G         100         Pt         87         4         100         22,43.68         European design           Kenwood LS-700G         120         Pt <td></td> <td>_</td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td>		_			_			
KEF Model Three         1999         SOC         91         4         300         22.114.24         Lin-O, floor stand, shelted           KEF 105/SS         2236         6x0C         93         4         300         28.110.41         Un O, coupled carlly bass           KEF 107/2 RED         3095         4x0C         90         4         300         23.110.41         Un O, audichile 105/3           KEF 107/2 RED         3995         4x0C         90         4         300         33.116.45         Floor standing, Kube equalizer           Kernwoot LS-200G         200         Pt         89         4         60         21.35.30         European design           Kernwoot LS-200G         300         Pt         82         8         60         21.35.30         European design           Kernwoot LS-300G         300         Pt         87         4         100         22.44.28         European design           Kernwoot LS-700G         700         Pt         87         4         120         22.42.27         Book-helf           Keswick Audio Nata         499         8         8         70         21.42.27         Book-helf           Keswick Audio Nata         499         8.6         8 <t< td=""><td></td><td></td><td>_</td><td></td><td></td><td>-</td><td></td><td></td></t<>			_			-		
KEF 10/3C         2256         BoCC         93         4         300         28,110,41         Un C, outgeted cavity bass           KEF 10/72         3655         4cCC         90         4         300         23,116,45         Proor standing, Kube equaliser           KEF 10/72 REC         3999         4cCC         90         4         300         33,116,45         Proor standing, Kube equaliser           Kerwood LS-200G         200         Pt         89         4         60         21,330         European design           Kerwood LS-200G         200         Pt         80         4         110         22,48,26         European design           Kerwood LS-300G         300         Pt         86         4         100         22,44,26         European design           Kerwood LS-300G         500         Pt         87         4         100         22,44,28         European design           Kerwood LS-100G         1700         Pt         87         4         100         29,41,33         European design           Keswick Audio Anta         299         2         8         8         70         21,42,27         Bookean           Keswick Audio Figura         799         86         8		_	-	THE RESERVE OF THE PERSON NAMED IN COLUMN 1	CONTRACTOR OF THE PARTY OF THE	THE RESERVE OF THE PERSON NAMED IN		
KEF 107/2 REC         3969         4k CC         90         4         300         28,110,41         Uni O, audiophile 105/3           KEF 107/2 REC         3999         4k CC         90         4         300         33,116,45         Floor standing, Kube equaliser           KEF 107/2 REC         399 4k CC         90         4         300         33,116,45         Reymond Coxek Special Edition           Kenwood LS-200G         200         Pt         88         4         110         27,48,66         European design           Kenwood LS-300G         300         Pt         86         4         1100         22,44,28         European design           Kenwood LS-300G         500         Pt         87         4         120         30,93,30         European design           Kenwood LS-700G         1700         Pt         87         4         120         30,93,30         European design           Keswick Audio Aria         269         2c.         88         8         70         21,42,27         Bookshelf           Keswick Audio Aria         4         80         8         150         19,70,27         10 match rigar           Keswick Audio Allo         99         80         87         8			-	-				
KEF 107/Z REC         3695         AuCC         90         4         300         33.116.45         Floor standing, Nuthe equalisor           KEF 107/Z REC         3999         AuCC         90         PI         88         4         800         21.33.30         European design           Kenwood LS-200G         200         PI         88         4         110         27.48.26         European design           Kenwood LS-800G         300         PI         82         8         60         21.35.30         European design           Kenwood LS-800G         300         PI         87         4         100         22.44.28         European design           Kenwood LS-700G         1700         PI         87         4         100         32.47.27         Bookshelf           Keswick Audio Na         269         2         8         8         7         21.42.27         Bookshelf           Keswick Audio Figro         799         8         8         150         19.70.27         Floor standing           Keswick Audio Figro         799         8         8         125         19.28.27         Features solid timbers           Keswick Audio Figro         799         8         8         125		_		-	-			
KEF 107/2 REC         3990         4/CC         90         4         300         33,116,45         Raymond Coxic Special Edition           Kenwood LS-2006         200         Pt         88         4         60         21,35,30         European design           Kenwood LS-3006         300         Pt         88         4         110         27,48,26         European design           Kenwood LS-3006         500         Pt         87         4         100         22,4128         European design           Kenwood LS-7006         1200         Pt         87         4         100         22,4428         European design           Kenwood LS-7006         1200         Pt         87         4         100         22,4428         European design           Kenwood LS-10060         1700         Pt         87         4         100         22,4428         Bookshelf           Keswick Audio Volate         99         -8         86         8         215,218         90         90         8         85         158,27         Foot standing           Keswick Audio Volate         99         -8         86         8         150         19,70,27         To standing           Keswick Audio Alto								
Kenwood LS-200G		_	Company Section					
Remood LS-3006   300	Kenwood LS-200G	200		89	4			
	Kenwood LS-770G	260	Pt	88	4	110	27,48,26	European design
Nemwood LS-700G		_	Commission of the last of the	-	-	THE RESERVE OF THE PERSON NAMED IN		
Kenwood LS-7006   1200								
Remvood LS-1000G								
Reswick Audio Aria		-		ALCOHOL: UNIVERSITY OF THE PARTY				
Keswick Audio Volante		-	AND RESIDENCE AND RESIDENCE	EGMANGE MINISTRAL PROPERTY.	-	-		
Reswick Audio Atlo   999   Sub   87   8   150   19,28,27   Features solid timbers   Newsoki Audio Atlo   999   Active   -   -   -			The second second					
Reswick Audio Alto		_	-	A Deliver of the latest of the				
Koss SA20         25         -         -         -         -         -         High impedence           Linaeum LSI         991         Hybrid         90         -         -         16,22,18         Modified ribbon/dynamic           Linaeum LSI         991         Hybrid         90         -         -         16,22,18         Modified ribbon/dynamic           Linn Lore         259         2x IB         87         8         -         21,44,24         30 watts minimum           Linn Tukan         398         2x IB         87         8         30         19,30,18         Multipurpose           Linn Kaldra         398         2x IB         87         4         60         20,83,28         Floor standing, 60w min           Linn Kaldra         1298         3x         -         4         60         20,83,28         Floor standing, 60w min           Linn Kaber Assive         1298         3x IB         -         -         20,90,28         Integral stands, 60w minimum           Linn Kaber Assive         1298         3x IB         -         -         20,90,28         Integral stands, 60w minimum           Linn Kaber Astiv         490         3x IB         -         -         26,104,37 <td></td> <td>_</td> <td>Sub</td> <td>-</td> <td></td> <td></td> <td></td> <td></td>		_	Sub	-				
Ross SA30	Koss SA10	19	Active	100	N-W	- 5	-	High imp
Linaeum LFX Wood   649	Koss SA20	_	-	-	-	4	(4)	
Linaeum LSI		_				-	-	
Lina Index         259         kybrid         90         -         16,22,18         Modified ribbor/dynamic           Linn Index         259         2x IB         87         8         -         21,44,24         30 watts minimum           Linn Kelidh Passive         595         2x IB         87         4         60         20,83,28         Floor standing, 60w min           Linn Kaleidh Aktiv         1090         2x IB         -         -         20,83,28         Floor standing, boundary           Linn Kaber Passive         1298         3x IB         -         -         20,90,28         Integral stands, boundary           Linn Kaber Passive         1298         3x IB         -         -         20,90,28         Integral stands, boundary           Linn Kaber Aktiv         400         3x IB         -         -         26,104,37         Integral stands, boundary           Linn Kelik Aktiv         400         Horn         96         8         100         64,110,70         Floor standing, broot standing           Linn Kelik Aktiv         400         Horn         96         8         100         36,4115         Floor standing           Linn Kelik Aktiv         400         96         8         100         64,11		_	THE RESIDENCE OF THE PERSON NAMED IN	Proposition of the last of		-		
Linn Index				AAATTI AAATTI AAATTI AAATTI AAATTI AAATTI AAATTI AAATTI AAATTI AAATTI AAATTI AAATTI AAATTI AAATTI AAATTI AAATTI	Section 19			
Linn Tukan 398 2xlB 87 8 30 19,30,18 Multipurpose Linn Kelidh Passive 595 2x IB 87 4 60 20,83,28 Floor standing, 60w min Linn Kelidh Aktiv 1090 2x IB 20,83,28 Floor standing, boundary Linn Kader 1298 3x B 87 4 60 20,28,90 Black ash or walnut Linn Kaber Passive 1298 3x IB 87 4 60 20,90,28 Integral stands, boundary Linn Kaber Aktiv 1995 3x IB 20,90,28 Integral stands, boundary Linn Kather Aktiv 1995 3x IB 20,90,28 Integral stands, boundary Linn Keltik Aktiv 4400 3x IB 26,104,37 Integral stands, boundary Linn Keltik Aktiv 4400 3x IB 26,104,37 Integral stands, boundary Linn Keltik Aktiv 4400 3x IB 26,104,37 Integral stands, boundary Living Voice Tone Scout 6000 Horn 104 8 100 64,110,70 Floorstanding, three-way Living Voice Air Partner Living		_		The state of the s	200			
Linn Kelidh Passive         595         2x IB         87         4         60         20,83,28         Floor standing, 60w min           Linn Kader         1298         3x         -         -         -         20,83,28         Floor standing, boundary           Linn Kader         1298         3x         B         -         -         -         20,98,90         Black ash or walnut           Linn Kaber Passive         1298         3x IB         -         -         -         20,90,28         Integral stands, boundary           Linn Kathix         4400         3x IB         -         -         -         26,104,37         Integral stands, boundary           Living Voice Fore Scout         6000         Horn         104         8         100         36,48,115         Floor standing         Floor standing           Living Voice Air Partner         14000         Horn         104         8         100         64,110,70         Floorstanding, three-way           Lowther Fidelio         1455         Horn         96         8         100         29,100,43         16ohm option           Lowther Academy         1805         Horn         97         8         100         28,132,44         Including adjustable stand <td></td> <td></td> <td>Annual Contract of the last of</td> <td>with the same of the same of</td> <td></td> <td>30</td> <td></td> <td></td>			Annual Contract of the last of	with the same of the same of		30		
Linn Keilidh Aktiv 1090						-		
Linn Kaber Passive         1298         3x         -         4         60         20,28,90         Black ash or walnut           Linn Kaber Passive         1298         3x lB         -         -         20,90,28         Integral stands, 60w minimum           Linn Keltik Aktiv         1995         3x lB         -         -         20,90,28         Integral stands, 60w minimum           Linn Keltik Aktiv         4400         3x lB         -         -         26,104,37         Integral stands, boundary           Living Voice For Scout         6000         Horn         104         8         100         64,110,70         Floor standing           Living Voice Air Partner         14000         Horn         108         8         100         64,160,90         Floor standing, Vitavox drivers           Lowther Academy         1805         Horn         98         4         100         29,100,43         16ohm option           Lowther Delphic         2525         Horn         98         4         100         28,137,44         With adjustable stand           Lumley Reference LM5         499         2x         88         6         150         25,81,21         Floor standing           Lumley Reference LM5         499         x </td <td></td> <td>_</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td>		_		-		-		
Linn Kaber Aktiv         1995         3x IB         -         -         20,90,28         Integral stands, boundary           Linn Keltik Aktiv         4400         3x IB         -         -         26,104,37         Integral stands, boundary           L Voice Horning Agathon         4400         Horn         96         8         100         36,48,115         Floor standing           Living Voice Air Partner         14000         Horn         104         8         100         64,160,90         Floorstanding, three-way           Lowther Fidelio         1465         Horn         96         8         100         29,100,43         160hm option           Lowther Academy         1805         Horn         97         8         100         29,100,43         160hm option           Lowther Bel Canto         2035         Horn         97         8         100         28,132,44         Including adjustable stand           Lowther Delphic         2525         Horn         98         4         100         28,132,44         With adjustable stand, 160hm o           Lumley Reference LM4         375         2x         86         6         120         18,36,22         Stand mount           Lumley Reference LM3         895		_	Name and Address of the Owner, where	-	4	60		
Linn Keltik Aktiv	Linn Kaber Passive	1298	3x IB	87	4	60	20,90,28	Integral stands, 60w minimum
Living Voice Forming Agathon   3400   Horn   104   8   100   64,110,70   Floor standing   Horn   104   8   100   64,110,70   Floorstanding, three-way   Living Voice Air Partner   14000   Horn   108   8   100   64,160,90   Floorstanding, three-way   Living Voice Air Partner   14000   Horn   108   8   100   64,160,90   Floorstanding, Vitavox drivers   1465   Horn   96   8   100   29,100,43   160hm option   Lowther Bel Canto   2035   Horn   97   8   100   28,132,44   Including adjustable stand   Lowther Delphic   2525   Horn   98   4   100   28,137,44   With adjustable stand   Lowther Delphic   2525   Horn   98   4   100   28,137,44   With adjustable stand   Lowther Delphic   2525   Horn   98   4   100   28,137,44   With adjustable stand   160hm option   Lumley Reference LM5   499   2x   88   6   150   25,46,21   Stand mount   Lumley Reference LM5   895   3x   90   8   120   27,87,28   Floor standing   Lumley Reference LM3   895   3x   90   8   120   27,87,28   Floor standing   Lumley Reference LM1   8500   5x   89   4   500   71,122,40   2 box, floor standing   Lumley Reference LM1   8500   5x   89   4   500   71,122,40   2 box, floor standing   MAG Audio Audio A90   3600   Ribbon   80   3,7   300   52,150,8   Two-way full range ribbon   Magnepan SMGa   688   90   8   150   23,15,11   Nearfield monitor   Manticore Minaret F1   750   IB   94   8   100   23,15,11   Nearfield monitor   Manticore Minaret F1   750   IB   94   8   100   23,15,11   Nearfield monitor   Martin-Logan Statement   0   Hybrid   87   - 23,140,10   ESL/dynamic, biwire,   Martin-Logan Statement   0   Hybrid   89   - 3,1160,29   Dynamic bass/electrostatic, tw   Martin-Logan Sequel II   3277   Hybrid   89   - 42,160,29   Dynamic bass/electrostatic, tw   Martin-Logan Statement   870   490   490   - 42,160,29   Dynamic bass/electrostatic, tw   Martin-Logan Statement   870   490   490   - 59,163,28   ESL/dynamic, active crossover   Metaxas Emperor   8500   ESL   88   8100   70,230,8   Full range angel panel ESL   Metaxas Emperor   19500   ESL   98	Linn Kaber Aktiv	1995	3x IB	+	-	-		Integral stands, boundary
Living Voice Tone Scout		_	COMMUNICATION OF THE PERSON NAMED IN	-	-			
Living Voice Air Partner			CONTRACTOR DESCRIPTION					
Lowther Fidelio		_		100000000000000000000000000000000000000	-			
Lowther Academy		_	THE RESIDENCE AND ADDRESS.		_			Floorstanding, vitavox drivers
Lowther Bel Canto   2035   Horn   97   8   100   28,132,44   Including adjustable stand		-	The second second second					16ohm option
Lumley Reference LM4		_						
Lumley Reference LM4				-				0 /
Lumley Reference LM5         499         2x         88         6         150         25,46,21         Stand mount           Lumley Reference LM6         650         2x         88         6         150         25,81,21         Floor standing           Lumley Reference LM3         895         3x         90         8         120         27,87,28         Floor standing           Lumley Reference LM1         2500         4x         88         8         200         33,110,29         Open baffle, floor standing           Lumley Reference LM1         8500         5x         89         4         500         71,122,40         2 box, floor standing           Lumley Reference LM1         8500         5x         89         4         500         71,122,40         2 box, floor standing           Lumley Reference LM1         8500         5x         89         4         500         71,122,40         2 box, floor standing           Lumley Reference LM2         800         360         37         300         52,150,8         Two-way full range ribbon           MAG Audio Audio Adol Adol Adol Adol Adol Adol Adol Ado				Name and Address of the Owner, where				
Lumley Reference LM3         895         3x         90         8         120         27,87,28         Floor standing           Lumley Reference LM2         2500         4x         88         8         200         33,110,29         Open baffle, floor standing           Lumley Reference LM1         8500         5x         89         4         500         71,122,40         2 box, floor standing           MAG Audio Audio Audio A90         3600         Ribbon         80         3,7         300         52,150,8         Two-way full range ribbon           Magnepan SMGa         688         -         90         8         150         -         Two-way full range ribbon           Manticore Minaret         450         IB         94         8         100         23,15,11         Nearfield monitor           Mantiore Matisse         1300         IB         90         8         200         100,28,22         Fibrelam cabinets           Martin-Logan Statement         0         Hybrid         87         -         23,140,10         ESL/dynamic, biwire,           Martin-Logan Sequel II         3277         Hybrid         89         -         -         23,123,23         Invo-way           Martin-Logan Sequel II         3277<		499	2x		THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TW	The second second		
Lumley Reference LM2         2500         4x         88         8         200         33,110,29         Open baffle, floor standing           Lumley Reference LM1         8500         5x         89         4         500         71,122,40         2 box, floor standing           MAG Audio Audio A90         3600         Ribbon         80         3.7         300         52,150.8         Two-way full range ribbon           Magnepan SMGa         688         90         8         150         -           Manticore Minaret F1         450         IB         94         8         100         23,15,11         Nearfield monitor           Mantin-Logan Katisse         1300         IB         90         8         200         100,28,22         Fibrelam cabinets           Martin-Logan Aerius         2288         Hybrid         87         -         23,140,10         ESL/dynamic, biwire,           Martin-Logan Stylos         2495         Hybrid         89         -         -         31,160,29         Dynamic bass/electrostatic, tw           Martin-Logan Quest Z         4333         ESL         86         -         -         62,127,32         Full range panel           Martin-Logan Quest Z         4998         Hybrid								
Lumley Reference LM1         8500         5x         89         4         500         71,122,40         2 box, floor standing           MAG Audio Audio A90         360         Ribbon         80         3.7         300         52,150,8         Two-way full range ribbon           Magnepan SMGa         688         -         90         8         150         -           Manticore Minaret         450         IB         94         8         100         23,15,11         Nearfield monitor           Mantiocre Maitisse         1300         IB         90         8         200         100,28,22         Fibrelam cabinets           Martin-Logan Statement         0         Hybrid         87         -         -         23,140,10         EStJ dyramic, biwire,           Martin-Logan Stylos         2498         Hybrid         87         -         -         23,122,30         Two-way           Martin-Logan Stylos         2495         Hybrid         89         -         -         23,123,30         Two-way           Martin-Logan Sequel II         3277         Hybrid         89         -         -         31,160,29         Dynamic bass/electrostatic, tw           Martin-Logan Quest Z         4333         ESL			-		-	The Contract of the Contract o		
Mag Audio					-	Name and Address of the Owner, where the Owner, which is		
Manticore Minaret		_	-		_			
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           Martin-Logan Statement         0         Hybrid         87         -         23,140,10         ESL/dynamic, biwire,           Martin-Logan Statement         0         Hybrid         89         -         -         23,122,30         Two-way           Martin-Logan Stylos         2495         Hybrid         28         23,35,28         In wall           Martin-Logan Sequel II         3277         Hybrid         89         -         -         31,160,29         Dynamic bass/electrostatic, tw           Martin-Logan Quest Z         4998         Hybrid         90         -         -         42,160,29         Dynamic bass/electrostatic, tw           M-L Monolith IIIP         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			-				- 02,100,0	1445 Way full raily6 HUDUH
Manticore Minaret F1         750         IB         94         8         100         23,15,11         Nearfield monitor           Manticore Matisse         1300         IB         90         8         200         100,28,22         Fibrelam cabinets           Martin-Logan Statement         0         Hybrid         87         -         23,140,10         ESL/dynamic, biwire,           Martin-Logan Aerius         2288         Hybrid         89         -         23,122,30         Two-way           Martin-Logan Stylos         2495         Hybrid         89         -         -         31,160,29         Dynamic bass/electrostatic, tw           Martin-Logan CLS Itz         4333         ESL         86         -         62,127,32         Full range panel           Martin-Logan Quest Z         4998         Hybrid         90         -         42,160,29         Dynamic bass/electrostatic, tw           M-L Monolith IIIP         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 Empers         3850         ESL         88         8         100<		_	IB				23,15,11	Nearfield monitor
Martin-Logan Statement   0   Hybrid   87   -   23,140,10   ESL/dynamic, biwire,   Martin-Logan Statement   0   Hybrid   87   -   23,140,10   ESL/dynamic, biwire,   Martin-Logan Stylos   2495   Hybrid   2x   88   23,35,28   In wall   Martin-Logan Stylos   2495   Hybrid   2x   88   23,35,28   In wall   Dynamic bass/electrostatic, tw   Martin-Logan CLS Itz   4333   ESL   86   -     62,127,32   Full range pariel   Martin-Logan Quest Z   4998   Hybrid   89   -     42,160,29   Dynamic bass/electrostatic, tw   Dynamic bass/electrostatic, tw   Martin-Logan Quest Z   4998   Hybrid   89   -     59,163,28   ESL/dynamic, two-way   M-L Monolith IIIX   9354   Hybrid   89   -     59,163,28   ESL/dynamic, active crossover   Metaxas Empress   3850   ESL   88   8   100   50,150,8   Full range single panel ESL   Metaxas Emperor   19500   ESL   99   8   250   100,230,8   Full range 3-panel ESL   Mission 73S   100   2xPt   89   8   50   15,26,15   Stand mount, shelf, w/brackets								-
Martin-Logan Aerius         2288         Hybrid         89         -         23,122,30         Two-way           Martin-Logan Stylos         2495         Hybrid         2x         88         23,35,28         In wall           Martin-Logan Sequel II         3277         Hybrid         89         -         31,160,29         Dynamic bass/electrostatic, tw           Martin-Logan Quest Z         4398         Hybrid         90         -         62,127,32         Full range pariel           M-L Monolith IIIP         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         100         50,150,8         Full range single panel ESL           Metaxas Emperor         19500         ESL         99         8         250         100,230,8         Full range, multi-panel ESL           Mission 73S         100         2xPt         89         50         15,26,15         Stand mount, shelf, w/brackets			_		_			
Martin-Logan Stylos         2495         Hybrid         2x         88         23,35,28         In wall           Martin-Logan Sequel II         3277         Hybrid         89         -         -         31,160,29         Dynamic bass/electrostatic, tw           Martin-Logan Quest Z         4998         Hybrid         90         -         -         62,127,32         Full range panel           M-L Monolith IIIP         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 Emperor         19500         ESL         99         8         250         100,230,8         Full range, multi-panel ESL           Mission 73S         100         2xPt         89         8         50         15,26,15         Stand mount, shelf, w/brackets		-	Hybrid		-	-		
Martin-Logan Sequel II         3277         Hybrid         89         -         31,160,29         Dynamic bass/electrostatic, tw           Martin-Logan CLS IIz         4333         ESL         86         -         -         62,127,32         Full range panel           Martin-Logan Quest Z         4998         Hybrid         90         -         -         42,160,29         Dynamic bass/electrostatic, tw           M-L Monolith IIIP         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 Emperor         19500         ESL         99         8         250         100,230,8         Full range, angle panel ESL           Mission 73S         100         2xPt         89         8         50         15,26,15         Stand mount, shelf, w/brackets		_	<b>INVESTIGATION</b>	Charles Annual Control	5	-		
Martin-Logan CLS ltz         4333         ESL         86         -         62,127,32         Full range pariel           Martin-Logan Quest Z         4998         Hybrid         90         -         42,160,29         Dynamic bass/electrostatic, tw           M-L Monolith IIIP         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         8         8         100         50,150,8         Full range single panel ESL           Metaxas Czar         8250         ESL         94         8         100         70,230,8         Full range, multi-panel ESL           Metaxas Emperor         19500         ESL         99         8         250         100,230,8         Full range, multi-panel ESL           Mission 73S         100         2xPt         89         8         50         15,26,15         Stand mount, shelf, w/brackets		_			000mm00000			
Martin-Logan Quest Z         4998         Hybrid         90         -         42,160,29         Dynamic bass/electrostatic, tw           M-L Monolith IIIP         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 aparel ESL           Metaxas Emperor         19500         ESL         99         8         250         100,230,8         Full range, multi-panel ESL           Mission 73S         100         2xPt         89         8         50         15,26,15         Stand mount, shelf, w/brackets					-	-		
M-L Monolith IIIP         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 73S         100         2xPt         89         8         50         15,26,15         Stand mount, shelf, w/brackets		_	THE RESIDENCE OF THE PERSON NAMED IN	THE RESIDENCE OF THE PERSON NAMED IN	-			
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 73S         100         2xPt         89         8         50         15,26,15         Stand mount, shelf, w/brackets				-	100000000	-		
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 73S         100         2xPt         89         8         50         15,26,15         Stand mount, shelf, w/brackets		_	Annual Control of the last of	THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN				
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 73S         100         2xPt         89         8         50         15,26,15         Stand mount, shelf, w/brackets					8	100		
Metaxas Emperor         19500         ESL         99         8         250         100,230,8         Full range, multi-panel ESL           Mission 73S         100         2xPt         89         8         50         15,26,15         Stand mount, shelf, w/brackets		_		_				
			ESL	-	8			
Mission 731 130 2xPt 89 8 75 31 17 20 Stand mount hookshelf								
	Mission 731	130	2xPt	89	8	75	31 17 20	Stand mount hookshelf



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, 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 for full test results.

Audiolab 8000A

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.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory for full test results.

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	Price	Туре	Sens	mpedance	Power		
Model	8	ē	S	93	9	Size	Special
LOUDSPEAKERS Mission 760i	130	2x Pt	89	6	75	18,30,20	Stand mount, boundary siting
Mission 73C	150	2x	90	8	75	16,20,43	TV top, shielded
Mission 760i SE	150	2x Pt	89	6	75	18,30,20	Stand mount, boundary siting
Mission 732	200	2x	89	8	100	41,21,31	Stand mount, boundary
Mission 780SE	270	2x pt	89	6	75	18,30,26	Stand mount, boundary siting
Mission 733 Mission 751	300	2x 2x Pt	89 89	8	100 75	84,21,31 19,32,27	Floor standing, boundary Stand mount, boundary
Mission 734	430	3x	90	8	125	84,21,33	Floor standing, boundary
Mission 752	500	2x Pt	90	8	125	20,84,26	Floor stand, boundary
Mission 735	600	3x	90	8	150	106,21,33	
Mission 753	700	2x Pt	90	6	150	21,88,32	Floor stand, transverse folded
Modulus Subwoofer MA Monitor 1 Gold	1750 200	Active 2x IB	88	8	250 70	49,45,45 16,24,16	Variable phase, high/low filte  Miniature stand/shelf mount
MA Monitor 7 Gold II	245	2x Pt	89	8	70	17,35,17	Stand/shelf mount
Monitor Audio MA100G	280	2x IB	89	8	120	16,24,16	As MA Monitor 1, shielded
Monitor Audio MA201	300	2xPt	90	8	100	22,41,27	Gold dome tweeter, pulp bass
MA Monitor 9 Gold II	350 450	2x Pt 2xPt	88 90	8	100	21,37,21	Stand/shelf mount
Monitor Audio MA202  MA Monitor 14 Gold II	500	3x	88	8	120	22,89,29 21,76,24	Gold dome tweeter, pulp bass Floor/shelf standing
Monitor Audio Studio 2	600	2x	89	8	120	27,17,20	Troorbin standing
Monitor Audio Studio 6	900	2x Pt	88	8	200	22,35,25	Stand/shelf mount, metal bass
Monitor Audio Studio 12	1000	2	90	8	200	92,17,20	Black - rosewood extra
MA Studio 20SE	2200 4000	2x Pt	90	8	200 300	20,92,26	Floor stand, metal cone bass Floor stand, metal bass & mid
Monitor Audio Studio 50 Mordaunt-Short M505	110	2x Pt	87	8	60	26,17,18	Bookshelf, wall positioning
Mordaunt-Short CS1	115	Pt	87	8	100	16,23,13	Shielded, Positec protected
Mordaunt-Short MS10	140	Pt	88	8	60	19,31,22	Alloy tweeter, MCS woofer
Mordaunt-Short HT30	150	Pt	90	8	120	25,43,29	Shielded, Positec protected
Mordaunt-Short SW1 Mordaunt-Short MS20	150 190	Sub Pt	90	8	100 75	24,58,26	Coupled cavity, matches CS1 Alloy tweeter, MCS woofer
Mordaunt-Short MS30	270	Pt	90	8	100	25,43,28	Alloy tweeter, MCS woofer
Mordaunt-Short HT50	275	Pt	90	8	120	25,87,33	Positec, integrated subwoofer
Mordaunt-Short MS40	400	Pt	90	8	150	23,82,28	Alloy tweeter, MCS woofer
Mordaunt-Short MS50	530	Pt	90	8	200	25,87,33	Alloy tweeter, MCS woofer
NAD 800 NAD 802	149 219	Pt Pt	90	6	60 80	20,32,24	10 litre enclosure
Naim IBL Active	776	- I	-	-	65	20,40,26	11.5 litre enclosure  Boundary, floor standing
Naim IBL Passive	895	1	86	6	65	25,80,28	Boundary, floor standing
Naim SBL Active	1586	-		1	75	27,89,27	Boundary, floor standing
Naim SBL Passive	1708	-740	88	6	75	27,89,27	Boundary, floor standing
Naim DBL Active Naim DBL Passive	6991 7672		92	4	200	65,120,40 65,120,40	Boundary, floor standing Boundary, floor standing
Neat Petite	595	2x	87	6	100	20,30,18	Boundary, noor standing
Orelle Orator II	699	2xPt	91	8	100	27,40,30	Time aligned, biwire
Origin Live OLIB	289	-	89	8	100	20,30,19	
Origin Live OL2B	349	-	90	8	150	19,80,19	Floor standing
Origin Live OL-1AS Origin Live OL-1A	399 399		89 86	8	199 150	20,30,190	Floor standing
Origin Live OI-2AS	469	-	90	8	100	19,80,19	Floor standing
Origin Live OL-2A	469	-	86	8	150	19,80,19	Floor standing
Origin Live OL-1	499		86	8	150	20,30,19	
Origin Live OL-2	649	-	86	8	150	19,80,19	Floor standing
Origin Live OL3 Origin Live Conqueror	975 1600	3x	88	8	150 150	19,83,23 23,87,23	Floor standing Floor standing
Pentachord A	449	IB	87	8	80	21,28,20	Direct coupled
Pentachord B	499	IB	87	8	80	52,35,52	Active crossover, including el
Pentachord Pentode	695	IB	87	4	80	20,74,20	Active crossover, including el
Pentachord P'column	1579	2xIB	87	4	80	21,108,20	Including active crossover, fo
Philips Legend FB720 Philips DSS930	200 1300	Pt Active	80	7 75	75	21,37,31 22,58,33	Active digital loudspeaker
Pink Triangle Ventrical	865	Hybrid	86	11	100	15,80,32	Ribbon hybird
Pioneer CS-3030	120	3x Pt	90	8	120	27,54,24	Bookshelf
Pioneer CS-5030	170	3x Pt	90	8	140	31,53,25	Bookshelf
Pioneer CS-7030	230	3x Pt	90	8	190	35,70,28	Bookshelf
Pioneer S-4UK Pioneer S-60	250 270	2x Pt	88 87	6	80	21,37,28	No crossover, UK optimised Bookshelf
Pioneer CS-9030	280	3x Pt	92	8	220	39,75,29	Bookshelf
Pioneer S-80	370	2x	88	4	80	23,56,28	Bookshelf
Pioneer S-200	600	2x	89	4	120	26,90,34	Biwire, floor standing
Pioneer S-400	950 200	2x Pt	89	8	160	27,96,38	Biwire, floor stand, shielded Stand mount, free standing
Polk S4 Polk M3	200	2x Pt	91 89	8	- 100	24,39,18 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	90	8	250 250	27,83,29	Floorstanding Floorstanding, biampable
Polk LS90	1700	3x Pt	90	8	250	31,94,37	Floorstanding, biampable Floorstanding, biampable
Posselt Alpha I	950	Pt	89	8	60	24,44,28	noorotanang, otampaolo
Posselt Alpha II	1200	Pt	89	8	90	23,100,27	
Posselt Alpha III	1350	Pt	89	8	100	26,102,30	χ,
Posselt Alpha IV	1500	Pt	89	8	135	27,104,31	Liltra consitius
Posselt Albatros Proac Tablet 3	2200 479	Hrn -	93 87	8	200 100	31,186,32 17,28,23	Ultra sensitive Stand mount
Proac Studio 100	699	-	87	8	150	20,40,25	Stand mount
Proac Tablette 3 Sig	779		87	8	100	16,28,23	Stand mount
Proac Response One S	999		87	8	100	18,30,23	to all the
Proac Response Two	1634	-	88	8	150	23,45,28	lap.

Model	Price	Туре	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS						0.20	- Control of the cont
Proac Studio 200	1850		89	8	250	23,115,28	Floor standing
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 91	6	400	26,79,43	Transmission line
Prof Monitor Co MB1P Prof Monitor Co BB5P	4681 6754	2x 2x	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
Realistic Minimus 3.5	30	-	-	8	15	9,15,5	r and, simulates point source
Realistic Minimus 21	30	-	-	8	10	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	- 1	19,31,19	Stand/wall/shelf mount
Rega EL8	298	2x		8		17,72,20	Floor stand
Rega ELA Mk II	498	2x	-	8	-	30,80,20	Floor stand
Rega XEL	1040	2x	-	6		20,82,30	Floor stand
Rehdeko RK115	1200	Pt	104	8		34,42,28	
Rehdeko RK125	2300	Pt Pt	102	8		34,61,28	
Rehdeko RK145 Rehdeko RK175	3400 6500	Pt	102	8		39,66,29 50,96,37	
REL Strata	499	Sub	100	-	1kw	42,52,31	Active, internal amp
REL Stadium	795	Sub			1kw	58,52,36	Active, internal amps
REL Stentor	1495	Sub			1kw	59,56,37	Active, internal amp
REL Studio	2995	Sub			1kw	69,62,52	Active, internal amp
Revolver by Ram Beretta	100	2xPt	87	6	80	30,19,22	Bookshelf/stand mount
Revolver by Ram Colt	149	2xPt	88	6	100	30,19,22	Bookshelf/stand mount
Revolver by Ram Purdey	249	2xPt	88	6	120	75,19,22	Floor stand, with plinth
Rogers LS1	199	2x	2505	6	75	20,20,30	Stand required
Rogers LS2a/2	250	2x	86	8	100	23,36,21	Use about 30cm from wall
Rogers LS4a/2	330	2x	88	8	- 10 AND	:-	Various finishes
Rogers Studio 3	449	2x	85	8	45	19,30,16	Stand required
Rogers AB1C Subwoofer	499	1x		8	50	57,19,16	Passive subwoofer
Rogers LS3/5A	699	2xlB	-	12	50	31,19,16	Small broadcast monitor
Rogers Studio 5	699	2x	-	8	100	25,25,48	Stand required
Rogers P20	750 832	2x Pt	88	8	150	26,42,30	Stand mount, stands available
Rogers P22		2x Pt	Name of Street	8	150 150	26,85,30 30,63,30	Floor stand, sloping baffle Stand required
Rogers Studio 7 Rogers P24a	899 1268	2x 3x	89 86	4	250	25,104,35	Internal bass, floor standing
Rogers LS5/9	1531	2x	87	8	100	28,46,27	internal bass, floor standing
Roksan Ojan 3	895	Pt	88	8	250	28,76,460	Floor standing, sprung tweeter
Royd The Herald	198	Pt	86	8	100	31,20,18	Stand mount
Royd The Minstrel	259	Pt	86	8	100	69,18,12	Side port, floor standing
Royd Merlin	298	Pt	86	8	100	31,20,18	Veneered
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	Pt	90	8	150	96,37,26	Floor standing, free space
Ruark Swordsman Plus II	299	2x IB,	87	8	100	20,38,27	Near wall/stand mount
Ruark Sabre II	385	2x IB	87	8	100	23,37,27	Wall/free, on stands
Ruark Templar	479	2x IB	87	8	100	19,70,27	Wall or free, no stands reqd
Ruark Talisman II	699	2x Pt	88	8	100	23,84,32	Free space, floor standing Free space, stand mount
Ruark Broadsword II Ruark Paladin	849 1099	2x IB 2xPt	86 90	8	120 150	29,43,38 88,29,38	Floor standing
	1495	3x Pt	88	6	150	24,92,32	Free space, floor standing
Ruark Crusader II Ruark Equinox	1749	2x Pt	88	6	150	25,88,34	Free space, stands included
Ruark Accolade	2549	3x Pt	89	8	200	29,100,38	Free space, startus included Free space, floor standing
Sansui SP-X111K	125	-	89	6	50	18,30,20	
SD Acoustics SD3R	399	Pt	87	8	100	20,38,30	Free standing, ribbon tweeter
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 Super Elf	790	2x	87	6	100	21,26,37	Finnish birch cabinet
Shahinian ARC	1675	3x	88	6	150	35,69,25	With passive bass radiator
Shahinian Obelisk	2490	3x	89	6	200	37,74,32	Omni-directional
Shahinian Hawk	4950	3x	90	6	250	43,95,32	Modular omni-directional
Shahinian Diapason	8350	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 Minima Ama		2x	88			20,34,31	Compact, stand mount
Sonus-Faber Electa	1790	2x	88			38,27,24	Compact, stand mount
Sonus-Faber Amator	2992	2x 2x	88			37,22,35 19,38,38	Compact, stand mount Compact, limited edition
Sonus-Faber Guarneri Sonus-Faber Extrema	5500 5991	2x	88			55,27,46	'Reference Standard'
Sony SS-E300	50	IB	88	8	160	73,41,20	Magnetically shielded
Sony SS-V77	50		90	16	-	19,9,14	Full range surround speakers
Sony SS-E500	80	IB	88	8	120	35,47,20	Magnetically shielded
Sony SS-J90AV	100	200	12	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	7	-	-	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, curved panel
Sound-Lab A3	11990	ESL	88	8	300	78,187,23	Any finish, curved panel
Sound-Lab-A1	13990	ESL	88	8	400	91,208,27	Curved panel, any finish
Spendor LS3/5A	630	2x	83	8	40	19,30,16	BBC inspired location monitor
Spendor S20	760	- 2x	84 85	8	70	22,38,26	On stands, free space
Spendor SP3/1					70	40,22,25	Stand mount, free space
Listings marked in re	lac ch	own bel	ow) are	COVE	red in the	Hi-Fi Choic	e Directory

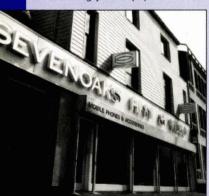
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followed by 6 equal month payments. Example: Cost £600. Deposit £60 plus 6 payments of £90.

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CD PLAYER
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Wide range linear circuit ensures, lively, dynamic presentation

#### JPW MINIM SPEAKERS

Fast, dry bass which never goes missing

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HI FI SEPARATES
SYSTEM...

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Exceptional performance, excellent value

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Breathes life into most music
WHAT HI FI? 93/94 AWARDS
WINNER \*\*\*\*

#### JPW MINIM SPEAKERS

Fast, dry bass which never goes missing

WHAT HI FI? \*\*\*\*

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CD REPLAY FROM AN 'AUDIOPHILE' HI FI SEPARATES SYSTEM...

£399°°

#### TEAC CDP3500 CD PLAYER

Expressive, confident, pacey, natural presentation

WHAT HI FI? \*\*\*\*

#### ROTEL RA960BXMKII AMPLIFIER

Detailed, aggressive presentation, good phono stage

HI FI WORLD Recommended

#### MISSION 760i SPEAKERS

SOUND WHAT HI FI? \*\*\*\*\*
BUILD WHAT HI FI? \*\*\*\*
COMPATABILITY WHAT HI FI? \*\*\*\*\*
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# System A

**CD REPLAY FROM A** QUALITY HI FI SEPERATES SYSTEM...

AIWA XC 300 CD PLAYER Enjoyable, neatlty styled, well equipped WHAT HI FI? \*\*\*\*

#### MARANTZ PM44SEMK1 **AMPLIFIER**

Breathes life into most music WHAT HI FI? 1993/4 AWARD WINNER \*\*\*\*

**MISSION 760i SPEAKERS** SOUND WHAT HI FI? \*\*\*\* **BUILD WHAT HI FI?** \*\*\*\* **COMPATABILITY** WHAT HI FI? \*\*\* VALUE WHAT HI FI? \*\*\*\*

RRP £480.00

# System B

**CD REPLAY FROM A** TRUE 'AUDIOPHILE' **HI FI SEPERATES** SYSTEM...

#### TEAC CDP3500 CD PLAYER

Expressive, confident, pacey, natural presentation

#### WHAT HI FI? \*\*\*

#### **ROTEL RA960BXMKII AMPLIFIER**

Detailed, aggressive presentation, good phono stage

HI FI WORLD Recommended

#### TDL RTL2 (BLACK) SPEAKERS

WHAT HI FI? \*\*\*\* Entralling, room-filling and rhythmic

RRP £800.00

#### CASSETTE DECK

#### Sony TCWR635S

"Twin cassette with Dolby S Recordina".

£189.00

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#### Top Name CD Player!

"An absolute bargain at this price"

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" 1993/4 Best Tuner ".

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£159.00

#### **AMPLIFIER**

#### Rotel RA960BXMK2

"Detailed, aggressive presentation, good phono stage

> HI FI WORLD Recommended

WAS £199.00

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#### Mission 760i

"Open and very exciting presentation"

WHAT HI FI? BEST BUY

£129 £99.00 pair

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#### Marantz CD63SE

"Stunning sound, exceptional value for money"

WHAT HI FI?

£349.95

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#### 7PW Minim

"Fast, dry bass which never goes missing

WHAT HI FI?

£59.00 pair

#### **CASSETTE DECK**

#### Sony TCK411

"When used for making recordings, reproduction is faithful, 3 Head System'

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"Sound quality that will keep it in the best sellers list"

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#### **CASSETTE DECK**

#### Technics RSBX501

"Crisp lively sound, lots of features'

WHAT HI FI?

£179.95

#### **CASSETTE DECK**

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"Bargain Cassette Deck"

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£119.95

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#### Yamaha

FREE CENTRE

SPEAKER WITH SELECTED SYSTEMS

SAVE £149.00

#### **CASSETTE DECK**

#### Sony TCK611S

"Best cassette player in 1993/4

WHAT HI FI? AWARD WINNER 1993/4 \*\*\*\*

WAS £249.00

### DAC

#### Audio Alchemy DAC-IN-THE-BOX

"Marvel of modern technology and sound".

WHAT HI FI? AWARD WINNER 1994/5 ★★★★

CLAIM E20 CD £199.95 VOUCHER £199.95

#### **SPEAKERS**

#### TDL RTL2

(black)

"Enthralling, room-filling and rhythmic"

CLAIM £30 WORTH OF SPEAKER CABLE

£299.95 pair

## **AMPLIFIER** Marantz PM44SE MK1

"Powerful presentation yet clear and subtle, with well-balanced, natural character that breathes life into most music"

> **WHAT HI FI?** AWARD WINNER 1993/4 \*\*\*\*

£149.00

## **SPEAKERS**

## Kef Reference 105/3 (black only)

"Clean, clear, controlled delivery with good bass depth and impact. Rich tone with impressive three dimensional sound staging"

**SAVE £1000** 

WAS £2295

£1295.00 pair

#### **CD PLAYER**

#### Teac CDP3500

"Mixture of bitstream good manners and multibits healthy appetite for rock. Expressive, confident, pacey, natural consistant presentation"

WHAT HI FI? \*\*\*\*

£149.00

# EX DISPLAY HI FI BARGAINS

It's that time of year again. We're clearing out or replacing lots of demonstration and display stock at huge savings. Stocks are obviously limited, so you must be quick to get the best buys. Some products are being cleared never to be seen again, whilst others are simply demonstration stock rotation. Due to the complexity of handling so much product at so many of our branches we are asking you to phone 0732 458985 to check availability before making your journey. All products are new but on display - None are second hand - and sold with full instructions, accessories, packaging and manufacturers guarantees. If we still have the product you want in stock when you call we can arrange for it to be delivered to a convenient branch. This is a genuine, but limited offer - Act now to avoid disappointment.

RRP NOW

	RRP	NOW
ARCAM Alpha 3 Amp Alpha 6 Amp Alpha 5 CD (Not+) Delta 250	£ 199.00 £ 329.00 £ 449.00 £ 749.00	£ 149.00 £ 269.00 £ 349.00 £ 599.00
Delta 270 Delta 290 Delta 70.3 Black Box 3 Black Box 5 Black Box 50	£ 799.00 £ 479.00 £ 649.00 £ 359.00 £ 399.00 £ 449.00	£ 639.00 £ 389.00 £ 399.00 £ 149.00 £ 199.00 £ 359.00
AIWA ADF450 LCX10 LCX9 NSX340 ALBARRY	f 119.00 f 399.00 f 349.00 f 299.00	£ 89.00 £ 299.00 £ 264.00 £ 224.00
ALPHAS(	£ 349.00	£ 264.00

DDD NOW

#### ALPHASON RACKS OLD RANGE ALL 1/2 RRP

ALL 1	/2 HHF	
<b>AUDIOLAB</b> 8000A-91 8000C-91 8000M Each 8000P-91 <b>AURA</b>	f 479.00 f 459.00 f 699.00 f 649.00	£ 379.00 £ 369.00 £ 559.00 £ 519.00
VA100 Mk 1 CD50 B&O	f 329.00 f 399.00	£ 229.00 £ 279.00
BC7000 CD7000 RL1000 RL6000 Penta 3 LABLCS9000 Vox Cona BC2500 inc Spkrs BC9300 inc Spkrs BG7000 B&W	f 800.00 f 800.00 f 215.00 f 870.00 f 2375.00 f 900.00 f 200.00 f 1700.00 f 555.00	£ 559.00 £ 559.00 £ 149.00 £ 609.00 £ 1664.00 £ 629.00 £ 139.00 £ 1189.00 £ 1049.00 £ 389.00
Centrale Theatro 804 805 DM600 DM610 DM620 Team Solid Solid Bass Team Bass Twin Bass CASTLE	f 149.00 f 299.00 f1495.00 f 894.00 f 189.00 f 429.00 f 349.00 f 349.00 f 159.00 f 229.00	£ 104.00 £ 209.00 £1049.00 £ 624.00 £ 144.00 £ 324.00 £ 99.00 £ 244.00 £ 104.00 £ 159.00
Chester Mk1 CELESTION	£ 649.00	£ 399.00
CEL1 DENON PMA450SE PMA480 DRS610 DRS810 DRW760 DCD1290 D-250 Ex Spkrs EXPOSURE	f 109.00 f 269.00 f 219.00 f 199.00 f 299.00 f 329.00 f 929.00	£ 69.00 £ 214.00 £ 174.00 £ 139.00 £ 209.00 £ 199.00 £ 229.00 £ 744.00
EXPOSURE EXP15MM EXP17 EXP18 EXP20 EXP6 EXP4 GOODMANS (B		£ 544.00 £ 579.00 £ 564.00 £ 469.00 £ 374.00 £1349.00
GSA360 GCD360	£ 109.00 £ 99.00	£ 59.00 £ 59.00

£ 109.00 £ 59.00

£ 109.00 £ 69.00 £ 169.00 £ 79.00

GCD600

			ì	H			
GSP360	£				.00	£	29.00
GSP600	£				.00	£	29.00
GSP650 HEYBROOK	£		5	9	.00	£	29.00
Prima	£	1	2	9	.00	£	89.00
JAMO	_		_	_	00	_	00.00
Centre 100 SW150	£				.00	£	99.00 139.00
JVC	_					-	133.00
Adagio S5OR	£	4	9	9	.00		374.00
Adagio S6OR	£				.00		449.00 339.00
Adagio C33 UX-C7	£				.00	£	269.00
UX-A4	£	3	4	9.	.00	£	264.00
W58CD	£	4	9	9.	.00	£	374.00
KEF 70S	£	2	q	q	.00	f	239.00
Q60					.00	£	199.00
101/2					00		249.00
102/2 103/4	£				.00	£	349.00 699.00
107/2					.00		1899.00
104/2	£	15	59	15	.00	£	799.00
105/3	£	22	29	15	.00	£	1199.00
KENWOOD KA1060	£	1	3	q	.00	£	124.00
KA2060	£	1	6	9.	.00	£	154.00
KX3060	£	1	6	9	.00	£	154.00
KXW4060 DP2060	£	1	7	9.	.00	£	164.00 144.00
DP3060	£	1	9	9.	.00	£	179.00
DPR4060	£				.00	£	179.00
KT1060L	£				.00	£	109.00
KT2060L MARANTZ	£	1	4	9.	.00	£	134.00
PM32	£	1	3	9.	.00	£	99.00
PM53	£				.00	£	174.00
PM54SE CD10	£	2 1 1	9	9.	.00	£	209.00 849.00
SYS1010					.00		629.00
SYS1020	£	9	9	9	.00	£	699.00
PM44SE Mk1 CD52IISE	£				.00	£	124.00 189.00
DD 82	£				.00		179.00
SR 53	£	2	6	9.	.00	£	179.00
ST40L	£	1	3	9.	.00	£	99.00
MISSION 761i	£	1	7	9	.00	£	109.00
MONITOR AUDI	Ю	)				_	
Monitor 7 Mon 201	£				00	£	209.00 209.00
Mon 202	£	4	4	9.	.00	£	314.00
SW200	£	2	9	9.	.00	£	209.00
MORDAUNT SH CS-1	£				.00	£	79.00
Decoder	£	2	9	9.	00	£	209.00
SW-1	£	1	4	9.	00	£	104.00
MS10 MUSICAL FIDEL	£			9.	00	£	94.00
A1 MkIII	£	3	2		.00	£	199.00
CDTC	£	5	4	9.	00	£	329.00
The Preamp J1 Mkll	£				00	£	134.00 179.00
NAD	-	_	_	٠.	55	-	., 5.00
NAD306	£				00		244.00
NAD802 NAKAMICHI	£	2	2	9.	.00	£	159.00
DR1	£	8	4	9.	.00	£	679.00
DR2	£	5	9	9	00	£	479.00
DR3	£	3	9	9.	00	£	319.00
PARTINGTO	10	v	5	<b>S I</b>	PE/	ιĸ	ER

#### PARTINGTON SPEAKER STANDS & RACKS 1/2 RRP

PHILIPS		
DCC300	£ 179.00	£ 124.00
DCC600	£ 199.00	£ 139.00
DCC900	£ 199.00	£ 139.00

	RRP	NOW
PIONEER		
A203	£ 149.00	£ 129.00
A300X	£ 229.00	£ 194.00
A400X	£ 299.00	£ 254.00 £ 169.00
CTS430S CTS630S	£ 199.00 £ 299.00	£ 254.00
A400	£ 279.00	£ 239.00
CTW503R	£ 179.00	£ 154.00
F203	£ 129.00	£ 109.00
PROJECT	5 435 00	
Project 6 inc cart  OLN	£ 435.00	£ 349.00
Signature	f 699.00	£ 299.00
REGA	2 033.00	2 255.00
RB250	£ 94.00	£ 49.00
RB300	£ 146.00	£ 99.00
ROGERS LS2A/2	f 249.00	£ 174.00
LS4A/2	£ 329.00	£ 174.00 £ 229.00
ROKSAN	1 323.00	1 225.00
ATT-DP2.P	£1495.00	£1049.00
ATT-DP2	£1295.00	£ 909.00
ROK-DA1 OJAN3	£ 494.00 £ 899.00	£ 344.00 £ 629.00
Tabriz	f 230.00	£ 629.00 £ 164.00
ROTEL	1 230.00	1 104.00
RA930AX Mk1	£ 175.00	£ 114.00
RA935BX Mk1	£ 225.00	£ 124.00
RA940BX RCD945AX	£ 249.00	£ 139.00
RB970BX Mk1	£ 229.00 f 225.00	£ 129.00 £ 169.00
RB980BX Mk1	f 450.00	£ 299.00
RC970BX Mk1	£ 149.00	£ 119.00
RT930AX	£ 175.00	£ 99.00
RUARK ACOUS		6 200 00
Rhapsody	£ 799.00	£ 399.00

PPD NOW

SENNHEISER HEADPHONES HD55, HD250II, HD480CLII, HD520II, HD530II, HD540II HD560II - 1/2 RRP

SONY		
TCK511S	£ 249.00	£ 149.00
CDP711	£ 249.00	£ 139.00
TCK411	£ 199.00	£ 124.00
STS311	£ 199.00	£ 144.00
TCK611S	£ 299.00	£ 224.00

#### STAX HEADPHONES 20% OFF RRP ON ALL DISPLAY MODELS

TDL	C 100 00	5 4 4 0 0 0
RTL-1 TEAC	£ 199.00	£ 149.00
V600	£ 149.00	£ 89.00
CDP4500 P700	£ 279.00 £ 899.00	£ 139.00 £ 629.00
TECHNICS SLPG440AK	£ 169.00	C 440 00
SLPJ28AK	£ 169.00 £ 149.00	£ 119.00 £ 129.00
SLBD22ZK THORENS	£ 159.00	£ 119.00
TD280IV inc cart	£ 199.00	£ 159.00
WHARFEDALE		
Modus Cube	£ 69.00	£ 49.00
Modus Micro	£ 99.00	£ 69.00
Modus Mini	£ 129.00	£ 89.00
Modus Sub	£ 139.00	£ 99.00
YAMAHA		
AX380	£ 199.00	£ 159.00
AX570	£ 289.00	£ 234.00
KXW482	£ 249.00	£ 199.00
CDC645	£ 279.00	£ 224.00
CDX480	£ 199.00	£ 159.00
CDX870	£ 329.00	£ 264.00
NS10M	£ 259.00	£ 209.00
TX480L	£ 139.00	£ 114.00

ALL THESE EX DISPLAY PRODUCTS MUST BE CLEARED AT CRAZY PRICES.

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CONDITION
WITH FULL
INSTRUCTIONS,
ACCESSORIES,
PACKING AND
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0732 458985

STOP PRESS

SENNHEISER HD440II

BEST BUY -BRAND NEW SEALED BOX WAS £35.00

**NOW** 



SEVENOAKS HIFI

#### 122 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 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 - maxi-mum 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 for full test results.



Key to recievers
Price - typical retail, to nearest pound.
A/V- minimum requirements - Qolby
Surround/Pro-Logic circuitry.
Power - watts/channel, both channels
driven RMS 80hms, 2012 - 20kHz.
Wavebands - FM, L - long wave, M medium wave.
Presets - number thereof.
In/outputs - MM/MC - moving
coil/moving magnet, L - line, 1 - 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 for full test results.

		coupled cavity, Hybrid - dynamic bass/ESL or ribbon top.								
Model	Price	Туре	Sens	Impedance	Power	Size	Special			
LOUDSPEAKERS										
Spendor SP2/3	1100	2x	88	8	80	28,55,33	On stands, free space			
Spendor SP1/2 Spendor SP7/1	1430 2000	3x 2x	89 89	8	90	30,63,30 85,30,35	Stand mount, free space Floor standing			
Spendor SP100	2230	3x	90	8	100	37,70,43	Classic monitor, free space			
Spendor SP9/1	3300	3x	90	8	125	106,37,44	Floor standing monitor			
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 Spica Angelus	949 1295	IB IB	86 87	8	50 200	33.39.29 53,117,26	Free space, on stands Free space, floor standing			
Tannoy 631	149	2xPt	87	6	70	19,34,15	Advanced 'silent' enc			
Tannoy 632	189	2xPt	88	8	90	51,43,27	THE VALUE OF SHOTE ONE			
Tannoy 633	319	3xIB	89	8	100	29,75,28				
Tannoy Subsat3	399	3xPt	88	8	120	11,16,9	Subsat system with ICT tech			
Tannoy 636 Tannoy 637	419 499	3xlB 3xlB	90 <b>9</b> 1	6	120 150	29,75,28 33,86,32				
Tannoy 625	595	Active	-	-	90	58,49,45	Servo, current drive subwoofer			
Tannoy 638	599	3xPt	91	6	175	33,96,32	Serve, current unive subwooler			
Tannoy D100	649	2xPt	89	8	120	25,36,22	6.5 inch Dual Concentric			
Tannoy D500	1470	3xPt	91	6	175	31,93,34	8 inch Dual Concentric			
Tannoy Sterling TW	1750	2x	93	8	150	48,70,31	10 inch Dual Constant			
Tannoy D700 Tannoy Edinburgh TW	2100 2700	3xPt 2x	93 95	6 8	200 180	37,99,36 66,102,42	10 inch Dual Concentric			
Tannoy Edinburgh TW	3500	2x	95	8	200	80,100,48				
Tannoy Cantebury 12^	5500	2x	94	8	200	58,90,43				
Tannoy Westminster TW	6000	2x	99	8	200	/-				
Tannoy Canterbury 15^	7000	2x	96	8	250	68,110,48				
Tannoy Westminster Roya	13500	2x	99 88	8	200 70	98,139,56				
TDL Near Field Monitor TDL RTL2	120 300	2x	88	8	80	18,30,17 20,73,22	Reflex transmission line			
TDL RTL3	400		90	8	120	20,90,37	Reflex transmission line			
TDL Studio 0.5	499		85	8	75	20,62,30	Transmission line			
TDL Studio 1	699	2x	86	8	120	23,77,33	Transmission line bass			
TDL Studio 0.75m	749	2xTLS	85	8	100	29,67,31	Metal dome tweeter			
TDL Studio 1m TDL Reference Monitor	899 1999	2TLS	86 87	8	120 350	23,77,34	Metal drivers Transmission line			
Teac LSX8	80		0/	8	30	11,18,11	Transmission line			
Teac SW1	120	Sub	- 10	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 Technics SB-EX2	150 180	3x Pt 2x Pt		8	100	29,54,25	Composite mica cone mid Composite mica cone mid			
Technics SB-EX3	250	3x Pt		4	125	24,40,29	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	90	8	120 75	17,31,23 20,25,32				
Triangle Titus E Triangle Comete E	265 399		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			
Triangle Icare	1350		92	8	250	99,22,28				
Triangle Calisto Triangle Altair	1850 2450	- 150 100	90	8	300	104,22,22 35,120,30	Proprietary tweeter			
Triangle Octant	3550	- 33	94	8	300	42,150,19	Ultra high sensitivity			
UKD Opera 1	450	Pt	88	8	75	20,33,25	Solid walnut, stand mount			
UKD Opera 2	550	Pt	88	8	100	23,35,34	Solid walnut, stand mount			
UKD Operetta	595	Pt	88	8	70	22,30,26	Solid mahogany, stand mount			
UKD Callas Mahogany UKD Super Pavarotti	750 875	Pt Pt	88	8	120 150	34,22,32 23,55,23	Solid mahogany, stand mount Solid mahogany, stand mount			
UKD Callas Walnut	895,	Pt	87	6	150	34,22,32	Solid manogany, stand mount Solid walnut, Focal drivers			
UKD Diva	1300	Pt	87	8	150	24,39,40	Solid walnut, 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 Visonic Sub 4	132 154			4-8		10,17,10 36,49,31				
Visonic David 6001	163	-		4-8		13,20,12	A			
Visonic David 8001	228	- 1		4-8		16,25,17	X			
Wharfedale Centre Cube	49		87	8	75	14,13,12	Shielded centre speaker			
Wharfedale Modus Cube	59	Pt	87	8	75	14,17,12	Shielded			
Wharfedale CRS3	100	2x Pt	89	8	100	22,38,17	Stand/bookshelf mount			
Wharfedale Diamond 6R Wharfedale Modus Micro	109 109	Pt 2x Pt	89	8	100 75	16,27,22 14,23,12	Stand/bookshelf mount Shielded			
Wharfedale Modus Centre	119	Pt	87	8	75	46,14,12	Shielded centre speaker			
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	139	ABR	86	8	75	14,39,12	Shielded two-way			
Wharfedale Modus One Wharfedale Modus Sub-b	159	2xPt	89	8	100	22,41,29	Stand/bookshelf mount			
Wharfedale Modus Sub-based Wharfedale Modus Three	199	Pt 2xPt	90	8	100	57,23,38 22,57,29	Two channel double tuned sub-w - Stand/bookshelf mount			
Wharfedale CRS7	199	Pt	91	8	150	26,60,21	Same and the same			
Wharfedale Modus Five	259	3xPt	90	8	125	22,65,29	Stand/bookshelf mount			
Wharfedale CRS9	299	Pt	93	8	160	31,80,28	Floor standing, three way			
Wharfedale Modus Seven	339	3xPt	90	8	125	22,81,20	Floor standing			

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory.

Vandersteen 2Ce 1395 4x 88 7 160 41,101,27 Free standing

41,101,27 Free standing, phase aligned

Model	ower tance Sens			Size		Special					
LOUDSPEAKERS	400	0	Di			Mary	00 100 0	0	5		
Wharfedale Modus One-T		3x	Pt	90	8	15	150 22,109,2		Floor standi		
Wilson X1 Grand Slam	0	3x		94	-	-	-	$\dashv$	Three-way reference		
Wilson WAP Puppy 5	5500	Su	-	91	-	-	-	4	Passive sub		
Wilson WAP Puppy II	5600	Su		91	-	-	25,53,35	_	Passive sub	woofer for WATT	
Wilson WATT III	7700	2x	Marie Control	91		-	27,31,36				
Wilson WHOW II	12500	Su	b	98	-	-	88/65,36	/65,36 Active subwoofer for WATT			
Yamaha NS-C80	99	-		90	6	80		$\perp$			
Yamaha NS-E80	120	-		90	6	50		_			
Yamaha NS-C110	149	-		90	6	12					
Yamaha NS10M	250	-		90	8	10					
ZYP AI	199	IB		88	8	50	14,22,12		Wall mount		
ZYP A1T	219	IB		88	8	50	14,22,12		Magnetically	y shielded	
ZYP A2S	299	2x	IB	88	8	50	22,14,12		Studio near	ield monitor	
Model	Price	W	Power	Wavebands		Presets	In/outputs	Remote	Size	Special	
RECEIVERS											
Denon DRA-365RD	250	N	45	FM,N		24	MM,3L,1T	Υ	44,12,32	System remote	
Denon DRA-545RD	320	N	60	FM,N	and the second law	24	MM,3L,2T	Υ	44,12,32	RDS	
Denon AVR-1000	520	Υ	70	FM,N	1	16	MM,2L,2T	Υ	44,15,33	Auto input balance	
Dual CR9000RS	200	N	55	FM,N		30	MM,4L,2T	Υ	44,14,30	System component	
Grundig R210	150	N	50	FM,N	1,L	59	MM,5L	Y	36,12,30	Gain switch, remote	
Grundig R2	250	N	50	FM,N		59	MM,5L	Υ	44,14,30	RDS, Radio text, remote	
Harman-Kardon HK3300	379	N	20	FM,N		-	MM,3L,2T	Y	45,13,35		
Harman-Kardon HK3400	499	N	35	FM,N		-100	MM3L,2T	Y	45,13,35		
Harman-Kardon HK3500	699	N	50	FM,N		Page 2	MM,4L,2T	Y	45,13,35		
	799	N	75	FM.N			SECURE AND DESCRIPTION OF THE PERSON NAMED IN	Y	45,13,35		
Harman-Kardon HK3600	999	IV V				10	MM,4L,2T	Y		Delle Des Leele	
Harman-Kardon AVR-30	_	Y	50	FM,N		16	MM,3L,3T,6V		45,13,35	Dolby Pro Logic	
JVC RX-212XBK	200	N	50	FM,N	and the latest designation of the latest des	40	MM,3L,1T	Y	44,13,34	4ch surround	
JVC RX-308BK	230	N	70	FM,N	-	40	MM,3L,1T	Y	44,13,34	4 channel surround	
JVC RX-508VBK	350	Υ	50	FM,N	1,L	40	MM,1L,3T	Y	44,13,34	5ch Dolby Pro Logic	
JVC RX-808VBK	570	Υ	70	FM,N		40	MM,1L,3T	Y	44,16,40	5ch Dolby Pro Logic	
Kenwood KR-A4060	230	N	80	FM,N	1	20	MM,3L,2T	Y	44,13,33	RDS	
Kenwood KR-V6060	350	Y	100	FM,N	1	20	MM,3L,2T	Y	44,15,40	Dolby Pro Logic, RDS	
Kenwood KR-V7050	400	Υ	100	FM,N	1	20	MM,3L,2T	Y	44,15,40	Dolby Pro Logic, RDS	
Marantz SR-63	330	N	80	FM,N	1,L	30	MM,3L,1T	Y	43,14,34		
Marantz SR-73	599	Υ	75	FM,N	-	30	MM,3L,3T	Y	43,15,38	Dolby Pro Logic	
Marantz SR-82	899	Υ	75	FM,N		30	MM,3L,2T	Y	43,17,43	Dolby Pro Logic, multi-room	
NAD 701	259	N	25	FM,N		24	MM,2L,1T	Y	-	Doby 110 Logic; mail 100m	
NAD 705	329	N	40	FM,N	-	39	MM,2L,2T	Y			
Philips FR940	450	Y	100	FM,N		30	MM,4L,4T	Y	44,14,30	Dolby Pro Logic	
	200			OF CHARLES SHOW	and in terrorises	30	AND TAKEN AND PERSONS ASSESSED.	Y			
Pioneer SX-203RDS		N	35	FM,N			MM,2L,2T	Y	42,14.29	RDS tuner	
Pioneer SX-303RDS	250	N	50	FM,N		30	MM,2L,2T	Y	42,14,34	RDS tuner	
Pioneer VSX-452	400	Υ	50	FM,N		30	MM,2L,2T,2V	Y	42,14,35	Dolby Pro-Logic	
Sansui RZ790	250	N	30	FM,N	-	30	MM,2L,2T	Y	-		
Sansui RZ-3500 II	370	N	30	FM,N	1	30	MM,2L,2T	Y	~		
Sherwood RX1010	120	N	30	FM,N	1	-	MM,2L,1T	N	-		
Sherwood RV5030R	330	Υ	80	FM,N	1,L	- 1	MM,4L,4T	Y	-	Dolby Pro Logic	
Sherwood RV6030R	400	Υ	100	FM,N	1,L		MM,4L,4T	Y	-		
Sony STRD311	230	Υ	60	FM,N	1,L	30	MM,2L,2T	Y	43,14,30	System remote	
Sony STRD511	280	Υ	50	FM,N	-	30	MM,3L,2T	Υ	43,14,30	Dolby Pro Logic	
Sony STRD611	330	Υ	60	FM,N		30	MM,3L,2T	Υ	43,14,30	Dolby Pro Logic	
Teac AG-V3020	450	Y	95	FM.N		30	MM,4L,3T	Y	44,16,38	Dolby Pro Logic	
Technics SA-GX130DL	230	N	60	FM,N		30	MM,2L,2	Y	43,13,31	, 110 Logio	
Technics SA-GX230DL	270	v	80	FM,N		30	MM,2L,2T	Y	43,13,31	Non-Dolby	
	_	Y				30					
Technics SA-GX350L	330	Section.	80	FM,N			MM,4L,1T	Y	43,14,36	Dolby Pro Logic	
Technics SA-GX550L	450	Υ	100	FM,N		30	MM,3L,1T	Y	43,16,36	Dolby Pro-Logic	
Yamaha RX-360	240	N	40	FM,N	THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN	-	MM,3L,1T	Y			
Yamaha RX-V470	400	Y	50	FM,N	100000	2535.55	MM,6L,2T	Y		Dolby Pro Logic	

Model	Price	Source	Power	Size	Special
SYSTEMS	050	ODDT	10		Many full assessed
Aiwa LCX-50	250	CD,R,T	10	-	Micro, full remote
Aiwa NSX-270	280	CD,R,2T	20		Mini, remote
Aiwa LCX-60	300	CD,R,T	25	-	Micro, front loading CD
Aiwa LCX-65	300	CD,R,T	10	-	Micro, inc 25watt subwoofer
Aiwa NSX-400	300	CD,R	25	-	Mini, single box, 3-CD player
Aiwa NSX-340	300	CD,R,2T	25	- 166	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 25watt subwoofer
Aiwa LCX-70M	370	CD,R,T	30		Micro, 7-disc CD player
Aiwa Z-650	370	CD,R,Tu,2T	20	- 1	Midi, 3-CD player
Aiwa NSX-540	400	CD,R,2T	55	- 500 500	Mini, front surround spkrs
Aiwa Z-1100	400	CD,R,Tu,2T	30	36,48,35	3 CD player
Aiwa NSX-550G	430	CD,R,2T	40	-	Mini, CD Graphics
Aiwa D636	450	CD,R,2T	40	-	Mini, 3-CD, front surround
Aiwa NSX-D737	500	CD,R,2T	50		Mini, 4-mode DSP
Aiwa Z-1700	500	CD,R,Tu,2T	75	14,24,26	Midi, front surround
Aiwa Z-D3100M	600	CD,R,Tu,2T	50	36,54,35	Midi, three CD, separates
Aires NOV DOOD	750	CDDOT	50		Dolhy Pro Logic incl engakere



Pioneer N-25

Pioneer N-50W

Pioneer J-200

Pioneer N-70W Pioneer N-70W/M

50

50

70

349 CD,R,2T 399 CD,R,2T,Tu

399 CD,R,2T Double cassette, three-disc CD

One touch Karaoke, smart timer

Mic mixing, five band equalise

Double auto-reverse cassette, Multi-play version of N-70W

Key to systems
Price - typical retail, to nearest
pound.
Sources - CD - compact disc, R - radio
tuner, Tu - turntable, T - cassette
tape, Y - 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 for full test results.



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, N - Nicam digital TV stereo
sound.
Presets - total number of presets on
all bands.

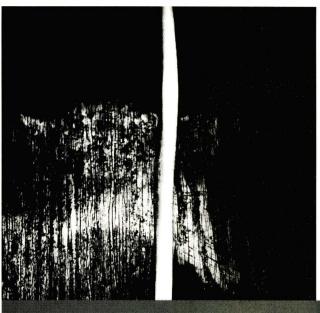
RDS - Radio Data System, which provides station IDs and sometimes other data on the FM waveband.
Size - width x height x depth in cm. Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory for full test results.

Model	Price	Source	Power	Size 🦱	Special
SYSTEMS					
Aiwa Z-D9100M	900	CD,R,Tu,2T	75	36,63,35	Midi, Pro Logic inc speakers
Akai MX92	279	CD,R,2T	25	26,38,24	-
Akai MX92/T	329	CD,R,P,2T	25	27,46,31	As MX92, with mini turntable
Akai MX115	399	CD.R,2T	35	27,39,26	Graphic equaliser
Akai RX590	449	CD,R,2T,P	38	27,31,33	3x CD player, Dolby B
Akai MX115T	449	CD,R,P,2T	35	27,48,31	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	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 MX950	799	CD,R,2T	65	27,42,34	Triple CD, separates
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
Akai MX950 Compo	999	CD,R,P,2T	65	64,78,36	As MX950, with speaker stands
Amstrad MC500	100	CD,R,T	3	16,22,22	FM,MW 20 presets, bass boost
Amstrad Micro 1000	150	CD,R,T	5	15,20,26	15 presets, FM, MW, LW
Amstrad Micro 1500	170	CD,R,T	5	15,20,26	20 presets, FM,MW,LW
Amstrad CD3-500	200	CD,R,2T	5	28,34,30	Three disc CD player, FM, MW
Amstrad Micro 2000	230	CD,R,T	5	17,28,23	20 presets, FM, MW, LW
Amstrad Mini 3000	250	CD,R,2T	8	26,32,49	RDS tuner, 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
			75	A STREET, STRE	
Arcam Delta	2810	CD,R,T		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	4 - 4 - 6	75,37,17	Wall mounted active speakers
B&O Beocenter Overture	1100	CD,R,T	-	32,36,16	Audiomaster, replaces 2500
B&O Beocenter 9300	1500	CD,R,T	80	76,11,34	
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	CD,R,Tu,2T	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
Denon D-F10/S	1150	CD,R,Tu,1T	50	-	All components sold separately
Dual MS2600	499	CD,R,2T	30	27,39,30	Karaoke support
Goodmans System 700	600	CD,R,2T	50	and South	
Grundig MC10	300	CD,R,T	25	18,36,29	'Super Mini', Dolby NR
Grundig M10	330	CD,R,2T	22	27,37,34	Five band graphic & full remot
Grundig M20	430	CD,R,2T	35	25,37,30	Spectrum analyser
Grundig Fine Arts S1	750	CD,R,2T	50	44,45,30	Operation analysis
					Congretos quetam
Grundig Fine Arts S3	770	CD,R,2T	50	44,37,30	Separates system
Grundig Fine Arts S2	890	CD,R,2T	80	44,45,30	Separates system
Grundig Fine Arts S4	1130	CD,R,2T	120	44,45,30	Separates system
Grundig Fine Arts S5	1300	CD,R,2T	120	44,41,30	Separates system
Hitachi AX10	329	CD,R,2T	20	23,29,28	Inc graphic equaliser
Hitachi AX12	350	CD,R,2T	20	23,34,32	Graphic equaliser
Hitachi AXC10	379	CD,R,2T	20	23,29,28	6-disc , graphic equaliser
JVC Adagio S20	370	R,CD,2T	30	25,27,35	Live surround
JVC Midi -W48CD			30		Live Surround
	430	R,CD,2T		36,50,34	The Control of the Co
JVC Adagio S30	430	R,CD,2T	32	25,27,35	Live surround, Karaoke
JVC Adagio C33	450	R,CD,2T,V	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		60	36,57,29	Two channel surround
JVC Adagio G7	800		CONTRACTOR OF THE PARTY OF THE		Panoramic surround
		R,CD,2T,V	50	28,43,28	
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-502	500	CD,R,T,2T	55	27,41,31	Presence modes
Kenwood M-28MG	600	CD,R,T,2T	30	36,56,38	Five disc CD carousel
Kenwood UD-552	650	CD,R,2T	32	27,41,31	7-CD Bank system
Kenwood M-58M	850	CD,R,Tu,2T	60	36,62,38	Dolby Pro Logic
Kenwood HD-600	900	CD,R,Tu,T	40	27,40,35	'Audiophile' mini
Kenwood UD-952	1000	CD,R,Tu,2T	70	27,41,31	Dolby Pro Logic
Kenwood HD-1000	1000	CD,R,Tu,Z1	40	27,40,35	MD & equaliser options
			85		Dolby Pro Logic
Kenwood M-97G	1250	CD,R,V,Tu,2T		36,64,38	
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		
				10.05.00	E1am wide including acceluse
Panasonic SC-CH150	430	CD,R,T,	20	18,25,28	51cm wide, including speakers
Philips FW21	300	CD,R,2T	12	26,30,22	
Philips AS44CD	329	CD,R,2T	20	36,38,29	
Philips AS540CD	379	CD,R,2T	40	36,398,29	:
Philips FW41	400	CD,R,2T	30	26,30,25	
Philips AS640CD	429	CD,R,2T	30	36,38,29	Five disc CD
Philips FW91	499	CD,R,DCC	60	26,35,26	DCC mini
Philips FS380	499	CD,R,DCC	100	44,50.30	DCC midi
Philips FW370	900	CD,R,DCC	75	36,50,35	DCC midi
Pioneer N-25			20	-	Double cassette, three-disc CD
1011001 14-20	233	ואוויטט	20		Double Cassette, tillee-disc CD

Model	Price	Source	Power	Size	Special
SYSTEMS Pioneer N-100W	499	CD,R,2T	100		Double auto-reverse cassette,
Pioneer J-300	549	CD,R,2T,Tu	49		Single play CD with Smart tume
Pioneer N-100W/M	549	CD,R,2T	100		Multi-play version of N-100W
Pioneer J-400M	649	CD,R,2T,Tu	50	-	Six-disc multiplay, Dolby Surr
Pioneer Impresso-3	749	CD,R,T	35		Separate components, CD with S
Pioneer J-500	779	CD,R,2T,Tu	65		Dolby Surround, seven band equ
Pioneer J-500M	829	CD,R,2T,Tu	65	See all all	Six-disc multiplay version of
Pioneer J-V600	879	CD,R,2T,Tu	65	- 8	Dolby Pro Logic AV system, Mo
Pioneer Impresso-7	899	CD,R,T	45	Calculation.	As Impresso 3, with RDS tuner
Pioneer J-700	999	CD,R,2T,Tu	115		CD with Stable Platter mechani
Pioneer J-V600LD	1199	CD,R,2T,Tu	65	CONTRACTOR OF THE PARTY OF THE	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	23,30,30	Mini, remote control
Samsung SCM8100	300	CD,R,Tu,2T	20	36,37,26	Midi, remote control
Samsung MAX370	300	CD,R,2T	20	45.32.34	Mini, remote control
Samsung SCM8300	329	CD,R,Tu,2T	20	36,37,30	Midi, equaliser, 5 CD carousel
Samsung SCM9100	430	CD,R,Tu,2T	30	36,47,29	Midi, remote control
Sansui MS6901	420	CD,R,2T	50	18,26,34	
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 Mini C2400	230	CD,R,2T	10	61,32,31	Remote 3 disc CD changer
Sharp System-S360E Mk	2 230	CD,R,2T	10	27,32,33	Remote control
	270	CD,R,2T	10	76,40,38	X-bass boost feature
Sharp Midi CDR160E	2 270	CD,R,2T	25	27,32,33	Five band equaliser
Sharp System-S370E Mk	280	The second secon	10	36,40,36	Remote control, auto-reverse
Sharp System CD170E	300	CD,R,Tu,2T CD,R,2T	30	63,32,30	3 mode programmed equaliser
Sharp Mini S3460	300	CD,R,2T	25	76,40,38	3 mode programmed equaliser
Sharp Midi CDR260 Sharp System-Q8E	330	CD,R,Z1	12	15,19,26	Ultra compact
	350	CD,R,1	20	63,32,30	3 disc CD changer
Sharp Mini C4450 Sharp Micro XL12E	399	CD,R,21	50	48,23,31	3 disc GD changer
Sharp Mini S6470	399	CD,R,TT	100	63,32,30	
Sony MHC 450	300		20	22,29,27	Remote, double cass deck
Sony MHC 590	330	CD,T,Tu,2T CD,T,Tu,2T	- 20	22,25,21	Auto reverse
Sony Compact 190	330	CD,R,Tu,2T	9	35,48,34	Auto reverse
Sony MHC 650	380	CD,T,Tu,3T	35	22,28,26	Full remote
Sony Compact 195	380	CD,R,Tu,2T	9	35,49,41	Tull Telliote
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 2900	500	CD,T,Tu,3T	40	22,33,32	Electronic EQ
Sony Compact 490	500	CD,1,10,31 CD,R,Tu,2T	40	35,59,36	Five-disc CD
	600	CD,R,Tu,2T	40	22,39,31	Five-disc CD
Sony MHC C70CD	600	CD,1,1u,31 CD,R,Tu,2T	60	43,48,39	Five-disc CD, electronic EQ
Sony Compact Plus 590	/ 800	CD,R,Tu,2T	60	-0,40,35	Full size separates, Dolby P-L
Sony Compact Plus 695A' Sony MHC4900	800	CD,T,Tu,3T	60	22,41,28	i un size separates, buiby F-L
Sony MHC 5900AV	1000	CD,T,Tu,3T	60	22,41,28	UK sound, Dolby Pro Logic
Sony Compact Plus 795A	/ 1000	CD,R,Tu,2T	60	43,48,39	Dolby Pro Logic, Dolby S
Sony Compact Plus 995A	/ 1500	CD,R,Tu,2T	60	43,46,39	Dolby Pro Logic, Dolby S  Dolby Pro Logic, LaserDisc
	500	CD,R,Tu,2T	35	27,42,34	Mini, including speakers
Technics SC-CH404 Technics SC-CH505	600	CD,R,1U,21	50	27,42,34	Mini Karaoke, including speake
Technics SC-CH505	650	CD,R,2T	50	27,42,34	Mini, multi-changer
			40		Midi, including speakers
Technics CD-X120	700	CD,R,2T	50	36,41,32	
Technics SC-CH750	800	CD,R,2T		27,42,34	Mini, DSP, including speakers
Technics CD-X320	800	CD,R,Tu,2T	50	36,41,32	Midi, including speakers
Technics CD-X520	900	CD,R,Tu,2T	60	36,41,32	Midi, including speakers, basi
Technics SC-CH9090	1000	DCC,CD,R	60	27,42,34	DCC equipped mini system
	1000	00.00		77 40 04	
Technics SC-CH950 Yamaha CC70	1000 600	CD,R,2T CD,R,2T	60 50	27,42,34 28,33,34	Pro Logic, soundfield speakers YST active bass

Model	Price	Bands	Presets	RDS	Size	Special
TUNERS						
Aiwa XT-003	120	FM,M,L	30	N	-	
Aiwa XT-950	150	FM,M	24	N	150 Ten	
Arcam Alpha 5	220	FM	16	N	43,8,27	Signal strength meter
Arcam Delta 280	350	FM	20	N	43,7,28	Remote control, IF switching
Audiolab 8000T	750	FM,M,L	39	N	45,8,36	Switchable IF, muting, mono
Aura TU80	350	FM,MW	30	N	43,6,27	Chrome finish + £50
AVI S2000MT	599	FM	16	N	31,25,9	R/C via system handset
Day Sequerra FM Ref	5457	FM	Bar - 2	-		
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-380RD	190	FM,M	40	N	44,8,24	RDS Radiotext/EON
Denon TU-580RD	220	FM,M	30	Y	44,8,29	Variable IF bandwidth
Goodmans GST650	90	FM,M,L	36	N	- 1	(A)
Goodmans Delta 700	100	FM,M,L	36	N	36,11,30	
Grundig T1	130	FM,M,L	59	N	44,9,30	User station name, gain switch
Grundig T310	140	FM,M,L	59	Υ	36,8,30	RDS (PS, CT, RT, PTY)
Grundig T2	170	FM,M,L	59	Υ	44,9,30	RDS (PS, RT)

Listings marked in red	(as sh	own below	i) are co	vered ii	n the <i>Hi-Fi</i>	Choice Directory.
Audiolab 8000T	700	FM,M,L	39	N	45,8,36	Switchable IF, muting, mono



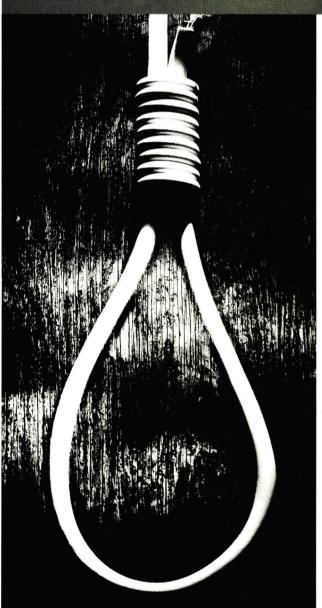
# MAKE SURE YOUR SYSTEM IS EVERYTHING IT COULD BE WITH A FREE TRIAL AUDIOQUEST HOME DEMONSTRATION CABLE KIT.

Face it...you probably already suspect that your cables aren't doing justice to your hi-fi system.

But, the problem is, how do you choose the right cables to bring out the best in your system? Especially when you have to go to a dealer and audition them on a different system and in a room with different acoustics from your own.

Now, there's an easier way. Those nice people at AudioQuest have come up with a solution that allows you to try out a whole host of their interconnect and speaker cables, in the comfort of your own home.

# Is this what your cables are doing to the sound of your hi-fi?



What Hi-Fi? magazine's Trisha Mitchell-Vargas took up the challenge to see how much she could improve her system - without changing any of the components. She concluded: "It's like listening to different equipment. The improvement is enormous; the sound is more cohesive, more worthwhile." (What Hi-Fi?, October 1993.)

To make sure you're getting the best from your system, all you have to do is pop into your local participating dealer and borrow an AudioQuest Home Demonstration Kit for a few days. (As you'd expect, the dealer may need you to provide some form of security.) The Kit contains full instructions for a home audition. Then, sit back and listen to your favourite music using different combinations of the AudioQuest cables, to see which gets the most noticeable improvement in sound quality from your system. We believe you'll be so impressed that you'll rush straight back to your dealer and buy them!

Of course, you may find that your existing cables are perfectly adequate. In which case, simply return the Demonstration Kit to your dealer – there's no further obligation. At least then you'll be sure that the sound you're getting from your system is everything it could be.

To find out how, and where, to reserve your AudioQuest Home Demonstration Kit, telephone Arcam or write to Alasdair Patrick at the address below.

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#### HI-FI CHOICE BUYER'S GUIDE 125



Key to tuners
Price - typical retail, to nearest
pound.
Bands - FM - VHF, stereo and hi-fi
capable, M - Medium waw, low quali-ty, mono, L - Long Wave, low quality,
mono, N - Nicam digital TV stereo
sound.
Presets - total number of presets on
all bands.

RDS - Radio Data System, which provides 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 for full test results.



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.
5 - 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 for full test results.

Model TUNERS	Price	Bands	Presets	ROS	Size	Special
Grundig T4	210	FM,M	59	Υ	44,9,30	RDS (PS, CT, RT, PTY)
Harman-Kardon TU92000	219	FM.M	70	-	45,8,38	100 (10) 01) 111)
Harman-Kardon TU94000	299	FM,M	24	-	45,8,33	
Harman-Kardon TU96000	499	FM,M	24	-	45,8,33	
JVC FX362BX	130	FM,M,L	40	N	44,8,30	
JVC FX-572R	200	FM,M,L	40	Υ	44,8,30	
JVC FX1010TN	300	FM,M,L	40	N	44,10,30	
Kenwood KT-1060L	120	FM,M,L	30	N	44,8,26	
Kenwood KT-2060L	140	FM,M,L	30	N	44,8,26	Built-in timer, RDS
Kenwood KT-3050L	170	FM,M,L	39	Υ	44,10,28	IF selector, RDS
Kenwood KT-6050	300	FM,M	39	Υ	44,10,33	IF switch, two antennae, RDS
Linn Kremlin	1995	FM	80	N	32,8,33	Dual aerial capability
Magnum Dynalab FT11	550	FM		N	-	Analogue, black finish
Magnum Dynalab FT101	825	FM	-	N	-	. Analogue, black finish
Magnum FT101 Etude	1250	FM		N	-	Analogue, black finish
Marantz ST-53	170	FM,M,L	59	N	42,9,30	D-bus
Marantz ST-63	249	FM,M,L	59	Y	42,9,30	D-bus
Marantz ST-72L	300	FM,M,L	59	Υ	42,10,34	D-bus, IF switch, local switch
McIntosh MR7083	2095	FM,M	16	N	-	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	Remote control
Mission Cyrus FM7	400	FM	29	N	22,8,36	Remote control bus
Musical Fidelity E500	499	FM	20	N	44,12,35	
Musical Fidelity FT	899	FM	20	N	49,12,33	Remote control, bandwidth limi
Naim NAT03	499	FM	350	N	21,16,30	
Naim NAT02	910	FM	-	N	21,16,30	
Naim NAT01	1453	FM	-	N	21,16,30	
Onix BWD1	420	FM	-	N	75,23,37	In-house front end
Onkyo T-401	160	FM,MW	40	N	46,8,31	
Onkyo T430RDS	190	FM/MW	30	Υ	46,9,30	
Onkyo T-409	230	FM,MW	30	N Y	28,8,30	Mini component
Onkyo T-450RDS	260	FM,MW		COMMISSION NAMED IN	46,9,31	Adi-d
Onkyo T-411RDS	280	FM,MW	30	Y	28,8,30	Mini component
Onkyo R-811RDS Philips FT930	420 160	FM,MW	30 40	Y	28,12,33	Mini component, incl timer
		FM,M,L	30	Y	44,11,30	DDC -1 b -d1 -d
Pioneer F-203RDS Pioneer F-303RDS	130 180	FM,M,L FM,M	40	Y	42,8,29 42,8,29	RDS at very budget price RDS with FON
Pioneer F-502RDS	250	FM.M	40	Y		
Quad FM4	434	FM FM	7	N	42,9,34 33,7,21	2 ariel inputs
Quad FM66	532	FM	19	N	33,8,26	For use with Quad 66 system
Rotel RT930AX	175	FM,M,L	20	N	44,8,26	For use with quad oo system
Rotel RT950BX	200	FM,M,L	20	N	44,8,24	
Rotel RT990BX	510	FM	16	N	44,8,29	Remote control
Sansui TU-X317	170	FM.M	20	- N	44,0,20	Nemote control
Sansui TU-X519	220	FM,M	30			
Sherwood TD1120	90	FM,M	24	N		
Sherwood TX1010C	100	FM,M	30	N	-	
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	Y	43,9,30	RDS EON, 'Autobetical' select
Sony STS505ES	250	FM,M,L	30	Y	43,9,35	UK optimised sound
Teac T-X4030	120	FM,M	20	N	44,9,28	orr optimical double
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	-	,,
Yamaha TX-470		FM,M	40	N	N	

Model	Price	Туре	Speeds	Size	Special
TURNTABLES Akai AP A950	179	М	33/45	44,12,35	Inc cartridge
Alphason Sonata	835	М	33		Motor unit, suspended
Alphason Sonata/Atlas	1235	М	33/45	-	Motor unit inc PSU
Alphason Symphony	1860	M	33/45		Motor unit & PSU
Ariston Pro-1200	160	М	33/45		Semi-pro disco deck
Audiomeca Romance	1675	M	33/45	14.7	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&O 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	M	33/45	59,14,37	Includes arm and cartridge
DNM Rota 2	4000	M	33/45	59,14,37	Includes arm and cartridge
Dual CS3700/3701	85	S	33/45	36,10,36	Midi-sized turntable
Dual CS435	130	F	33/45	44,12,36	Turntable includes cartridge
Dual CS503-2	170	S	33/45	44,13,37	Turntable includes cartridge
Dual 505-4 UK	200	S	33/45	44,15,37	Turntable inc cartridge
Dual CS750-1	350	S	33/45/78	44,14,38	Turntable includes cartridge
Dual Golden II	500	S	33/45/78	44,14,38	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	36,90,37	Part of Delta system
Kenwood KD-492F	100	Α	33/45	44,10,39	Includes cartridge

Model	Price	Туре	Speeds	Size	Special
TURNTABLES	1200	М	33/45	E1 10 4	Dolt drives autoreal DCII
Kuzma Stabi/PS Kuzma Stabi Ref/PS	1200 3000	M	33/45	51, 18, 4	Belt driven, external PSU Two motor, belt driven
Linn Basik	349	M	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
	_	M		46,36,12	Turntable
Manticore Madrigal	570		33/45	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P	
Manticore Mantra	890	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	М	33/45	46,14,34	Includes Rega RB300 arm
Michell Gyrodek	765	М	33/45	53,19,41	Optional outboard PSU
Michell Gyrodek/arm	907	М	33/45	53,19,41	Includes Rega RB300 arm
Moth Alamo	175	М	33/45	-	Comes with RB250 arm
Moth Turntable	199	М	33/45	-	Split-plinth design
Moth Kanoot Mk I Arm	249	M	33/45	-100	Inc Rega RB250 arm
Moth Kanoot Mk III Arm	299	М	33/45	-	Inc Rega RB300 arm
NAD 5120	110	S	33/45		Includes arm
N'ham Spacedeck	600	M	33.45	20000000	
N'ham Illusion	600	М	33/45	- 100	
N'ham HyperSpacedeck	1200	М	33/45	-	
N'ham Graphic	1200	M	33/45		
N'ham Mentor	2200	M	33/45		75lb alloy or graphite platter
N'ham Mentor Ref	4800	M	33/45		150lb platter, graphite top
Origin Live Oasis-S	899	M	33		Suspended turntable
	_		33/45	AC 15 27	
Pink Triangle Export GTi Pink Triangle Anniv	890 1695	M	33/45	46,15,37 45,15,37	Suspended turntable, acrylic p Two box reference deck
			NAME OF TAXABLE PARTY.		Battery PSU version of above
Pink Triangle Anniv/PSU	2050	M	33/45	45,15,37	
Pioneer PL-225	120	S	33/45	42,10, 36	Belt drive, fitted cartridge
Pioneer PL-335	150	A	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	M	33/45	42, 11, 3	With Ortofon 510 cartridge
Pro-ject 1 (E)	209	S	33,45	42,11,32	Semi-auto version of Pro-ject
Pro-ject 2	249	M	33/45	46, 12, 3	Metal/glass platter, clamp
Pro-ject 2/Ortofon	275	М	33/45	46, 12, 3	With Ortofon MC1 cartridge
Pro-ject 6	379	М	33/45	46, 17, 3	Suspended turntable
Pro-ject 6/Ortofon	435	M	33/45	46, 17, 3	As above, with Ortofon MC15
Pro-ject 6/Sumiko	699	M	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	M	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		Motor unit
		M ·		45,13,38	
Roksan Radius	495		33/45	45,12,35	Motor unit
Roksan Radius/Tabriz	695	M	33/45	45,12,36	As above, with Roksan arm
Roksan TMS	2500	M	33/45	45,12,35	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
SME Model 20A	3976	M	33/45/78	42,15,32	As above, with SME Series V ar
SME Model 30	10166	М	/78	45,22,35	Flagship turntable
SME Model 30A	11460	M	33/45/78	45,22,35	As above, with SME Series V ar
Sony PSLX150H	90	S	33/45	43,10,36	Player, with MM cartridge
Sony PSLX431B	150	A	33/45	43,11,36	Player, auto rec size select
Systemdek I/920	136	M	33/45		Semi-suspended deck
Systemdek IIX/900	230	M	33/45		Fully suspended design
Systemdek I/920/Moth	235	M	33/45		As above with RB250 arm
Systemdek IIXE/900	330	M	33/45		As above with separate PSU
Technics SL-BD20	140	S	33/45	43,10,38	Belt drive, includes T4P cartr
Technics SL-BD20	160	S	33/45	43,10,38	Belt drive, includes T4P cartr
		M			
Technics SL-1210Mkll	430		33/45	46,17,36	Quartz DD, no cartridge
Technics SL-1200Mkll	430	M	33/45	43,10,38	Quartz DD, includes T4P cartri
Thorens TD-180/AT91	180	S	33/45/78	-	Belt drive, plays 78s
Thorens TD180/S500	200	Р	3/45/78	-	Belt drive, plays 78s
Thorens TD-280 IV/UK	200	S	33/45/78		Electronic belt drive, AT95E
Thorens TD-166 VI/UK	200	M	33/45	-	Blank armboard, cut to shape,
Thorens TD-166 VI/UK	270	M	33/45	-	Inc TP50 manual arm, AT95E
Thorens TD-166 VI/UK	300	М	33/45		With Rega RB250 arm, no cart
Thorens TD-2001	550	S	33/45		Includes Thorens TP50 arm, no
Thorens TD-3001BC	630	М	33/45		No arm, various armboards avai
Thorens TD-3001/UK	770	M	33/45		Suspended, Rega arm no cart
Thorens TD-520	900	S	33/45/78		Thorens TP90, pitch control, n
Townshend MkIII Rock	799	M	33/45		Headshell end arm damping .
Voyd The	1570	M	33/45	51,16,42	Original three-motor model
Voyd 111e	3368	M	33/45	51,16,42	Upgraded standard Voyd
	6500	M	and the same of th	51,16,48	Turntable, polycarbonate platt
Voyd Reference			33/45		rumavic, pulycal pullate platt
Well T Record Player	1800	M	33/45	45,18,36	The exclusion X
Well Tempered Classic	2800	M	33/45	48,19,39	The original Well Tempered
Well Tempered Super	3500	M	33/45	49,19,39	Classic with carbon arm
Well Tempered Reference	5500	M	33/45	49,19,39	'Fountainhead' base/carbon arm
Wilson Benesch	1550	M	33/45	-	High-tech turntable

Listings marked in red (as shown below) are covered in the Hi-Fi Choice Directory.

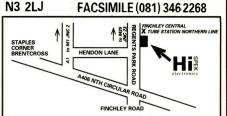
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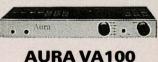


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DCC RECORDERS DD-82

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# electronics

PIONEER PDS703

402

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AMPLIFIERS AV-500 Pre MA-500 Power RECEIVERS SR-73 SR-82

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**TECHNOLOGY** PM-53 Softline

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CASSETTE DECKS

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CD-63 Softline

## MISSION

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Compact Plus 695
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Compact Plus 995

Compact HIUS 593

MINI HI-FI COMPONENTS

MHC 450

MHC 650

MHC 650

MHC 5900 AV

MHC 2900

MHC 7900 AV MINIDISC MDS101 MDS501

COMPACT DISC PL CDP312 CDPC 345 CDP 715 CDP915E MDS501 LAYERS CDPX 100 CDPM 302 CDPC 325M

CDP915E

SINGLE CASSETTE DECK

TCFX211B

TCK 511S

TCK 215B

TCK 611S

TCK 415B TWIN CASSETTE DECK
TCW 445B TCWR 645S
TCWR545B

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**CD63SE** 



KENWOOD**KA3020SE** 

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£129.99 TOTAL PACKAGE PRICE £579.97

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Including Speaker Brackets for Rear Speakers and ALL Speaker Cables

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10% Deposit £49.98 12 Monthly Payments of £37.50 Total price £499.

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#### 128 HI-FI CHOICE BUYER'S GUIDE



Key to cartridges.
Price - typical retail, to nearest pound.
Type - MM - moving magnet (output typically xmV/cm/sec), MC - moving coil (output typically). Two //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 for full test results.



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	_		2	int. stylus		We	
Madel	Price	Туре	Outpu	tylus	3	Weight	Special
Model CARTRIDGES	e	0	7	S	7	-	Special
Arcam C77	30	MM	4mV	Υ	N		Conical stylus
Arcam C77MG	40	MM	4mV	Υ	N	142	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	20-39	'Profiled' stylus
Arcam P77MG	73	MM	4mV	Υ	N	-	As P77, with metal body
Audio Note lo IIV	1395	MC		N N	N N		Silver wired Needs PSU
Audio Note lo Ltd V Audio Technica AT-91	2950 13	MC MM		Y	N		Needs P50
Audio Technica AT-95E	19	MM		Y	N		
Audio Technica AT-101EF	20	MM		Y	N		
Audio Technica AT-110E	24	MM		Υ	N	-	
Audio Technica AT-420E	40	MM	- 64	Υ	N	-	
Audio Technica AT-450E	62	MM		Υ	N		
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		The control of the co
Audioquest MC5 Audioquest 404il	250	MC	1.4mV	N N	N	-	High output MC, line contact
Audioquest 8200L	500 800	MC MC	0.5mV 0.5mV	N	N	2.50	Boron cantilever Boron tube cantilever
Audioquest 7000NSX	1295	MC	0.3mV	N	N		Boron tube cartilever
B&O MMC4	1295	-	- 0.3811	- IV	IN -		MM, elliptical diamond
B&O MMC2	1		1.00				MM, Contact Line stylus
B&O MMC1	1			3-33		-	MM, Contack Line stylus
Benz-Micro The Glider	600	MC	1mV	N	N		Semi-nude design
Benz-Micro H200	700	MC	2mV	N	N	-	
Benz-Micro M090	700	MC	0.9mV	N	N	- 1	
Benz-Micro L040	700	MC	0.4mV	N	N	- 1	
Benz-Micro Wood Ref	1100	MC	0.3mV	N	N		Bruyere housing, boron
Benz-Micro Ruby Ref	1400	MC	0.3mV	N	N		Bruyere housing boron
Denon DL110	70	MC	-	N	N		Elliptical stylus
Denon DL160	90	MC		N	N	300-000	
Denon DL103	100	MC	-	N	N		Elliptical et due
Denon DL304	200 159	MC MC		N	N		Elliptical stylus High output elliptical MC
Dynavector 50X MkII  Dynavector 10X4 MkII	189	MC	4.2	N	N		High output elliptical MC
Dynavector 23RS MkII	375	MC		N	N		Micro ridge stylus
Dynavector 17D2 MkII	449	MC		N	N		Micro ridge stylus
Dynavector XX-1L	998	MC	20-20-00	N	N		Micro ridge stylus
Dynavector XX-1	998	MC		N	N		High output, line contact MC
Glanz GMC-10LX	69	MC	0.3	Y	N	5	
Glanz GMC 20E	99	MC	0.5	Y	N	6	
Goldring Elan P	17	MM	5.0mV	Y	T	6	T4P version of Elan
Goldring Elan	17	MM	5.0mV	Y	N	4	Rigid body
Goldring Elektra	25	MM	5.0mV	Υ	N	4	Elliptical stylus
Goldring 1006	50	MM	6.5mV	Υ	N	6	Elliptical stylus
Goldring 1012GX	65	MM	6.5mV	Y	N	6	Gyger II stylus
Goldring 1022GX	85	MM	6.5mV	Y	N	6	Gyger I stylus
Goldring Eroica LX	100	MC MC	0.5mV	N	N	6	As Eroica, low output Gyger II stylus
Goldring Eroica Goldring 1042	105	MM	2.5 6.5mV	Y	N	6	Gyger S stylus
Goldring Flite	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	27	MM		Y	N		Moving flux, high output
Grado ZCE+1	37	MM		Υ	N		Moving flux
Grado Z3E+1	47	MM	-	Υ	N	100 miles	Moving flux
Grado ZF1+	82	MM	- 1	Υ	N		Moving flux
Grado Signature Junior	149	MM	-	Y	N		Moving flux
Grado Signature 8MZ	250	MM	- 1	Y	N		Moving flux
Grado Signature MCZ Grado Signature TLZ	375	MM	-	Y	N		Moving flux
Grado Signature ILZ Grado Signature XTZ	975	MM	-0.1	Y	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	-	0.4mV	N	N	8	
Kiseki Blackheart	1995	MC	0.3mV	N	N	11	
Kiseki Lapis Lazuli	5000	MC	0.4mV	N	N	8	Gemstone body
Koetsu Red T	1550	The second second	- 1	N	N		High-output MC
Koetsu Red K Sig	1998		1.00	N	N	-	Selected, re-tuned Red T
Koetsu Urushi	2200	THE REAL PROPERTY.	-	N	N		Metal alloy body
Koetsu Signature	3218		15	N	N		Rosewood body
Linn K5	54		4.5mm		N	-	Motel harts
Linn K9 Linn K18/II	109	MM	4.5mm 4.5mV	Y	N	31-51	Metal body
Linn Klyde	449		4.5mV	N	N	-	Metal body Alloy body
Linn Arkiv	998	THE RESIDENCE OF THE PERSON NAMED IN	150uV	N	N		Three point mt, machined body
London Decca Maroon	199		5.0mV	N	N	8	Original mounting
London Decca Gold	239		5.0mV	N	N	8	Elliptical stylus
London Decca Maroon D	_	400000000000000000000000000000000000000	5.0mV	N	N	10	Deccapod mounting
London Decca Gold Dpd	299		5.0mV	N	N	5	Elliptical stylus, Deccapod
London Decca S Gold	339		5.0mV	N	N	7	Original mounting
London Decca S Gold Dp			5.0mV	N	N	10	Deccapod mounting
London Decca Jubilee	999	MM	5.0mV	N	N	5	0.5 inch mounting
Listings marked in re	ed (as s	hown b	elow) are	covered	in th	e Hi-Fi Ch	oice Directory.
Systemdek I/920	136			8/45			emi-suspended deck

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Model	Price	Туре	Output	Int. stylus	R	Weight	Special
CARTRIDGES							
yra Lydian	649	MC	14	Υ	N	100	
Lyra Clavis Da Capo	995	MC	Low	N	N		
yra Parnassus	1995	MC	- 20 1/	Y	N	0.5	High output MC
Milltek Aurora	299	MC	2.0mV	N	N	9.5	High output MC
Milltek Olympia Nagaoka MP-11	399 24	MC MM	2.0mV	N Y	N	9.5	As Aurora, sapphire cantilever Elliptical stylus
Nagaoka TS11	70	MM		Y	N		Line contact stylus
Nagaoka TS12 Boron	80	MM	0-0006	Υ	N		As MP-11, with boron cantileve
N'ham Tracer I	98	MM		-	í		
N'ham Tracer II	175	MM		-			
N'ham Tracer III	350	MM	-	-	-	. 1-1	
N'ham Tracer IV	550	MM	8 E (1)		N	-	
Ortofon VMS2	· 10	MM	-	Y	N		Entry level elliptical cart
Ortofon OMP-5E	16	MC MM		Y	T N		
Ortofon OM-5E Ortofon OM Pro S	16 21	MM		Y	N		Budget disco cartridge
Ortofon OM10 Super	25	MM	-	Y	N		Elliptical stylus
Ortofon OM Night Club S	32	MM		Υ	N		Spherical stylus
Ortofon 510	32	MM	-	Υ	N		
Ortofon OM Night Club E	37	MM	- 100	Υ	N	-	Elliptical stylus
Ortofon Concord Pro	40	MM		Υ	N		For professional use
Ortofon Concord NC S	55	MM		Υ	N	-	Professional, spherical stylus
Ortofon 520P >	55	MM	-	Y	N		500.00
Ortofon 520 Ortofon OM20 Super	55 60	MM		Y	N	-	Elliptical stylus
Ortofon OM20 Super Ortofon MC1 Turbo	60	MC		Y	N		
Ortofon Concord NC E	60	MM		Y	N	-	Spherical version of Concord
Ortofon OM30 Super	80	MM	W.)_ W.S. 1989	Y	N	36-2	Fine line stylus
Ortofon MC10 Super	85	MC		N	N		
Ortofon 530P	85	MM	10.00	Υ	T		
Ortofon 530	85	MM	ALC: N	Υ	N		Elliptical stylus
Ortofon MC3 Turbo	110	MC	-	N	N	-	
Ortofon MC15 Super II	110	MC		N	N		
Ortofon 540	110	MM MC		N	N	-	High output, elliptical stylus
Ortofon MC25E Ortofon MC25FL	160 210	MC		N	N		Migh output, Fine Line stylus
Ortofon MC10 Supreme	250	MC	-	N	N		High output MC
Ortofon MC20 Supreme	350	MC	F 2 (10)	N	N	-	High-output elliptcal MC
Ortofon MC30 Supreme	450	MC		N	N		High output
Ortofon MC2000II	650	MC	-	N	N	-	
Ortofon MC3000II	950	MC	-	N	N	-	'Replicant' stylus
Ortofon MC5000	1500	MC	-	N	N	0.7	Sapphire cantilever
Ortofon MC7500	2000	MC		N	N	-	75th Anniversary model
Pickering TE-15 Pickering VE-15	20	MM		Y	N		Tracks 1.5gm Tracks 1 - 3gms
Pickering T-E	25	MM		Y	T		Elliptical.
Pickering V15-DJ	28	MM	-	Y	N	1	Disco model
Pickering TL-E	35	MM	-	Υ	Т	m -	
Pickering XV15-350C	40	MM	- \	Y	N	<b>1</b>	Conical stylus
Pickering TL-2E	45	MM	5 - (1)	Υ	T		
Pickering XV15-625E	50	MM	-	Υ	N	-	
Pickering XV15-150-DJ	50	MM	-	Y	N	-	Professional cartridge
Pickering TL-2-S Pickering XV15-757S	55 60	MM	-	Y	N N	-	Line contact stylus
Pickering XV15-625DJ	60	MM		Y	N		Line contact stylus  Broadcast cartridge
Pickering XV15-02303 Pickering XV15-1800S	70	MM		Y	N		Line contact stylus
Pickering TL3S	80	MM	11-11-11-11	Y	T	Mar.	1,30
Pickering XEV-3001E	95	MM		Υ	N	-	Elliptical stylus
Pickering XLZ-3500	100	MM	-	Υ	N	F 1	
Pickering TL-4-S	100	MM	-	Y	T		
Pickering TL-3003	145	MM	-	Y	T		Line and the
Pickering XLZ-4500	150	MM	-	Y	N	100 E	Line contact
Pickering TL-4004 Pickering XSV-5000U	175 200	MM		Y	N		High output
Pickering XLZ-7500	200	MM		Y	N		Hybrid, low impedence
Pickering TLZ-7500-S	200	MM	-	Y	T		
Rega Bias	34	MM	11-11-17-1		N		
Rega 78	34	MM	- 1.1	2	N		for 78rpm records
Rega Super Bias	52	MM	-2		N		
Rega Elys	74	_		-	N	-	
Roksan Corus Black	130	MM	1000	Y	N	-	
Roksan Shiraz Shure ME70B	800	MC MM	- 6mV	N	N	-	Conical stylus
Shure M92E	22	MM	5mV	Y	IN .	-	Dual T4P & normal fit
Shure SC35C	28	Contract Con	5mV	Y	N		For broadcast use
Shure M44C	33	The second second second	9mV	Y	N	- 1	Professional, spherical stylus
Shure ME95ED	38		5mV	Υ	N	1000	Elliptical stylus
Shure M55E	42	MM	6mV	Υ	N	-	Professional, spherical stylus
Shure M104E	44		5mV	Υ	-		DualT4P & normal fit
Shure ME97HE	60	MM	4mV	Y	N	-	Hyper elliptical stylus
Shure M110HE	74	-	4mV	Y	-	-	Dual T4P & normal fit
Shure V15V-MR Stanton 500EL	265 34		3mV	Y	N		Micro ridge stylus  Elliptical stylus
Stanton 500EL	34			A.	N		Spherical stylus
Stanton 680AL/X	50	The second second second	- 20	Y	N	-	Spherical stylus
Stanton 680EL/X	56		-	Y	N		Elliptical stylus
Stanton 890AL/X	82		- 40	Υ	N		Professional cartridge
Sumiko Ovster	30	MM	-	γ	N		



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 grams. Special - characteristics of the arm.

Products highlighted in red have bee tested in *Hi-Fi Choice*. Please refer to The Directory for full test results.

	Price	Туре	Output	Int. stylus	<b>3</b>	Weight	
CARTRIDGES							
Sumiko Black Pearl	50	MM	4	Υ	N		
Sumiko Pearl	70	MM	-	Υ	N		
Sumiko Blue Point	100	MC		N	N		High output MC
Sumiko BPS	250	MC		N	N		Nude stylus
Transfiguration AF-1 Mk I	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			N		
van den Hul MM-2	325	MM	-	-	N		
van den Hul DDT-II	675	MC	1.2	N	N		Silver coils
van den Hul MC-10	775	MC		N	N		Silver coils
van den Hul MC-One	975	MC	- 5.00	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
van den Hul Grasshopper	II 2300	MC	- 3	N	N		
van den Hul Grasshopper	II 2300	MC	- 4	N	N	100	
van den Hul Grasshopper	II 2950	MC	-	N .	N		
van den Hul Grasshopper	II 3200	MC		N	N		
van den Hul Grasshopper	II 3200	-	120	N	N	- 1	
van den Hul Grasshopper	II 3500	MC		N	N		
Virtual Reality Aciore	199	MC	1	N	N		
Virtual Reality Etile	299	MC		N	N		
Virtual Reality Lexe	899	MC	200	N	N		

Virtual Reality Lexe	899	MC	- 1	N	N	
Model TONEARMS	Price	Туре	Base type	Effective len	Wt. range	Special
Air Tangent Tangent 10B			-	-		Air-bearing
Air Tan Tangent Ref. Sig.	10000	-	+	1- 1	- 100	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			-	- 44	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	- 15	-	100	-7	Biaxial design
Graham 1.5T	2550	-	S	-	43.00	SME base, unipivot
Helius Orion 3 S1 Copper	395	P	Р	254	12.0	
Helius Orion 3 S1 Silver	515	Р	Р	254	15.61	
Helius Orion 3 S2 Copper	575	Р	Р	254	-	Bi-metal tube
Helius Orion 3 S2 Silver	695	Р	Р	254	1-0.5	Bi-metal tube
Helius Cyalene 2	1395	P	Р	254	-	Silver wired, pivoted
Kuzma Stogi	600	-	-	3-		Effective mass 13gm
Kuzma Stogi Ref	1000	-		<b>2</b> -31	-	Effective mass 12.5gm
Linn Akito	209	F	L	229	2-10	Statically balanced
Linn Ekos	1297	F	L	229	4-9	Dynamically balanced
Manticore Musician	395	F	L	230	- 1	
Manticore Magician1	695	F	L	230		Polished armtube finish
Manticore Magician2	795	F	L	305	- 6	Polished armtube finish
Moth Arm	95	-		-		Rebadged Rega RB250
Moth Mk III	146	- 4	-	- 1	7- 38	Rebadged Rega RB300
Naim ARO	794	-	7018	0.0	9-1	Unipivot
N'ham Space	350	-	+ 4	-	- 10	Optional silver wiring, unipiv
N'ham Mentor	750		-	-	-	Silver wiring, unipiv
N'ham Alien	1200		-	2	- 50	Graphite tube, unipivot
Rega RB250	95	F	R	237	-2	Scaled down RB300
Rega RB300	139	F	R	237	- 15	Pivoted arm
Roksan Tabriz Zl	330	F		9.7		'Intellligent' counterweight
Roksan Artemiz	690	F			- 10	Flagship arm
SME Series IIIS	242	Α	S	233	0-12	Economy version of Series III
SME 3009 Ser II Imp	268	F	S	231	3-7	Fixed headshell, low mass
SME 3009 S2 Ser II Imp	292	Н	S	231	3-8	Detachable headshell, medium m
SME Series III	335	Α	S	233	0-13	Ultra-low mass for hi-complian
SME Series II 3010-R	455	Н	S	239	0-25	Detachable headshell, 10 inch
SME Series II 3012-R	489	Н	S	308	0-25	Detachable headshell, 12 inch
SME Series II 3009-R	495	Н	S	233	0-28	Heavier version of Ser II S2 I
SME Series 300-309	599	Н	S	232	6-17	Ser V derivative with detach h
SME Series 300-310	611	Н	S	238	6-17	10 inch (nom) version of 300-3
SME Series 300-312	694	Н	S	308	5-14	12 inch (nom) version of 300-3
SME Series IV	869	F	S	233	5-16	Economy version of Series V
SME Series V	1294	F	S	233	0-14	Flagship model
Townshend Excalibur	799	F	Р	220	3-14	Outrigger headshell damping
Wheaton Tri-Planar 4	2750		-		- 36	With terminal box
Wheaton Tri-Planar 4C	3000		-	- 1	-	As above with Cardas cable
Wilson Benesch ACT1	975	-		-	72 97	Carbon-fibre armtube, unipivot
Zeta	469	- 1	-	12	-	Pivoted
Zeta	555	-	2	-	5 4	Pivoted, vdH wired

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

"I found I preferred the RINGMAT and will carry on using it. The results were wholly positive..." Jason Kennedy (Hi-Fi Choice, April '93)

"RINGMAT gave a sharper, cleaner, more solid sound, with better fine detail and clarity. On complex material the improvement in stability and focus was remarkable; easily comparable to an expensive tonearm, cartridge or power supply upgrade ... Any drawbacks? None I could detect. ... "Jimmy Hughes (Audiophile, October '93)

"I found the sound of my LPs improved significantly, reminding me of the experience of listening to records on a Goldmund Reference turntable with a van den Hul Grasshopper

cartridge with its nude stylus. All of a sudden, much more of the music, and the space in which it was performed, was evident. I'm sure that the legions of Linn and Rega owners out there who still play their LPs will want to make the modest investment required for a major improvement in vinyl play."



(Audio Ideas Guide, Winter '94)

#### Hear what your fellow music lovers say:

"I would agree with everything you claim for this product. The music is more natural, more musical, and with a loss of a certain rawness which persisted, no matter what, beforehand."

#### Mr. C.R., Northants

"RINGMAT goes on my very short list of things that make differences I care about." Mr. P.F., Washington D.C.

"This product must be one of the most cost-effective accessories ever to be offer to music lovers." Mr. R.A., Norway Can RINGMAT really be that good?

Yes, it is, but there is only one way for you to find out- try it yourself. But be warned: if you let your best friend borrow it, you will finish up buying another!

#### **Prices**

Different versions to suit turntable or budget from £27.50 for RINGMAT 200 to £40.00 for RINGMAT 330 MKII

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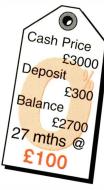
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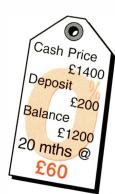
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# The DIRECTORY

# The original and best review based hi-fi guide

This is the legendary Directory, the second part of the 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 111.

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, though 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:

Р	Poor	
A-	AVERAGE-	
Α	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:

- 1. Check out the components' recommended retail prices in the *Directory*.
- 2. Find out as much as you can about the products you want by reading *Hi-Fi Choice*'s reviews and lab tests.
- ${\bf 3.}$  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 rave reviews.
- 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

standard of fidelity as a similarly rated turntable or CD player. Unless you have first generation masters of course.

hour or so, before making a decision.

#### **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 category 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.

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# How to use this guide

Perhaps the most influential symbols in the *Directory* are the little red triangles 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 accolade.  $% \label{eq:controller}$ 

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 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 short-listing components, but only experiencing the actual combination will tell you whether it works for you.

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99	DP5060/DP7060£249/£37
	DPR4060/DPM6060£199/£2
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ı	631/632	£149/£189
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,	637/638	£499/£599
,	631	£149
9	632	£189
9	633	

## AUTHORISED DEALER TCK 611 Dolby S

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STRD515/615£279/£32	29
TAAV570B£39	
TOTAL PROLOGIC PACKAGE	
TOTAL PROLOGIC PACKAGE	1

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XR5BK/562	£249/£249
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X362/FX572	.£129/£199
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XLM408/MC100	.£299/£799
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S20/S30	£369/£429
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NY	JBL TLX140£279
V570KIT£449	
/A3/TAAV510 <b>£369</b>	
CHNICS	B&W 620IM2£299
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# **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.

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 sound quality. The latter range

from models with basic tone controls to those with 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 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.

An increasing number of amplifiers are supplied without RIAA disc stages, or with the phono stage as an optional extra. If you use a turntable, make sure that it has a MM or MC stage to suit your cartridge.

μ	Amplifie		5		we were the second of the seco	t W/8SQ	ind	15 1.	NI	grate	eam	am	control	SOCH	SUR
	Product	£Pr			Comments			Ľ	Ĺ		~	ĽĨ			Í
Ā	Albarry AP4/S508	8	50	4-	A disappointing sound from a pre/power amp that's hamstrung by a variety of technical oversights. Albarry has done better.	4	6	4			•				
Δį	Albarry PP1	4	30	G+	Available with or without various MM/MC options, the 'basic' PP1 has an attractively warm, earthy sound.	4	8	4							
1	Alchemist Kraken	3	95	4	Class-A objet d'art that's far too sensitive to RF interference. Can sound cold and fierce as a result.	5	4	5							
Ĭ	Alchemist Kraken APD7/APD8	7	75	5	A quirky Class A number with an equally warm and colourful sound. Hardly accurate but entertaining nonetheless.	4	9	4							
Ī	AMC CVT3030	5	29	1	A well meaning and affordable attempt to mix transistors with valves, albeit one that only really shines with simple musical styles.	3	5	5							
i	Arcam Alpha 5	2	30	1+	A pared-down version of the Alpha 6 that suffers little penalty in power but a significant forfeit in sound quality.	6	0	5							
Δį	Arcam Alpha 6	3	00	/G	A new MOSFET design with a subtle and melodic sound that takes a conservative view of powerful dynamics	6	8	6							
۸Ī	Arcam Delta 110S/120.2	10	70	/G	Now in mkll guise this established combination has matured into a very articulate, powerful if dry-sounding amplifier.	10	9	4				•			•
Δį	Arcam Delta 290	4	80	/G	Combines the dryness and restraint of Arcam's older models with a refreshing sense of detail, dynamics and musical colour.	9	9	5							
Ì	Art Audio Quintet	13	93	/G	Switchable triode/ultralinear output stage. In triode mode these are 15 of the sweetest watts around. Surprisingly gutsy	15/2	5					•			
	Audio Innovations Alto				Despite a shortfall in very deep bass this unusual amplifier still sounds beautifully open, natural and relaxed.	41		6							
1	Audio Innovations Series 200	8	48		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		00		Under-powered and over-distorted yet capable of realising an open and captivatingly expressive sound. Sensitive speakers are a mus		1000	20							
	Audio Innovations Classic 25		99		Warm, cuddly and immensely musical kit amp that almost transcends 'hi-fi' with its sheer listenability	2		5							
	Audio Innovations Series 700		99		Valve amp that can turn the roughest of digital sounds into music, both understated and graceful. Sensitive speakers are a must	2		5							
	Audio Note Oto SE		00		Transparent, very dynamic, excellent clarity and subtlety with limited power make for a very clean sounding amp	9.		3						-	
	Audio Note Ongaku	431	- î		A single ended, zero negative feedback, triode, line level integrated amp and a half. Probably the best amplifier in the world!	2		6						100	
	Audiogram MB1		00		It'll successfully tackle the most difficult of speakers and still provide a very warm, rich and euphonic sound.	40								- 50	•
	Audiolab 8000A		80		Recent updates have maintained its competitiveness with a thoroughly refined, consistent and very disciplined sound.	80		5							•
	Audiolab 8000C/8000P		00		Very distinctive, almost stark neutrality that will not appeal to all listeners. Good value engineering, nevertheless	15		7						-	100 600
	Aura VA-100II Evolution		50		Our sample failed to confirm Aura's claims for more power. The big, smooth yet slightly disjointed sound was equally familiar.	74		6							
	Beard Audio CA35/P35mkII		90			35		4							
	Beard CA506		-8		Good build quality and finish and a characteristic valve sound make a first class amplifier capable of great musical enjoyment	3.		4		-8				-	
	Conrad-Johnson PV-10A		95		A versatile valve preamp, the bass sounded lively if a touch softened, while the treble was detailed but lacked a little sparkle	-		4			ŀ			-	
	Conrad-Johnson Premier 7		50		Fabulous preamplifier. Beautiful imaging, superb detail, plenty of gain on the phono stage; classy build quality too.			4						- 10	
		1100	- 8		The 'Seven is designed without compromise, and is clearly one of the finest (valve) preamplifiers money can buy.	40					•		-		
	Creek 4240 Denon PMA-250III		49		Bearing no relation to earlier Creek designs, this radical re-think is very much more successful via MM than CD.	49	5000	4							000
			30		Pretty high resolution for the price, occasionally looses its grip but is generally engaging and enjoyable	55	-	3		-	-				200 000
	Denon PMA-350II		20 (		In-depth modifications have brought the original PMA-350 out of its shell with a powerful, up-front and compelling performance.	89		5					-	-	000000
	Denon PMA-450		50		Denon's l'atest integrated amp swept the board with its big, brassy if somewhat extravagant sound.	99		5	-	•			-		
	DPA Digital DSP-200S/DPA-200				The very dramatic but exceptionally detailed and transparent sound of this combination belies its modest power rating.	48		5			ŀ			-	
	EAR 802/509mkll	420		1900	Extremely well made and combining the sonic strengths of both transistors and valves this EAR combo warrants attention	100		6	-		·				
	EMF Audio Sequel				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		25		Line only integrated with good sense of timing but limited hf extension. Likely to be very system dependent.	43		4						-	
	Harman Kardon HK1400		00		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 HK640		00		A light and breezy-sounding line-only amp with full remote control. Needs more substance to counter its flyaway balance.	78		6		•					•
	Jadis JP30/JA30	1220			French tubes. Beautiful build, nostalgic styling and delightful sounding midrange transcend limitations at frequency extremes	30		4	-		·				
	JVC AX-R562		50		More fuss and bluster than detail and dynamics was how one listener concisely described this less than wonderful model	90		5		-		-	112	- 10	
	Kenwood KA-3020		- 1		An unassuming little amplifier that turns in a remarkably balanced and entertaining sound. Lively, detailed and engaging	66	100	- 50	-	-	_		-	- 20	
	Kenwood KA-3020SE		30		A lower-powered but more load tolerant version of the KA-3020 with an up-beat yet very comfortable and generous sound.	39		5		-	1	-			
	Kenwood KA-4050R		30 🖊		Respectable but ultimately uninspiring model whose remote control is its main asset.	85			•				•		
	Kenwood KA-5050R		50 🖊		A listenable but neither particularly communicative or captivating amplifier that puts features ahead of sound.	103		6				-	•	-	
	Lecson Quattra		20 (		Underpowered but with the flexibility of four independent power amps. Very deep, captivating sound with 3D soundstaging.	40	100		•	•	-			8	
	Linn Majik-I		93 🖊	Name of	The cornerstone of Linn's modular hi-fi system has many innovations to its credit but its sound is vague and confused.	33	100	6		•			•		
	Magnum Class A		99		Lashings of rich and compelling music, trading a hint of lushness for stark accuracy. An unexpected find. Phono stage option	55		7		•					
	Magnum Quartet		29 🔏	-	An integrated model that incorporates four monobloks optimised for bi-wiring, but sound is sandy in the treble.	72		5		•		5	-		•
	Marantz PM-44SEmkll		00 🗚	Service .	Two generations on from the PM-40SE, Marantz' latest £200 contender provides a disappointingly grey view of music.	56	100	5	-	•				•	
	Marantz PM-54SE	3.3	30	-	A beefed-up variation of the PM-40SE inside a PM-52SE case. It has a very quick but forward and ultimately tiresome balance.	79	All I	6					46		ì

# Amplifiers continued

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Output Was inputs	Presidentiale State No.

	EPrice	-	Comments	100	-							
Marantz PM-80mkll	480		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		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/Typhoon	568	G+	A combination that plays everything close to its chest but bridge the power amp and you'll witness an explosion of detail.	62	6				٠	•		11
NAD 302	170	G+	A spritely and uplifting performance. Sounds loud but never intrusive or fatiguing.	39	5	•		•	-		•	
NAD 304	230	G+	Equally effective with CD and vinyl this is another successful and entertaining NAD amplifier for your shortlist	50	6	•		•	2000		•	12
NAD 1000S/208	1120	A+	One of the beefiest amplifiers we've ever tested. Unfortunately it sounds too restrained and lightweight.	314	5	•	٠		•	•	•	000
Nakamichi IA-3	350	G	A minimalist outing for the cassette heroes that's very confident if a tad restrained.	62	3			•			•	12
NVA AP-20	340	G+	Utilitarian amplifier sounds gentle and restrained but is euphonic and utterly engaging. Optional phono stage	35	4			•				10
Onix OA-21S/SOAP	730	G-	Via MM disc this amp comes alive with a fresh and vibrant sound though its CD input sounds utterly dead by comparison.	60	4	•	٠	•	0000			
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	•		•			•	1
Pioneer A-303R	200	G	A remote-controlled amp with a surprisingly fresh and uncomplicated sound that bests much of its audiophile competition	56	5	•		•	-		•	1;
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	•		•	-			1
Pioneer A-400	280	VG	Pioneer's design concept snaps into focus with an amp that seems to bubble with musical detail. A budget bench-mark	71	5	•	•	•			•	
Pioneer A-400X	300	G+	Now firmly in production and thoroughly retested, this erstwhile Best Buy was tonally unchanged but less compelling on audition	67	5	•	•	•				1
Pioneer A-503R	300	A-	At its best via MM disc, the dull and claustrophic sound of this remote-controlled amp is otherwise deeply uninspiring.	75	6	•		•				1
QED A270CD/PA	370	G+	Recent updates have bolstered the output of the A270 without adding to its colorations. The PA phono option is a touch expensive	61	5			•	1000000			
QED C300/P300	630	G	A cost-effective combo, limited in its resolution but less beguiling as a result. Disc stage is sweeter but samey	58	3	•				•		
Quad 34	398	A	Well-built durable preamp, filtering and above average tone controls but was found lacking in sound quality (viz: detail/dynamics)		4	•			•			
Quad 66/606	1553	G	Amplifiers with a classic lineage but compromised by an equally dated, soft and undynamic sound.	138	6	•				•		
Rega Elex	359	A	Minimalist amplifier that sounds too forward, hard and unforgiving for its own good. Shows plenty of promise, however.	51	4	•		•				1
Rose RV-23	450	G+	Beautifully built British 'hybrid'. You can spend more to get a more transparent sound but it's hard to criticise at the price		3	•			•			
Rotel RA-930BX	200	VG	A gilded version of the classic RA-930AX with a dark and luxurious sound that's reminiscent of Rotel's heyday.	50	4	•		•				1
Rotel RA-935BX	225	G	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	58	5							1
Rotel RA-970BX	300	G	Sounds lively, fresh and perky with plenty of power to manhandle tricky speakers. Not so clever with complex recordings however.	99	6							1
Rotel RC-980BX/RB-980BX	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					•		1
Rotel RA-980BX	425	A	This integrated version of the 980BX pre/power is certainly very powerful but also lacks poise and subtlety	139	5	•						1
Sansui AUX-417R	280	G+	Unusually clean and precise with more subtlety than is usually attributed to remote control amps.	53	5	•						1
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.	47	4							1
Sonic Frontiers SFC-1	1500	G+	Smooth, sophisticated Canadian valve amp with a decent direct input and more features than average	54	6							1
Sugden A21a	469	G	The modern-day relative of Sugden's original Class A amp and one that offers a smooth, easy-going sound.	25						•		
Technics SU-A800mk2	350	A	A quick audition might convince you the '800mk2 is something special, but longer term listening shows it's little but bluff.	79	5	•		•				1
Technics SU-A900mk2	400	G+	A Jeckyl and Hyde amplifier with a dismal-sounding phono stage but delightfully transparent and engaging CD input.	117	5							1
Woodside ISA230	900		Smooth and inoffensive valve amplifier if one that lacks the sparkle and euphony required for a truly entertaining sound.	27	5							1
Woodside SC26/STA35	3254		Synergistic pairing with a cool, controlled sound, good focus and transparency. More about poise than grunt	35	5					•		1
YBA Integre	1199		Audiophile spec French integrated with good resolution and nice phono stage.	57	4	•						
YBA 1 pre/power amp		E.	Well finished pre/power amp offers front rank stereo staging and transparency, and is capable of driving the most difficult loads	85	5							
YBA 2 pre/power amp	3849		Superbly finished with very good space and transparency, slightly softened bass. Needs transformer for MC cartridges	70	5							
YBA 3 pre/power amp	0043		This duo produced see-through, ethereal stereo images that were more convincing towards the centre of the soundstage	56	J				- 1			



#### ▲ Best Buy

# **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, making 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).

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 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

AV ampl	ifie	rs .	Front Output West	Surroun Hour W.	Video Audio	indeo indu	Sub inputs pho	NOOR S. D.	AMA OUT	Mill	Sue No	?_
Product	£Price	Comments	DES CONT				Y					
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		• 12	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		• 12	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		12	25
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	100	12	25
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		• 12	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	•	12	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		12	25



▲ Best Buy

#### 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

Product	£Price	Comments		75	V.			
Audio Note AN-A	29.50	A well-rounded and cuddly sound from a high-ish resistance interconnect. Lacks a sense of scale and dynamics	•		•			10
Audioquest Ruby Hyperlitz	70	A crisp, fast and articulate-sounding cable if one that's a little too pointed for our listeners	. •					10
Audioquest Lapis Hyperlitz	329	An expensive cable that justifies its tag with a beautifully poised sound - natural, relaxed and very compatible.	•			•		10
Audio Technica AT620	28	Plenty of cable for the money but its performance is distinctly lightweight, lacking depth and subtlety		•	•	•		10
Chord Chameleon	59	An unpredictable cable with an 'anomalous treble' that can sound harsh one moment and oddly recessed the next!		•	•	•		10
Chord Solid	115	What looks like a military RF cable actually provides a slightly forward but incisive and intimately detailed performance		•			•	10
Cogan-Hall Intermezzo Ref	185	A user-hostile cable with a tight, convincing bass allied to a very relaxed and involving mid/treble.	•					10
Cogan Hall Intermezzo E-M	320	This bigger, thicker and thoroughly unwieldy 3-core version of the Intermezzo Reference actually sounds a little coarser	•					10
DNM Interconnect	40	Fresh, transparent and packed full of detail, this slither of a cable scored a direct hit with our listeners	•					10
Goldring 'Studio Quality'	20	A bog-standard OFC coaxial cable that might otherwise be given away with a new amp or CD player. Cheap but nothing special.			•	•		10
Isoda Electric HA-08-PSR	199	This odd-ball cables utilises a mix of copper, brass and aluminium strands to achieve a very distinct sound	•		•	•		10
Madrigal HPC	215	A very unusual cable design with a business-like approach to music-making that barely conceals its underlying 'fizz'.	•		•	•		10
Magnan Type Vi	595	With a series resistance some 500-1000 times higher than average, the furry sound of the Type Vi will alter from system to system	m.	•	•	2.0		10
Monster Interlink 500	60	Plenty of hype to keep the marketing bandwagon rolling plus a lively and lucid balance to cheer up the enthusiast	•		•	1.		10
Moth Ley Line Black	100	The cheapest of Moth's Ley Line series uses just two twisted conductors to achieve a very solid and confident sound.	•			•	٠	10
Moth Ley Line Grey	200	The four twisted conductors of this cable actually mark a downturn in audio quality	•				•	10
Panasonic RP-CA910	50	This conventional coax employs plenty of hi-tech materials which encourage an even-handed balance. A good upgrade.		٠	•	•		10
Silver Sounds 12/2 and 12/3	99/150	Both these cables share a similarly open, transparent and dynamic sound though the latter is arguably the better integrated	•		•	•	•	10
Sonic Link Yellow	60	An interesting non-copper cable with an up-front sounded described as 'heavy-handed and pushy'.		•		•		10
Sonic Link Violet	99	Another nickel-based cable but with a very much better-balanced sound than Sonic Link Yellow	•		•			10
Straight Wire Laser Link	50	Thanks to its high parallel capacitance this interconnect helps remove ultrasonic noise. Unfortunately it still sounds very odd!	•		•	•		10
Straight Wire LSI-Encore	90	A solid-sounding cable with a strong mid and bass but a disappointingly sat-upon treble	•		•	•		10
Tara Labs Prism	36	6N-purity copper, aero-grade insulation and spaced solid-core conductors all add-up to a slightly bright but frisky sound	•			•		10
Tara Labs Quantum CD	63	Praised by our panel for its lack of obvious vices, Quantum CD encourages a sweet and positive sound.	•			•		10
Tara Labs Quantum II	99	Bass power and extension is the key to the sound of this unusual and hi-tech cable	•			• •		10
van den Hul The Source	70	Accurately reflects the life of the music without detail forcibly from the speakers		•	•	•	•	10
van den Hul MC D-102mklll S	80	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

# Diaital interconnects

Product	£Price		Comments					Har's	Q No.
Audioquest Video Z	50	E	The very best available with an expressive sound but generous price to sweeten the pill	Electrical			•		• 10
Audioquest Digital PRO	90	A+	A silver cable with all the drive of Video Z but lacking its clean-cut transparency	Electrical			•		• 10
Audioquest Optilink Z	100	A	Good level of midband detail but frequency extremes lack depth and extension	Optical		•			10
Bandridge AL560	20	P	The disappointingly heavy and muddled sound of this basic fibre thwarts any recommendation	Optical	•				10
Chord Codac	34	A	A connection with a stranded inner core and a sound that lacks integration	Electrical			•		• 10
DPA Digi-link	27.50	VG	Can seem slightly impassive but there's no avoiding its exceptionally detailed sound	Electrical			•		• 10
DPA Opti-link	20	P	Very similar to Bandridge AL560 with an equally naff sound	Optical	•				10
Kimber PSB Digilink	24	A-	An analogue interconnect inappropriately pressed into digital service. A visible deterioration in the digital signal results.	Electrical				•	10
Kimber KC-1 Digilink	52	A	This cable adopts a woven construction with the addition of a conductive screen. Music lacks detail and spirit.	Electrical				•	10
Kimber KC-AG Digilink	222	A-	An asymmetric cable using silver conductors that deviates from the 75ohm standard. Not ideal for digital applications.	Electrical					10
Kimber Opti-Link	70	G	Hardly cheap for what appears to be a bog-standard PMMA fibre, yet it sounds a little brighter and livelier than most.	Optical					10
Monster Cable Datalink 100	45	G+	A colourful coaxial interconnect with an equally colourful and up-beat sound. Very compatible.	Electrical			•		• 10
Monster Cable Interlink LS100	45	G	Well constructed stepped-index fibre with polished ends and rugged connectors. Slightly lean, fuzzy but engaging performance	Optical	•			1000	10
Moth Leyline Datalink	140	A-	A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive.	Electrical			•		• 10
QED Digiflex	19	VG	A top performance, low-loss 75ohm coax with a very open, almost liquid quality that allows its music to ease naturally across.	Electrical			•		• 10
Sonic Link Brown Digital	35	A-	A solid-core, twisted-pair interconnect that deviates from the 75ohm standard and provides an equally unbalanced sound	Electrical				•	10
Straight Wire Silver link	60	G+	A genuine attempt to get things right with a silver-plated, multi-strand coax. Yet it still sounds too dry and mechanical	Electrical			•		• 10
van den Hul MC Videolink 75	30	VG	An AV-cum-digital cable that comes very close to besting QED's Digiflex. Still some emphasis of vocal sibilants, however	Electrical					• 10

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Speukei	LU	Į	les -	Stance	Tance a	ded u	CORE	Oper Si	Wer N	6
Product	<b>£Price</b>	;	Comments		N. Yes					
Audio Note AN-B	165	G+	A very high capacitance Litz-style cable whose sound may well act as a taming influence in many systems	М	Н		•	•	1	109
Audio Note AN-D	100	A	Supplied in linear, non-polarised lengths that should be twisted into stereo pairs. Sounds rather gritty and forward	L	L	•		•	1	109
Audio Note AN-SP	1270	VG	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	A+	Ideal for laying flat under carpets, F-14 encourages a slightly warm and vibrant sound	M	L		•	•	1	109
Audioquest Type 4	75	A+	Four 18-gauge OFHC copper conductors wound in a Litz-fashion increases capacitance but restrain the cable's 'bite'	М	Н		•	•	1	109
Audioquest Midnight Hyperlitz	260	G	Very similar to Type 4 but with a delicate smoothness that contrasts with the brighter sound of cheap cables	L	Н		•	•	i	109
Bandridge LC7259 & LC7401	20/30	A	Two very traditional figure-of-eight cables. The thinner version (LC7259) sounds lighter and coarser than LC7401	L	L	•		•	1	109
Bandridge LC8258 & LC8408	30/50	A-	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	je 465	VG	Extra care must be taken to prevent shorting this user-hostile cable. Nevertheless it sounds superb!	L	L			•	1	109
DPA IS19	275	G+	Shares the clear, neutral and transparent sound of the older 8S without the tremendous clarity of Gortex Black-16	L	L		•	•	• 1	109
DNM Rainbow	84	A+	The high impedance of this simple ribbon cable has an influence on the treble response of some speakers. Lacks 'comph'	н	L			N.	1	109
Heybrook Heywire	66	A	This well-meaning facsimile of earlier ribbon-style cables ends up sounding lumpy and uneven	Н	L			•	1	109
Isoda Electric HA-20	400	A+	This unorthodox cable employs a combination of copper, brass and aluminium strands. It sounds 'oddly impure'!	M	L	•		•	1	109
Mission Stranded	20	G+	This Swedish-made cable proved a real hit with our listeners - a slick performer and Best Buy upgrade	L	M	•		•	1	109
Monitor PC KC27/KC34	40/60	A	Two heavyweight multi-strand cables with a thick and chesty (10027) or light and wispy (10034) balance. Take your pick	L	L	•		•	. 1	109
Monster Powerline 3 Plus	75	A-	The archetypal 'old-style Monster Cable' that labours under a soggy bass and untidy treble	L	M			•	1	109
Naim NAC A5	44	A-	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	•		•	1	109
QED Bi-wire 79-Strand	35	A	Reminiscent of curtain track, this bi-wire version of 79-strand is unfortunately saddled with a 'loud, hard and untidy' balance	L	L	•		•	1	109
Silver Sounds 12/2	300	E	Tonally accurate and exquisitely detailed, this cable opens a very transparent window on the music	L	Н		•	•	• 1	109
Silver Sounds 16/4	200	VG	A prime choice for bi-wire systems even if this cable does lack the full finesse of its sister 12/2	М	Н		•	•	• 1	109
Sonic Link Grey	80	G-	A spaghetti-thin cable composed of silver-plated OF-copper and PTFE insulation. Lacks bass impact and treble 'air'.	н	М		•	•	• 1	109
Straight Wire Waveguide 1.5	20	G	A conventional multi-stranded cable with a refreshingly up-beat, crisp but slightly lean-sounding balance	M	М	•		•	1	109
Straight Wire Flex-4	50	G+	Another very quick and dynamic-sounding cable from Straight Wire. A little short on subtlety but very engaging nonetheless.	L	Н	•		• •	1	109
Tara Labs Quantum III	238	G	An imaginatively-named cable that encourages an equally colourful sound. Described as 'dark and fruity' by our panel!	L	Н		•		1	109
van den Hul MC The Clearwater	50	A	Despite its evocative title, the Clearwater turns out to be a disappointingly 'murky sounding' cable	М	L			•	. 1	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			•	. 1	109
van den Hul MC The Wind	330	VG	Blown-in from the continent, vdH's 'Wind' kicks up a storm with its lush midrange and bone-crunching bass!	L	М			•		109

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**Best Buy** 

# **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 treble 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

•	Lusselle	uc	CNS	Olby B	"By CA	Provy	S'Ed	yust	Tion	ect er	Se No	?
	Product 5	Price	Comments	7.3	2 5.4							
	Aiwa AD-F450	120 <b>V</b> G	Basic but well designed budget deck; astonishing value, only the poor metering gives the game away	•	•	•		•			1	36
	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	•	•	•		•	e			99
	Aiwa AD-WX828	200 <b>G</b> -	Equipment levels strong, and sound is both vivid and presentable, but control system daunting.	•	•	•			•	٠	• 1	23
	Aiwa AD-WX929	230 <b>A</b>	Superbly equipped twin deck that works and works well - remote control	•	•	•	•			٠	1	17
	Aiwa XK-S9000	700 <b>G</b> +	Fabulous build, clunky transport and sharp, refined sound quality with Dolby S or B and metal tapes	•	•	•	٠	•			1	05
	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.	•	•	•	•	• •			1	05
	Akai GX-95II	440 <b>G</b> +	Sharp, clear and articulate sounding deck, with superb performance extending to frequency extremes	•	•	•	٠	•	•			99
	Akai GX-R35	220 <b>A</b>	Middling sound quality at best with Dolby B; deteriorates with Dolby C	•	•	•	٠					99
	Akai GX-W45	320 <b>A</b>	Costly but musical high-spec dual deck, doesn't like modern high energy Type IIs and IVs. Good stability and clarity	•	•	•				٠	1	11
	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	•	•		•	•	•		1	11
	Denon DRM-740	260 <b>A</b>	Breathed-on DRM-710, with good external treatment offers good, if somewhat detached sonics	•	•	•		• •			1	36
	Denon DRS-610	200 <b>G</b>	Unique loading mechanism provides stability, and the deck has a crisp, clean quality. Occasionally anaemic bass.	•	•	•		,	•		1	11
	Denon DRS-810	300 <b>G</b> -	Drawer loading deck, carefully designed, yet lacking in subtlety on audition.	•	•	•					1	27
	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.	•						٠	• 1	23
	Harman Kardon DC5500	600 A	Workmanlike sound quality offset by high price and inexplicable shortcomings like 'forgetful' Dolby switching and no timer support.	•	•	•				•	• 1	17
	Harman/Kardon TD4400	350 <b>G</b>	Simple features plus excellent engineering make this a model of integrity.	•		•		•			1	27
	Harman Kardon TD4600	700 <b>A</b>	Original Dolby S deck has improved over the years and now sounds very acceptable. A strong, solid sounding deck - but expensive.	•	•	•	•				1	17
	JVC TD-R452	180 <b>A-</b>	Tidy, stable but ultimately rather soul-less experience. Auto-reverse is useful though.	•	•	•					• 1	17
	JVC TD-X352	150 <b>A</b> -	Disappointingly amorphous sound despite decent measured results.	•	•	•		•			1	17
	JVC TD-V562	200 <b>G</b> +	Ultra-sophisticated transport at a silly price; sound quality is stable but slightly opaque.	•		•					1	23
	Kenwood KX-3050	170 <b>A</b>	Acceptable sound quality marred only by a loss of midband analysis and slightly edgy treble.	•		•					1	17
	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 m	ust •		•		•			• 1	05
	Kenwood KX-7050S	400 <b>V</b>	Very well equipped and fine sounding deck, includes well implemented Dolby S.	•		•	•				1	27
	NAD 602	200 <b>G</b>	Minimalist deck for the audiophile market. Unfortunately engineering is minimalist too	•		•					1	27
	Nakamichi DR-3	400 <b>V</b>	Refined, exquisitely detailed and solid sounding 'budget' Nakamichi 2-header.	•				•	,		1	23
	Nakamichi DR-2	600 V	Accomplished design with simple features (manual tape select!) but superb sound/serviceability.	•				• •			1	27
	Nakamichi DR-1	850 <b>V</b>	Typically idiosyncratic Nakamichi with manual everything, Good azimuth adjustment and dynamic, authoritative sound.	•							1	17
	Philips DCC600	500 A+	Simplified circuit and mechanism, but the Philips badly needs a D/A converter transplant	•							• 1	23
	Pioneer CT-S430S	200 V	Against the odds - a 2 head Dolby S deck that works. Well set up and fully equipped.	•		•	٠		•		1	36
	Pioneer CT-S520	280 <b>G</b>	Decent if slightly coloured middle ranker with FLEX to revitalise old or soggy sounding tapes.	•		•		•	•		1	23
	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.	•		•					• 1	11.
	Sherwood DD-3010C	120 <b>P</b>	Good range of features, let down by poor transport and iffy electronics.	•		•				•	• 1	17
	Sony TC-K415	180 At	Mainly UK designed with audiophile intent, but spoiled by erratic output, at worst with metal tapes.	•	•	•		•			1	36
	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	•		•	•				1	27
	Teac R-9000	500 <b>G</b>	Much better than average auto-reverse deck, well worth considering. Nicely engineered too.	•		•	•	•	•		• 1	05
	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	•		•		•	•		1	05
	Technics RS-BX646	230 <b>G</b> -	Unusually well built and non-microphonic deck with sophisticated facilities and lucid midband.	•		•					1	27
	Technics RS-BX701	270 <b>G</b> -	Not cheap, but extremely well built deck, moderately well equipped a pleasure to operate and to listen to.			•					1	36
	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			•		•				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.

**Best Buy** 

D playe	ers	Qq <sub>Q</sub>	Electrical distinct Remote Conf. Spe.	digita troits	riable out	ohon out	entry Sock	tex	ISSU
Product	£Price	Comments		7	Ť	Ť	1	Ť	Ť
Aiwa XC-750	200 A	A refined version of the XC-700, sadly it has lost the magic of the original	PDM Bitstrm						
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						•
Arcam Alpha One	300 A+	The first UK-built player under £300 is hampered by a tidy but rather grey and uninspiring sound.	PWM bitstrm		•				•
Arcam Delta 270	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		•				
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		•				•
AVI S2000MC	999 <b>G</b> +	A stylish, midi-width player with an exceptionally refined and comfortable sound. Lacks passion	20-bit		•				
Denon DCD-615	180 <b>G</b>	Builds upon the smooth and composed sound of the DCD-595 while offering extra widgets at no extra cost.	18-bit		•		•		•
Denon DCD-825	220 <b>G</b>	Despite extensive revisions, this latest player still sounds like a typical `18-bit Denon', which is no bad thing!	18-bit				•		
Denon DCD-1290	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						
Dual CD1001RC	180 <b>A</b> -	This Yamaha-based CD player is compromised by a number of technical flaws and a fundamental lack of bass.	PDM Bitstrm						•
Goodmans Delta 700	110 A+	A 16-bit alternative to the CD650II that furnishes a colourful and animated sound	16-bit						
Grundig Fine Arts CD2	190 <b>A-</b>	A stylish-looking player with a disappointingly vague approach to music-making	SAA7350						
Harman Kardon HK7725	800 <b>VG</b>	This flagship implementation of RLS sounds impressively bold and dynamic - a genuine rock 'n roller!	18-bit RLS						
Harman Kardon TL8600	700 <b>G+</b>	A refined and more flexible version of the TL8500 multiplayer with a significantly more expressive sound	MASH/PWM						
JVC XL-V274	160 A	This appears to be a re-badged version of JVC's XL-V264, retaining an over-heavy bass and generally gaudy sound.	PEM Bitstrm						
JVC XL-Z1050	500 A	Technically advanced and luxuriously equipped, this player remains rather bland and unsatisfying on audition	PEM Bitstrm						•
Kenwood DP-3060	200 <b>G+</b>	Based on the same filter/DAC as Marantz' CD-53 but with a more transparent, sober and highly insightful sound.	NPC bitstrm						
Linn Karik			Crystal BS						
Marantz CD-53	1497 <b>VG</b>	Based on Linn's original CD transport, this player sounds dry but very positive, detailed and engrossing							
Marantz CD-63	200 <b>G</b>	Looks identical to the CD-63 but component costs are cut inside, exposing a slightly ragged but enthusiastic performer.	NPC bitstrm						
Marantz CD-52IISE	250 <b>VG</b>	New technology has enabled Marantz to steal a march on its old CD-52 series and, once again, regain the upper hand.				·			
	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						
Marantz CD-72SE	600 <b>G+</b>	A recommendation just eluded the grasp of this superbly built player thanks to its very polished but restrained sound.	bitstream	-					
NAD 501	180 <b>G</b> -	A thoroughly typical frill-free player but with a slightly too cautious, even restrained musical outlook.	SAA7323						
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	•					
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	٠				-	
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	•					
Onkyo DX-C110	350 <b>G</b> -	A big and beefy 6-disc carousel that strides confidently through rock and pussyfoots around gentle ballads	Bitstream	•					
Philips CD732	140 <b>A</b> +	A cross between Philips CD690 and CD920 is no more technically accomplished but encourages a very lively and entertaining sound	SAA7341	•	•			٠	
Philips CD740	170 A	One of several Philips players using a hybrid of DAC technologies. Still sounds insufferably boring, however.	Hybrid	٠	•		•	•	
Philips CD750	200 A+	The costilest player in Philips range and the last to use its BS DAC lacks a sense of integration and stereo focus.	PDM Bitstrm	٠	•		•	٠	•
Pioneer PD-S503	200 A	The cheapest Legato Link player yet but another that sounds unpredictable and generally hard work.	PFM Bitstrm	٠			•	٠	•
Pioneer PD-S703	300 <b>G+</b>	Legato Link and bitstream are combined into a cheaper IC though the player sounds as manipulative and intriguing as ever.	PFM bitstrm	٠	•	٠			•
Pioneer PD-S901	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	٠	•	٠			
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	٠	•				•
Rotel RCD-940BX	230 <b>A-</b>	A sea-change in transport and DAC technology lies behind the most untidy-sounding and irritating player to emerge from Rotel.	Hybrid	٠					•
Rotel RCD-945AX	230 <b>G</b>	Based on the same CD-player-on-a-chip as Philips CD690 but with improved execution and build.	SAA7341	•	•				•
Rotel RCD-965BX	300 <b>E</b>	An exceptionally refined bitstreamer: transparent, exquisitely detailed and powerfully emotive. A landmark player	PDM Bitstrm	٠	•				•
Sansui CD-X317	250 A	Not in the same class as older CD-X311mkll. Same technology but the sound is neither as responsive or engaging	MASH/PWM	٠	•			٠	•
Sansui CD-X617	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	٠				٠	•
Sansui CD-Alpha 717DR	1560 <b>G+</b>	A beautifully constructed if rather dated flagship player with an equally sedate and unadventurous sound.	MASH/PWM	٠	•	٠	•	٠	•
Sherwood CD-3020R	130 <b>G</b>	Although this budget wonder has little respect for musical convention, what emerges is still remarkably entertaining	NPC bitstrm	٠				٠	•
Sherwood CD-5010R	160 <b>G+</b>	A warm, detailed and enjoyable performance from a solidly built but affordable package.	PDM Bitstrm	٠				٠	•
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	•				•	•
Sony CDP-312	150 <b>G</b>	Something of a rough diamond, offering a raft of features and good build but a decidedly technicolour sound.	PLM bitstrm	•					•
Sony CDP-C345	230 <b>A</b> +	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	٠		000000000000000000000000000000000000000		•	•
2- ODD 7455	250 E	Advanced Pulse technology collides with UK tweaking to produce one of the most fabulous CD players in recent memory.	PLM bitstrm						
Sony CDP-715E	200			100	COLUMN	- 1	100000	- 10.	

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<u> </u>			472	2 Pairs B & W Team and a
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#### THE DIRECTORY

# CD players continued

CD playe	ers	5 (	THE DIRECTORY	OAC NO.	cal digi	Head ariable to the total ariable to the total ariable to the total areas are to the total	Track	entry cock	Keyp	Sile No.
Product	£Price		Comments		9	7	4	7		.V .O.
Teac CD-P4500	280	G	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-PG460A	160	A	Sadly this player lacks the fire of Technics' earlier budget wonders. It looks similar but sounds terribly apathetic.	MASH/PWM	•			•	•	• 139
Technics SL-PG440A	170	G	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-PS620A	200	G+	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
Technics SL-PS740A	250	A	Nothing wrong with its technical heritage but Technics' ongoing 'improvements' only serve to stifle the sound of this player.	MASH/PWM	•		•	•	•	• 137
Yamaha CDX-670	290	G-	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

▲ Best Buy

# **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 tran	etta 250 750 G+ Arcam's best effort yet is a new design based on the Philips CDM9 transport; specification includes Sync Loci boint DA-11E 1495 VG By rights this transport should be highly incompatible yet it delivers a remarkably vivid and natural sound.  200 895 G+ Broadly compatible and offering a light, fresh and very bubbly sound that is both natural, engaging and unfating a second constructed but sound is bleached and generally less inspiring than that of the P-10 and A+ The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks.  1990 G+ A mild-mannered transport capable of marvellous results with lively-sounding outboard converters.	ts	Remote control	Optical of Gital Output	igital Output	Class 1	Sue No.	
Product	£Price		Comments	THE PARTY	THE			
Arcam Delta 250	750	G+	Arcam's best effort yet is a new design based on the Philips CDM9 transport; specification includes Sync Lock facility.	•	•	16.	•	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

# DACS

DACs			DAC Spe	output	Phase Outs.	e invert
	£Price	Comments	* <i>D</i> e	~Ut	MUT	-77 °C
Arcam Black Box 50	450 <b>V</b> G	A very measured and sophisticated sound from a DAC that leaves plenty in reserve to accommodate future upgrades.	Hybrid	•		• 12
Arcam Delta Black Box 500	750 A+	A very sophisticated unit equipped with Sync Lock and discrete DAC circuitry. Early samples sounded restrained and grubby.	Bit Stream	•	•	• 10
Audio Alchemy DAC-in-the-Box	200 <b>G</b>	Despite its slightly veiled sound this giveaway DAC may still rescue the oldest of players from obsolescence.	18-bit	•	•	12
Audiolab 8000DACmkll	750 <b>G</b>	Just as smooth and refined as its predecessor yet, sadly, still manages to obscure the passion or fire of music.	DAC7	•	•	• 12
Audio Note BAC 1	600 <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	•	•	12
AVI S2000MD	549 <b>G</b>	Despite using a very different chipset, the S2000MD sounds as civilised and refined as AVI's other digital separates.	16-bit	•	•	13
Cambridge Audio DACMagic-1	150 VG	Ridiculously under-priced, this DAC is better suited to high-end transports than the budget players it was intended to partner.	Hybrid	•		10
DPA Digital Little Bit II	400 <b>G</b>	A new on-board mains filter promotes a smoother and richer sound at the expense of some life and vitality.	SAA7350	•		1:
DPA Digital Bigger Bit	695 <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	•	•	1
Kinshaw Overture	235 <b>A-</b>	A neat enough package that's infested with a variety of technical bugs and severely chastised on audition.	Hybrid	•		1:
Kinshaw Perception	745 V	A two-box converter that sounds loud, quick and very dynamic without tripping over complex material. A good 'un.	Hybrid	•		13
Meridian 563	695 <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	•	•	• 1:
Meridian 606 DAC7	1350 <b>G</b>	By refining the 203's sound further Meridian have also tempered its vibrancy and 'life'. Fickle with other transports	DAC7	•	•	• 1
Micromega Duo BS2	600 <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	•	•	• 10
Micromega Microdac	300 A+	Described as a modest but entertaining performer, achieving its sweetest balance with Arcam's D170.3 transport.	SAA7321	•	•	1
Mission DAC5	300 <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	•		• 1
Musical Fidelity Tubalog	499 <b>G</b> +	The animated character of the Tubalog ensures it's a great upgrade on budget CD players.	18-bit	•		1:
Pink Triangle Ordinal	750 <b>E</b>	The cheapest dual-differential DAC7 converter available. Offers interchangeable digital filters and top-flight sound quality.	DAC7	•	•	• 13
QED Digit	139 <b>G</b> +	Bearing in mind its expressive but very forgiving performance the Digit is almost embarrassingly cheap	PDM Bitstrm	1 •		1
QED Digit Reference	425 <b>G</b> +	No great advance over the basic QED Digit yet its enthusiastic sound is more than competitive at the price.	Bit Stream	•		1
Select Systems Dacula	400 <b>G</b>	The overly warm and heavy bass of this DAC is quite atypical of the Crystal Bit Stream DAC.	Crystal	•		13
Sugden SDA-1	749 <b>G</b> +	A pleasant surprise from the fuddy-duddies of audio, judging by its 'masses of high resolution detail and tremendous dynamics'	TDA1541	•		1
Thule Audio DAC-200	799 A	A good first effort from Thule even though its fizzy and over-eager sound could do with house-training.	DAC7	•	•	• 13
Woodside DAC1	909 <b>G</b>	Fine but slightly dated and costly package in performance terms - but flexible, musical and t well built	16-bit	•	•	
Woodside DAC2	509 <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	•		10







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#### THE DIRECTORY

## Transport/DAC combos

Product	<b>£Price</b>		Comments Com	N. V. S. S.		T			
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		•			•
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		•		•	•
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		•			•
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	•	•	•	•	•
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	•	•	•		•
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		•	•		•
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	•	•			•
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		•			•
Meridian 500/563	1670	A+	Combined with its own 500 transport, the recommended 563 sounds disapointingly thin, brash and uncomfortable.	Crystal	•	•	•		•
Meridian 602/606	3100	VG	Meridian's top-of-the-range two-box player looks and sounds both distinctive and elegant, the perfect partner for a cultured system!	DAC7	•	•	•	•	•
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	•	•		•	•
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	•	•	•		•
PS Audio Lambda/Ultralink Two	4900	VG	In direct contrast with its appearance, this duet positively sparkles with colour and resonant detail.	20-bit	•	•	•		•
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	•	•	•		•
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	•	•	•	•	•
Theta Data Basic/Cobalt 307	2696	G+	A cautious and slightly over-refined combination that fails to make the best of either component.	Hybrid					



## **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 such as mixing desks.

## DAT players

DAT play	yers		Remote Cont	Electrical in out	AES/EBU IN	SPOK IN OU	ISSUE NO.	ģ.
Product	£Price -	Comments Com	SELECT OF				Val	
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	•	•			1	111
Panasonic SV-3700	1111 <b>A</b>	Slick, powerfully equipped, this pro DAT has a clear, quick and colourful sound somewhat lacking in weight and substance		•		•	• 1	111
Tascam DA-30	1199 A+	Interesting pro DAT deck with solid, tangible sound quality which is nevertheless lacking in analysis		•		•	• 1	111



## **Headphones**

here are a variety of different approaches to head phone 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	ones	5	Type Open L	Closed back	Oynan,	ectrostal	Issue No.
Product	£Price	Comments	V			V	Z.
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 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>VG</b>	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
Audio-Technica ATH-910	90 <b>G</b>	The closed-back 910s are an improvement on the 909s with a nice rhythmic quality rarely found with headphones	Circumaural		•		55

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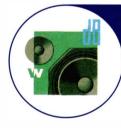


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## Headphones continued

теиирно		s continued	Type Open	Closed back	Dyna, Dack	Tic Sta	Issue N
Product	<b>£Price</b>	Comments	- V				Č.
Audio-Technica ATH-9000	246 <b>G</b>	Electrets which connect to the amps speaker outputs, it sounds a little too smooth but would suit aggressive amps	Circumaural	•			
Beyer DT311	45 A+	Uncharacteriustically tight, unrefined soud quality from otherwise well engineered 'phone	Supra-aural	•		•	
Beyer DT411	59 <b>G</b>	A reasonable but not very thrilling headphone that doesn't really offer enough at the price	Supra-aural	•		•	
Beyer DT911	199 <b>VG</b>	Probably too revealing for many headphone amps these are very subtle and fine if expensive cans	Circumaural	•		•	
Beyer DT990	119 <b>VG</b>	A significant pair of dynamic headphones; they have a smooth and yet revealing neutral sound that is hard to criticise	Circumaural	•		•	
Jecklin Float Electrostatic	399 E	These electrostatics have an openness of sound rarely found in the breed, with good dynamic range to boot	Circumaural	•			•
Jecklin Float Model One	75 <b>G+</b>	Whilst very unusual in appearance, the Floats give remarkable sound quality and openness at a reasonable price	Circumaural	•	1	•	
Jecklin Float Model Two	99 <b>G</b> +	Helmet shaped and pretty unflattering but open sounding and comfortable in the long term. te lack of adjustment	Circumaural	•		•	
JVC HA-D690	40 A	Competent but rather undistinctive cans, a bit middle of the road and well suited to aggressive sources	Supra-aural		•	•	
JVC HA-D910	65 A	Broadly acceptable if unexciting design with low level losses and some colourations	Circumaural		•		
Kenwood KH-1000	20 <b>A-</b>	First step up from a true mini: a near miniature which is cheap, comfortable and inoffensive	Supra-aural	•		•	
Koss TD/60	30 <b>A-</b>	AM radio like bandwidth limitations and colourations, and rather flaky build	Supra-aural		•	•	
Maxell HP-3000	30 <b>P</b>	Solid, smoothn sounding but congested and undynamic. Includes in-lead controls.	Supra-aural		•	•	
Pioneer SE-400D	37 <b>G-</b>	Acceptable if unexciting all-rounder, with good long-term comfort levels.	Supra-aural		•	•	
Ross RCH-300CD	20 <b>P</b>	In-lead controls are the highlights of this shoddy, sometimes agressive sounding design.	Supra-aural		•	•	
Sennhesier HD320	40 <b>E</b>	Superb value: articulate, accurate and musically effective, but location on ears can be uncertain.	Supra-aural	•			
Sennheiser HD440 II	35 <b>A+</b>	Still the one by which others at the price are measured, though now slightly leaden sounding, cold treble	Supra-aural	•			
Sony MDR-CD1000	170 <b>G</b> +	A fine sounding and comfortable headphone that's likely to work well with most sources	Circumaural		•		
Sony MDR-CD450	45 <b>G</b> -	Fair acoustic isolation and comfortable curcum-aural construction, moderate sound quality	Circumaural		•		
Sony MDR-CD550	60 <b>G+</b>	A very competent headphone, creates a remarkable sense of space for a closed back design and sounds natural to boot	Circumaural		•		
Sony MDR-CD750	90 <b>G</b> +	Reasonably comfortable and eminently listenable these Sonys have characteristically good bass power and relaxed hf	Circumaural		•		
Stax Gamma pro/SRD-X pro	678 <b>E</b>	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 <b>E</b>	The Signature when combined with the SRM-T1 valve driver must be the most transparent headphone available	Circumaural				•
Stax SR Gamma	239 <b>G+</b>	The next model down the Stax range from the Lambda, the Gamma is an excellent headphone with little to criticise but the price	Circumaural	•			•
Stax SR Lambda Pro/SRD-7SB	674 <b>G+</b>	An industry reference, frighteningly revealing, bringing across more information than loudspeakers costing twice as much	Circumaural	•		1	•
Stax SR Lambda Pro/SRM-1	1239 <b>E</b>	Extracts layers of information that other headphones only hint at. The SRM-1 has more edge than the SRM-T1	Circumaural	•			•
Technics RP-F10	100 A	Another very comfortable sealed model, modest sound isolation and uneven sound favouring bass	Circumaural		•	•	
Vivanco SR606	40 <b>G</b> +	Although slightly overblown at times, this model is easy on the aers and essentially enjoyable.	Circumaural				
Vivanco SR808 Classic	55 <b>G</b>	A new mid price reference from a new and interesting source. Good all round, no obvious shortcomings	Supra-aural				



▲ Best Buy

## 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

Loudspe	eak	e	rs	HAWAD (CITY) Bass from	Site Citivity	Site in lose to	Tree St.	orstandi,	ssue No.
Product	£Price		Comments Com	·10)	9	9	4//	- Co	9 0
Acoustic Energy Aegis 1	452	G	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	G	Amongst the best miniatures around, shows exceptional mid focus and coherence, but is pricey and could be more agile.	29.5x18x25	48	84		•	102
Acoustic Energy AE3	1650	G+	Solid, authoritative and impressively accurate – if a shade ponderous and slow	63x26.5x37	23	85		• 11	86
Allison AL100	100	A	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	A-	Pretty enough in appearance, sonically the AL105 doesn't really make the grade at the £150 asking price	37x24x21	45	87	•		78
Allison AL110	220	G-	Compact bookshelf model is a little dry and mid forward, but bass is extended and solid	40x24.5x22.5	28	86		•	102
Allison AL120	420	A	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	A-	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	G+	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	G	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
ATC SCM20	1461	G+	Massively built, invariably informative but the rather forward presentation can be uncomfortable	44x24x31	28	82		•	• 86
Audio Note AN-E/B	1300	G+	Lovely coherence, great midband dynamics and transparency, extended bass and high sensitivity — pity it's so darn ugly!	80x36x28	20	91		•	106
Audio Note AN-J/B	799	G+	Light damping and local unevenness adds some coloration, but doesn't spoil the very lively, dynamic and coherent sound	58.5x33x24.5	25	90		•	110
Aura SP-50	400	A	Two very tasty drivers rather outclass the cabinetwork; a capable but slightly dull compact stand mount	40x22x25	30	87		•	126
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		•	118
B&W 2003	190	A-	Flashy and assertive ghetto blaster styling is not reflected in the rather bland, if well balanced sound	43x21x25	30	88		•	122
B&W DM600i	180	A+	Smart cosmetics and a very even balance overall, but dynamically rather bland; amplifier current demands are quite high	35X20.5X25	25	88		•	135

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## Loudspeakers continued

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Size: HXWAD (CM)	Ess Sensitivity to the State of
(CM)	Ton thing se to wall pace ding No.

1	Product	£Price		Comments	'1)	9	9	4//	92	B	.0.
	B&W DM620i		A+	Good material value, this compact floorstander has a beautifully voiced midband, less happy bass tuning	77x24x32	40	89		•		120
	B&W Matrix 801	3500	10000	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				8
	B&W Matrix 805	845	ASSESSED FOR	Stylish, with remarkable imaging properties, good balance and low coloration, though less successful at musical communication	42x26x22.5	30	87				9
	Bose 305	430	1000000	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				7
	Bose 401	500	2000	Cheaply built but distinctively styled semi-omni floorstander suffers from heavy midbass but still sounds lively and open	78.5x30x28.5	28	89				11
	Bose 901 MK6	1650	0000000	The pre-equalised multi-driver 901 is cleverly engineered to deliver exceptional loudness	33x54x32	28	89				8
	Boston HD5	139	0000000	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				11
	Boston Acoustics SW10	449	DESCRIPTION OF THE PERSON OF T	Clever powered subwoofer system integrates well and improves system loudness and power handling	50x28.5x42	35	NA				12
	Cabasse Bisquine		G+	Classy French large bookshelf speaker has great coherence and dynamic grip, but a rather mid-forward overall character	48x26x30.5	30	91				11
	Cabasse Skiff	1500	16000000	Large floorstanding three-way gives great sensitivity and bass extension with fine dynamic grip	100x30x36	25	92		•		12
	Canon S-30	180	A+	Clever and unusual moulded design has attractive lively coherence, along with 'wide imaging stereo' effect	27x22.5x23.5	50	88				11
	Canon S-50	250	A+	Only a small cone miniature at heart, the fascinating styling and extended sweet spot feature make it utterly original.	30x24(diam)	48	84				10
	Castle Chester		G+	A brilliant throwback, using horn-type approach to provide startling midrange dynamics and coherence.	94x23x27	45	87				ç
	Castle Durham 900		G.	Lovely veneer and lots of engineering create a very upfront, coherent and exciting sound — maybe too much so for budget systems	40X21.5X24	45	89				13
	Castle Howard		G+	Ably fills the price/size/sound gap between Chester and Winchester; a spacious semi-omni with a rich, laid back balance	104x23x35	25	87				13
	Castle Trent II		A.	Very classy finish for the price, plus a sound that passes muster without setting anything much alight	33.5x18x20	50	88				12
	Castle Winchester		G+	Unconventional and beautifully crafted, large for its bass extension but engagingly agile and attractively open and airy	114x24x47	25	87				9
	Castle York	349	BECOMES	Pretty little real wood compact has an engaging transparency, good balance and fine timing, could do with more authority	43x22x26	30	86			-	11
	Celestion 1	109	200000	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	27.5x16x21	50	87				1
	Celestion 3 MkII	130	10000000	Smooth and polished by budget speaker standards, if a bit laid back for some tastes	31x18.5x20	45	87				13
	Celestion CS135	139	AND DESCRIPTION OF THE PERSON	Compact hideway passive subwoofer lacks serious bass extension; for high sensitivity speakers only	52x19x34	45	88				12
	Celestion 15	389	12/20/20/20	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		90	Ė			1
	Celestion 9	269	200000000 2000000000000000000000000000		49.5x20.5x24	30	89	-			10
	Celestion SL12Si	629	100000	Nicely presented and fair material value, with impressively flat bass-to-mid balance  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	EUGE EUG		27x20x23		82				6
	Celestion SL6Si		12655	Has certain remarkable qualities that some will find irresistible, but needs careful system and room matching  This stargeture properties a sound a bit dull and congested but really energy up on State Audio stands: favours CD.		52 30					
		429	2020000	This stereotype luxury compact can sound a bit dull and congested, but really opens up on Slate Audio stands; favours CD	37.5x20x25		86		•		9
	Celestion 300	1099	5000000	Splendid bass extension and fine panel-like openness and transparency, but dynamics and timing are suspect, balance very laid back.	100x21x31	<20	86 86				11
	Dali 102	230	FEEDERS	Attractive bookshelf model has fine midband focus and bass extension, but treble's a bit restrained and bass a bit detached	37x21x25	30					11
	Dawn Chorus FS	698	100000	Compact floorstander with superb coherence but rather forward midband. Would suit smaller rooms best	91x26x21	30	86			•	1
	Dynaudio Contour 1.3	1199	1000000	Heavyweight luxury finish bookshelf model has good scale and weight but is pricey and a bit ponderous	38x20.5x29	28	86		•	-	12
	Epos ES11	395	500000	Integral baffle/driver to give a remarkable combination of low coloration, transparency and speed; bass is a bit shy	37.5x20x25	45	86		•		9
	Epos ES14	595	AND DESCRIPTION OF THE PERSON	Substantial stand mount delivers delightful midrange focus and delicacy with good bass control. System sensitive	49x22.5x29	25	85		•		9
	Faraday FS1	225	AND RESIDENCE OF	Concrete box on a budget, works surprisingly well despite cheap drivers, wood veneers here Direct sale only	47x27x28	45	86		•		11
	Faraday FS5	575		Pricey and ugly, but with its own sonic charm, thanks to substantial influence of the concrete enclosure has upon the sound	46x27x26	28	90		•		10
	Faraday Siren	375	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUM	Interesting if ugly high mass concrete cabinet is let down by imbalance of ageing driver combination	46x27x27	48	87				40
	GLL Maxim	119	NAME OF TAXABLE PARTY.	Budget miniature offers well balanced strengths and few weaknesses at a very realistic price; a bit feeble	26x17x20	30	85	٠			12
	Harbeth LS3/5A	539	2000000	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		•		6
	Harbeth HL-P3	479	252500000 0000000000	Very limited loudness but impressive full-range scale from uncoloured and very well balanced but time-smeared sub-miniature	31x19x17	23	82		•		11
8	Harman-Kardon LS 0200	150		Laid back to a fault but entertaining nonetheless, and a big box for the price	38x21x29	30	86		•		13
	Harman Kardon LS 0500	300	SHEEK	A mug's eyeful — huge box for the price with loadsabass but very little presence: unacceptably unbalanced, or high infidelity	105x21x25	22	91		•	٠	13
	eybrook Prima	130	200	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	٠			11
	Heybrook Quartet	555	20000000000000000000000000000000000000	Beautifully presented and built large bookshelf model with good sensitivity and a lively, forward sound	41x24x23	48	89	•			12
	Heybrook Sextet	1099	G+	Engagingly coherent and a highly analytical, partly due to distinct and t always comfortable upper-mid forwardness	96x27x20	25	85	٠		٠	10
	Heybrook Solo	189		Discreetly styled, sounds a little untidy in both bass and treble but handles complex rhythmic material much better than most	36x23x22	28	87	•			9
ŀ	Heybrook Trio	359		Same drivers as HBS1 in prettier real wood enclosure give a sweeter and more forgiving if less committed sound	47x24x25	45	89		•		11
1	mpulse H7	785	A	Ultra-compact horn has fine midband contrasts but very little bass and detached treble; gives amplifiers a hard time	87x15x30	45	85	٠		٠	13
1	nfinity 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		•	•	13

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## Loudspeakers continued



Product Infinity Modulus	<b>£Price</b> 795 <b>A</b> +	Comments  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	-		
			86x27x24	25	89			
Infinity Reference 30	400 <b>G</b>	Budget price floorstander has good overall balance and bass extension, but is rather coloured and uneven			5000000			-
Infinity Infinitesimal sub	499 A	Cute but pricey amplified subwoofer is too small to deliver real bottom octave grunt	34x34x34	40	NA	•		•
Jamo Cornet 40.3	130 <b>A</b>	Pretty presentation and a strong box, but poor driver fixing. Decent if bright sound	32x20x22	48	86			
Jamo 447	500 <b>A</b> -	Very prettily styled, but build and sound quality is disappointing for the price	81x19x29	40	89		•	•
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		•	•
JBL Control 1 Plus	250 A	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 L20J	800 <b>G+</b>	Lovely if pricey bookshelf model has that old JBL magic, full of bounce and brio, needs a good quality stand and can sound a bit heavy	44x26x28	30	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 A	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	90			
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 A-	Ultra cheap Richer Sounds special is lightweight and short of welly, but a snip for surround sound use	27x18x17	50	85			
JPW P1			44x25.9x26.1	10	89			
	155 A+	Honest and basically articulate if not very sophisticated, resolution is good but can sound a little wearing in bright systems  A let of highly competent loudenedger for the price, with a cafe cound that's uplikely to dispense.		60	87			-
JPW P1 Vinyl	135 A	A lot of highly competent loudspeaker for the price, with a safe sound that's unlikely to disappoint.  Nell beloaced and integrated effect fine count if limited been and disappoint repeat the proof at a party silly price.	43.5x25.5x26	32	1000000			
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	٠		
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		•	
JPW Ruby 1	500 <b>G</b>	Very pretty but pricey luxury metal-cone miniature has good, if slightly edgy balance	32x19x21	42	85	_	•	
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	٠		
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	٠		
KAR Volante	600 <b>G+</b>	Beautiful real wood floorstander doesn't sound as big as it looks, sound is coloured but lightning fast and great fun	88x21x27	40	88	•		•
KEF 104/2	1595 <b>G+</b>	A reference point for dynamics, preferred without KUBE, suited to many rooms. Good stereo, high sound level	90x28x41.5	50	92		•	•
KEF K120	169 A	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 Q50	500 A	Compact twin-driver floorstander with Uni-Q treble, and a rather midbass heavy overall balance	84x19x28	30	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 A		90x25x32	25	88		5215	
		Generous floorstander has even balance and decent extension but fails to communicate excitement and involvement effectively			ESENDAD			-
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	٠		
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	٠		
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	595 <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 A	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			33x27x27	28	83			-
	995 <b>G+</b>	Beautifully built, finished and shaped, has fine bass extension and virtual absence of 'boxiness'; needs a big amplifier  Peartiful high teab lights compact delivers extended expects and partial equal with fair peace. Since Audio stands exceptial		8-	85			
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	100 (00 00 00 00 00 00 00 00 00 00 00 00			
Meridian M30	950 A	Pricey active speaker, easy on the ears and worth considering especially where space is at a premium	38.5x18x32	40	NA			
Mission 760i	130 A+	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 733	300 A+	Stylish floorstander represents a lot of speaker for the money, and sounds pretty good too	86x20.5x31	45	87		•	٠
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	•		
Mission 752	500 <b>G+</b>	Brilliant style ans packaging, great engineering and build, plus a sound quality that can give the 753 a run for its money	90x20x25	45	89	•		٠
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 753	700 <b>G+</b>	Gorgeous presentation and potential for open transparency. Floorstander with lots of drivers that gives lots of loudness	90x22x30.5	45	88		•	•
Monitor Audio MA201	250 A+	Goodlooker with solid engineering sounds lively and coherent with plenty of power handling, but also a bit shut-in and coloured	40x22x26	40	89			
Monitor Audio MA202	450 <b>G</b> -	Uneven but informative and easy-listening floorstander delivers decent scale from big vinyl box	89.5x22x28	28	88		•	
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 MS10			30.5x18.5x21	50	86			
	130 A	Hi-tech baby has fine bass/mid integrity but the top end is less appealing  Prattily finished and incorporation program subverses in only really with out prinishers appealing	24x58x25	8	- E-W-2-172			
Mordaunt-Short SW-1	150 A-	Prettily finished and inexpensive passive subwoofer is only really useful with sub-miniature speakers		40	85	•		-
Mordaunt-Short MS20	180 <b>G</b>	Sober 'bookshelf' model uses hi-tech plastics to deliver a notably good midband at a very sharp price — a fine all round compromise	36.5x21.5x22	40	87			
Mordaunt-Short MS50	540 <b>G</b> -	Big value big box with fine engineering content and big lazy, laid back sound; lacks charisma	91x25x33	22	86		•	•
Morel Bassmaster 602	1200 <b>G+</b>	Superbly built compact stand-mount, did well in listening tests but suffers (enjoys?) upper midband peak	24.5x40x22.5	25	84		•	
Musical Technology Kestrel	250 A+	Cute little metal cone floorstander brims with clever ideas; sounds very clear and clean if cautious	80x2-20x19	40	84	٠		٠
NAD 801MM	100 <b>A-</b>	A rather undistinguished sub-miniature with low sensitivity and indifferent sound quality	27x18x18	48	84	•		
NAD 804	320 A+	Good value compact floorstander sounds lively and coherent, but quite coloured due to uneven balance too	75x20x26	25	89		5368	

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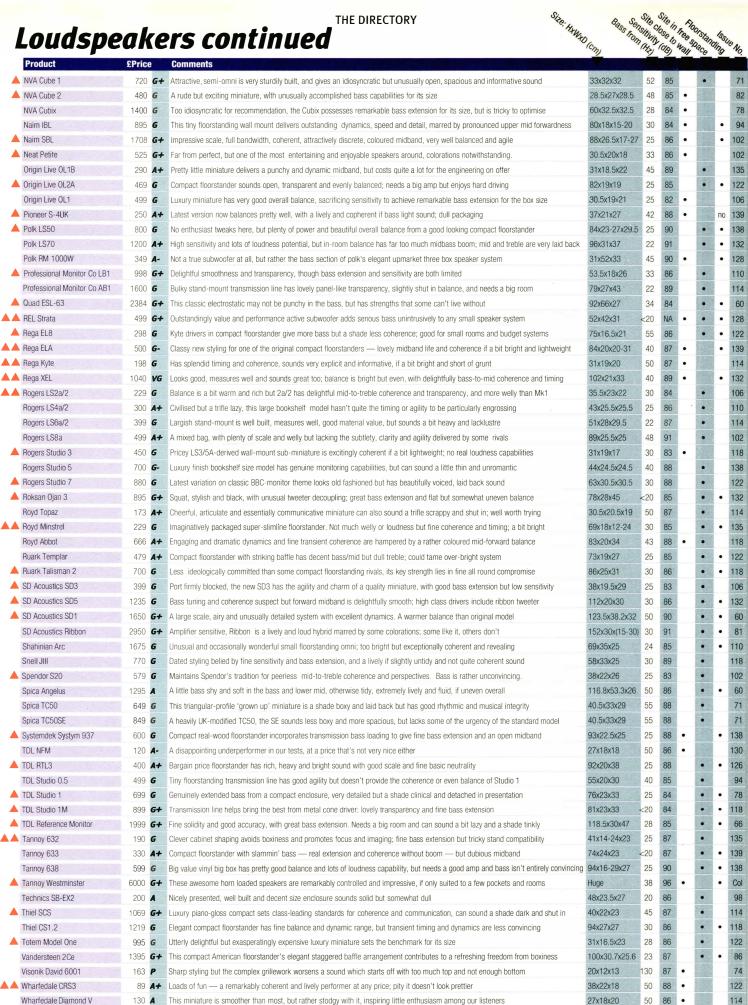
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# Hi-fi made cheap... Hi-fi made cheap...



A Best Buy

### **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

	uearer tri	e system the more complex they tend to good quality speakers separately will bring	records to play.			
Systems	5		Size: Haward (Crit)	Penote Co Watts	Oudspeak	Tuntable No
Product	£Price	Comments	ALL THE PARTY OF T	VV	No.	To Take
▲ 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 A	Separates flexibility and upgraeability in remote midi package; anodyne sound	69x35x37	50 <b>20</b>	•	• • 125
▲ JVC Adagio G7	799 A	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

Best Buy

## **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 preset memories.

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

<b>T</b>				Signal s	Manual to Manual	onatic to	6	
Tuners			Presets	m (n	My meter	uning to	Ining Issue	No
Product	£Price	Comments			S. Van			
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		•	•	•	93
Aiwa XT-950	150 A	Decent enough performance all round given the modest price, though RF tweaks have limited value	24			•	•	129
Arcam Delta 280	350 <b>G</b> +	Fine sound quality marred by mild synthesiser whine; RF performance only average, remote £60 extra	20	•	•	•	•	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			•	•	120
Aura TU-50	300 <b>G</b>	Tonally neutral, but with rather poor imaging and a certain woodenness to the sound.	16	•		•		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 A	The listening panel appreciated its liveliness, but found it a little muddled.	32	•	•	•	•	109
Harman Kardon TU9400	299 <b>G</b> 4	Striking in appearance and with a sound to match, it comfortably exceeded our expectations. On stereo FM it's HK's best yet.	24	•		•	•	93
Harman Kardon TU9600	499 <b>G</b>	Good bass and detail, and good - perhaps slightly enhanced dynamics	24	•	·	•	•	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		•	•	•	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		•	•	•	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> 4	Although expensive for its fairly minimum set of facilities, its excellent sound makes up for what it lacks elsewhere	0	• \	•	•		72
Marantz ST-53	170 A+	Sweet sound could well satisfy audiophile sensibilities, but selectivity is not great	59		•	•	•	129
Meridian 604	1350 <b>VG</b>	Unique digital conver or 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	0	•		•		50
Quad FM4	434 <b>G</b> 4	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> 4	<ul> <li>Very pretty and compact but technically unadventurous. Smooth sound but only makes sense in Quad system context</li> </ul>	19	•	•	•	•	120
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 A	Lots of features and fine RF discrimination for price. Sound is communicative but inconsistently tacky	30	•	• •	•	•	120
Teac T-X4030	120 A	Not exactly special, but still a well balanced, tolerable and capable allrounder at a very reasonable price	20	•	•	•	•	129
Yamaha TX-350L	130 A-	Enticingly pretty and compact presentation but performance isn't great; beware of aerial overload	40				•	129



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Arcam ALPHA 5	£449.99	£369.99
CASSETTE DEC	KS	
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Aiwa ADF 450	£119.99	£ <b>99.</b> 99
Sony TCK 415	£ <b>179</b> .99	£149.99
Sony TCWR 635S	£ <b>279</b> .99	£ <b>199</b> .99
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Marantz PM54SE	£ <b>399</b> .95	£ Phone
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	WAS	NOW
Marantz PM 700 surround sound	£ <b>449</b> .99	£299.99

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Celestion 1	£109.99	£ <b>79</b> .99
MINI/MICRO SY	STEMS	
	WAS	NOW
Aiwa LCX 07 MICRO	£299.99	£249.99
Kenwood UD 502 MIR	N£ <b>499.</b> 99	£449.99
JVC S30 MINI	£ <b>429</b> .99	£379.99
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	WAS	NOW
Aiwa XT003	£119.99	£ <b>79</b> .99
Sony STS 311 RDS	£ <b>199</b> .99	£ <b>159</b> .99



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## Turntables – cartrid

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.

Turntah	los.	- cartridges	Mass	0,		Mc Isse	Suc
			35(9)	Output	M	MC	-01
Product	£Price	Comments					
Arcam C77	10000	A sensible moving magnet package with good bounce at a competitive price	6-16	N	•		
Arcam C77Mg	40 A	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 A	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		•	2 60000
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		•	R North
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		•	R December
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		•	A STREET
Denon DL304	200 <b>VG</b>	Uncolored, detailed, neutral, superb tracking; top notch altogether, and a top notch bargain too.	4-12	L		•	1
Dynavector 17D2	450 <b>VG</b>	Clear, detailed, neutral and generally very informative - excellent .	6-18	L		•	ALCOHOLD STATE
Dynavector XX-1	988 <b>G+</b>	Good, but not immensely competitive at the price, and not helped by comparison with the low output version	7-15	N		•	Shorometry
Dynavector XX-1L	988 <b>VG</b>	Very clear, very detailed, no troubles with tracking; response lift around 20kHz seems to do no harm	7-13	L		•	SOUGHOUSE
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		•	Appropriate de
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		•	Common of Co.
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			Description of the
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			Demonstrate to
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			Constant of
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			SERVICE STATE
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			and American
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			Separate Separate
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	-		and the same
ACCOUNT OF THE PARTY OF THE PAR	100 <b>G</b>		8-14	L	-		Description of Spinson
Goldring Eroica LX		Not the most subtle cartridge in the world; can sound edgy at times, but lively and informative	6-13	L	-		-
Goldring Excel	549 <b>G</b>	Errs on the warm and heavy side of neutral. Strong bass lines are its forte, but resolution of subtle treble details is weak					Section Section
Goldring Excel GS	600 <b>G+</b>	True high end quality in its lack of colorations, but tracking seems indifferent and high levels tend to sound rough and edgy.	9-20	L		-	and a second
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	199 A+		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	•		month strategic
Milltek Aurora		An overall feeling of relaxed ease characterised this clear and atmospheric Kiseki-built cartridge	8-16	N		•	-
Ortofon 510	32 <b>G+</b>	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	85 <b>G+</b>	Very clean and assured sound; transients not quite perfectly pure but plenty of detail.	4-11	N	•		0.20700000
Ortofon 540	110 A	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	110 <b>G+</b>	A good all-rounder, with outstanding performance in detail retrieval, even if it can be very slightly bright and close-up	10-24	L		•	COMMONDE
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 <b>E</b>	Low levels of body resonance are a real ear-opener. Nothing to criticise elsewhere; one of the very best	9-16	VL		•	THE REAL PROPERTY.
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	34 <b>A+</b>	Difficult to mount in some arms due to its shallow build, the bias offers a gentile, refined SQ	4-10	N	•		NAME AND ADDRESS OF THE PARTY O
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	•		Constant of the
Roksan Corus Black	130 <b>G</b>	Recognisably related to Corus Blue, but distinctly more civilised and smoother.	7-12	N	•		Constitution
Roksan Corus Blue	75 <b>G</b>	Roksan-specified modified Goldring 1012; slight harshness detracts from otherwise good sound.	7-12	N	•		COMPANIES.
Shure ME97HE	55 A+	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			1

## Turntables - cartridaes continued

			THE DIRECTORY	Arm er.					11 12 19
Turntabl	es	; -	- cartridges continued	Arm effective me	Pss (4)	Outpur	M	Mo	SSUE NO
Product	£Price		Comments					Ü	
van den Hul Grasshopper IIIGLA	3200	E	Undoubtedly one of the finest cartridges available, it has tremendous bandwidth, energy and finesse		6-10	L		•	122
▲ van den Hul MC One	975	G+	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	1100	G+	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
▲ van den Hul MC Two	1300	G+	Connected directly to any standard MM input it rewards with a highly detailed yet fluid and musically convincing portray	al	6-13	N		•	72
▲ van den Hul MC10	775	G+	A neutral balanced performer giving transparent midrange, fine depth and focus with firm extended bass. Gosh!		5-10	L		•	60
▲ van den Hul MM1	275	G+	If woody midrange coloration could be tamed, the excellent imaging and admirable security would make it excellent		7-15	L		•	103

▲ Best Buy

## **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

			App Skee							
Turntabl	es	5	Arn Suggestion of the Chiefing In	Red SUbc. Pass (9)	hassis	Auton	natic Cart	Electron Belt art	Onic PS	Issue No.
Product	£Price	2000000								
Alphason Sonata/HR100S MCS	1785	100000	Good sound in all areas - bass, clarity and neutrality all in the top class and bettered by very few decks at price	13	•	•			• •	, 0
▲ Dual CS-503-2	160	2000	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	2388620	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	•	•			,	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	•	•			•	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	•	•				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	•	•				67
▲ Pink Triangle Anniversary	1495	E	Possibly the most detailed, clear and neutral deck around. Likeness to master tape is uncanny	NA	•	•				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	•	•				91
A 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		•				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
SME Model 20A	3763	E	Supplied with Series V arm. Engineered to last a lifetime, giving excellent stereo and detail retrieval.	10.5	•	•				118
▲ 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	1800	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	ns			Effective nass (g)	ils <sub>tr</sub>	Parallel trace	tino lssue No
				3' <u>(9)</u>	Tent	ofen .	ing No.
Product	£Price		Comments				
Alphason HR100S	490	VG	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	•	• 7:	67
Moth arm	95	G+	The ultimate budget arm? Refined, detailed, sweet and natural	12		•	60
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





Name	Town	Tel No.	Name	Town	Tel No.	Name	Town	Tel No.
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Practical Hi-Fi	Blackpool	0253 300599	Zen Audio	Hull	0482 587397	Practical Hi-Fi	Preston	0772 883958
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Hi-Fi Corner	Dublin 2	010 353 1 6714343	Son et Lumiere	London	071 5809059	Bartletts Hi-Fi	Woking	0483 771175
Richer Sounds	Dublin 2	010 353 1 6719666	Sound Sense	London	071 4022100	Sevenoaks Hi-Fi	Worcester	0905 612929
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# Personal messages

#### Never mind the Teasmaid, what your bedroom really needs is a Bose. Paul's morning routine will never be the same again...

ose has managed something of a coup: launching two new products sufficiently intriguing to get columns from Barry Fox and myself in the same issue of Choice. By mutual agreement Barry is covering the Auditioner acoustic simulator on his page (31, folio fans), while I get to play with a cute little toy called the Wave radio. All I'll say about the Auditioner is that I've challenged Bose to submit it for a live versus simulated comparison sometime, but the "we'll see what we can do" response didn't seem to carry much conviction.

Still, the new Wave radio is much more fun in its way. It's the latest of the company's 'lifestyle' products, which means first that it doesn't fit neatly into any normal product category, and second that only those rich enough to have a lifestyle will be able to afford one (or two, or three).

At heart it's a clock-radio, so at £350 it needs to be the definitive example of the breed. But you can't check it out down at your local hi-fi or electronics store, since Bose won't be marketing it that way. It's a Freephone or coupon, 14-day home trial, no obligation etc operation - the number, to save you scouring issues of Choice for ads, is (0800) 614293. However, having heard the Wave at home, I reckon that most people will send in the cheque rather than return the radio.

The Wave is a little larger than the typical Morphy Richards, but is still ridiculously small considering what comes out. The sound, in short, makes

a passable imitation of a hi-fi system, or at any rate the general perception of a hi-fi system - so much so that several visitors refused to believe all the sound was coming from just this one little plastic box. One cynic observed that if that was bass he'd far rather do without it, but the majority just smiled in perplexed amazement.

too, with full remote control handled by an exquisite little handset the size of a credit card. Handy touches include an automatic dimmer on the display, so that it doesn't glare in the night, and battery backup for clock and alarm (but not display), so you wake up in spite of power cuts and can move it from room to room without having to reset. It also has stereo line-in and line-out sockets, adding great flexibility - just plug in a CD personal; feed it with a tape-outlead

delivering an energetic and well defined resonance.

It's also a pretty hefty device, its 3.2kg allowing for amplification muscular

> enough to deliver a heavily equalised signal to boost the bass output of the little speakers. The net result is a combination that delivers a reasonably flat in-room balance as low as 75Hz-not quiteamatch for the 50Hza typical pair of miniature hi-fi speakers can manage, but awesome for a clock radio. In short, it sounds remarkably big and beefy, though not very smooth.



Sadly there's also the small matter of the built-in automatic loudness compensation, which adds extra bass boost when the volume is turned down. It's a similar trick to the one that spoiled Bose's active Acoustimass speaker system for me, but somehow it's more acceptable - perhaps because I'm not approaching the Wave radio with the same expectations. Some compensation is probably beneficial here, but in my opinion Bose's decision to apply around 6dB of sub-120Hz boost for every 10dB drop in signal level is rather excessive. This works well enough at normal levels, but intelligibility tends to get swamped by background like traffic and wind noises when listening to an interview at very, very low levels, for example.

Still, the FM radio does a decent enough job, and the AM section is a real honey, even if it does only cover the medium and not the long wave band. I looked on in an amazement as radio guru Norman McLeod pulled in Irish, Dutch and Scottish AM transmitters  $after sunset and with considerable\, ease$ and clarity, using just the supplied ferrite loop aerial – far, far better than typical hi-fi tuners, and just the ticket for Radio Five Live fans.

There are a few niggles, nonetheless. The clock gained three minutes in the first week, which is irritating, and the display is absolutely determined to be a clock rather than a radio, refusing to display the frequency for more than a few seconds before reverting to time. It's a little too magnetic to sit on top of a TV, and you have to aim the handset quite precisely to elicit a response too.

On the other hand, basic ergonomics are superbly intuitive, and the product itself is great fun to have around. It's small enough to make a micro system seem bulky, yet is altogether neater and probably as good sonically. Only hi-fi purists are likely to be offended by the psycho-acoustic game it plays. I'd love to have three or four Waves to scatter around the house, but sadly my income isn't too likely to reach the lifestyle bracket for the foreseeable future...

It's a very neat ergonomic package

from the hi-fi in the next room; connect up the bedroom VCR, etc and so forth. So how come it sounds more like a hi-fi than a clock radio? Well, each side of the central display sits a small, full range Bose driver with a 60mm cone. Behind the left hand one lies a tapeworm of a precision moulded column, which zigs and zags for 86cm before appearing as a port just beside the right hand driver. Bose calls this a waveguide, though a folded tuned column is perhaps more precise for something which acts a little like an organ pipe,

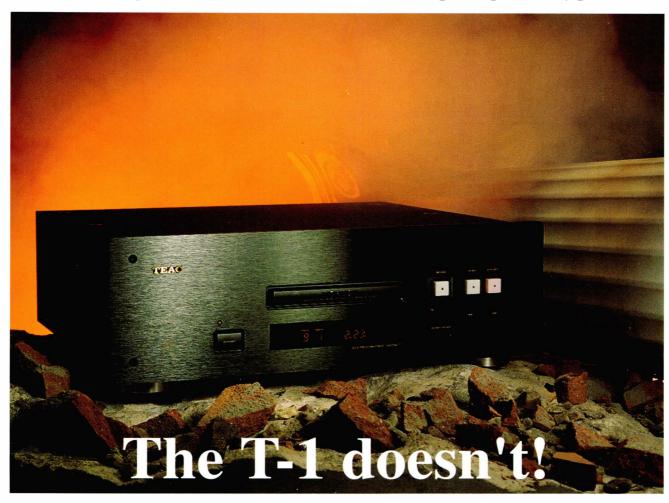
behind the Wave radio's deeply impressive bass.

No, not a hog's

intestines, but

the secret

## **POMPEII ROCKS**



Even in the shaky surroundings of old Pompeii the New TEAC T-1 CD Transport would still have delivered the goods.

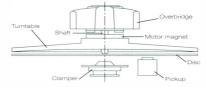
The T-1 places the acclaimed vibrationfree VRDS mechanism within reach of those looking for the cost effective path to CD upgrades.

What sets the VRDS mechanism apart from standard CD players is its ability to reduce the vibration induced in the spinning disc.

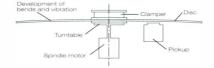
As the diagram on the right shows, a normal CD transport of the type used in budget and high end players alike, only clamps the CD at its centre.

As the disc itself is rotating at high speed it oscillates and vibrates making it difficult for the the pickup lens to track the minute pits on the CD surface with the necessary accuracy.

#### VRDS Mechanism



#### Standard CD Mechanism



Much of the information available may be read incorrectly or in a corrupt form, contributing greatly to distortion within the signal that is fed to the DAC.

The VRDS mechanism significantly reduces this effect by clamping the whole width of the disc thus reducing the vibration that causes jitter.

This all adds up to a Transport that does the job of retrieving information better than any other comparable drive on the market, providing your DAC with the most accurate signal possible.

Because the T-1 does give you one of the best mechanisms in the world, you can buy in confidence knowing that you have the perfect source for any DAC upgrade, now or in the future.

If it was available to the ancient Romans they would probably still be using it now - in spite of earthquakes!

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