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CRIPTIONS - SEE PAGE 36 FOR DETAILS

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REVIEW REPRINTS

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Editor's Notebook



Confused about new formats? We'll tell you what and what not to buy. But, as **Stan Vincent** reveals, there's life in the old CD yet...

ot yet familiar with the initials DVD? You will be. By the turn of the Millennium, this acronym, which stands for Digital Versatile Disc, will be as common as others like BBC, ITV - and CD. If you really haven't heard of DVD, read about it on page 28. Ultimately there will be two DVD formats of interest to our readers: audio and video. The DVD audio standard (DVD-A) is on the brink of finalisation, but DVD video players (DVD-V) are on the market already, and all will play ordinary CDs as well as the new DVD video discs. In our test on page 46, we find out whether potential CD player purchasers would be better off with a DVD player. The results make interesting reading.

But that test only scratches the surface of an ever-growing mass of questions about the future shape of digital music storage and replay. Because coming very quickly over the horizon is a new paradigm for music storage promising higher sound quality and multi-channel music. I refer you again to Alvin Gold's feature on page 28 for details of this coming revolution, but also to Jason Kennedy's column (p16), where he investigates a system called DTS, which claims to be a high-quality surround sound system that's also good for music.

But can good sound from all angles beat the simple beauty of top-quality sound from just two speakers? Trading on the latter premise is the consortium of high-end hardware makers and the US audiophile record label Classic Records, who are set to be the new Flat Earthers of the digital age. Their Digital Audio Disc (DAD) has jumped the gun on DVD audio, by making use of DVD video's data storage capabilities. It offers still images to accompany the music — though we've also seen a Japanese Pioneer DVD-V with full 24-bit, 96kHz sound and full-motion video, featuring Placido Domingo. Impressive stuff indeed.

Dawn of DVD audio

However, at the 104th AES convention in Amsterdam, mid May, we caught tantalising glimpses of the nascent DVD audio standard which looks likely to offer three front channels of super-quality audio and two separate rear channels of CD-quality

audio. The only sticking point is running time, currently around the 65 minute mark. Sources indicate they'll squeeze 74 minutes of playback onto DVD-A by using some proprietary form of lossless compression.

Having undertaken our 'DVD for CD' test in this issue, next month our focus will shift to higher sampling rates and greater digital resolution. We'll be making our own recording using professional equipment loaned from dCS of Cambridge, then replaying it both at standard CD resolution and at higher quality to make an accurate and objective judgement of the difference.

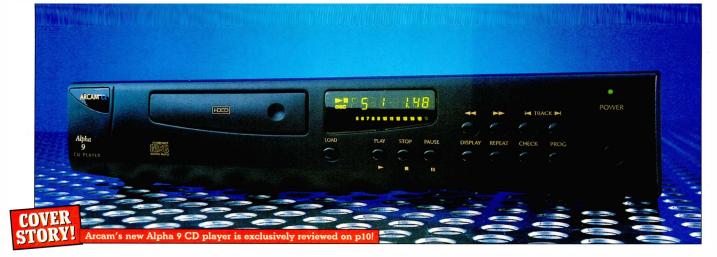
But you'll find dCS in this issue as well, since the company is an important part of the story behind Arcam's Alpha 9 CD player, which is our world exclusive review candidate on page 10. Players like this, you will discover, make a very strong case for the CD format as it stands. Can a new music format really sound better? (More Arcam in David Vivian's column, p138.)

Jimmy Hughes also puts the case for CD on page 21, with a specially remastered Tina Turner disc that sounds terrific. And I still remember an interview with the proprietor of a US record label, who reckoned it was only sloppy mastering and manufacturing which held back CD from its true potential. As chance would have it, our Technical Editor, Paul Miller, is currently investigating evidence from a reader that CD signals are not recorded to their fullest extent on numerous commercially-produced discs. This month, however, he discovers an interesting anomaly in 'backwards compatibility' of the latest MiniDisc (MD) recorders. Are the latest recorders totally compliant with discs of two-to-three years' vintage? Find out on page 22.

This month's competitions

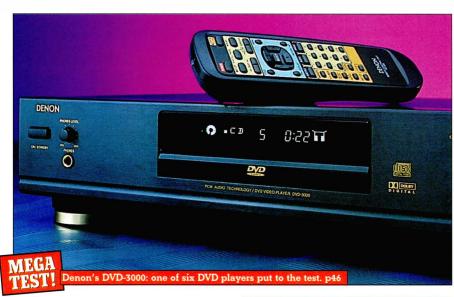
Please accept my apologies for the fact that we were unable to offer £3,000 worth of prizes this month, as advertised on the front cover. This was due to a last-minute administrative problem which occurred after the cover had been sent to press. However, we still have over £2,200 worth of kit to give away, including a set of Arcam pre/power amps and 23 pairs of superb Sennheiser headphones.

Enjoy your listening this month...



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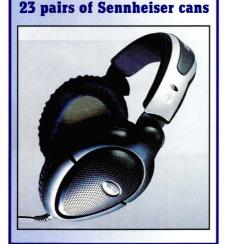
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WIN! WIN! WIN!



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WIN! WIN! WIN!

Arcam Alpha 10/10P and interconnects worth £1,400!



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Arcam Alpha 10137
Arcam Alpha 10P137
Celestion A281
Cerwin Vega E31556
Chario Academy 283
Clearaudio Sigma25
Denon DN-M2000R
Denon DVD-3000
Dynaudio Contour 3.045
Heybrook Octet84
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JM Lab Spectral 909.177
Linn Classik
Living Voice Auditorium 85
Magnat Vintage 720
Magnum Dynalab FT101A40
Magnum Dynalab FT-R40
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Millennium 2.4.6
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Mordaunt-Short MS20i Pearl 14
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Vestax AA-8856
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HI-FI CHOICE

UPDATE

da

THIS MONTH... B&W'S NEW HIGH END SPEAKERS... FRESH MISSION RANGE...HIGH TECH NEW TECHNICS.....

In brief

NAD's new 319 tops its amplifier range at a price of £499.95. With 125 Watts of remote-controllable power on tap, it has defeatable tone controls, relay switching and may be bridged to give a claimed 400 Watts into eight Ohms. 2 (01296) 482017



Jamo has revised its Cornet range of loudspeakers, introducing four new models priced at £110 (Cornet 145), £165 (165), £230 (175) and £350 (195), all featuring black ash, mahogany or cherry finishes. Cornet characteristics include low-diffraction curved cabinet edges, a new 25mm fabric-dome tweeter and 22m-thick High Density Fibreboard (HDF) cabinets. **2** (01327) 301300

A slight error in last month's story on the new GLL 300 Series loudspeakers: its cabinets are made from Medium Density Fibreboard (MDF) not chipboard. 2 (01705) 470875

Sound Image UK has been appointed UK distributor for Tara Labs cables. Ranging in price from the £1.50/ft Klara to the £2.500/four-foot "The One". the whole cable range is now available. 2 (0181) 255 6868

Nautilus rebo

B&W Loudspeakers has dramatically repositioned its prestigious 800 Series loudspeakers, by incorporating technology developed for the range-topping £35,000 Nautilus design. The new Nautilus 800 range replaces the entire

Matrix series, including the classic studio-monitor, the 801, which has been supplanted by the substantial new £8,500 Nautilus 801.

The brief for the new range was to make Nautilus sound quality available at a more accessible price-point. The most obvious element from B&W's high-end 'mollusc' is the tweeter module, which uses a 25mm metal dome backed by a tapered tube, which disperses rearward sound radiation and acts as a heat-sink.

The most distinctive feature of both the Nautilus 801 and 802 is a bulbous midrange pod, which is moulded in Marlan (a mineral-filled resin), and utilises a woven Kevlar drive-unit which has been designed to work without a conventional rubber surround.

The horseshoe-section main cabinet is common to the entire range and incorporates B&W's Matrix system of bracing and sound-wave reflection control. For the N801 and N802 there is a cast-alloy plinth housing a three-board dividing network, addressed by topnotch WBT terminals. Reflex-load-

ing is performed by a downwardfiring gas-flowed port equipped with the golf-ball-style dimpling seen already in B&W's ASW1000 active subwoofer. From the bottom up, the Nautilus

800 series comprises the N805 stand mount at £1,700 (dedicated stand £400), then the N804 and N803 three-way floorstanders at £2,500 and £3,500 respectively. The £6,000 N802 includes twin custom-designed 200mm bass units, permitting a slimmer profile than required to accommodate the single 380mm bass unit seen in the £8,500 801.

The speakers will become available during August and September. B&W 2 (01903) 750750 ● www.bwspeakers.com



Nautilus 801: technological tour de force

Adios Audiolab!

Having revealed TAG Electronics' plans for the imminent F3 range from Audiolab in issue 178, HFC can now disclose that the new electronics will dispense with the Audiolab name altogether.

After much consideration TAG Electronics boss Dr Udo Zucker has decided to re-brand the Huntingdon-based company's products right from the start, rather than save the TAG brand for more expensive ranges due in future.

On the latter count, details are emerging: TAG's forthcoming F2 range will be priced at around £2,000 per piece, with a provisional launch date of September next year; while the F1 range, to follow a year later, will be positioned to compete with the most prestigious names in high-end hi-fi anywhere in the world.

The TAG F3 range will hit the market this September and replaces the Audiolab 8000 Series at a premium of approximately £200 over that range — putting the average component price close to the £1,000 mark.

Zucker claims to have a seven-year plan for his hi-fi brand's evolution: the goal is a complete audio and video range including speakers, cables and stands.

In the meantime Audiolab has set-up a Helpdesk and Freephone Helpline for customer enquiries. Lines will be open between 8.30am and 6.00pm, Monday to Friday on **2** (0800) 783 8007.

Richer Sounds is bringing in the Aura range of loudspeakers from the US. Ranging in price from £149.95 to £549.95, they include bookshelf and floorstanding models, as well as a centre speaker and an active subwoofer for home cinema applications.

The Auras feature a line-source tweeter, previously seen in designs from Linaeum and Genexxa, and now patented by Aura. This combines an unusual etched voice coil (EVC) with a controlled-flexibility diaphragm (CFD), which, Aura claims, "produces highly accurate and natural high frequencies."

Richer Sounds 2 (0171) 940 2240



Aura: American speakers at Richer prices

Mission's spirit of 77

Mission continues its deluge of new speakers with the 77 series. According to the company, it's been designed to appeal to the "traditional Mission customer" rather than listeners with "more modern musical tastes" who might opt for the complementary 700 series (Update, HFC 178).

The 77 series comprises four L-R stereo enclosures and a centre-channel dialogue speaker, and will be built at Mission's Huntingdon base in a range of three real-wood veneers with leatherette facias.

Cabinet construction is enhanced by a 38mm-thick contoured front baffle with radiused edges, and extensive internal routing to help disperse internal reflections. The mid/bass drive units are fashioned from Aerogel, a laminate of carbon fibre and foam that's said to be stiff, light and self damping. The fabric/polymer dome tweeter is built into a cunningly-designed mounting plate that features leaf-spring-style decoupling. A chrome phase plug and curved mounting ring complete the picture.

The 771 (£169.90) and 772 (£229.90) are standmounts with internal volumes of 6.5 and 11 litres respectively, while the 773 is a two-way floor-standing design, 85cm tall, which costs £349.90. The floorstanding 774 tops the range at £499.90 and uses twin bass drivers in a 92cm high cabinet.

Mission

(01480) 451777

www.mission-cyrus.com



Still life with Mission 77 series.

VRDS to the masses

Teac's new VRDS-8 CD player is the first to employ its latest CMK-4.5 mechanism, featuring the Vibration-free Rigid Disc-clamping System whose acronym forms part of the £599.95 player's name.
The remote-controlled VRDS-8 is a full-width, slim-line

model featuring a centre-mounted CD loader, two optical output (one front-mounted) and one electrical digital output, switchable eight-times oversampling filter and sampling point, all concealed behind a 10mm aluminium front panel.

And in a busy month for Teac, another newbie is the £179.95 V-1050 cassette deck, a three-head design with a hard permalloy record/playback head, Dolby B, C and HX Pro, fine bias tuning, optional timer-controlled record and playback, plus an optional remote control. TEAC ☎ (01923) 819630



Sharp's dubwise deck

Sharp's new MD-R3H (£349.99) is a MiniDisc (MD) recorder with a difference: it includes a three-drawer CD changer in the same box! The manufacture of compilation MDs is thus a user-friendly process, claims Sharp. An 'intro scan record' function provides a 10-second preview of each track, permitting users to mark those desired for recording.

The MD-R3H is said to boast the full complement of MD editing facilities, together with a three-frequency sample-rate converter (32, 44.1 and 48kHz).

Other convenience functions include a 24-key remote control, clock-timer-controlled recording, monaural recording, and variable analogue signal input level. There are

digital in and outputs, plus line inputs and outputs. Sharp 2 (0800) 262 958



AVI's Nu benchmark

AVI's NuNeutron — or New Neutron to the grammatically pedantic — is a five-litre, rear-ported stand-mount loudspeaker, in which the company claims to have virtually eliminated phase anomalies in the crossover — a major source of discomfort to listeners, according to AVI.

The new speaker, priced from £499, is intended to fill the gaping void left by the demise of the original Neutron, and to have applications in both domestic and professional reproduction applications alike.

A five-inch, doped-paper-cone Vifa mid-bass drive unit employs a 'curvilinear' diaphragm; while the Scanspeak tweeter is a hand-made, 28mm-diameter fabric-diaphragm device with viscous damping.

The crossover has a second-order Linkwitz-Riley characteristic and deploys 'massive' ferrite inductors, polystyrene capacitors and two-ounce copper PCB. It is not bi-wirable.

The rated sensitivity is 86dB/W/m, while rated power handling is 150 Watts maximum. At the quoted price Black Ash or Cherry real-wood veneers may be selected; for £749 there is an ebony option.

AVI 2 (01453) 752777



Musical Technology has launched its M-Tech professional speaker range onto the consumer market. There are four models with prices ranging from £450 for the PM15 twoway monitor, to £800 for the PM30, a larger, more powerful two-way. The remaining models are the £750 PMS70 subwoofer

and 2U rack mount monitor, which is priced according to spec. 🕿 (01656)842000

Top Audio's Czech Republic

exhibition will take place between November 5 and 7 in the Hotel Panorama, Prague. 2 +42 (602) 374 222



Lilac: one for the ladie

SonicLink is keen to let you know about its new Lilac interconnect cable. Priced at £65 for a terminated metre pair, Lilac uses nickel-plated copper conductors in silicone rubber insulation, and has phono plugs "in a matching marble finish". @ (01332) 361390

DPA Digital Ltd has moved to 81 Dobbins Road, Barry, South Glamorgan, CF63 2NP. **2** (01446) 747288

The Heimkino trade fair, dedicated to home cinema equipment, will take place between October 30 and November 1 in Messe Sinsheim, Germany, Among more than 70 other exhibitors will be Linn, Acurus, Mark Levinson, Proceed and Copland. 2 +49 (7261) 689 127

South Coast Speakers Ltd now has **UK** distribution for Visaton loudspeaker drive units, produced in Germany. Visaton, a sustaining member of the AES, claims over 25 years experience this field and a sevensquare-metre anechoic chamber. 2 (01703) 559312



Martin Logan re:Quest he name in electrostatics





MARTIN LOGAN electrostatic/moving coil hybrid loudspeakers successfully combine the 'slam' of moving coil bass with the transparency and precise detail of an electrostatic 🌤 Martin Logan Ltd—the electrostatic loudspeaker technology company—offers a range that incorporates the classic CLS IIz full-range, full-height electrostatic, the flagship hybrids re:Quest and Monolith and the massively popular SL3 and Aerius i hybrids The Aerius i is the culmination of a decade of advances in hybrid loudspeaker technology. Compact enough for the smaller room, this revealing speaker sacrifices nothing in performance. Recent cosmetic and electronic changes including a new woofer and crossover topology has created a speaker that has been awarded the accolade 'Best Loudspeaker Value' in the prestigious AAHEA Awards for 1996 🌤 Reviewers' opinions of Martin Logan products are remarkably positive—(What Hi-Fi? June 1996): 'It's the natural sound of every instrument that makes this speaker so appealing.' 🌤 Alvin Gold (Hi-Fi Choice January 1996) also wrote of the SL3: 'more capable of assuming the persona of the music than almost any box speaker you care to name'. • Ken Kessler (Hi-Fi News August 1995) found the SL3 to be: 'one of the sweetest, smoothest mid-price electrostatic hybrids I've ever heard regardless of maker.' He continued: 'The SL3 can produce images that don't impress: they convince.' & Contact Absolute Sounds for a dealer list where you can audition these remarkable loudspeakers 🍽 And now Martin Logan Home Cinema speakers 🝽 Stylos surround speakers are in/on wall full-range electrostatic dipoles that can be painted to match any room; the Logos is a centrechannel wide dispersion electrostatic/dynamic tweeter hybrid : Martin Logan—the name in electrostatics



Absolute Sounds 58 Durham Road London SW20 0DE Tel 0181-947 5047 Fax 0181-8797962

73064.1710@compuserve.com **Email**

* Technics looks to the future



e: SU-C3000 preamp claims 120 dB S/N ratio

Technics is preparing for new music disc formats' high sampling frequencies and large binary word lengths with a new two-box 'variable gain control amplifier', the SU-C3000. This has been designed to be so electronically quiet that it will truly showcase the superior performance promised by DVD Audio discs mastered with 24-bit words and 192kHz sampling.

Technics engineers claim to have achieved a 120dB signal to noise ratio (S/N), using a feedback circuit to control the top part of gain between 0 and 20dB; and a volume control after the amplifier to attenuate from OdB to minus infinity. A conventional amp can manage only 106dB S/N due to limitations in its volume control, Technics claims.

The SU-C3000 is due at the end of this year and will be complemented by the SE-A3000 power amp. The price for the combination is estimated at around £2,000.

Also at Technics' recent European Editor's Seminar, in a low-key but significant presentation, executives from

Warner Music Group and Technics' parent company (Matsushita Electric Industrial Co) suggested that DVD Audio hardware could be a commercial reality by Spring 1999, and that DVD Audio discs will play on existing Red Book CD players, solving a crucial backwards compatibility issue, though as yet with unconfirmed implications for retail cost. Speakers suggested that there will be ultimately three genres of DVD players: video, audio and universal, the latter equipped for both types of disc.

More prosaic new products from Technics include three new CD players, all featuring MASH one-bit DACS. The £89.95 SL-PG390 is the entry-level model, the £99.95 SL-PG490 is remote controllable and has a headphone output, while the £119.95 SL-PG590 also boasts the Technics Hybrid Construction Base (THCB) to reduce structure-borne vibration.

Technics 2 (0990) 357357



Verdier's heavy requiem

Thanks to the ministrations of GT Audio, the mighty Platine Verdier turntable has finally reached British shores, even though its maker, Frenchman JC Verdier, has been constructing this high-mass record player for over twenty years.

The Platine Verdier uses a 16kg solid stainless-steel platter with a magnetic support system. The plinth pneumatically decouples the turntable from its support, and the deck has two arm-boards as standard. The separate motor unit drives the platter via a belt or thread drive. This heavy deck carries an equally substantial price-tag: £3,850.

The importer has commissioned SME of Stevning to produce a special version of its 12-inch 3012R tonearm, specifically for the Platine Verdier, at a cost of £798.

GT Audio 2 (01895) 833099



Brooklands'

Sony's Brooklands UK Sound Project, which since 1992 has developed UK-tweaked versions of Sony hi-fi separates components, has announced seven new 'Brooklands' models. These include two new CD players (the CDP-XB920E and the CDP-XB720E); a new amplifier (TAF-B920); a cassette deck (TCK-B820); a tuner (STS-B920S); an AV receiver (STRD-B925); and a MiniDisc player (MDS-JB920). Prices range from £179.99 to £599.99.

Sony claims to have taken many hours of listening and fine-tuning to refine the sound of these components, which also benefit from slanted circuit boards and heavier chassis to resist vibration interference.

To complement its presence in audiophile hi-fi, Sony has also announced the UK's first 'ES' centre, owned and operated by award-winning dealership Musical Images. Based in Covent Garden, it demonstrates the full Sony ES range. Sony UK **☎** (0990) 111 999 **●** Musical Images **☎** (0171) 497 1346

In brief

Harman/Kardon has a new Signature range of AV amplification. Top of the range is the £1,750 Signature 2.0 processor/tuner, a Dolby Digital six channel decoder and RDS tuner with RS232 socketry and onscreen menus. The Signature 2.1 is a five channel, 100 Watt power amp, while the Signature 1.5 is an "audiophile class" stereo power amp with 200 Watts a side. Both amps cost £1,250. 2 (01908) 317707

STOP PRESS: Dealer Design Audio Classics of Glasgow claims to be the "first and only" dealership in the country to have a Signature 2.1 and 2.0 fivechannel amp on demonstration.

Sovtek has designed a new series of vacuum tubes. claimed to be the "finest 6550s ever produced". The 6650WD and 6550WE have thicker plates, improved heat dissipation, higher transconductance and increased linearity. 2 +1 (212) 529 0466

Wharfedale is celebrating its Diamond speaker's 16th birthday with the Anniversary Diamond, based on the latest Diamond 7.2 model and priced at £199.95. It comes in realwood veneer and has been reengineered for bi-wirability. The midbass cone features the company's homopolymer sandwich construction while the tweeter is a 25mm silk dome. **2** (01480) 447 700



Special packs of Scotch Video Head Cleaner Plus (priced £12.99) contain free Video Label Strips (worth £1.99) and a 30p money-off coupon for subsequent purchases.

ProAc's enhanced Response

The Response 3.5 is dead. Long live the Response 3.8! The new ProAc speaker from Celef Audio undercuts its forbear by £260 at a price of £3,990.

The Response 3.8 is a 49-inch-tall floorstander with "critically-calculated cabinet proportions", according to ProAc, plus twin reflex ports and a three-way driver configuration. The latter includes twin seven-inch, carbon-fibre-coned woofers, of which one rolls off early leaving the other to cover upper bass and midband.

A new air-cooled, one-inch soft-dome tweeter, with a

unique frontplate and copper ring, is mounted offset from the centre line in ProAc house style. "Treble sweetness and clarity akin to that of an electrostatic," promises the maker.

With a nominal impedance of eight Ohms, the enclosure has a rated sensitivity of 88dB/W/m, and a quoted maximum power handling of 250 Watts. The crossover is split for biamping and bi-wiring.

Available real-woodveneer finishes at the quoted price are black ash, mahogany, walnut, natural oak and cherry; rosewood and yew command a premium of £400, while bird's-eye maple and ebony cost £800 over the base price. Burr oak will be an option in future.

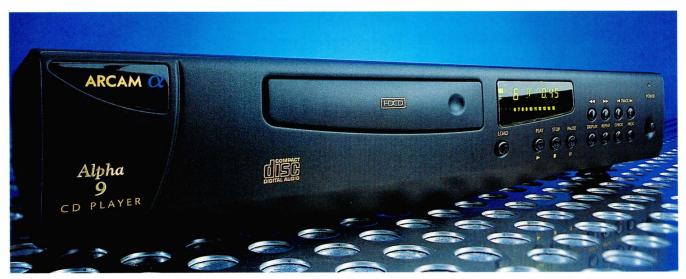
Separate spike plinths support the Response 3.8's 170lb weight.

DNA Marketing 2 (01798) 343414



LORD OF THE RING

Another World Exclusive from Hi-Fi Choice! Arcam's brand-new Alpha 9 CD player contains 24-bit digital circuits and a special 'Ring DAC', sets new standards for high-end CD replay, and does it all at the affordable price of £799. **Paul Miller** reckons it'll be a hard act for other CD players to follow...



t the end of 1991, John Dawson, Managing Director of Arcam, was attending an Institution of Electronic Engineers conference. Papers were being presented on Analogue to Digital Converter (ADC) and Digital to Analogue Converter (DAC) technology.

One contribution — from a company called dCS — proved prophetic. In the days before bitstream technology was widely adopted in CD players as it is today, dCS was proposing a novel alternative form of conversion: the Ring DAC.

However, though the seeds for a CD player based on the dCS Ring DAC were sown at the time (and fear not, we will explain the workings of the Ring DAC in greater detail), it has taken Arcam seven years of refinement, resources and rangebuilding to see any further consequence of that epochal conference. On the basis of our first test, however, Arcam's dogged pursuit of an often elusive goal, and the long-antici-

pated, much talked-about £799.90 Alpha 9 CD player, have been well worth the wait. Better still, existing Arcam CD owners are not left out in the cold.

The ability to upgrade through the Alpha range is a core part of Arcam's product strategy. Thus the Alpha 9 is built into the same chassis, and offers the same range of features, as Arcam's Alpha 7, 8 and 8SE CD players. Owners of the Alpha 7 may hop, step or jump straight up to the Alpha 8, 8SE or 9 specification for £150, £300 or £500 respectively.

This will have no effect on the practical operation of the player, as all models are equipped with Sony's reliable CDM14 transport mechanism, and offer standard track-skip, search, program and repeatmode facilities. However, both the Alpha 8SE and Alpha 9 use Pacific Microsonics' PMD-100 digital filter, which confers the ability to decode the growing number of HDCD recordings.

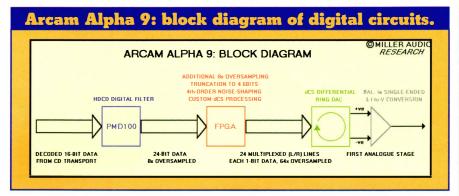
The long and winding road

The similar appearance of Arcam's Alpha 8 and 9 CD players disguises the frustrated evolution and final novelty of the Alpha 9. At an earlier stage in its development, Arcam experimented with a custom DSP filter, but eventually this was abandoned in favour of the PMD-100, for reasons of power-supply consumption and the latter's backwards compatibility with the Alpha 7 and 8 CD players.

Another plan was to condense the noise-shaping, D/A conversion and analogue stages onto a single silicon substrate, but this was rejected in favour of an FPGA (Field-Programmable Gate Array), which allows on-board software from Arcam and dCS to be updated in future, should the need arise. Commercially, this is a much safer strategy than to opt for a custom chip where the software code is carved in stone — or rather, etched in silicon.

Besides the transport and decoder ele-

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ments, the new Alpha 9 has three core components: the HDCD digital filter, the FPGA and the Ring DAC itself. The digital filter increases the sample rate eightfold and provides a 24-bit data stream for the FPGA, where it's increased by another factor of eight to a total of 64-times oversampling. Now the clever stuff begins. At this point, the 24-bit data is reduced into smaller fivebit chunks (actually 4.585 bits); while noise-shaping is employed to push the resulting noise and distortion out to higher (inaudible) frequencies and recover the audio-band's full dynamic range.

A total of 24 parallel binary lines, each either '1' or '0', are derived from every one of the 4.585 bits of serial data (two to the power of 4.585 = 24). In practice, these 24 lines must be multiplexed to carry both left and right channel data into the dCS Ring DAC. Here the 24 lines address 24 equallysized current sources (we'll cover this in more detail later); and all lines flagged '1' will switch their requisite current sources 'on' while those flagged '0' will ensure their current sources are muted. The sum total output of all 'on' current sources defines the amplitude of the musical waveform during that oversample period.

Naturally, Arcam has developed a new analogue filter stage to deal with the balanced current output of the Ring DAC; which, in this respect, bears comparison with traditional multi-bit DAC technology. On the other hand, the wide 64x bandwidth of the emerging signal is akin to that of a bitstream device, and demands a high-speed, precision current-to-voltage conversion/filter

op-amp. It's not surprising, then, to find lownoise video op-amps in Arcam's final analogue circuit!

A short history of digital audio

To comprehend why Arcam is so excited about the dCS Ring DAC, we first need to understand a little about the digital data used for audio. CD's 16-bit code represents the musical waveform using one 16-digit 'word' (for example, 1100010110100011) for every sample. The sampling rate for CD is 44.1 kHz (44,100 samples per second); and for every sample, or snapshot in time, there are two to the power of 16 (that's two times itself 16 times, or 65,536) different steps in level available, to describe the amplitude of the musical waveform. Ideally, to generate a smooth analogue output waveform, each change in level is only by one 65,536th step, which is known as the LSB (Least Significant Bit).

Different D/A converter technologies employ different techniques to 'translate' this code into a practical signal. A traditional multi-bit DAC, for example, uses what's called a 'resistor ladder' to provide a total current that describes specific positions on the musical waveform at each sampling point. In a 16-bit DAC there are 16 different current sources, each responding to a digit along the 16-bit word. Reading back our example 16bit word, above, from right to left, the multibit DAC will add the total of its first and second current sources with the contribution of its sixth, eighth, ninth, 11th, 15th and 16th current sources. Where a current source 'sees' a '0' it remains switched off.

These 16 current sources are not identical but double in output - or significance as we step from right to left. Hence the third current source has twice the output of the second current source which, in turn, is twice the size of the first current source or Least Significant Bit (LSB). For truly accurate conversion the final, 16th current source (or Most Significant Bit) should be exactly 32,768 larger than the LSB. In practice, these ratios are not precise, resulting in an error in the 'shape' of the musical waveform during conversion, and an increase in distortion.

In this case, the conversion is said to be 'non-monotonic', while the differences between the LSBs accumulate to cause rough-sounding modulation noise. This type of distortion is most destructive at low signal levels, where there are less LSBs available to describe the signal, and so the errors are proportionally more significant, causing even higher distortion.

The bitstream bonus

Bitstream converters seek to overcome this problem by using just one LSB (current source) but a proportionally higher oversampling rate. Using just one 'step' over and over again ensures a uniform scale, but reducing the 16-bit words into a one-bit bitstream creates a huge amount of noise and distortion in its own right. This is tackled by massively oversampling the data to 64 times (or greater) its original rate, while using a technique called noise-shaping to squeeze all the erroneous noise and distortion from the audio-band out to higher, inaudible frequencies. For more detail on noise-shaping, I'd recommend you turn back to our exclusive review of the TACT Millennium digital amplifier (HFC 178).

Modern bitstream converters typically reduce the 16-bit words down to, say, five bits; then they use this to control the length of time the current source (or pulse) stays switched on for every oversample period. A single five-bit word can describe one of 32 possible different pulse widths per oversample period (two to the power of five = 32). This is the basis of the PWM (Pulse Width Modulation) DACs used by Technics, Sony and JVC, for example.

Monotonic conversion is guaranteed by this method, and low-level linearity is improved. However, because of the proportionally higher clock rates needed to accurately 'time' these pulse widths, the PWM technology is arguably more sensitive to jitter — an alternative form of distortion.

Reasons for the Ring DAC

On paper at least, the dCS Ring DAC attempts to hybridise the two technologies - multi-bit and bitstream — while avoiding their drawbacks. Sure enough, the incoming data is reduced down to 4.6-bits while noise-shaping is employed to recover the signal's original dynamic range, just like the archetypal bitstream device. But



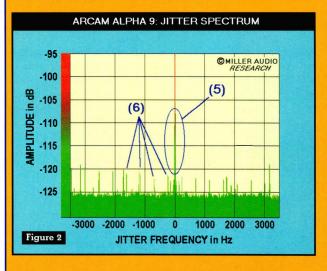
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ARCAM ALPHA 9 CD - LAB REPORT

espite being an early 'engineering sample', this Alpha 9 suffers only two relatively minor blots on its copybook. First, near to its peak 2.4V output, distortion tends to increase slightly, reaching a constant 0.01 per cent across the audioband. I would suggest the high-speed I-to-V converters might be showing signs of stress here, particularly as at lower signal levels, distortion tails off very impressively.

Just look at the 3D plot below, fig 1. This is an incredible result, since in response to a full 0-22kHz sweep at -30dBFs (1), there are no tracks of distortion or sampling images — just innocuous noise both in (2) and outside (3) of the audioband. The excellent suppression of this ultrasonic re-quantisation noise (3) is testament to the quality both of dCS's noise-shaping algorithm and Arcam's analogue filtering. The remaining HF tones (4) are of unknown origin but are

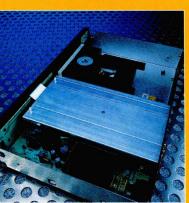
ARCAM ALPHA 9: DISTORTION & NOISE @ -30dB © MILLER AUDIO RESEARCH MAPLITUDE (IN OB) UTPUT FRED IN MAN SWEEP FREQUENCY in KHZ -60 8 -70 10 (4)12 14 -100 16 -110 18 120 **OUTPUT FREQUENCY IN kHz** Figure 1



unlikely to be of great significance.

The second shortcoming lies in the unit's 96-97dB A-wtd S/N ratio which, though perfectly acceptable for a 16-bit system, is hardly the realisation of a true 24-bit converter. Nevertheless, the minute errors in low-level linearity of just +0.0/-0.3dB over a full 100dB range, suggest the true resolution of the dCS Ring DAC is far

greater than this S/N figure might suggest. With regard to jitter and the distortion caused by timing errors in the conversion of digital data (fig 2), the 279psec total is low but could be lower still as evidenced by the low-rate components (5) situated very close-in to the main peak. Without this (innocuous) cluster, the Alpha 9 would be left with just 137psec of datainduced jitter - a fabulous result in anyone's book.



Under the hood - Sony's reliable CDM14 mechanism visible top centre.

TEST RI	SUL	rs	
PARAMETERS	SIGNAL	FREQUE	ENCIES
	20Hz	1kHz	20kHz
Channel Balance	0.0dB	0.0dB	0.0dB
Channel Separation	99dB	99dB	98dB
Frequency Response	0.0dB	0.0dB	-0.1dB
THD vs Level, OdB	-80dB	-81dB	-79dB
THD vs Level, -30dB	-91dB	-88dB	-81dB
THD vs Level, -60dB	-61dB	-57dB	-60dB
THD vs Level, -80dB	-29dB	-30dB	-35dB
Dithered, -90dB	-19dB	-20dB	-25dB
Dithered, -100dB		-12dB	
Dithered, -110dB		-7dB	
Resolution @ -60dB		0.0dB	0.0dB
Resolution @ -80dB		-0.1dB	0.0dB
Resolution @ -90dB		-0.3dB	-0.3dB
Resolution @ -100dB		-0.1dB	-0.1dB
Peak Output Level, L		2.374V	
Peak Output Level, R		2.373V	
Relative Output Level		+1.5dB	
Output Impedance		470hms	
CCIR IMD, 0dB	-78dB		
Suppression of stop-band images	>105dB		
1Hz Noise Modulation	(in protect	tion)	
S/N Ratio (A-wtd), with emp, OLSB	96.7dB		
S/N Ratio (A-wtd), w/o emp, OLSB	96.5dB		
S/N Ratio (A-wtd), w/o emp, 1LSB	96.4dB		
De-emphasis Accuracy, 1kHz	0.0dB		
De-emphasis Accuracy, 5kHz	0.0dB		
De-emphasis Accuracy, 16kHz	0.0dB	A PROPER	
Total Correlated Jitter	279psec		
Digital Output(s)	coaxial		
Crystal Clock Accuracy	-8ppm		
Track Access Time (99)	2.5secs		
Typical Retail Price	£799.90		

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WORLD EXCLUSIVE - ARCAM ALPHA 9CD

dCS's use of this 4.6-bit code is different. Instead of varying the on/off timing of a single current source, the 4.6-bit code controls 24 equally-sized current sources to realise a single, summed output. Obviously, it's easier to match these 24 current elements than the theoretical 65,536 LSBs employed by a 16-bit multibit DAC, but unavoidable variations in their size would surely give rise to distortion.

dCS is cagey about the precise nature of its solution, but it seems likely that because not all 24 current sources are used in every oversample period, those in use are addressed in an irregular or random fashion. This would have the effect of averaging out any fixed errors as noise, rather than har-

equally impressive in practice.

What's all this 24-bit,

What's all this 24-bit, 96kHz business?

It is important to appreciate that, as far as the dCS Ring DAC is concerned, any talk of '24-bit' refers to the maximum input word length it will accommodate, and the mathematical accuracy of its processing. It is not a promise of a practical 144dB dynamic range (24-bit's theoretical maximum), because other hardware issues, beyond dCS's control, will hold sway.

monic distortion. It's clever stuff indeed, and

judging by the results we obtained here,

Other semiconductor manufacturers, for example Crystal Semiconductor and Burr-Brown, also have a so-called '24-bit' DAC on their books. These are the CS4390 and PCM1716E ICs respectively, which adopt a bitstream-type technology and are currently utilised in CD players from Meridian (508.24), Talk Electronics (Crystal); and forthcoming players from Creek and Musical Fidelity (Burr-Brown).

Crucially, however, only the Burr-Brown and dCS Ring DACs are specified to operate at an elevated 96kHz sample rate. Crystal's CS4390 carries a maximum 24-bit/48kHz specification, though a future version, called the CS4334, should be compatible with any up-and-coming 24-bit/96kHz audio format.

As things stand, however, Arcam will already be one step ahead if the move to 24-bit/96kHz DVD-Audio becomes a commercial reality.

MORE ABOUT ARCAM

Arcam's history dates back to 1972, when youthful John Dawson and associates, students at Cambridge University, started building sound reproduction equipment. Their first hi-fi amp was the A60 (below), released in 1976 and awarded Recommended status in HFC 6, when it cost the princely sum of £125. Arcam claims that 30,000 of these amps were sold worldwide and that it can still—just—service them today. Today the company employs 130 people and exports to over 50 countries.

MORE ABOUT dCS

dCS was formed in 1987 by a group of consulting electronic engineers, and specialises in analogue-to-digital converters (ADCs) and digital-to-analogue converters plus associated systems, for supply to a number of industries including professional and domestic audio. Its dCS 900 is an industry-standard ADC for 24-bit classical recording. The £8,500 dCS Elgar (below), meanwhile, launched in June 1996, was the world's first 24-bit, 96kHz DAC for hi-fi. The latter (which will feature in a special Statements review in next month's HFC) also uses the Ring DAC implemented in Arcam's Alpha 9. together with custom digital filters and gate arrays. It is distributed in the UK by RT Services 2 (01235) 810455.

dCS ☎ (01799) 531999 • www.dcsltd.demon.co.uk



Listening to the Alpha 9

To assess the Arcam's sonic performance we spared no effort to appraise it in our classic unsighted listening test conditions, comparing it with Meridian 508.24 (£1,995) and Talk Electronics Thunder 3 (£999.95) players, currently the only other '24-bit' CD offerings on the market. Sounding confident but not pushy, the Alpha 9 quickly emerged as an artfully-balanced player in our blind listening comparison. There was a suggestion of it sounding faintly shut-in at the extreme top of its range, but nevertheless it was able to tease out subtle musical details regularly overlooked by its competitors.

Bonnie Raitt's album *Nick of Time* was not quite as full-blooded as it might have been, but still possessed enough drive and conviction behind the voice and accompanying guitar to paint a very believable, livesounding picture. Allowing for a slight loss of extreme treble, the Arcam's music-making was bolstered by a good sense of space, and sharp, focused stereo images that contributed to a solid and assured performance.

The pin-sharp positioning and realistic sense of movement conveyed by this player was exemplified by the violin and cello from Bach's *Two=part inventions*. The music was unfamiliar, but the panel members remained on the edge of their seats, not with apprehension but with eagerness as the duelling performers successfully developed

a marvellous sense of occasion. Strings cut the air with an attack and bite that seemed wholly appropriate, free from any harsh or edgy colour and creating the illusion of an instrument with little or no sense of artifice.

This player's lack of musical 'engineering' was also reflected in the transparent projection of Lyle Lovett's voice throughout *I Love Everybody*. In this instance, guitar strings punctuated a charged acoustic, a gentle-sounding but positive kick-drum brought up the rear, and the man's voice retained its characteristic edge without lapsing into sibilance. As a whole, the ensemble sounded lucid and natural, free of any restraint or plodding tendencies.

On the latter count there was no holding back the frenetic bass-line of Prefab Sprout's Looking for Atlantis as Arcam's player conveyed a large and busy soundstage without moving a hair out of place. All the crazy panning of detail, the vocals and harmonies, guitars and synth were handled without confusion. Indeed, the Alpha 9 deals with the most complex mixes with a great sense of order and control, yet without imposing any shackles of its own. In truth, the Alpha 9 grips but does not squeeze.

Conclusion

Readers must bear in mind that the Alpha 9 provided for this exclusive appraisal was an 'engineering sample' and, judging by the 00001 serial number, an early one at that! Nevertheless, and despite one or two trivial questions concerning technicalities, the '9 has more than whetted our appetite for the finished production model which, incidentally, should be in the shops about now.

The Alpha 9 is undoubtedly the most ambitious and inspired digital product ever to emerge from Arcam's factory in Waterbeach, Cambridgeshire. This CD player not only challenges the very best integrated machines below £1,000 but also takes a considerable pop at those costing much more. The player sounds mightily impressive; and with HDCD software compatibility, plus its use of dCS's 24-bit/96kHz Ring DAC, it is effectively future-proofed. Commercially at least, Arcam is steaming towards a home run.

And whether or not you are already an Arcam owner, you'd be barmy to pass up an opportunity to audition the Alpha 9 at your nearest dealer. Just tell them the guys and gals at *Hi-Fi Choice* sent you!

Arcam **☎** (01223) 203203 ● www.arcam.co.uk

What Music Did We Use?

Bonnie Raitt *Nick of Time* —
Capitol CDEST2095

Lyle Lovett *I Love Everybody* —
MCA MCD10808

JS Bach: *Two-part inventions* on *Music for a*

Glass Bead Game

John Marks Records JMR15

Prefab Sprout Looking for Atlantis from Jordan:

The Comeback —

CBS KWCD14

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ARCAM (

MS TUSTIC SERIES This month's £750 starter system is the kind of hi-fi partnership you can buy all over the land. An ideal impulse purchase, reckons Alan Sircom...

ast month's system was a £2,000, CD-based outfit recommended by the London dealership, Grahams. This month, rather than relying on a single stockist's hi-fi suggestion, here's a rig you should be able to find in the majority of specialist shops. With a budget of £750 for the core components of CD, amp and speaker, what kind of system could you buy if you walked into a shop tomorrow?

This might sound a like a simple exercise, but since there are so many CD players, amplifers and speakers at any given

budget, it is all too easy for the unwary system permutator to be snared in numerous traps along the way. For example, while magazines are always keen to investigate the hottest new products, more conservative dealers prefer to stick with the tried and trusted. In a worst-case scenario, we will discover a winning combination of components that are impossible to audition within a single dealership.

Friendly firepower

These caveats aside, this month's trio of components are all old friends. At the helm is the ubiquitous Marantz CD-67mkII CD player, Recommended in *HFC* 179 and priced at £250. Our amplifier is another favourite, the £260 Arcam Alpha 7 integrated amplifier (*HFC* 167). The Marantz and Arcam go together like Rugby League and traction. We could substitute either product for any one of six or seven Japanese and British offerings from the likes of Creek, Rotel and Pioneer, for example, but this would divert us from our avowed 'ease of purchase' objective.

In this most instant of instant systems, our speakers had to be the £200 Mordaunt-Short MS20i Pearl. This highly popular enclosure doesn't always get the magazine

THE SYSTEM	
Marantz CD-67mk11	£249.90
Acram Alpha 7	£259.90
Mordaunt-Short MS20i Pearl	£199.99
Total	£709.79

exposure it deserves, but it is no less readily available than either the Marantz CD or Arcam amp. We have yet to test this design formally, though it has featured well in a recent review performed by *HFC*'s sister title, *Home Entertainment* (issue 53).

To give a brief background, the Pearl edition of the MS20i, minted to celebrate Mordaunt-Short's 20th year in the business, claims to feature an improved crossover, slightly redesigned cabinet and a handful of small but significant improvements to its drive units. Sure, we could swap these speakers for any one of 10 popular, widely-available models at the price, and the results would differ slightly — but the essential character of the sound would remain fundamentally intact.

Core blimey

What is that core sound? It combines the Marantz CD player's briskness with the warm yet effusive sound of the Arcam amp. The Mordaunt-Short factor in this equation adds a healthy dose of bass oomph, yet settles down sensibly on more restrained musical styles. There's no doubt this system leans towards modern material like the Propellerheads, but at the same time it still plays lyrically with John Coltrane's sax and Glenn Gould's old joanna.

I cannot conceal the fact that the sound gets a bit lost and muddy when sailing through big orchestral swells, and the imagery, though competent, would not give cause for alarm to the average Quad ESL-63. But performance is credible when you consider the price; and it is easy to forget the price when a system sounds this good!

Conclusion

For the same amount of money you could buy an integrated system crammed with features such as an MD recorder, Dolby ProLogic processor, funky graphical displays and the like. None will sound as good as this rig. Best of all, it can play loud with style. Not non-stop-wake-the-street-slammin'-Techno loud, I grant you; but for those after-the-pub-impress-your-mates-with-The-Prodigy blasts, it's a killer.

Arcam 😰 (01223) 203203 Marantz 🕿 (01753) 680868 Mordaunt-Short 🕿 (01705) 498866



Ear Waxings

Jason Kennedy becomes an advocate for surround-sound music, and reports exclusively on Mission's first NXT flat-panel speaker.



ave you ever heard music played through a surroundsound system optimised for the purpose? Unless you remember Quadraphonic from the '70s, the answer's likely to be "no". Since then only the late Michael Gerzon's Ambisonics system has held out any promise in this field.

More recently, Dolby Digital has been poised to expand into music from its movie soundtrack stonghold, but there has been little or no backing from music software producers. Instead, the breakthrough has come from Dolby's big competitor on the professional cinema front: DTS (Digital Theater Systems). And DTS offers a multi-channel music format that works.

It was only after I'd spent a morning setting up and listening to a DTS system that I realised it represented a breakthrough for multi-channel music. Having spent time with both Pro-Logic and Dolby Digital surround systems for film I'd become rather nonchalant about a surround system for music. Possibly this is because previous demonstrations had always been made on overblown home cinema systems, and equally because the few discs I had heard resorted to home cinema-esque novelty when it came to using so many channels. But once installed and set up at home it became clear that the DTS format has hi-fi potential.

Like all new formats, the problem for DTS lies with software: for potential customers to splash out on the relevant hardware there needs to be some back catalogue to play on it. Even the least expensive decoders cost in the region of £500 and if you don't have a 5.1 channel home-surround system already, you'll need three channels of amplification and speakers. You see the problem. However, home cinema is rumoured to be making inroads in this part of the world, so there are some for whom the changeover won't be so painful.

The DTS 5.1 Surround format provides for five channels of sound plus subwoofer (the 0.1 part). It uses a proprietary 20digital format encoded onto special CD software, which will be recognised by ordinary CD players. To play, though, it needs a special outboard decoder/converter like the Millennium 2.4.6 (\$599) pictured on this page.

Home cinema buffs will be wondering when I'm going to discuss DVD (Digital Verstaile Disc). This format's audio specification is still awaiting finalisation, but holds out the potential for 5.1 channels of uncompressed 24bit/96kHz music, though

as yet it's unclear for how long such a highquality disc would play.

Another proposal on the table is the

Philips/Sony-developed Super Audio CD (SACD), which was previewed in HFC 175 and has been demonstrated in five channels to tremendous effect. And while the Millennium unit is not available in the UK. DTS decoders are being included as an option in an increasing number of home cinema processors such as the Lexicon DC-1 and Yamaha DSP-A1.



To check out DTS I borrowed 10 titles from the 40-strong catalogue. At present these are priced at \$25 and need to be purchased in the style of US LaserDiscs, via the Internet. One dealer we know of is Brad Miller, who can be contacted by email at bmiller 51@aol.com or on +1 (888) 551 0123.

Quite quickly I realised that one or two albums alone cannot give a good impression of DTS's music replay abilities. The quality of its effect is determined by each recording's style of

production and mixing: some simulate for the listener the experience of sitting in the middle of the band; while others operate more subtly creating only a sense of ambi-



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ence or a larger acoustic space.

Of the discs I tried, half were reissues of old albums while half encompassed new material. In the former camp were classics like Steely Dan's Gaucho; in the latter the latest offering from Belinda Carlisle. While the back-catalogue material was sometimes enhanced by a creative sonic and spatial remix, the new recordings were the most impressive exponents of surround for music.

One of the best results was from Junior Wells's Telarc recording Come On In This *House*. This is a contemporary blues album that's been very nicely recorded. Others, such as Bonnie Raitt's live cut Road Tested, suffer from rather severe compression.

Parsons knows

Some producers and engineers are learning faster than others the art of an effective music surround mix. During B&W's recent press launch of the Nautilus 800 Series (see Update, p6), hi-fi journalists first listened to the new speakers in a 5.1-channel mixing suite, within the Abbey Road recording studio complex in North West London.

There, veteran record producer Alan Parsons played us a multi-channel mix from a little engineering job he did in 1973, called Dark Side Of The Moon. That was quite convincing, as one might expect from over £40k's worth of speakers alone, but much more stark was the contrast between twoand multi-channel versions of Parsons' latest album, On Air. Interestingly, producer Parsons prefers not to use any centre channel speakers, in the aim of achieving a more even 360-degree dispersion of sound.

DTS is certainly more than just another movie surround format: it is viable for music too. There are 40 DTS titles currently available, and according to the DTS web site (www.dtstech.com) another 20 are in the pipeline. We have yet to see what DVD Audio will offer by way of music in surround; and while we know the capabilities of SACD in this regard, we have yet to be convinced it will ever see the light of day in the High Street. Our advice, then, is to track down your nearest dealer who's prepared to give you a DTS dem using hi-fi speakers — if sonic knaves like the Orb and Coldcut get around to creating software that really does justice to the format, I'll be in there like a shot!

■ Read more about multi-channel music from p28

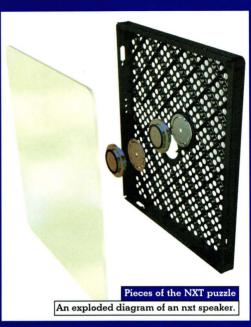
NXT YEAR'S MODEL

Hi-Fi Choice was the first to break the story of Mission's NXT flat panel speaker technology. Now we lead again with an exclusive review of the first commercial NXT audio product!

n HFC 160 we reported how gentlemen and women of the press were stunned by the world's first demonstration of the NXT flat speaker. The latter, developed by an offshoot of the Mission and Cyrus brands, was made from a sheet of material that produces sound by being flapped around or wobbled in extremely small amplitudes.

Mission has just launched its own first commercial implementation of the NXT technology. The x-Space is a £499.90 speaker system including a compact subwoofer with built-in amplification, and a pair of satellite NXT speakers each measuring just 310mm wide — and, including the novel multi-purpose base/wall/ceiling bracket, only 82mm thick.

The amp claims to deliver 30



Watts per channel RMS for the satellites, plus 45 Watts RMS for the low frequencies. This is available via Mission's new EU-compliant 'BFA' speaker connectors. Being fitted with phono jack inputs, the system claims to be compatible with anything from a Walkman to a regular hi-fi system — though the discreet grey styling and shape of the sub must indicate clear aspirations towards the computer market as well.

In early May Hi-Fi Choice had an exclusive brief audition of the x-Space. And on the basis of this informal but illuminating session, the technology seems to be fulfilling some of its many claims. Perhaps the most dramatic effect of all is NXT's extraordinary sound dispersion characteristics. Stand anywhere in the room and the volume level seems the same. Principally this is due to NXT's almost total lack of directivity at most frequencies; by contrast, conventional speakers tend to give their full frequency response only over a very narrow angle in front of their drive units.

In a conventional speaker, higher frequencies are more directional than bass ones. NXT panels seem to have the opposite character, since according to the maker's own polar response plots, their bass is more directional. And while normal speakers' sound outputs obey they inverse square law, under which loudness halves as distance from the speaker doubles, the sound from NXT panels suffers virtually no power reduction over distance.

Some claims for NXT are extraordinary: impedance flat to 10kHz, then rising; freedom from amplifier-aggravating back EMF problems; panel movement that is measured in microns (midband frequencies); reduced harmonic distortion; and minimal sensitivity to positioning within the room. (For more details see the New Transducers Web site at www.nxt.co.uk.)

While the x-Space system is designed for use with real-world audio equip-

ment, it has been designed to bring otherworldly sound into the home. However, there are amazing plans to produce a whole range of NXT products for in-car, sound reinforcement and cinema applications among others. NXT claims that the sound-generating panels can be built into ceiling tiles or car dashboards, for example, and hopefully by this time next year, the company may have had time to develop an audiophile implementation of this intriguing technology.

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THE BIGGEST CHANGE IN HI-FI THIS GENTURY



The Victory 6: a bass reflex, floorstanding loudspeaker featuring ferrofluid cooled titanium polycarbonate tweeter, specially coated cellulose mid/woofer, bi-wire terminals and spikes. Frequency response is a staggering 25Hz - 28kHz, sensitivity 91dB and power handling a mean 110 Watts RMS.

And all for...







The Jimmy Hughes

Experience

Jimmy Hughes laments the passing of CD... but is it really on the wane or could it be resurrected?

he prospect of a replacement for CD (see p28) is both exciting and worrying. It's exciting because it promises higher standards, bringing us closer to the goal of perfect sound. And it might even rekindle interest in hi-fi as people flock to hear the latest advance in technology. It's an opportunity for the record companies to re-release back cata-

logue material in improved sound, and make technically better new recordings.

However, if like me, you've made a sizeable investment in CD software, the idea of it being superceded by something better one day is enough to cause sleepless nights. If the new system really is better, I know I'll eventually want to replace my entire music collection. Yet are the 'limited' CD specifications really as limited as we think? Of course CD has restrictions on paper: 16-bit 44.1kHz technology, state of the art in 1983, looks distinctly circumscribed today.

But if this is the case, CD at best is able to recreate the source with impressive accuracy. I agree there often seems to be something missing with CD. And I know

many put this down to CD's limited specification. But is it possible that CD's limitations aren't with its 16-bit/44.1kHz technology, but other things? Let me explain further.

Digital vinyl

Recently I listened to an LP recorded in April 1980, of Weber's Clarinet quintet on the American Nonesuch label — a thoroughly enjoyable experience. The music was lovely, and not having played LPs for a week or two, I reflected that analogue still has a certain magic which CD lacks. Then it dawned on me that the LP in question was taken from digital master tapes recorded on a first generation IVC DAS-90 system, with specifications possibly even less advanced than CD. Yet the sound was pure, natural, very subtle and detailed. Not at all what you'd expect from an early digital recording.

Certainly, I'd settle for a sound as natural from CD. At present my CD player, although good, hasn't got the same purity and subtle detail; in visual terms, it's as though the picture has a slight colour cast, lacking the wide distinct contrasts available with LP. Of course it helps to use a superlative moving-coil pickup cartridge - in this case



the Transfiguration Spirit, which produces magical sounds from vinyl.

Logic suggests that if a digital recording from LP, made using a recorder with similar (or inferior) specifications to CD, can sound subtle and natural, so should CD given similar source material. If it doesn't, either there's something wrong with the CD player, or losses are occurring in the CD mastering and pressing process. In HFC 168, I wrote about the problems encountered by Pink Floyd's producer while mastering the album Pulse — it seems much can go wrong when recordings are being transferred to CD.

One of EMI's earliest pop CDs was Tina Turner's 1984 album Private Dancer — CDP 746041-2. I bought a copy as soon as it came out and was disappointed with the sound: it lacked body and depth, being rather 'flat' dynamically. Was it the disc, or the limitations of first and second-generation CD players? Perhaps a bit of both. Certainly, if I play this CD today I'm less disappointed with it than I used to be — now it sounds pretty good, though there's still something missing.

So I was intrigued to talk to Steven Carr of Vivante Records, who sent me a special JVC XRCD audiophile remastered copy. What an

> improvement! It sounded louder and sharper, with greater brilliance and sparkle. The improvement stems almost entirely from the care taken during the digital transfer of the original analogue tape.

Remastering starts by digitising the analogue master tape using JVC's 20-bit K2 encoder. K2 uses 128 times oversampling and allows the 20-bit signal to be converted down to 16-bit for CD, as well as claiming to eliminate timebase jitter. The 20-bit digital signal is stored on an optical disc, rather than Sony U-Matic PCM-1630 tape, and masters the CD using another circuit called K2 Laser.

But does it result in improved sound? Definitely. Even without comparisons you'd know this disc was special. There's a freshness and vitality rare for CD: instru-

ments like cymbals shimmer and decay deep into the mix, rather than being thrust at the listener en masse. My original copy sounds grey and washed out by comparison. It's less dynamic, and detail is not so crisply focused.

Certainly, this JVC CD demonstrates the kind of performance possible with CD when extra care is taken during mastering. And while the same process applied to a higher specification CD would result in even better sound, I wonder how many people would worry about the difference. Where audio is concerned, it seems to me that the benefit of improved technology has less effect on people's spending patterns than once it did.

For every sad trainspotter like me who buys a second copy of a CD because it's been remastered and promises better sound, there are thousands of even sadder trainspotters who couldn't care less and wouldn't hear any difference in any case. Cynical, moi?

Vivante London 2 (0181) 977 6600

Paul Miller's Oasis of Sanity

Paul Miller investigates the latest version of the MiniDisc perceptual coding system, and discovers that it may not be 100 per cent backwards-compatible.

n Eindhoven, they are watching. The continuing success of Sony's MiniDisc (MD) format has not gone unnoticed by the bigwigs at Philips. Inevitably, the need to compete with MD has, at least in part, driven Philips' efforts to develop a budget CD-R/RW recorder. Particularly since Philips' original MD competitor, the tape-based DCC system, has been left to die a quiet death. In response, Sony has improved the electronic heart of its own MD recorders, and those of its licensees. This evolution, we'll discover, is ATRAC 4.5.

There is a big difference between CDR/RW and MD, not only in the composition and size of the disc media, but also in the way that data is stored. The CD-based format holds its digital data in a linear, 16-bit form, with a capacity of around 650Mb per disc. The smaller MD disc, however, has room for just 130Mb of data but still manages to squeeze in the same amount (an hour or so) of music. This is achieved by MD recorders' ATRAC (Adaptive TRansform Acoustic Coding) processor, which employs a mixture of data reduction and data compression techniques to 'represent' original 16-bit data in just one-fifth of its original space.

ATRAC increases recording efficiency



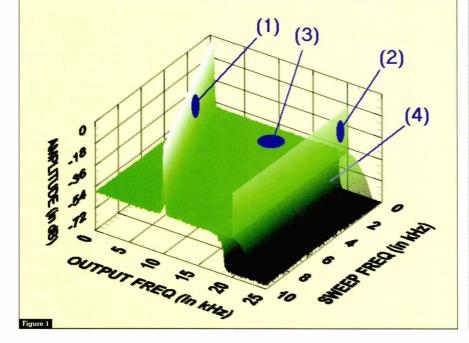
using well-understood psycho-acoustic principles to decide which signals are audible and which may be safely discarded, thereby reducing the 'density' of the digital data. For example, individual sounds are only audible

if they persist above our threshold of hearing, and, furthermore, if they're not 'masked' by the presence of louder, adjacent sounds.

The latest ATRAC 4.5 algorithm is obviously based on older versions employed in earlier MD recorders — which, for the sake of argument, we'll call ATRAC 2.0. All ATRAC processors begin by filtering the audio signal and representing it using one or more of the 52 so-called Critical Bands. These Critical Bands are spread non-uniformly across the audio range and are defined by human ability to discriminate between several sounds of a similar frequency. Through the bass, a Critical Band might only be 100Hz wide, through the midrange it may expand to 200Hz while, at high treble frequencies, a Critical Band may cover 2-3kHz.

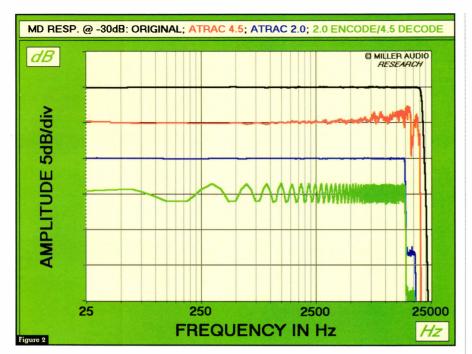
The bit pool's run dry

Using ATRAC, the MD recorder will combine different musical signals occurring





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within one Critical Band as a single signal. Its resolution, however, is decided on a dynamic basis according to the nature of the music at hand. ATRAC is placed under greatest stress when saturated with high-level, rapidly changing signals, causing its available 'bit-pool' to run dry and musical information to be selectively discarded.

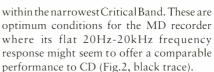
This can be demonstrated graphically (Fig.1) by feeding the MD recorder a complex pattern of signals, a mix that contains a 500Hz-10kHz sweep (1), a continuous 20kHz tone (2) and a low-level 'surface' of broad band detail (3). My graph shows this 'input' pattern as a semi-transparent overlay on the recording decided upon by Sony's original ATRAC 2.0 algorithm (fitted to players of two-three years' vintage).

In this case, the depletion of bits available to describe this complex 'music' results in a

universal loss of all high frequencies (HF) above 17-18kHz (4). The 20kHz tone has completely disappeared. Importantly, if this pattern were recorded on CD-R/RW, then the original and copied images would be indistinguishable.

Important decisions

Remember, this represents the performance of MD two generations ago. ATRAC 4.5 is the latest version of the encode/decode algorithm used by MD recorders like Sony's MDS-JE520 and Denon's chunky DMD-1000, and here we see important differences in the 'decisions' made. For example, where the music is uncomplicated and largely unchanging in content and dynamics, both versions of ATRAC will process successive samples across the widest 11.6msec time block, achieving a frequency resolution



Where the music signal is changing rapidly, time blocks as short as 2.9msec or 1.45msec would have been selected by ATRAC 2.0 to 'keep up' with those dynamic variations. Its frequency resolution suffers as a result, leading to a flat but restricted response that stops short at 15kHz (blue trace).

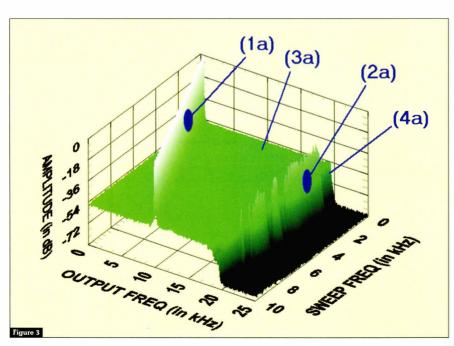
ATRAC 4.5, however, also brings what Sony describes as 'adaptive high frequency control' into the equation. This extra bit of maths controls the HF content of the incoming music prior to recording and mimics, I am told, "the behaviour of the human ear". ATRAC 4.5 attempts to reduce the distortion associated with the impaired coding accuracy of sustained HF signals even if, in practice, there seems to be some modification of both frequency and *phase*.

This is reflected in the red (ATRAC 4.5) response trace which, although recorded under identical conditions as the blue (ATRAC 2.0) trace, has evidently stretched out closer to the HF limit of the input (black) trace. And yet the response has taken on a more erratic, noisier appearance by way of payback. This is partially a measurement phenomenon, caused by a corruption of the signal's original phase.

Just as interesting is the behaviour of an old MD recording replayed on today's generation of machine. Both the new Sony and Denon MD recorders produce the inexplicably rippled, green response (+/-1.5dB at 313Hz) when replaying the –30dB response disc recorded on an earlier (ATRAC 2.0) generation machine. This evidence, though restricted in scope, suggests that today's MD recorders may not enjoy 100 per cent backwards compatibility with recordings made on earlier units. Before going to press there was insufficient time to solicit Sony's response to these findings, but we will print it in the next available issue.

A noisy surface

Finally, let's look at how ATRAC 4.5 deals with the same complex pattern of signals seen on the first 3D plot (figure 3). Again, the original 500Hz-10kHz sweep (1a) is returned intact but now the 'surface' of broad band detail (3a) is evidently noisier, rather like the red response in the previous plot. By way of recompense, this surface now extends close to the original 20kHz limit (4a) instead of being cut short as it was with ATRAC 2.0 (4). Nevertheless, the somewhat inconsistent nature of ATRAC's additional code is also revealed in the erratic appearance/disappearance of the 20kHz tone (2a). Quite how all this effects the sound quality of players like the Sony MDS-JE520 and Denon DMD-1000 will be determined in Hi-Fi Choice's next group test of MD recorders. ≜ Do you have a subject matter for the Oasis? Please contact P.Miller via e-mail on 100576.3021@compuserve.com



HI-FI CHOICE JULY/AUGUST 1998 23

UNLIKE MOST SPEAKER COMPANIES, WE BUILD SPEAKERS. WE DON'T BUY THEM.

My, my. Things nowadays are not always what they're

Every single part of our beloved Contour 1.8 (the one

cracked up to be. We're almost positive it all started with the egg-free egg. Yum. Then came caffeine-free coffee, with the taste gone, too. In a matter of days, the conscience-free politician followed, who within moments was justly run over by his own badge-engineered car. And now, here comes the ultimate horror: The Dynaudio-free Dynaudio speaker.

No way! Just kidding! In fact, it's just the other way around; 90% of all other highend manufacturers do not painstakingly develop and build their own speakers at all. Instead, their designers tend to use our justly famous Esotar and Esotec tweeters, only to sell them to you, the truth-loving English public, as their own most expensive creations. We, being true

our works raccoon Knudsen is just checking for alien intruders) is still meticulously hand built by our dedicated Danish master craftsmen.

With our legendary oversized voice-coils, our incomparable first-order crossovers, the flat driver membrane geometry and the minimization of phase problems. From truly superior materials, in extremely limited numbers. To create beautiful, true music. And nothing else.

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Danes, still believe in a 100% in-house production.

speakers. We write our own ads and brochures, too.



Personal

When is a high-end cartridge not a high-end cartridge?
When, **Paul Messenger**reckons, it costs only £550
like the Clearaudio Sigma...

hose who read my recent group test of high-end pickup cartridges (HFC 175), might recall I developed quite a soft spot for a pricey model called the Signature, from German manufacturer Clearaudio. The guys over in Erlangen-Buckenhof obviously noticed, because now I've just got my hands on the company's new Sigma.

I guess Clearaudio considers it a budget model. And I suppose it is when you note that Clearaudio's next most expensive design is the £745 Gamma, and the flagship is the £4,900 Insider. For many British hi-fi consumers, however, £550 is a pretty price to pay for a needle.

It's a sad fact of life that top-quality vinyl replay is an increasingly expensive business these days, in view of the fact that a cartridge wears out after a few years' use. (Perhaps it's not so different for CD enthusiasts, who are constantly tempted to upgrade for the latest technical refinements.)

Sigmatic transmission

The Sigma looks like every other Clearaudio I've encountered. That's a polite way of saying it's a pretty weird affair: its shape reminds me of nothing so much as the business end of a hammer-head shark. And just like those other Clearaudios, it's a pain in the proverbial to install! At least it spares installers the nerve-jangling experience of handling an unbodied 'nude' cartridge.

The stylus and cantilever are pretty well shielded from accidental damage, so long as you can remove the stylus guard successfully. I did achieve this, but not without some anxious moments, as this rather poorly-designed protector grips too hard and doesn't fit too well. It might seem picky to mention this, but when you're handling a fixed-stylus moving-coil cartridge costing over £500, you need all the help you can get.

At least the guard can stay in place while the cartridge is fixed in the headshell, though again, separate nuts and bolts don't make life easier. Many other designs build the screw threads into the cartridge body. However, the four signal connection pins are easily accessible, and clear markings on the hammerhead help to achieve accurate alignment.

Messages



Armed and primed

Like all other Clearaudios, the cartridge is significantly taller (from stylus to headshell) than most, so a partnering tonearm's bearings will need to be higher than usual to keep the arm parallel with the record surface.

The Sigma comes with full calibration data, including recommended tracking downforce specific to every individual unit. Our sample was quoted at 2.6g, which sounds like a slightly higher mass than normal, especially as another leaflet quotes a 2g target and warns against exceeding 3g. There is no information concerning the stylus tip, but a line-contact type should certainly be happy at 2.6g, and the Sigma's tracking was reassuringly secure throughout my listening.

For all its high tracking weight, I was surprised to find the Sigma a much lighter design than the Signature. For the latter I had to dig out the heavy (140g) counterweight for my Naim ARO tonearm; for the Sigma it was back to 110g plus a bit of headshell ballast to achieve the requisite 2.6g.

Hone that tune

Having finished my preparations I dropped the cartridge into an LP's lead-in groove, and was struck immediately by the wonderful top-end detail, focus and clarity. Perhaps because of the 'brand new' factor, or perhaps because of a tonal balance on the bright side of neutral, I started picking up new details from all sorts of familiar records, and the imaging was beautifully etched.

My usual Linn Arkiv 2 has exceptional top-end control, but certainly didn't match the Sigma for sweetness, sonority or sheer detail retrieval. (To be fair, it's seen pretty heavy use for at least nine months.) Clearaudio's Signature didn't hang around after the group test was finished, but I suspect the Sigma's top end would give its own sibling a run for the money.

Sadly I can't raise the same enthusiasm for the Sigma's bass, which is lightweight and vague compared to those models mentioned above. When I say lightweight, I am describing its character as much as criticising. It doesn't suit my loudspeakers, which have an exceptionally dry bass, but they are the exception. Most larger speakers tend to be a bit fruity at the bottom end, and with such designs the Sigma should make a good match.

The price of bass?

The vagueness is the real problem as far as I'm concerned. Bass superiority, in terms of power, drive and authority, is probably the main reason why I've stayed loyal to Linn cartridges over the past couple of decades. This quality also distinguished Clearaudio's Signature; the Sigma simply doesn't belong to the same club. It has bass, to be sure, but it plays a subordinate role to the midband.

Perhaps it's something to do with the high level of internal damping, or maybe there are clues in the measurements of vertical and lateral crosstalk, which show some uncertainty around the 50Hz mark. Measurements also show that the Sigma's top end doesn't have quite the extension of the Signature; the high frequency resonance shows up at 12kHz rather than 14kHz.

Still, when you consider the Sigma is only a third the price of a Signature, you wouldn't expect it to offer the same level of performance. It's a very likable cartridge indeed, especially through the mid and treble, and if your system favours its tight, dry bass character. I don't have enough recent experience of other cartridges around the £500 mark to comment on absolute value for money, but Sigma certainly has enough of the Clearaudio midrange magic to secure it a place alongside the frontrunners.

Absolute Analogue 🕿 (01425) 654488

Write

HERE'S YOUR CHANCE TO STAND ON THE SONIC SOAP-BOX. COURTESY OF YOUR PALS AT HI-FI CHOICE

LETTER OF THE MONTH

Nature cannot be fooled

Your April edition was the first hi-fi magazine I have read for years, and although I am obviously out of touch with the latest developments in the world of sound, one thing does not seem to have changed. And that is the audiophiles' perpetual dissatisfaction with the equipment they own already.

A great deal of hype over new products appears to leave many listeners discontented with their systems, and obliged to buy the latest upgrade in order to secure a marginal, or perhaps imagined, improvement. Such upgrading will normally incur a substantial financial outlay; and in no time at all the new gear, just like the latest computer, will be superseded. The vicious circle begins again, particularly for those with more money than sense.

At what point does one ignore these reviews and start listening to music? After all, this is what hi-fi is purchased for. For most people with reasonably good or first-class apparatus, the advantages of upgrading are probably minimal, if indeed there are any advantages over and above aesthetics or status. Very nice indeed for dealers and manufacturers, but often quite unnecessary from the buyer's point of view.

It's just another example of artificially stimulating demand, using methods no different from any other industry. Cash in the dealer's hand: is hi-fi

P H Stones, Ipswich, Suffolk

understand how you can recommend this piece of equipment as "best ever". My son's Rotel 855 was more musical and the Teac and Audio Alchemist combination walks all over it. No contest!

I think you should be a bit more honest to your readers, or have your ears checked and try to listen to some decent equipment. Why not read the reviews in Stereophile and choose what's available? Or you're always welcome to come and listen to my system.

Also, Alvin Gold's comments on the Magnum Class A amp (HFC 175) were disgraceful. A friend of mine has this amp, with Rogers LS1 speakers, and the sound is wonderful. Alvin should stick to testing toasters and kettles - I don't think he likes anything unless it

comes from the **Absolute Sounds** stable. Why doesn't he try locking himself in a room with Densen and see how long he can put up with that sound? With a Magnum Class A you could listen to anything for days, and it wouldn't offend your ears. W Kayacan, Bristol

Alvin Gold replies... I could try reasoning with you on the basis of my track record, which should tell you I don't give a toss about names and reputations, only about how products perform on test. I might also draw your attention to the fact that my reviews have generally been favourable to Magnum products, with two

Recommendeds in three outings. You might like to know that I know nothing about toasters, though I admit to being a bit of

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Green piece!

The best letter every month wins a stylish Hi-Fi Choice polo-shirt. This fine example of 'audio couture' is offered in attractive green with a discreet logo. One 'large' size fits all. A definite talking point at the local



a whizz on kettles. I have reread the offending review carefully and can find nothing to suggest that you shouldn't enjoy what you hear. And regarding your comment that I only like products from the Absolute Sounds stable, this is demonstrably misplaced. Everyone knows I can't stand horses.

Phased and confused

Regarding the great 'phase linear' versus 'linear phase' controversy (Write On, 178), you may be interested in an advertisement in the USA's High Fidelity magazine of July 1972. The company in question was called

Definitely, maybe

Last week, going through your Best Buy '97 issue, I read the comments about the Acoustic Precision Eikos CD player. After reading the summarising sentence, "this is definitely a can'tlive-without-it product", I had to hear it in action for myself.

I arranged a demo with a shop that also stocked Dynaudio Contour 1.3 speakers and Bryston pre/power amps, which I have also always wanted to hear. Luckily the shop also had a Teac transport which I use, so I took my Audio Alchemy V.3 DAC and van den Hul interconnect cables.

upgrading an unnecessary expense?

All I can say is: what a load of rubbish. No detail, no depth! What I heard was the biggest disappointment — I can't



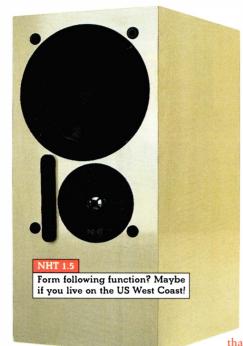


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Phase Linear Corporation, which promoted an amp called the Phase Linear 400. Still, at 700 Watts per channel, I suppose I wouldn't really have cared how linear the phase was! Stephen Smith, California, USA

We decided to nip this disagreement in the audio bud and call in the experts, in this case Dr I H Marshall, Associate Editor of Oxford English Dictionaries, who replied: "The construction 'linear phase' and 'phase linear' are both perfectly possible, but have different implications. 'Linear phase' is the ordinary collocation of linear as an adjective and phase as the noun which it modifies: it denotes a phase which is linear. It would in principle be possible to reverse these, using linear as a postpositive adjective, but this construction is almost entirely restricted to formal and archaic contents.

"The alternative possibility is that the adjective is not modifying the noun, but that the noun is modifying the adjective. In this case, 'phase linear' would be quite regular, but would mean 'linear with respect to phase.'

"If the use of 'phase linear' is in fact a formal reversal designed merely to make a particular product range sound exciting, and linear phase is in fact what is being described, then your correspondent (HFC 178) has a point."

Arty farty

Thank you and Paul Messenger for the review of NHT's 1.5

bookshelf speaker in HFC 177. I'm glad that Paul and the listening panel liked the speaker despite the odd shape and finish. The shape is based on 'form following function' and the reviewed sycamore finish, or mahogany high-gloss laminate, is available only for the angled line of products, ie, audiophile series. I agree with Paul that the sycamore fin-

ish especially needs some getting used to, but 80 per cent or more of our business is with the high-gloss black laminate finish.

Artsy folks tend to like the former. Plus, population near the coastal region in the US prefer this type of finish and most new houses built in the US tend to have white-wash wood finish trims and décors.

Eric Suh, Director of International Sales &

Rhythm but no blues

Marketing, NHT, USA

Mr Trevor Griffiths' letter (*Help*, *HFC* 177) and your reply to it, have great resonance with the hi-fi situation of my wife and I. We have had a life-long interest in music and owned a system which comprised a Naim Audio NAC72 Hi-Cap and Ruark Crusader 2 speakers, together with a Meridian 200/263 CD player.

I was recently loaned a 211 valved Gamma Acoustics Rhythm integrated amplifier, which I tried out with my Crusader speakers. What a jaw dropping experience! The sound and imagery were sensational. Acoustically, the speakers disappeared, leaving the impression of real musicians. Riveting stuff. What really surprised me was how good rock music sounded. The bass was solid and deep and it was so much easier to understand the singers. My wife and I sat up into the wee hours playing CD after CD.

Now the Naim gear is gone and the Rhythm is a permanent fixture. True, we have not got the absolute loudness that we had from the Naim rig, but the gains more than compensate for this. So my advice to Mr Griffiths is to give valves a try.

Another problem with audiophiles is that we forget exactly what we are striving to achieve. We recently attended a church concert in Piccadilly, London and were enchanted by the performance of music of Haydn, Schubert and Granados. The sound was crisp, powerful and alive. Hi-fi equipment has quite some way to go before it can recreate the sound of a concert grand in your living room! T Fox, Co. Westmeath, Ireland

Stand by your stand

I have long been interested in hifi and find it a rewarding and interesting hobby. Informative magazines like yours more than help to maintain this interest and do a wonderful job for new and old enthusiasts alike.

I recently became inquisitive about the advantages of equipment supports — in particular the Townshend support. I will, I suspect, be eternally grateful to magazines like yours for bringing this stunning hi-fi-enhancing accessory to my attention.

Place any piece of hi-fi kit upon it and the difference is clear. There is an incredible openness and realism about the stand. In addition everything seems so much more stable.

Equipment supports have the ability to make cheap hi-fi look expensive and expensive hi-fi look even better. But it's what they do to the sound that will have the true listener enthusiastic and eager to purchase.

So keep up the good work — informative comments on established and innovative products are greatly appreciated.

Colin Whiteley, West Yorkshire

We shall indeed endeavour to keep up our good work. As chance would have it, there will be a group test of equipment supports in the next issue of Hi-Fi Choice!

Boy power

I am writing in response to the article (*HFC* 179), written by Charlotte Ricca. Before I even started to read it, I knew that one of the first things I would read would be the word testosterone. What is the female fasci-

nation with this word, and what has it got to do with hi-fi? I have built up my system over a number of years, and every upgrade has been in the quest for an improvement in the sound. Also, I don't have a fixation with spinning vinyl.

And no, my wife will never buy hi-fi in our house, because of the "I can't tell the difference" syndrome. If I left it to her, I would be forced to listen to dreadful mini systems.

As for your statement about outdated images, when are women going to relinquish their outdated images of men? No, we are not all the same. I do not like football, or boozing in pubs, or beating up women, or making my wife's life a misery. I also cook, as can many other men, and we don't all go around calling women bimbos.

When women buy hi-fi it's for its looks, smallness and cuteness and not for its music. If you are going to have a woman writing in your magazine, could it be about music and hi-fi? Tell her to keep her opinions to herself. *Mr G Barker, Sheffield*

Charlotte Ricca responds... I'm wondering if in fact I have an alter-ego who coincidentally wrote an article in another hi-fi magazine which spoke of the connection between hi-fanatics and chauvinism. Maybe it is this feature that you are referring to, as I was simply questioning, as you point out, why women are more concerned with the aesthetics of hi-fi than with sound quality. However, I'm glad you make such a wonderful husband, and hold women in such high esteem — just as long as we keep our noses out of your hi-fi, eh?

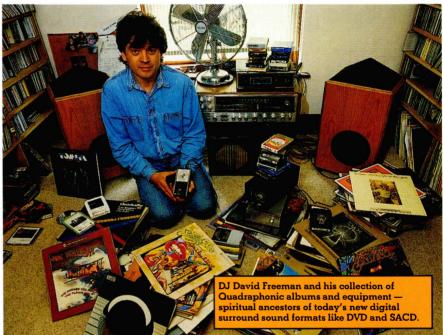
It's A Man's World



WHAT SHALL WE PLAY TODAY?

Don't worry if you're confused by HDCD, DVD and SACD. As numerous new music formats arise to challenge CD, **Alvin Gold** and **Tim Frost** are here to explain what all the fuss is about.





hen Compact Disc (CD) was launched in 1983, it was promoted by Philips under the slogan of "perfect sound, forever". Of course it wasn't perfect, and never could be, but that has not prevented the sales of 500 million players and 10 billion discs.

Designed as a standard just within the technological grasp of its launch era, CD samples sound 44,100 times a second (ie at a frequency of 44.1kHz), and each sample is allocated one of 65,536 possible levels (this figure, which is two to the power of 16, equates to 16-bit resolution). These specifications are sufficient to capture sounds up to just over 22kHz, over a 96dB volume range.

These figures were not plucked from the ether, but determined according to prevailing (if simple-minded) models of the human hearing process. The formal specification was encapsulated in what is known as the Red Book standard, and although improvements have always been possible, the fundamentals were effectively written in stone.

The pursuit of happiness

Over the years, almost every stage of the CD record/replay process has been enhanced. Dedicated transports extract a cleaner, less error-prone datastream, and digital filter algorithms have improved greatly. Some are designed to emulate the gentle slopes of analogue systems by 'inferring' information above the 22kHzupper limit from the music waveform below. (For example, Pioneer's Legato Link digital filter.)

At all times, though, the Red Book has remained inviolate, and compact disc has become accepted as a world standard. Not just for audio, either: in the guise of CD-ROM the five-inch disc has made its mark on the computer world.

One of the most radical enhancements to CD has been developed by the US-based company Pacific Microsonics, Inc. Its proposition, High Definition Compatible Digital (HDCD), is a package of companders, limiters and filters which are invoked according to a real-time analysis of the music signal dur-

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ing recording. Any actions taken by the system while recording are fully restored on playbackthrough a system equipped with an HDCD decoder. There is a large and growing number of HDCD-encoded recordings, and players like the new Arcam Alpha 9 (reviewed on page 10) are equipped to play them. See the Web site at www.hdcd.com for more information.

A bit on the side

There has always been unease about the ultimate sonic potential of compact disc, but it was in the professional studio world that the 16 bit/44.1kHz paradigm first came under real pressure. CD's 16-bit arithmetic has always been inadequate during mixdown, yielding aurally unsatisfactory results by the time feeds from several microphones have been positioned between two channels, and their levels adjusted as required.

In fact, it quickly became normal for mixing desks to operate at 24-bit resolution or greater, and to truncate the digital word lengths to 16 bits only when mastering, for example. The latest master tapes commonly use 20-bit word lengths, and many studios are now gearing up for full 24-bit resolution and 96kHz sampling frequency. (This means the sound signal is sampled 96,000 times per second, and each sample can be assigned one of 16,777,216 values.)

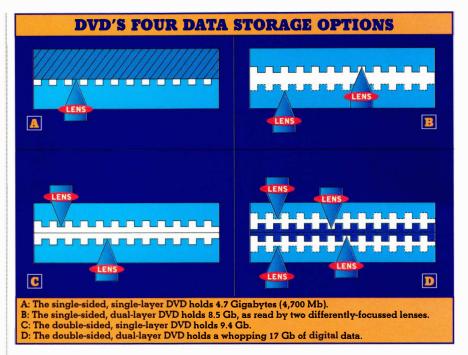
Probably the first product to raise awareness of improved resolution was Pioneer's D-07 DAT recorder (HFC 133). Its sampling rate was doubled to 96kHz for an audio bandwidth approaching 48kHz - when recording from an analogue source. DAT's 16-bit quantisation was retained, and the system became very popular in Japan.

Dawn of the new disc

Around the time Pioneer unveiled the D-07, in the mid '90s, the first foundations of the Digital Versatile Disc (DVD) were being laid. From two competing proposals (one Toshiba/Time Warner's, the other Sony/ Philips's), emerged a 'next generation' digital storage medium which would have the ability to handle multimedia data — sound and vision. The DVD standard turns out to be a family of standards within one.

To the world at large, DVD is a high-quality replacement for LaserDisc or even VHS tape, with enhanced picture quality, interactive control system, alternative languages





and subtitles, even various camera angles. The options of double-sided discs and multiple information layers increase data capacity and playing times (see box above).

Perhaps surprisingly, potentially very high quality, 24-bit/96kHz two-channel audio has been written into the specifications. DVD-Video is already equipped for a minimum of two and a maximum of 7.1 channels. (The '0.1' refers to a dedicated low-frequency effects channel, for use in home cinema.) Multi-channel sound is available via systems of 'data-reduced codecs' such as MPEG2 Audio, Dolby Digital and DTS, which are explained below. (A 'data-reduced codec' is a system of encoding and decoding a multichannel signal which takes up less storage space than all the channels together.)

Another option within the DVD spec is sound stored as a 'linear Pulse-Code Modulation (PCM)' data stream, like that of ordinary CDs. There is a choice of 16, 20 and 24-bit word lengths and 44.1, 48 and 96kHz quantisation. As you can see, DVD deserves its soubriquet as a 'versatile' disc.

Reduced for quick sale

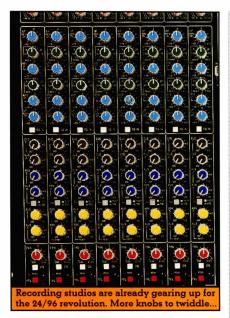
Data reduction is anathema to audiophiles, who can't stand the thought of throwing away sound information. The boffins can assure us that discarded information is inaudible, but it counts for nothing: the same was once said about audio information above 20kHz, not considered important for the good old-fashioned CD. Now there's a consensus that the lost frequencies above 20kHz do detract from audio performance.

Of the data-reduced codecs, DTS sounds best, mainly because it throws away the least amount of data. (Dolby Digital, MPEG2 Audio and DTS data rates on DVD are typically 384, 640 and 1,536 thousand bitsper-second respectively). While DTS might appear to challenge any DVD Audio format that emerges, the most recent auditions show that the most natural role for DTS is as a multi-channel home-cinema process.

In addition to being available as a movie soundtrack option on DVD, DTS is also available on some LaserDiscs and from CD-

Will discs operate in today's CD	Will today's CDs operate in players?
players?	for this format?
Υ	•
N	γ *
Υ	Υ
Y (2 channel mode only)	Υ **
Y (via digital output)	Υ
DVD-Video **	Y **
N **	Not known; perhaps in decimated (eg 2-channel) form
N	Y & DVD-Video players
	players? Y N Y Y (2 channel mode only) Y (via digital output) DVD-Video **

TECHNOLOGY: NEW DISC FORMATS



like discs which will play on any CD player provided they have a digital output to feed an external DTS decoder. DTS surround sound graces a respectable catalogue of encoded films, which have been produced in large numbers since Jurassic Park introduced the DTS system to the cinema world.

Music is less well served by DTS. Most early music discs were made from poor-quality, four-track masters dating from the '60s and '70s, often with each track pan-potted into one corner of the room, which made them sound ridiculous. Even recent recordings, such as the Eagles' Hell Freezes Over (available on 12cm CD-compatible and 30cm LD discs) are dogged by peculiar mixes.

Music for the Millennium

The first true high-resolution sound-system on the market is known as Digital Audio Disc (DAD). It is based on the 24-bit/96 kHz DVD Video standard, and was unveiled in our news pages of HFC 176. A token range of DAD discs is already available on the label of Classic Records, a US specialist in audiophile recordings. The discs themselves are drawn from the catalogues of various US audiophile labels. In the UK they are available from Vivante London — 2 (0181) 977 6600.

Other high resolution discs, not yet on sale in this country, hail from Pioneer. These are true 24-bit/96kHz digital recordings made using banks of 96kHz DAT recorders. linked together to generate the required word lengths, and fed by dCS 24/96 analogue-todigital converters. They are known as Advanced Audio Discs (AAD), and like DAD will play on any DVD player. However, most DVD players released to date don't offer digital-to-analogue converters (DACs) of 24bit/96kHz quality, and when faced with a 24/96 disc, such a player will reduce resolution to its own highest level.

Proposals for dedicated DVD Audio discs will be published shortly (see box overleaf). The current betting is that it will offer the same maximum resolution as DVD Video, but with an option of multiple channels, some possibly coded with a reduced word length. Like DAD/AAD it probably won't be backwards-compatible with CD players.

As with all DVD discs, DVD Audio will be constructed from two 0.6mm discs (half the thickness of CD) stuck back-to-back, to allow double-sided, extended playback. However, the laser optics specified for CD are designed for discs 1.2mm thick. There are two possible technical fixes: a disc substrate (manufacturing material) with a different refractive index, to bend the laser's light more; or a disc in which one half-thicknessdisc is reversed. More about this below.

If neither fix is implemented we will be stuck with two very different types of disc: CD and DVD-A. As a consequence, record shops and music buyers will have to cope with two sets — or 'inventories' — of prerecorded music discs.

Superaudiofragilisticism

Enter stage right another 12cm-diameter disc proposal, aimed at the same 'CD replacement' market. This is the Super Audio Compact Disc (SACD) from the Sony/Philips stable, which is positioned as a competitor for DVD-Audio, and was previewed for readers in HFC 175. SACD is not a DVD variant, but a completely new music storage format using Sony's DSD (Direct Stream Digital) coding. This process uses a one-bit data stream and was originally designed for archiving of master tapes.

SACD employs one-bit processing with 64-times oversampling, to deliver a claimed 120dB dynamic range (lower than DVD-A or AAD/DAD), but a frequency response of over 100kHz (better than the opposition). This applies to a two-channel signal recorded without data reduction, but the same specs are available for a six-channel signal stored via lossless compression.

On the back of the disc there is a fullyreflective data layer which should be readable by any ordinary CD player. This is covered by a semi-transmissive layer containing the high-density, high-resolution data. An SACD

CAN SURROUND SOUL

n a live concert, we hear not only sound waves radiated from the instrument of performance, but also delayed ambient reflections from all directions, which have characteristic timbral and other variations. Combined, these weave the rich tapestry of sound that a live performance can provide. Reproducing this "all around sound" through two speakers inevitably diminishes the effect, adding muddle and constraint.

Quadraphonic audio was a four-speaker system introduced in the '70s, with high hopes of enlivening recorded performances. It failed ignominiously, thanks to its engineers' incomplete understanding of the psychoacoustics involved, and the limitations of existing reproduction technology, in particular vinyl LPs. That said, some of the core ideas from quadraphonic systems were reprised in the Dolby Surround home cinema system. Ambisonics was a much more sophisticated system, invented by the late Michael Gerzon, a distinguished recording engineer and mathematician. By use of a special microphone called the Calrec Soundfield microphone, Ambisonics aimed to reproduce any point in an original soundfield — in three dimensions if so desired!

Now multi-channel audio has made a strong comeback in the various 5.1 and 7.1 channel

surround-sound systems developed primarily for home cinema but holding out the promise of a new approach to music.

There is no consensus view on whether multi-channel operation is desirable for audio, but my personal view is that it is a

necessity, and that so much reproduced audio sounds artificial precisely because two-channel stereo is so at odds with what we hear in real life. When sound is recorded effectively in multiple channels, and reproduced with equal aplomb, it embodies a presence, vitality and complexity not available otherwise. Above all, it makes life easier for the listener

 perhaps because it presents sounds the brain instinctively recognises as real. AG



1970s music, 1990s DTS surround sound (left)

Millennium's 2.4.6 decoder brings DTS music surround to the living room. (See p16.)

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player can focus on the semi-transmissive layer to read the 'full specification' code.

If the technology works, SACD will be a powerful contender, since existing CD users need not buy new hardware to enjoy the discs. Furthermore, the digital datastream closely emulates an analogue waveform, greatly reducing the amount of processing required to turn digits into music.

However, though SACD proposals include powerful new anti-piracy measures, on the minus side recording studios will have to spend substantial amounts re-equipping for recording and mastering. Also, compatibility with DVD players is largely unknown.

What's going on?

At the time of writing, SACD and DVD-Audio remain just good ideas, but DAD/AAD discs exist along with the DVD-Video hardware. The latter, as reviewed on page 46 of this issue, are mainstream models constructed from low-cost components, to be priced comparably with the better massproduction CD players. Will it be feasible to use them in high-quality audio systems, either as sold, or with a quality bolt-on DAC?

It seems like an innocent question, but



what a can of worms awaits those who seek to give an answer. The problem is that the digital outputs on most DVD players (be they optical or electrical) reduce an output datastream to 20-bit resolution, and downsample to 48kHz maximum, limiting the sound enhancements an outboard DAC can bring.

Worse still, this is not because of any failing in the S/PDIF digital interface standard, but rather as a sop to the music industries, to frustrate those who would copy highquality 24-bit recordings. Indeed, Pioneer produces integrated circuits with the fullquality S/PDIF receiver and transmitter hardware, and two of their players (tested this issue on pages 49 and 50) output the full 24bit/96kHz from their digital outputs. Why can't every player do the same?

DVD and SACD, like CD before them, employ all the technological resources available. Much of the technology was developed originally for the computer industry. The new formats have been driven by the availability of higher-density, more powerful, yet cheaper integrated circuits (ICs), and by comparable advances in disc manufacturing and laser optics, DSP and digital filter technologies, as well as conceptual improvements in the understanding of human hearing.

Revolution song

Will DAD play the Moses role? Is it destined to lead the recorded sound industry towards a new, revitalised age, without partaking of the spoils of victory? We cannot know at present. However, a bright future now looks assured for the kind of recorded sound for which most audiophiles and music lovers would gladly remortgage their homes.

Future issues of *HFC* will investigate the potential impact of music software stored at 24-bit resolution and sampled at 96kHz. However, the question remains: is a presentday DVD player an appropriate purchase, given the current state of the art? For many videophiles, this will be a non-issue, as the range of native DVD titles is still limited. The main criterion for audiophiles, on the other hand, must be a DVD player's performance with CD — a genre of software which is most abundant. Turn to p46, where our DVD group test aims to provide the answers.

THE PAINFUL BIRTH OF DVD AUDIO BY TIM FROS

he draft specification for DVD-Audio should be emerging this summer and the early indications are that DVD-Audio's specifications will follow in the footsteps of DVD-Video, with a few important variations.

DVD-Audio will take on the basic principles of the DVD-Video format, which means: high capacity; the ability to store music, video and PC software on the same disc; and ensured full interchangeability between all types of DVD discs and all types of DVD player.

To this will be added some new features demanded by the music industry. Perhaps the most talked-about feature, likely to be included as an option, is the dual-layer disc with separate CD and DVD lavers.

Thus one disc can be played on any CD player as normal, or on a DVD player to get higher-quality stereo and multi-channel sound, plus access to any additional video and data

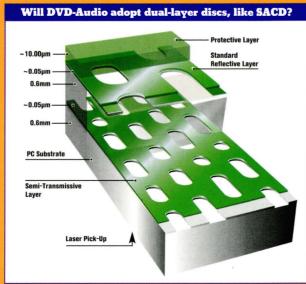
The CD/DVD compatible disc has been the main plank of the Sony/Philips Super-Audio proposal, to allow record labels to produce a single version of an album rather than separate CD and DVD versions.

Dual-layer won't be compulsory though, and the CD/DVD option is unlikely to be taken up by many record labels in the early stages of DVD-Audio. Mastering and pressing a combined CD/DVD disc costs around 10 times more than for CD, and that is too much additional cost for a mainstream album where nearly all the buyers will be using CD players. So for that purely economic reason, record labels will still be majoring on CD albums and releasing separate DVD versions.

Another key difference in the DVD-Audio specification is that it standardises audio in multiples of CD's 44.1kHz sampling rate (44.1kHz, 88.2kHz and 192.4kHz). DVD-Video, meanwhile, offers only 48kHz and 96kHz sampling rates. An album mastered for CD must have its sample rate converted, in order to be released on the DVD-Video format. This

process is not absolutely transparent, so DVD-Audio makes for bettersounding discs.

While the differences between DVD-Video and **DVD-Audio** may be minor, the latter's advantages over CD are dramatic. Not only does it break the 16-bit barrier, it also extends sampling frequencies up to 192kHz. It adds multichannel sound (love it or loathe it) and stores video, data and hyperlinks to Web sites truly catapulting albums into the digital age. Tim Frost edits the newsletter



DVD & Future CD

Helps

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Jason Kennedy is here to answer your hi-fi queries!

Query of the month

Round the clock

I have a Nottingham Analogue Spacedeck turntable, Space Arm, Tracer II cartridge, Marantz CD-63SE CD player, Audiolab 8000A and Mission 751 speakers connected by Audioquest Indigo II speaker cables.

I acquired the Spacedeck on the strength of your review back in 1996, and have not regretted my investment. Since then I have spent many hours going through my record collection and I am in need of some advice about the cartridge.

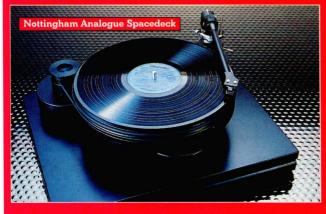
I have estimated that the Tracer II has done about 1,000 hours. I approached a number of dealers in Sydney and they gave conflicting advice regarding the need for a replacement.

I was happy with the sound from Spacedeck but as you may well appreciate a Notts Analogue cartridge is not available locally in Australia; and with the current exchange rates and import duties it is very expensive to have one sent from the UK at this stage.

I have shortlisted the Denon DL-304, Sumiko BPS, and Ortofon MC10 Super as they are readily available in Sydney. I would be very grateful if you could advise me on the number of hours a cartridge should be used for, and the compatibility of the cartridges I have shortlisted for my Spacedeck. Alan Olan, Sydney, Australia

Here's advice straight from the "horse's mouth": Tom Fletcher, the proprietor of Notts Analogue, to be more precise. A cartridge needs to be checked for wear at around the 500-700 hour point. This would suggest your replacement is well overdue. He also says that he can supply you with a cartridge "direct" at a price that will offset the costs at your end. Can't say fairer than that, guv!

As an alternative, the Denon DL-304 cartridge is known to work very well with the Spacedeck, which itself recently won the coveted Component of the Year award from Japanese magazine Stereosound. The only question left to ask is whether you might consider a more exalted m-c phono stage — the best ones aren't usually found inside real-world integrated designs like the 8000A.





Wire ways

My sources include a Michell Gyrodec/RB300 arm/Audio Technica AT-OC10 cartridge, Meridian 508 CD (not 20 bit) with Monster Interlink, Hitachi FT-5500 tuner with Tandy Gold Patch interconnects, and an Aiwa AD-WX929 cassette deck. My amp is an Audio Analogue Puccini SE, while my speakers are Castle Chesters. Speaker cable is Cable Talk 3.

I wish to purchase a good quality interconnect for my CD player, up to around £100, and I want to replace my speaker cable. I have tried some DNM Reson and was quite impressed. However, is there any other cable you would recommend costing up to around £15 per metre? I require around 15 metres bi-wired. Chay Carle, Peterhead, Scotland

Where would today's enthusiast be without good-quality cables? In the world of professional recording studios balanced connections are the norm, where both sides of a signal path 'float' within a shielded 'screen' conductor. Studios seem to get away with basic wire because of balanced mode's immunity to noise, and its standardised source and output impedances resulting from the transformer coupling of signals. In hi-fi, where the norm is for single-ended connections (one side of the signal chain doubles as the screen), we have to deal with unpredictable input and output impedances which keep us running around in circles.

When making recommendations we prefer to stick to brands that have proved their worth with a variety of different components, and thereby to reduce the chances of potential cable mismatch. To this end consider Kimber Hero, van den Hul D102III and Eikos interconnect with Ortofon SPK300, Hitachi OFC or Goertz M1 speaker cables. DNM Reson is also good but its resistance might be a little high over a 15-metre run.

Complete revamp

My current system blends old and very old components: Marantz 2226B Receiver (about 18 years old), Pioneer PL-516 turntable, Tangent TM1 speakers, Aiwa AD-F770 tape deck and Rotel RCD865 CD player.

After purchasing your magazine for the past few months, I've decided that a complete revamp is long overdue. I've decided to replace all components apart from the tape deck (that can wait until later). By the same token I'm not too fussed about replacing the turntable.

My budget is approximately £3,500. My current thoughts are to listen to the Audiolab 8000S/8000T combination. Any other suggestions? Does a pre/power amp combination have any advantages over an integrated amp? I'm not sure where to start with speakers although my listening room is quite large, so I would prefer floorstanding speakers. As far as CD players go, I've been considering the Arcam Alpha 8SE. Edwin Elder, Hornchurch, Essex

A revamp does seem appropriate and with your budget you should be able to get something pretty serious. As chance would have it we reviewed what might be an ideal complete system in HFC

Qualified guestions

My system comprises a Sony CDP-397 CD player, Sony STR-D311 receiver and Sony TCK-611S cassette deck. I purchased these items second-hand 18 months ago, and I have no knowledge of their worth. My newest component is a Technics SL-1200LTD turntable which has a Stanton DJ PRO 500AL cartridge.

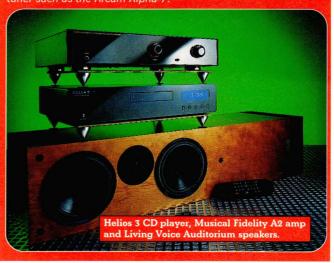
I also have on loan a pair of Mission 734s with Bandridge Superflex LP7251X speaker cable. Although these sound good I think the Mission 752 Freedom and Linn Keilidh were the best floorstanding speakers in that price range. The chosen speakers must work close to a wall. I would also like to change the CD player and amp, if necessary, along with the interconnects.

A J Good, Calverley, Leeds

Mission 752 Freedom

You would do well to replace the CD and amp at the same time as selecting new speakers, since then you will hear the complete system and this will make auditioning much easier. As you don't indicate a budget, use our Directory (p114) in conjunction with a dealer's suggestions, and listen to a variety of options that suit your pocket. Try to listen at the same sort of volume level that you would use at home. Most systems sound impressive when played loud, albeit usually only initially Don't consider cables and supports mere accessories: they are an intrinsic part of the package, and while there are fine products available at bargain prices, wires should be chosen en masse with the rest of the system.

177, which comprised Helios 3 CD player, Musical Fidelity A2 amp and Living Voice Auditorium speakers (reviewed this month on page 85). This synergetic combination was lashed together with cables and supports from Definitive Audio, Nottingham, and it blew away our reviewer Alan Sircom. If you purchased it with less ambitious mains and interconnect cables than the ones we used, there should be enough left in your budget for a decent tuner such as the Arcam Alpha 7.



Take Five

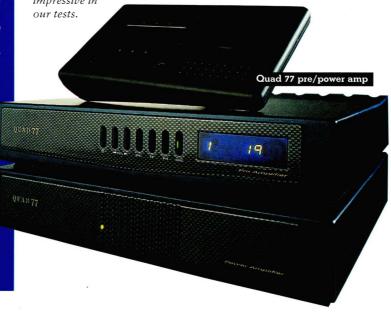
I have Quad 34/405II pre/power amps, Sony CDP-X3000ES CD player and a pair of Mission 764 floorstanders. The CD player was added recently and made a big difference to the overall sound. My problem is not knowing what to change next.

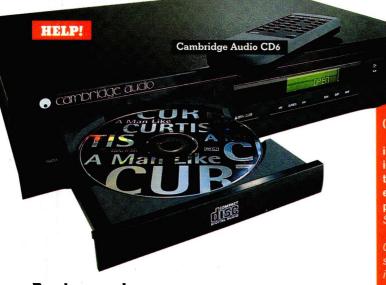
Both amp and speakers are due for a change, but which first? I like a solid, weighty sound with clarity and detail. I've considered Mission 752F, KEF Q55, B&W CDM1 and AE120 speakers, with Quad 77 or 707 power amps, 77 integrated and Marantz PM-17 amps. Any suggestions?

David McLeish, Dundonald, Ayrshire

You are correct that to get the best from the new CD player, both speaker and amp need to be upgraded. Instinct suggests the speakers, but further reflection counsels an amp designed to take the relatively high output of modern CD players. To this end we'd suggest your first step should be a new preamp: Quad's 77 would probably fit the bill well.

There are plenty of speakers to choose from, but from your shortlist the Mission and B&W hve proved themselves the most impressive in





Regular upgrades

I have a Sony CDP-470 CD player (Cable Talk Monitor 2.1 interconnect), Sony ST-361 tuner (Cable Talk 2 interconnect), Onkyo A-8200 amplifier. For private use I use Acoustic Energy AE109 speakers and Cable Talk Talk 3.1 speaker cable, with Sennheiser HD 560 Ovation II headphones.

I'm extremely happy with my system but I like to upgrade part of it about once a year. Recently I bought the AE109 speakers, but now I would like your advice as to which part of the rig — CD player or amp — I should upgrade next. I am thinking of spending about £200-300 per unit.

Ron Huisman, The Netherlands

We haven't tested your present CD player and amp, so it's difficult to know which should be supplanted first. In general, however, a source upgrade is always the first logical step. The best options in your price bracket are the Arcam Alpha 7, Cambridge Audio CD6, Denon DCD-1015, Marantz CD-67SE and the Sony CDP-XE900E. The availability (or rather, lack) of these products in Holland may form the first level of selection criteria and thereby make the buying process more manageable.

When you come to upgrade your amp, the tricky matter of speaker matching becomes an issue, and when choosing this component we would recommend you always audition with your own speakers. Our shortlist would include the harman/kardon HK620, Magnum IA170, NAD 314 and the Sony TAF-448BE. If you can stretch the budget a little, your efforts would be well rewarded by a Pioneer A-300R Precision or Cyrus SL.



The right connections

My system comprises Marantz PM-66SE amp, Technics SL-PG480A CD player, Yamaha DSP-E492 surround amp, Sony CD player, Panasonic LaserDisc player, Mission 732i (front speakers), Mission 73C (dialogue), and JPW ML310 (rear).

I am thinking of upgrading my speaker cables and interconnects. My budget for speaker cables is around £6 and interconnect around £30. Which products can you recommend that will give a very good bass, treble, detail and open expression? My taste in music includes modern jazz, slow rock, pop music and classical.

Suhaimee Mahdar, Milton Keynes

Our sister publication, Home Entertainment, specialises in surround sound systems and concurs with us that QED Qnect 2 is among the best interconnects at the price-point you mention. As for speaker cable, where we assume your budget is per metre, the models that are rated by both publications include Gale XL315 and Cable Talk Talk 3.1. Given the lengths of wire needed for the average surround sound system, inexpensive cables such as these are presumably welcome news.



Guitar based jazz. Nice...

My current system consists of a Marantz CD-63 KI Signature, Musical Fidelity X10-D, a pair of Musical Fidelity P140 dual mono power amplifiers, a QED SDR passive preamp, Mission 733i speakers, Cable Talk Monitor 2 interconnects and 3.1 biwire cable.

I would guess that the weak links in my system are the preamp and speakers, and therefore I would be grateful for your advice on potential upgrade routes. I am looking for excellent sound-staging, clarity and timing. Because I have a young family, I also need my system to work well at relatively low volume levels. My room measures 15ft by 11ft, with the speakers firing across the narrower dimension. I have a budget of £500 and would not mind buying second-hand.

My musical tastes are baroque classical, pop and guitarbased jazz.

Richard Hall, Norwich

We would agree with your analysis of the limiting components in the system, but it may be difficult to replace both preamp and speakers with genuine upgrades, within the budget you specify. We suggest you try a Musical Fidelity X-PRE or a second-hand Audio Innovations L2 to replace the QED, and then save up a little more for a distinctly better speaker such as a B&W DM603, Royd Doublet or Dali 104B. In the meantime you could try a set of Electrofluidics or Goertz speaker cable to add clarity and depth to the proceedings.

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The grand plan

My Rega Planet CD player runs through a Cyrus One mkII into Royd Minstrel speakers. LFD Spirolink 1 interconnects and QED Profile cables link these components. I enjoy the clear musical quality of the system and the detail it provides.

Upon approaching my hi-fi dealer for advice on upgrading the amp, he recommended that I spend at least £800 to gain a noticeable improvement in sound quality and detail. This would take me into the league of Naim Nait 3Rs and the like. However, I could spend up to £1,200.

The prospect of a pre/power amp combination is intriguing, yet what benefits should I expect from a pre/power combo over an integrated amp of similar value? And what amps would you recommend, in either pre/power or integrated forms? I plan to upgrade the speakers in about one to two years, but would it be wiser to look at upgrading now?

Ross Bennie, Christchurch, New Zealand

We believe your proposal will give a tighter, more detailed sound with more power on tap but fundamentally the same type of sound. We agree with your dealer's advice to set aside money for a speaker upgrade sooner rather than later. However, make sure you assess the alternative strategies now: you may be inclined to get a better amp and live with the system imbalance until you can afford bigger speakers.

The difference between pre/power and integrated amps depends on the type of sound you seek. If you desire something in the Naim or Rega vein then pre/power is the only upmarket option, but if your tastes are more Continental European, other interesting options include the Electrocompaniet ECI-2 or Copland CSA-14. Yet again, you might consider investing in an integrated amp which can be upgraded with a power amp at a later date. An ideal example of such a beast is the new Arcam Alpha 10/10P reviewed on page 138 of this issue.



California searching

I have been to several dealers and have listened to several CD players. So far, I have been quite impressed by the Marantz CD-63 KI Sig. But recently I was introduced to a California Audio Labs DX-3, which sounded at least as good as the Marantz, and here in Barcelona it is a bit cheaper, too.

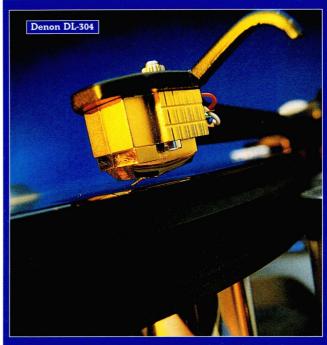
What worries me is that I have found no reference to this marque in several specialist journals, including French, Italian, British and of course local publications. Who is this company? Are its products trustworthy? To go by my ear and wallet, the DX-3 should most certainly be short-listed. But should I take one home and cross my fingers that it will last? Vilanova-Karlsson, Barcelona, Spain

California Audio Labs is an American company that has been making CD players for over 10 years. It has a web site at www.calaudio.com. The brand has not featured in HFC of late due to a lack of UK distribution, but in former issues we commented favourably on CAL's pricier transport/DAC combos.

CAL's web site makes no reference to the DX-3, but does give specs on the DX-2 which possibly has replaced the DX-3.



Certainly as far as reputation is concerned, you can buy CAL with confidence.



The famous four

I mostly listen to LPs and own four turntables to use with a Rogers E-20a amp and LS3/5a speaker combination. Most of the time I use a Thorens TD-150mk2/Decca London International/ Grado Platinum Wood, or a Transrotor Classic/SME 3009mkII/Linn K5, connected via the Creek OBH 8 phono stage. To complete the picture I have an Accuphase T-101 FM tuner, Revox B-77 open-reel tape recorder and T+A CD-player. I love this system very much and I am convinced that it

> serves me best in my little dedicated listening room. I would like your advice concerning the choice of a moving-coil cartridge for the use in the Transrotor/SME combination. Should I go for a high-output m-c or try a low-output design with another phono preamp or a step-up transformer? Is the latter available for a budget of around £500? Holger Trass, Ruesselsheim, Germany

We'll resist wondering why you have four turntables and applaud one of the more interesting systems to appear in Help for some time. You'll need a high-compliance cartridge to match the arm, which means most of your options are moving-magnet designs — there is a small selection of m-cs. The choice that comes to mind is Denon's DL-304, a lovely high-compliance m-c at a very reasonable £200. Alternatives for a deeper pocket include the van den Hul Frog, a very sophisticated m-c that ignores surface noise and gets to the music every time.

Global equality?

I brought a Marantz PM-63 amplifier in February, and have just bought a Hi-Fi Choice of the same month here in Mauritius. However, your Directory does not list the PM-63. Does that mean it is unavailable in the UK, or is it sold as a different model? Also I was wondering why equalisers are not listed in the Directory. Arjun Sarup, Quatre Bornes, Mauritius

According to our information, Marantz does not sell the PM-63 in the UK. We have PM-47, PM-57, PM-66 and variants thereof, PM-17 and variants thereof. You could try the Marantz Web site (www.marantz.com) for more info.

The reasons we do not list graphic equaliser separates components are twofold: we consider them deleterious to sound in an audiophile hi-fi context; and there are very few models available or actively promoted in the UK.



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IN A HURRY? CALL THE CREDIT CARD HOTLINE NOW ON 01454 620070

Look Mother, I'm skippin'

I wonder if you can clear up a point for me. I refer to your excellent write up (HFC 179) on the new Philips CDR. You mention that the CDR870 had a problem with 'jitter'. What do you mean? The problem is that I am now on to my second CDR870, as the first had problems (in a word — skipping); but is this what you describe as 'jitter'? Also, if I read your article correctly, and Philips has released the '880 to iron out problems with the '870, is it offering an upgrade that you know of? Ray Wagstaff, via e-mail

Jitter is not the same as the problem you describe, for which the technical term is probably 'skipping'. Jitter is a problem within a CD player's digital circuits, whereby the edges of digital signals

Philips CDR880

PHILIPS
COMPACT DISC RECORDER CORNES

CONFERCT DISC RECORDER CORNES

Avoing an adverse effect on the accuracy of digital-to-analogue conversion. Skipping is a

accuracy of digital-to-analogue conversion. Skipping is a problem with the CD player's transport mechanism, where the laser pickup has trouble reading information from the disc.

We are not aware of Philips offering an upgrade from the CDR870 to the CDR880, but for clarification we suggest you call the Philips Consumer Information Centre on 2 (0181) 665 6350.

HINTS AND TIPS

WE GOT THE POWER

JIMMY HUGHES REPORTS ON A MAINS POWER CONDITIONER WHICH IMPROVES CLARITY AND REDUCES NOISE.

leaning up the mains supply with a power conditioner should make your hi-fi sound better, and improve the picture quality of home cinema systems, making both more consistent from day to day. The appeal for the enthusiast wanting top-class results is obvious. Yet power conditioners I've tried in the past have been a mixed blessing. You may get cleaner treble and reduced high-frequency

'hash', but often at the expense of clarity and dynamics — in the process of cleaning up the sound, there's a loss of immediacy and separation that makes the music seem slightly damped and constrained.

So I was intrigued to try the Power Wedge 216p, second from top of a range of mains conditioners from California-based Audio Power Industries. It aims to cleanse the mains voltage of spurious noise, individually isolate each component from its companions so

that self-created mains noise does not interfere with performance, provide surge protection against mains spikes, and protect low-level source components from the adverse effects of large amplifiers drawing heavy current that distorts the mains waveform.

The 216p has three paired transformer-isolated sockets (six total) for low level components, plus four heavy-duty sockets intended for current-hungry items like power amplifiers. One of the six isolated mains sockets has reversed polarity, and it's intended for you to experiment with digital products here to see if any audible difference occurs. Non-reversible US 3-pin sockets are used for all high-power outputs, while the mains input is via

a 3-pin IEC socket. Each pair of low-level outputs is separately fused, and the high level outputs are protected by a circuit breaker that shuts off power in the event of a serious problem.

Audio Power Industries claims the various Power Wedge models give identical performance, the only difference being the number of sockets offered. The 216p is probably sufficient for most, but for owners of big A/V systems the

massive 2118 with 18 outlets is recommended. Incidentally, each pair of low-level outlets can deal with components having a maximum combined power

consumption of 120
Watts, so the
majority of CD
players, DACs,
VCRs, preamps,
tuners, and
cassette decks
present no problem.
If desired, it's
possible to use more
than one Power Wedge.

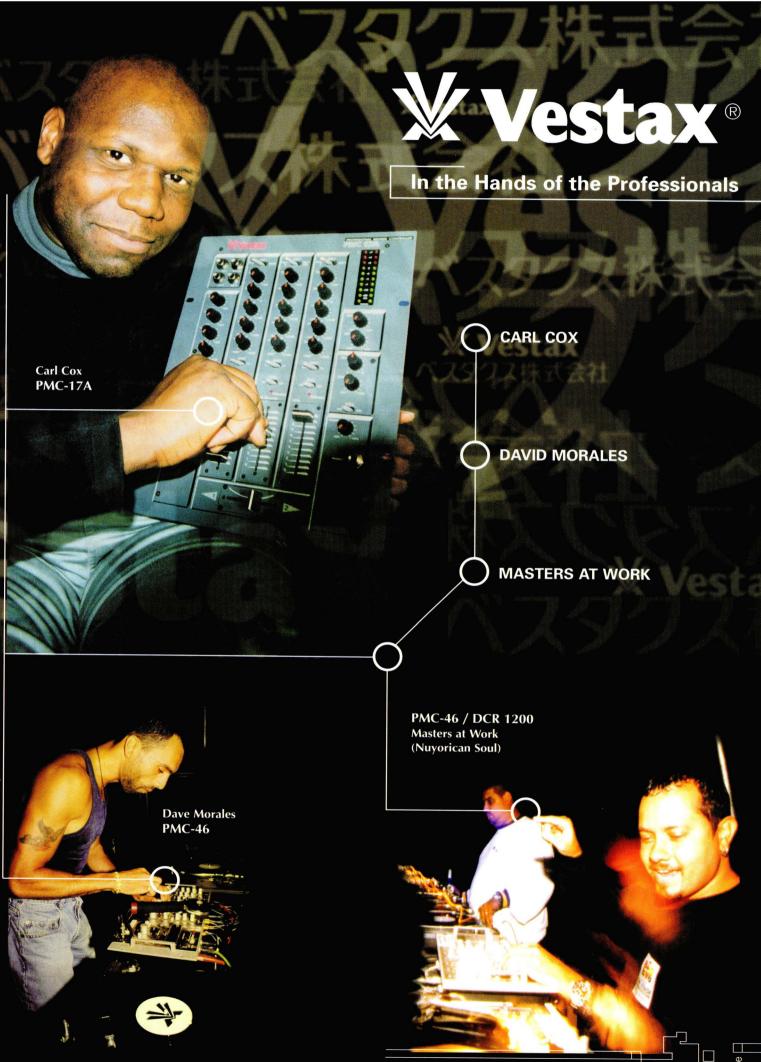
Subjectively, the Power
Wedge cleaned up the sound,
removing glare and edge so the
music sounded cleaner and more
detailed, smoother and more refined. There

seemed to be no adverse effect on dynamics; indeed, the sound was more dynamic, with loud passages projecting cleanly from an inky-black background. Overall the sound seemed much more natural.

The 216p costs around £750, so it's not exactly cheap. But it does produce worthwhile sonic gains, protecting your equipment from dangerous mains spikes as well as improving consistency. Mains pollution is a serious problem, limiting the performance standard of any system. Power Wedge is an excellent investment, enabling your equipment to deliver its full potential Audiofreaks 2 (0181) 948 4153.

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Amplifier input tweaks, outed by JH.





FORCE 10 FROM WORTH WORTH EI,400!

WIN SUPERB ARCAM PRE/POWER AMPS AND AUDIOQUEST INTERCONNECTS WORTH £1,400!



rcam's new Alpha 10 amplifier scales new heights of sound quality, user-friendliness and upgradability. The Alpha 10 delivers 100 Watts per channel of power (RMS). Read all about it on page 138 of this issue!

At the heart of the amp is a new microprocessor circuit, which monitors output to avoid overload. And it keeps the user up to date with a dot-matrix display revealing sources playing and being recorded, volume level, and the latest remote-control command. The front panel features a smart rotary selector, which can adjust volume, balance and other parameters.

The 10 is fully upgradable, with an optional m-m/m-c phono stage, and there will be a series of plug-in modules. The first two are a multi-room distribution card and a home cinema processor which adds Dolby Digital AC-3 compatibility.*

The 10P 2x100 Watts power amp is the ideal partner for the 10. For home cinema it can provide a third channel to yield a five-channel 500 Watts surround system – or for hi-fi it promises a top-notch 400 Watts bi-amped system for appropriate speakers.

Add in vibration-dampening feet, a custom aluminium chassis and die-stamped aluminium covers, and you have the consummate British amplifier. Supplied with a one-metre pair of AudioQuest Jade interconnects worth £30, our prize will be ready from the word go!

* Modules and phono stage not included.

CONGRATULATIONS TO THE WINNER OF OUR APRIL COMPETITION!

The correct answer in the Vestax competition was: d) Active Audio. The winner is: J MacLauchlan of Somerset.

HOW TO ENTER

Answer the question below by circling the correct answer, then fill in your name, address and daytime telephone number in the spaces given below. Please remember to tell us whether you are over 18 years of age.

POST THIS ENTRY FORM TO:

Hi-Fi Choice Competition (CHFC807A) Bradley Pavilions, Bradley Stoke North, Bristol BS12 OBQ

All entries must arrive by First Post, Thursday August 6th, 1998.

THE QUESTION

What is the new feature of the Alpha 10's front panel?

- a) Smart dressed man
- b) Smart rotary selector
- c) Smart rotary trimmer
- d) Rotating Smartie selector

YOUR DETAILS

Day-time Telephone Number _

- Please tick here if you are under 18.
- Please tick here if you do not wish to receive any further information about other products or services.

Please tick one only of the following:

- ☐ Are you a current subscriber? OR
- ☐ Are you a regular reader? OR
- ☐ Are you an occasional reader?

COMPETITION RULES

- The Closing Date for this competition is Thursday August 6th, 1998
- Winners of the Arcam Competition will be judged from all correct entries submitted, and drawn at random after the Closing Date.

Winners will be notified by post.

- The Editor's decision is final and no correspondence will be entered into
- The Arcam Competition is not open to employees of Dennis Publishing Ltd, A&R Cambridge Ltd, nor their suppliers, agents or associates.
- We regret this competition is open to UK residents only.
- No cash alternatives will be offered.
- We reserve the right to substitute alternative prizes with equivalent value to these shown, in the unlikely event of stock being temporarily unavailable.
- By entering the competition you agree to be bound by the rules.
- All entries must be on this official entry coupon. If you do not wish to cut your magazine, you may send a photocopy of the page instead. Please note: only one entry form per household.

CHFC 807A

Spirit of spirit

Alan Sircom investigates high-tech FM radio solutions from Magnum Dynalab — and finds both price and sound most attractive!

i-fi has forgotten its roots. In the golden days of audio, rare was the enthusiast who didn't have a state-of-the-art tuner in the hi-fi system. Today, that component has been largely overlooked: the most popular UK model is a £120 product that would have been discontinued long ago if it were not so popular.

A few specialist tuner companies survive to buck the trend. One of them is Magnum Dynalab of Canada, which produces high-quality FM kit to a standard that's rare these days. The £795 FT-101A is a perfect example: it has no presets, and definitely no Radio Data System (RDS). Instead, it's a basic FM-only tuner that looks (and behaves) like a

piece of lab gear. There is a profusion of buttons and VU meters on the front panel, which is supplied in a shade of black as standard. though for £100 more it can be silver or, as illustrated here, gold-coloured. To the left of the panel is a power toggle switch, and then a vertical array of four more big paddle-toggle switches. These control the tuner's mode (either stereo or noise-busting mono), IF band (to control the selectivity, removing any nearby pirate stations if needed), blend and a muting function. The blend function allows the tuner to sample the signal strength and reduce the stereo separation to help eliminate noise. Mute, in this case, is not simply an attenuation of the signal, but serves as a noise threshold, to keep the tuner quiet while changing channels. Add to this a nice old-fashioned big tuning dial and all the hard-core tuner fanatic bases are covered.

This tuner has no less than five forms of display or tell-tale. Apart from the regular green frequency-LED readout, and red LED stereo beacon, a trio of illuminated VU meters tell you what is happening to the signal. To the left is a multipath meter, on which the aim is to achieve a zero reading. Multipath distortion is when parts of the FM signal bounce off buildings and other large structures, causing distortion in the process. The rightmost meter measures signal strength, although formally it is said to measure RF Input. Spinal Tap fans will be disappointed that this meter never exceeds 10,



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let alone 11, as the meter is buffered to prevent damage from extremely strong signals. In the middle is a finely-calibrated VU meter, which allows very precise adjustment of tuning frequencies. According to the manufacturer this permits much greater accuracy than any automatic fine-tuning system.

The refreshing wind of anachronism

As we stand on the precipice of digital radio, this tuner comes as a refreshing blast of anachronism. It's among a handful of tuners on the market which do not employ FM synthesis, which uses a microprocessor chip to lock up with a radio station's signal. The Dynalab lays all responsibility for tuning decisions with the user: either hit a broadcast signal spot on for maximum stereo, at the expense of the noise floor; or detune slightly for less noise, but decreased stereo.

It's the ideal solution for control freaks, but there are prices to pay: analogue tuning systems take at least 15 minutes to settle down after being powered up, and there is never an option for labour-saving remote controls, preset stations or other such ephemera of convenient modern living.

The lack of presets can be a real inconvenience, especially when your favourite stations are at opposite ends of the tuning dial. But to include them in such a system would entail an FM synthesis front end, and would thus sacrifice the entire raison d'être of the FT-101A. Instead, with an ingenious stroke of lateral thinking, Magnum Dynalab has devised the £395 FT-R infra-red remotecontrol system, which comprises a standalone mains-powered box (connected to the FT-101A via DIN cable), and a chunky remote handset. This unit holds details of five preset stations in memory; switching from one to another has the proxy effect of your hand on the tuning dial. The remote also

E'GAD, HOLMES!

The FT-101A is a sensitive device, but still needs a good aerial to give of its best.

Traditionally a quality 'twig' such as this has been a roof-mounted antenna, consisting of seven or more elements, and directed at the nearest broadcast transmitter.

To install an aerial is not problematic unless you are a tenant or leaseholder in a block of flats. Regrettably, in this situation, users discover that most indoor aerials are useless. One exception is MDC's £80 ST-2 whip aerial. It comes complete with almost eight metres of coaxial cable, and is packaged within the most impenetrable tubular packaging ever designed. It may take an hour or so of careful positioning to get the best signal, and even then it's no match for serious roof alloy, but it works and can permit stereo listening in some surprisingly inclement places.

For optimum results it should be partnered with the excellent £225 F-205 Super Sleuth FM Antenna Amplifier, Normally, such devices do little more than boost noise as well as signal, but this one has a different spin. Not only does it provide up to 30dB of amplification, it is fully adjustable right down to -30dB of attenuation. The Sleuth is also tuneable across the FM bandwidth, allowing the selection of the best signal for a station and boosting or cutting that portion of the FM bandwidth. It does this by acting as a pre-tuner, with a trio of RF stages acting as a tuner in their own right. Such devices are not new in the world of the radio ham, but to us hi-fi types, this is Space Shuttle stuff.

While the FT-101A deserves recognition as a high-quality tuner, the Super Sleuth should have a far wider audience among all those who must optimise aerial signals.

allows free tuning; and, best of all, none of this affects the sound of the FT-101A one jot.

The word 'analogue', liberally used throughout the FT-101A's technical literature, also befits the sound quality. Although a good tuner is effectively transparent, an open window into the broadcast studio, Magnum Dynalab's model also accentuates the smooth sound of radio. It's a very friendly sound: not rosy or over-warm, but rich and inviting. It can even make Zoë Ball sound acceptable, which is praise indeed.

The FT-101A delivers a wealth of detail but not in the eviscerating, harsh manner often characteristic of today's tuners. It is easy to define the difference between broadcast LP, CD, live and prerecorded material when usually these are blurred. Unfortunately, the dreaded compression of so many stations is also all too noticeable at times — a fault of the broadcasters, but this unit does throw it into sharp relief.

Also, compared to the very best tuners, it lacks the most open stereo separation, and the noise floor could be a fraction lower. But considerably more finance would be required to purchase equipment which outperforms the FT-101A; and usually this would be considerably less sensitive and require a roof-mounted aerial that looks like the MI6 building. At its price the FT-101A makes most tuners sound bright and unrealistic.

I end up impressed with the Magnum Dynalab FT-101A, especially when it is used with attachments like the ST-2 and F-205 (see box). Although modern soundbyte culture shies away from products that require owners to think for themselves, this is a rewarding exception that offers rarely-heard radio sound quality. If you want your broadcasts to sound natural and listenable, this is the product for which you have been waiting. \triangle Audiofreaks \bigcirc (0181) 948 4153

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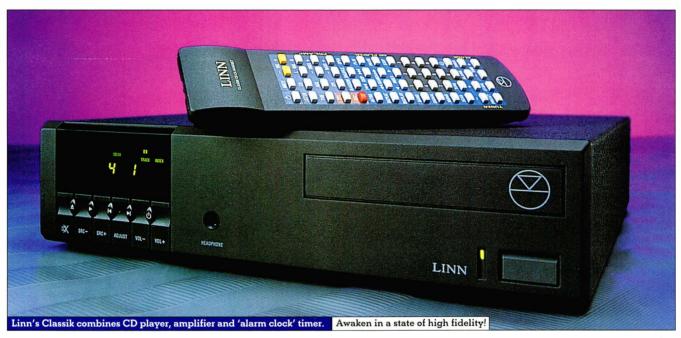
TOWER OF POWER



LINN CLASSIK STATEMENTS

Modern Classik

Alan Sircom investigates the new Classik system from Linn. Is this the ultimate starter hi-fi?



very nearly missed the point of the £995 Linn Classik. And if I had, I would have committed hi-fi snobbery of the worst kind. I began by setting up the Classik on my Mana support, like hair-shirt hi-fi; then I took care over positioning of the Linn Tukan speakers (supplied for the test) in the optimum site, hooking up with good quality speaker cable. But I came away unsatisfied.

Then I moved the Classik and Tukans into my office to note down salient features, hooked up the speakers with elcheapo cable, and set up the whole affair in a frankly haphazard manner. Five minutes on I executed a Uturn in opinion. The Linn Classik is superb for all the reasons most hi-fi (even Linn stuff) is not. If you think purely in hi-fi terms, hi-fi prejudices get in the way.

Thinking in hi-fi terms is all too easy with Linn. The company has pursued a very obvious high-end hi-fi direction since its inception in the early 1970s. Its products sound highly distinctive, in a kind of dry, clean rhythmic way. Traditionally, the gear has always been beautifully made; and by its very nature it's expensive and cherishable.

With the Classik, however, Linn has produced the ultimate hi-fi alarm-clock. Within the characteristic bluff, black-painted Linn casework lurks a CD player, amp and timer system. There is a limited number of inputs

on the rear of the Classik for external recording and a radio tuner. I had expected there to be an airwave-fondler built into the device, or perhaps Linn system connections for control of a Kudos tuner at the same time... but let's not be greedy. In any case, with digital radio looming large on the horizon, perhaps Linn is being wise by keeping its customers' options open at this stage.

The timer function makes the Classik a bit special. This feature controls all major functions of the unit, meaning

that you can set the Classik to perform a wake-up call with one of the external inputs or the built-in CD player. And if you take the CD option, you can even specify the track and a host of other parameters, offering a level of presettable functionality very hard to find elsewhere.

Linn's manual claims that the built-in power amp delivers 75 Watts per channel, though this is a little disingenuous since it relates to a four Ohm load — most amplifier specs are quoted into eight Ohms, and under those conditions the Classik barely hits 40 Watts. Also, the manual suggests the Classik will work with any passive Linn speaker, and while I have no evidence to the contrary, I do not believe that a partnership of the Classik and Linn's demanding Kaber speakers would be a marriage made in heaven. These caveats aside, the Classik's manual is an example to all manufacturers whose documentation is a photocopied A4 sheet.

Get off your high horse

It's natural to prejudge the Classik as an old-school Linn piece, with all the weight of anticipation that implies. By comparison with Linn's greatest hi-fi components, though, the Classik suffers limitations both of output volume and dynamics — a similarly-priced CD player/amplifier combination would easily show it a clean pair of heels. However, next to similarly-priced packaged audio systems the Classik shows its worth. The characteristic dry, controlled sound of Linn electronics is still evident, but the sound is slightly smaller-scale; however it lacks the floppy-bass mediocrity most integrated systems display.

It's got tone controls, too. A sell-out by hair-shirt Linn? No: I found these useful when using the Classik in situations outside the normal idealised listening position. If you use the Classik in the kitchen or study, a little subtle tone-shaping helps to compensate for near-field listening or the bright, resonant sound of some rooms.

The Classik is hi-fi for the people. The point is not to liberate existing audiophiles from the clutter of separates, but to offer a decent system for rooms where space is at a premium, without running to the expense of a true multi-room system. Classik systems will slot elegantly into kitchens, bedrooms, studies — places where a full Linn system would never fit in. Although Sony got there first, the Classik should come with the words "My first Linn" on the side of the box. \triangle Linn Products \bigcirc (0500) 888909

HI-FI CHOICE JULY/AUGUST 1998 43

The Mini was always synonomous with performance, whether it was the car or the fashion. And now there's another Mini which delivers unbelievable performance. The Reference 500 System from Teac. The sound quality of separates combined with the convenience of a Mini System. No other Mini comes even close!



"TEAC mini sets standards"

WHAT HI∗FI, Jan 97

"All three sources sound big and confident, with an accuracy and delicacy more akin to separates than minis"

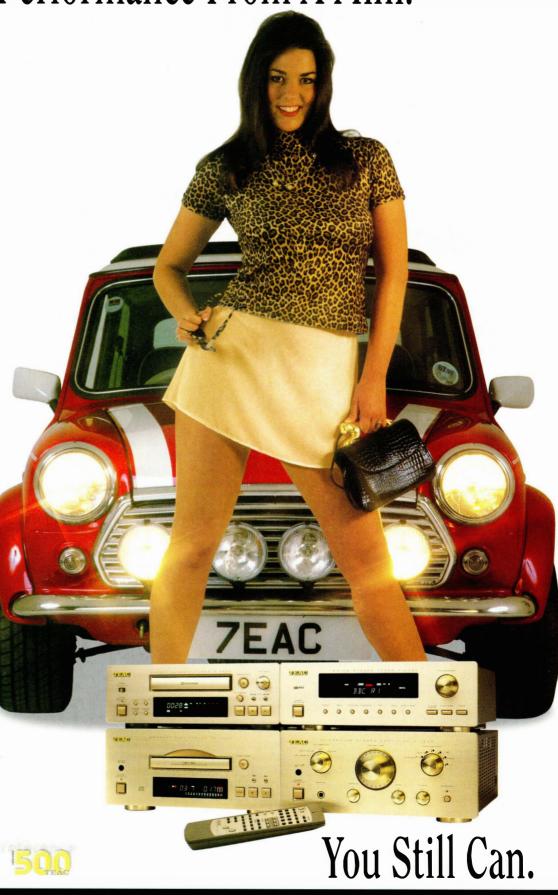
WHAT HI*FI, May 97

"In terms of its good looks, the system's asking price could just about be doubled"

Gramophone, Jan 97

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DUE TO TECHNICAL DIFFICULTIES BEYOND THEIR CONTROL, OTHER MINI SYSTEMS WILL NOT BE DELIVERING THIS LEVEL OF PERFORMANCE

Chief Musical Officers' Warning

Sit back and relax

Paul Messenger takes an easy chair to listen to a comfy speaker, the new Dynaudio Contour 3.0.

hough Dynaudio is a long established brand, UK availability has been patchy. The Danish company's drive units have popped up in some of the best places (such as PMC and Totem), but the complete speakers have not been so easy to come by until recently. I seem to have spent much of the last year catching up on several years' worth of speakers.

It's been a rewarding experience, despite the need for some aural re-education. All loudspeaker reviewers have their prejudices, and mine tend to be somewhat at odds with the Dynaudio philosophy. Despite this, the majority of the models I've tried have won me over — none more so than this relatively upmarket £2,930 Contour 3.0.

It's a logical step up the ladder from the Contour 1.8, which strutted its stuff so effectively in our test for *HFC* 167. The 3.0 adopts a similar formula in appearance and performance, but it is actually a brand new model, so benefits from some developmental refinements. The enclosure, for example, features a two-layer sandwich construction.

Presentation and finish are top class, with fine real-wood veneer and neat decoration. There are speakers as big, heavy and beautifully finished at half the price it must

be said, but one shouldn't judge speakers on superficial perceived value alone. The Contour 3.0 is above all an exceptionally lounge-friendly package, slim in width yet reassuringly deep, discreet and demure to a fault.

This is a proper

three-way design. The bass driver has a 140mm polypropylene cone loaded by a 47 litre enclosure with 6.5cm diameter port. Port-blocking bungs are supplied, but sound and power handling seemed better without. The midband diaphragm is

but sound and power handling seemed better without. The midband diaphragm is a 100mm polypropylene cone, while the tweeter has a 28mm fabric dome. All use aluminium voice-coil wire and die-cast chassis.

The driver line-up displays a logical gradation of diameters with rising frequency reproduction duties, while the spec states that crossover slopes are a gentle six dB per octave. This places a premium on the drivers being able to work across wide bandwidths, and means there will be significant overlap between them, but it also ensures minimum phase distortion for a non-active system.

The Dynaudio Contour 3.0.

The Hush Puppies of the speaker kingdom?

Dynaudio doesn't believe

in bi-wiring or bi-amping, so just a single terminal pair is fitted. The speaker sits on an MDF plinth which accommodates chunky eight millimetre spikes, my only niggle being that the spike sockets should be more effectively secured, to maintain floor coupling integrity over the long term.

The designer has opted to supply exceptional bass weight from a compact (22x106 x37cm) enclosure. Midband sensitivity is likely to be modest, and the amplifier load demanding —both characteristics acknowledged in the spec. Dynaudio claims 86dB sensitivity, though 1'd go for 85 across the smooth and even central midband, based on my normal, far-field, in-room traces.

Output rises significantly below 100Hz under stereo in-room conditions, so that the average level 20-70Hz is +5dB ref. the midband. The upper mid through to lower treble (800Hz-3kHz) shows a broad but shal-

low depression (max-2dB), which should be enough to avoid any suggestion of presence 'edginess' without leaving voices sounding 'shut-in'. The treble is also notably smooth.

Bringing the Contour 3.0 into the listening room immediately after the Avantgarde Duo horn (*HFC* 178) required an aural readjustment akin to a back-somersault. The loss of immediacy and dynamic drama was inescapable, but it wasn't long before the subtle understatement started to get under my skin, albeit in a different way.

Something more comfortable

Sonically these are no Nike AirMax 'bristling-with-attitude' trainers. Instead, the Contour 3.0 is your most comfortable pair of slippers. Few speakers are more transparent or well mannered, and although the presentation is a little laid back, the speaker still manages to sound exceptionally open, unusually free from unwelcome boxiness with delicate and detailed soundstaging, and impressively coherent top-to-bottom, with splendid consistency and seamlessness throughout the frequency and dynamic range.

Deliberately stressing them with the heavy synthetic bass lines of dance material from Prodigy, Leftfield and the like did eventually overload the capacity of the bass driver. However, up to that point the speaker continued to sound clean and effortless, free from mid-bass boom, with fine composure, immense weight and good timing. Not only is this one of the most neutral speakers I've encountered, it maintained that neutrality irrespective of the volume level.

Over the years I have developed some mistrust for the traditional three-way driver configuration, but Dynaudio's Contour 3.0 has done a great deal to allay those suspicions. The combination of top-class drivers, gentle-slope crossover networks and a very well controlled enclosure adds up to an outstanding speaker in almost every respect, though in practice the ultimate loudness capability may be somewhat constrained by the modest sensitivity, the amplifier power available, and the type of material you play.

It isn't a party animal, and doesn't have the dynamic realism I associate with high sensitivity designs, but this Dynaudio's consistency, neutrality, unflappability and transparency will be more than sufficient compensation for most listeners. The clean, deep, full-scale bass is a bonus, and the performance envelope will be more than ample for all sensible domestic situations.

Dynaudio UK 🕿 (01732) 451938

HI-FI CHOICE JULY/AUGUST 1998 45

Clash of the Titans

About to buy a new CD player? Hold back while you find out how new DVD video players handle music. As **Alvin Gold** reports, they don't just do movies...













elcome to our first group test test of Digital Versatile Disc (DVD) players. In case you've been away on a very long cruise, DVD is a new digital disc format which can store almost 30 times as much information as a regular CD. You can read more about its background in our feature on p28; and *HFC*'s sister magazine, *Home Entertainment*, has spent myriad column inches investigating the primary current consumer application of DVD, which is movie replay with advanced multichannel digital surround sound.

In the absence of an agreed standard for audio DVD, commercial interests in the US and Japan have recognised the data storage potential of DVD video to contain a very high quality two-channel audio signal, if not the full surround sound monty which really eats up disc space. (Again see p28 and Editor's Notebook, p3, for more comment on this.) At the same time most new hardware is equipped with 20-bit or 24-bit DACs operating at up to 96kHz, holding out the promise of a quantum leap in sound quality. But investigation of that will have to wait for another day.

In fact, this month's test sets out to investigate rumours that have begun to circulate over DVD players' handling of regular CDs. In particular, that they turn in a remarkably capable performance notwithstanding the amount of high-tech microprocessor circuitry they require to be userfriendly and feature packed. If this rumour turns out to be true, it should give pause for thought to anyone considering spending £500-£1,000 on a new CD player.

THE CAST LIST

Denon DVD-3000 £	699.99 p47
Panasonic DVD-A350 £	699.95 p48
Pioneer DV-505	449.99 p49
Pioneer DVL-S909	
(combi player)	899.99 p50
Sony DVP-S715	
Toshiba SD3107B	549.99 p52

Consider this. Even if a DVD player sounds only just as good as an equivalently-priced CD player, it still holds out the possibility of DVD video replay as an extra feature, making value for money issues much harder to judge. And if specialist audiophile labels, like the US-based Classic Records (see *Ear Waxings*, *HFC* 177), start

HOW THE TESTS WERE DONE

Each DVD player was auditioned by a panel of listeners under unsighted conditions, through high-quality amplification and loudspeakers, in comparison with two carefully chosen CD players. These were the Arcam Alpha 7 (£330; Recommended, HFC 167) and a Meridian 508.24 (£1,995, included as a yardstick of excellence). During each presentation to the panel we maintained the same measured volume levels, and all players were run in and kept under power until all testing had been completed. Following the completion of panel tests, the author undertook more extended, sighted, handson tests of each unit.

Equipment used for this test included a Musical Fidelity Nu-Vista preamplifier, a Copland CSA-515 power amp and Definitive Technology BP-2002 semi-active speakers. A Cyrus IIIi amplifier, Musical Fidelity X-A200 power amps and speakers from JBL and Neat added perspective during the hands-on testing. A Theta

releasing top-quality two-channel musical material within the parameters of the DVD video specification, that's another factor to consider. These are all threads that HFC will unravel in months to come.

For now, though, we have taken six DVD machines (one is also a LaserDisc player) and subjected them to our renowned unsighted listening test, using normal CD material only. We have made no comment on video performance; only on audio. As you will read below, we compared each DVD to recognised CD players both of lower and much greater cost. So, will your next CD player be a DVD player? Read on and find out...

Jade/Pro Basic III combination was also used to set the scene before and after panel tests.

WHAT MUSIC DID WE USE?

Buena Vista Social Club (with Ry Cooder): Cnan Chan — World Circuit WCD 050

Bizet: Variations from Carmen Arcadi Volodos (piano) — Sony SK 62691

James Taylor: *Line 'Em Up* from *Hourglass* — Columbia 487748 2

George Dyson/Richard Hickox/LSO: Overture: At The Tabard Inn from The Canterbury Pilgrims — Chandos CHAN 9531(2)

Plus various other titles used during the hands-on testing sessions.

WHAT MUSIC DID WE USE?

Our usual vote of thanks goes to our listening panel: Abbas Hussein (Orelle), Steve Cross (Ruark), Roger Batchelor (Denon), David Gamble (Mission), Mike Martindell (Arcam) and Rob Tribe (Home Entertainment magazine).

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Denon DVD-3000

Denon has opted for simplicity, with a plain, rather severe front panel adorned by a simple display and a bare minimum of controls. Under the skin this is one of the most comprehensively equipped of all the DVD players, alongside the Panasonic DVD-A350. In fact, these two share a common heritage, as Denon sourced this model from Panasonic. Relatively minor changes have been made to the user interface, which is slightly simplified, and to the unit's base, which claims to be made of a more resonance-free composite material boasting enhanced isolation properties. Both Denon and Panasonic models are identically priced.

Unusually, the DVD-3000 features built-in Dolby Digital (AC-3) and MPEG-2 decoders for instant 5.1 channel surround. The video DAC is a 10-bit device, which helps place on-screen performance along-side the best. The other headline feature is a full 24-bit/96kHz D/A converter, which will enable it to cope happily with 96kHz (48kHz audio bandwidth) DAD and other DVD-Video-compatible high-resolution recordings without having to 'downsample'. This facility is shared with the Panasonic DVD-A350 and the Sony DVP-S715. The

SOUND

VALUE

PRICE £699.99

(TWO YEAR GUARANTEE)

Versatile (Dolby Digital/MPEG-2 Audio on board) and capable (24-bit 96kHz) player that is bound to have strong all-round appeal.

Denon, Hayden Laboratories Ltd, Hayden House, Chiltern Hill, Chalfont St Peter, Bucks SL9 9UG

(01753) 888447

Denon won't play CD-Rs, however, which some of the others will. The back panel is equipped with twin SCARTs, the usual mix of composite and S-Video sockets and the six additional analogue outputs for Dolby Digital and MPEG-2 Audio. On the front is a headphone socket and associated level control.

Sound quality

The Denon received an impressive test score, placing it top of the DVD group overall as far as the panel was concerned, and ahead οf the Panasonic. Two listeners were slightly out of sympathy with the prevailing views, feeling that the Denon "lacked interest" and that it "wasn't much fun to listen to". More representative were such comments as "excellent - forceful and full bodied", "big and expressive",

The Buena Vista recording was described as "big, bold and open, with good vocal expression and timing, though not exactly spine-tingling", and the James Taylor as "big, expressive, well-differentiated bass, but it can sound a bit 'sat upon'". This listener also expressed a degree of unhappiness with the treble, mirroring comments from others which were made about all the DVD players to a degree. One listener, for example, noted that the Dyson orchestral excerpt "clouded up during the busy sections", and that the Volodos piano piece was

"good separation and space.... vocals OK".

"slightly hard-sounding". It is true that the Arcam (CD) treble was also not universally liked, but its character was generally felt to be more lively and transparent. The Meridian was in a different league altogether, being more organic and expressive, without drawing attention to itself.

The issue of treble quality was noted with interest and followed up in the subse-

other amplifiers and speakers. Here, I was able to confirm that the panel comments related to a

comments related to a real phenomenon that was a part of all the DVDs to a greater or lesser degree. As usual, different music led to slightly different judgements, but the bottom line is of a suggestion of muddle and harshness in the upper mid/lower treble region, and a degree of excessive

bass warmth, though these effects were far from unpleasant.

Conclusion

The DVD-3000 makes a more than acceptable CD player which is not far adrift from the standards of many (though not the best) dedicated CD players in the same price range. It has a smooth midband, with strong, propulsive timing offset by a slight loss of focus at the frequency extremes and a hint of the HF muddle that seems to be endemic with the current generation of DVD hardware. Its AV credentials are also well above average, which makes this model a particularly attractive all-rounder.





Panasonic DVD-A350

Billed as a 'second generation' DVD, the Panasonic DVD-A350 was released a few months after the DVD-A100. The A100 was a much more basically-equipped model which performed to a much lower standard. Its sound was sub-CD quality, and the picture quality from its nine-bit video DAC was well below DVD-A350 standards.

The DVD-A350 is unusually well equipped for audio and video purposes. The audio side is handled by a 24-bit 96kHz converter, though the S/PDIF output downsamples 96kHz audio to 48kHz (which allows a notional 24kHz audio bandwidth) in accordance with the copy-protect features that are imposed on DVD licensees (but see Pioneer reviews). The Panasonic won't look at CD-Rs. Audio credentials are bolstered by a raft of technologies developed over the years for Technics specialist audio, including selected passive components in some circuit areas, and Virtual Battery Operation power supplies.

For AV fans, the DVD-A350 has onboard Dolby Digital and MPEG-2 Audio converters, with six analogue outputs to cope with the 5.1 channel outputs available from these systems. Video is delivered in compo-

PANASONIC VERDICT

SOUND

VALUE

PRICE

£699.95

(ONE TEAR GUARANTEE)

Excellent all-rounder, with smooth, well articulated midband, and a powerful set of supporting AV features and 24-bit 96Hz compatibility.

Panasonic UK Ltd, Panasonic House, Willoughby Road, Bracknell, Berks RG12 8FP

(0990) 357357

nent RGB form (DVD records chroma information as digital component video) as well as Y/C (chroma/luma) and composite video. As usual, there is no provision for the theoretical 7.1 channel outputs of MPEG-2 Audio, and there are no indications that this standard will be supported by the industry, that is if MPEG-2 Audio survives at all. As

usual, DTS DVDs appear to be incompatible, though Red Book compatible CD DTS music discs work just fine.

Build quality is light-weight (but check out our review of the internally almost identical Denon DVD-3000, p48), and operationally the machine is slick, with particularly well-handled on-screen menus, operated by a sophisticated but well-designed Darth Vader handset with a joystick for menus

handset with a joystick for menu selection. General operation is further enhanced with a front panel shuttle (rotary search) control. A couple of DVD video discs are supplied with this player, including a Queen double-sider, and a Wallace & Gromit short.

Sound quality

This is an excellent performer, which was marked very similarly to the Denon DVD-3000, with an overall panel test score just one point behind. The scoring was a little less consistent from listener to listener than for the Denon. The Panasonic was deemed to be a "listenable, low fatigue" player, and one that "lays out the instruments clearly in space, making even complex performances very easy to follow" (Dyson). A second panel

member wrote that he liked this model a lot for its "silky smooth, atmospheric vocals", (Buena Vista), though he went on to describe the Volodos piano recording as "very slightly veiled", (this is a razor-sharp recording in the best possible sense given the right replay environment), adding that it "doesn't quite come to life".

In my tests, the Panasonic sounded extremely well balanced, and if it hadn't

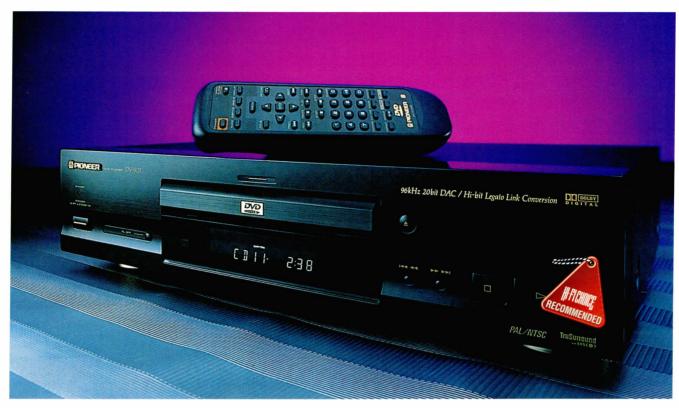
been pipped to the post by the even bettersounding Panasonicderived Denon, it would have walked away with the spoils of victory. Again, it is the midband that is most impressive, and what criticisms there are concern the frequency extremes, the treble in particular

sounding slightly ill at ease and muddled, and low-level detail suppressed. It is the better (and more costly) CD players that make this conclusion unavoidable, but the Panasonic is an easy match for the Arcam under most circumstances, trading slightly lower resolution and a more 'closed in' feel for the Arcam's sometimes acidic clarity.

Conclusion

The usual foibles of the current generation of DVD hardware are present here to a degree, but this remains a well-balanced and enjoyable player for the most part. It brings with it a high performance and well-equipped video section (Dolby Digital and MPEG-2 Audio decoders are built in), and the promise of 24-bit 96kHz compatibility.

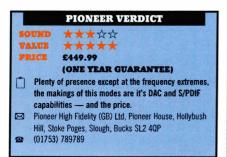
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Pioneer DV-505

The least costly DVD player currently available by a substantial margin, this is a full 96kHz machine, with Pioneer's Hi-Bit 20bit processing and Legato Link conversion, though the trademark-inverted platter assembly is not part of the package. The video processor is a 10-bit component, with the usual Dolby Digital and MPEG-2 Audio compatibility, though analogue conversion is external using the Pioneer's S/PDIF outputs, which are available in optical and electrical form

The most unusual feature of the DV-505 (discussed further in the Disc Formats feature on p28) is that it's S/PDIF digital outputs are not limited to 48kHz sampling, but can output the full 96kHz that can be accommodated on DVD. This will be of little account immediately, but will be when 96kHz/24-bit recording hardware is developed. The two Pioneer players in this group are the only ones available with unrestricted S/PDIF outputs, but it is possible for recorded software to be flagged to prevent the digital datastream being output at 96kHz, in which case the maximum sampling frequency available for external use will be 48kHz.



No-one could accuse Pioneer of dressing this player up to the nines to celebrate the birth of the new technology, and only the most basic controls are fitted to the front panel, the rest of which are relegated to a simple, compact handset. The back panel is less generously populated than some.

There is only a single SCART socket, for example, but separate composite and S-Video sockets are available, along with the S/PDIF outputs. No headphone socket is fitted. and tracking performance is iffy on slightly marked CDs that play without hitch elsewhere.

Sound quality

Although fairly even and neutral-sounding through the midband, this model did attract its

share of criticism for a lack of detail and openness at the top end. Simple variants of the Legato Link digital filter sometimes have this effect on audition. The bass, too, was criticised for being "hard to follow", which is often a synonym for a lack of tunefulness. Dynamics were thought to be "compressed", a comment that was repeated by different listeners with different pieces of music. On the plus side, timing was ranked 'very good' in a number of the comments, and stereo soundstaging was praised. It was the lack of very low-level detail, however, that was the most obvious distinguishing feature for the panel, whose score served to show that the criticisms were not felt to be too damning.

Following the Dyson orchestral piece, one listener wrote that the Pioneer was "more involving....with nicely separated individual elements, though the bass is slightly muffled and the timpani sounds too distant".

I found the balance of this player mid-forward, but no more so than the Arcam reference, to which it lost out

> principally on the groups of resolving power at the frequency extremes.

The DV-505 was, however, never less than competent. and generally contrived to equal the music-making stills of a good budget or a fair mid-price CD player. It also sounded easier on the ear than expected, with good stereo soundstaging (also highlighted in the panel tests) being

a clear point in its favour. However, there was nothing in the Pioneer's makeup which should cause the engineers at Meridian or Theta any sleepless nights.

Conclusion

CLASS 1 LASER PRODUC

The crucial fact here is that the Pioneer is not just an adequate CD player: thanks to its digital output it has the wherewithal to hold its own into the 24-bit 96kHz era. It is highly unlikely that any more new players will be released without the digital output degradation required by the software industry paymasters. So in this respect both Pioneers are classics — buy one while you can, to keep external DAC options open.





Pioneer DVL-909

Here's a player that can cope with LaserDiscs (Pioneer is the world leader in LD hardware and software) as well as DVDs, CDs, Video CDs and CD-Rs in a package no larger than a conventional LD player, making it a natural choice for multi-source crossover hi-fi/home cinema systems. CD-R compatibility arises because LaserDisc employs a CD-standard laser assembly which can cope with low reflectivity CD-R discs. The LaserDisc mechanism has an auto-side change, and copes with PAL (European) and NTSC (US/Japanese) discs, including Dolby Digital and DTS discs, with external processing. In fact, the Pioneer will output pure or PAL-friendly transcoded NTSC, to choice.

The audio section includes a 24-bit, 96kHz digital converter stage, and like the DV-505, the DVL-909's S/PDIF digital output is capable of outputting a 96kHz datastream, as long as the data doesn't contain a copy prohibit flag. This makes it even more desirable, though affordable 24-bit 96kHz digital recorders and standalone processors are still science fiction so the practical effects may be limited for some time.

Equipment standards are impressive, and include a switchable display and plenty of socketry (twin SCARTS with composite or



Y/C video, optical and electrical s/PDIF, plus RF for LaserDisc), but no headphone socket. The handset is complex and requires some acclimatisation, but it is comprehensive.

The DVL-909 has a smart, high-tech appearance, but is not heavily built. A note at the bottom of page 26 of the (provisional) instructions refers to another note on

p118 which warns you to remove discs and to power the machine down fully (presumably to position the pickups safely) before moving the machine. Good advice, and if I'd read it first, I would have been saved having to strip the player down to retrieve a disc that had gone adrift inside.

Sound quality

As happens in our tests, this player had its turn immediately after the Meridian reference, and inevitably when subjected to such comparison, the cheaper model comes off worse. This goes part of the way towards explaining why the DVL-909 achieved a lower score than its stablemate, the DV-505. The panel made similar comments about both, leaving open the possibility that they were hearing much the same kind of performance, but were less inclined to give the DVL-909 the benefit of the doubt. So the player was deemed to "flow well" (James Taylor), and to have "plenty of weight, but (to sound) soft and rounded in the treble" (Dyson). The midrange was praised for its "well projected vocals" (Buena Vista).

But there were difference this time around. The DVL-909 was marked down on stereo imaging — a strength for the junior model — and the bass was felt to be more heavyweight and was thus popular. My own listening, however, suggested that this is largely a system balance point,

The key difference lied elsewhere: the DVL-909 was consistently felt to be "roughened", "edgy", "fuzzy" and "distorted", comments from four different listeners

rather than a qualitative one.

My own notes describe the Pioneer as offering good instrumental separation but a lack of cohesion and power.

referring to four

pieces of music.

The overall effect was disjointed and failed to invest music with a sense of life and vitality. At the end of the day, this model was clearly inferior to the Arcam CD player.

Conclusion

The DVL-909, which will form the basis of a combi model from high-end producer Theta, is a little rough around the edges musically, and misses out on a formal Recommendation simply because it doesn't rate highly as CD-playing hardware. This does not undermine its unique desirability in other respects, especially the 24-bit 96kHz analogue and digital capabilities, and the LD and CD-R play features.

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Sony DVP-S715

With a smart champagne-gold extruded alloy facia and attractive controls, this is the classiest looking player in the group, and the senior of two DVD players launched by Sony. In its home cinema incarnation, the player will output a digital datastream with Dolby Digital or MPEG-2 audio coding, with good picture quality thanks in part to a 10bit video DAC. When playing audio it benefits from a 24-bit/96kHz D/A converter, though the S/PDIF digital outputs will output a 48kHz datastream, and not the full 96kHz. A switchable coefficient digital antialiasing filter allows some measure of adjustment to suit personal preferences, though the facility is buried in the menu structure, and defaults to the 'sharp' setting, the other setting proving impossibly dull and blurred in my view. Chassis and component quality draws on Sony's specialist audio roots, with an R-Core transformer, an antiresonance chassis, and 'audio grade' components generally, though the latter description is too vague to be meaningful.

You may have noticed that DVD players won't usually play recordable CDs (CD-Rs). Sony makes no claims for CD-R compatibility (it is neither listed as a playable medium, nor explicitly mentioned in the exclusions)



but the player does include twin CD and DVD pickups rather than the adjustable focus single pickup usually employed, and CD pickups are by definition CD-R compatible. As with the other players, the Sony will also play Version 1.1 and Version 2 Video CDs (without and with menus).

The remote control is blandly styled but highly practical, and will operate a variety of Sony TVs and amplifiers. Sockets include optical and electrical S/PDIF digital outputs, a couple of SCARTS (with S/Video), a dedicated S Video Y/C connector, and on the front panel, a headphone socket with a level control.

Sound quality

There was little equivocation from the panel, which was consistent in scoring. One panellist deemed the player "fresh and smooth, with lots of detail, and which just misses being truly excellent" (Buena Vista), and "very low in distortion, but it somehow misses the expression locked up in the notes" (James Taylor). The prominent treble was heard by one as a "recessed midband", leading to a "small-scale" performance in the same piece, and the Dyson was felt to have "too much treble in the beginning, with great soundstaging". Despite the specific criticisms, the Sony was described as "very listenable", although the earlier comment about audibly low distortion was repeated in comments from several listeners.

My hands-on testing pointed to a player that sounded qualitatively different to the others, and in some ways closer to the Arcam CD player, though the treble wasn't free from the problems noted elsewhere as the panel comments imply. With some material, the Sony tended to emphasise or

> underline the treble, with excessively breathy vocals and hints

of sibilance with some female voice recordings. The player also lacked the organic quality and awesome power in well-recorded orchestral music and piano recordings (the Dyson and Volodos are excellent examples) available using the Theta and Meridian players. On the whole, the Sony sounds clean

and sharp, with a powerful, driving bass and a typically open, articulate midband. The bass was exceptional in its tunefulness and control, and the midband was layered and open, if rather flat spatially — a feature typical of all the players tested.

Conclusion

The fresh, open vitality of the Sony marks it apart from its peers, but the DVP-S715 failed to completely transcend the standards set by good mainstream CD players. Listening fatigue was a factor in long-term use thanks to a treble that resolutely refused to sound wholly natural and transparent. With careful system matching some improvement can be expected, however, and its overall performance is easily good enough to earn a Recommended tag.





Toshiba SD3107B

It is a long time since a Toshiba product graced the pages of this magazine, but DVD is nothing if it doesn't lay down new lines in the shifting sands of audio allegiances. Toshiba was one of the prime movers in DVD — the company was a prime mover behind the SD disc which provided the basis of the DVD format.

The principal market for this model is home cinema, the feature set being biased towards use with high-end TV, and specifically Toshiba's own Dolby Digital compatible home-cinema TVs, which the remote control will operate. Explicit support is provided for DVD Karaoke discs (a subset of the parent DVD standard, which will no doubt become readily available as Japan shares the UK's region-specific DVD "area code") and other video-related features including picture zoom and 3D sound for two-speaker playback. The latter is offered on numerous machines but is not recommended for hi-fi replay. There are some good tricks played here, features including reverse play.

The Toshiba is more limited in audio terms than the best of the opposition. It will read 24-bit discs, but only with the precision available from a 20-bit processor,

TOSHIBA VERDICT SOUND VALUE (ONE YEAR GUARANTEE) Adequate but unexceptional player which is a natural partner for home cinema systems, but no match for a respectable CD player. Toshiba (UK) Ltd, Toshiba House, Frimley Road, Camberley, Surrey GU16 5JJ (01276) 62222

though this may not be much less than is available from today's 24-bit DACs in practice. This model is not supposed to play CD-Rs, but it didn't reject them out of hand, although it played them unreliably and with intermittent glitches.

The SD3107B has a single SCART, though it is capable of delivering component RBG as well as Y/C and composite video. Other sockets include an S-Video (Y/C) connector, optical and electrical-flavoured S/PDIFs (48kHz maximum) and analogue line and headphone sockets. The latter is under control of a volume level pot.

Sound quality

score from the panel, with little variaused as reference. Such comments could indicate the presence of significant jitter levels — given the number of microprocessors under the hood of these machines, high levels of jitter would not be surprising.

The Dyson piece also focused attention on less satisfactory performance elements. The piece was deemed "pleasing but not captivating," and "slightly recessed".

Another listener, who came clos-

est to representing a consen-

sus view across the range of music, wrote that the piece sounded "dramatic and forceful" through the opening bars, and that it was "jaunty, with plenty of detail and good timing. This player is fun to listen to, if not the most detailed here," he concluded.

My own tests placed the Toshiba firmly in the bottom part of the group. In the company of top-rank CD players like the Theta Jade/Pro Basic III, a leanness in the sound was very obvious, and much of its get up and go seemed to dissipate. The overall effect was soft and homogenised, though the Toshiba was never overtly unpleasant.

Conclusion

The electronic beep that accompanies each control action had me wanting to strangle this player, and made its presence difficult to disguise during the tests. In other respects, it was a pleasant machine to use, with good if not exceptional on-screen and sonic performance, though its natural constituency remains firmly with home cinema.

Achieving a fair-to-middling tion between listeners, the Toshiba was liked more than it was admired. Positive references were given to its forcefulness, solidity and midband detail, along with some criticism of a lack of atmosphere and a degree of muddle and veiling, mostly associated with the treble. This was noticed especially in the piano recording, whose percussive nature is particularly demanding. "A bit cloudy," wrote one, while another thought the piano "lacked dynamics and bite," while a third felt that "it is quite a convincing sound, but (that it) lacks some of the spacious atmosphere" of the Meridian player

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Gonclusions



his test set out to answer the question of whether DVD players sound better than CD players, a bold and intriguing suggestion that has been doing the rounds. The panel tests failed to confirm the proposition, and at the end of the day the DVD players emerged more or less level with the Arcam Alpha 7. The broad consensus of the panel testers, from conversation after the products had been scored and identified. was that if it wasn't always the nicest sounding unit, the budget Arcam marshalled the musical information at its disposal more consistently and, on the whole, more coherently. The DVDs generally performed well too, with plenty of variation in colour and texture, and a generally open, easy character. There were, however, consistently identifiable problems at the frequency extremes: DVD players sounded lumpy and sometimes excessive at low frequencies, and their treble was variously sibilant, bright and sometimes messy. The player that consistently showed the DVDs a clean set of heels was the Meridian 508.24. The confidence level in these tests was high — the Arcam and Meridian made regular multiple appearances, and attracted similar listening comments and scores.

This result should come as no surprise. It would have been a shock if a group of products which are more complex than CD players, with a much higher internal chip count, and radio frequency interference signing inside, had managed to outperform simpler CD players at anything like the same price. The characteristic shortcomings of the tested DVD machines bear a striking similarity to sonic limitations of ordinary CD players known to suffer high levels of jitter and RF emission. (Lab assessment of DVD play ers will follow in months to come. - Ed)

If there was a surprise in this test, it was how capable and involving these DVD play-







ers sounded, though there was never any doubt who was boss when the Meridian or Theta were cranked up. Both of the latter can transform good recordings into a special experience. On a more practical level, remember that most (though not all) DVDs won't play CD-Rs, but of course DVD players have uses other than just playing CDs. If you haven't seen one in action with a good TV, you've missed something.

Finally, a word of warning. This is not the place to examine video-related issues in

depth, but many HFC readers will be interested in DVD at least partly for its home cinema potential, and there are issues here which have yet to be fully resolved. In particular, while Dolby Digital has now been adopted as universal, the performance of DTS is potentially much better — indeed. LaserDisc DTS recordings prove this. There are no DTS recordings on DVD yet, but there will be within months, and a DVD player probably won't play them. (Read Home Entertainment magazine every month to keep up to date with DVD's home cinema applications. And see p16 for more on DTS.)

Recommendations & Best Buys

Before looking in more detail at the Recommendations and Best Buys, let me stress that they were awarded strictly on the basis of music CD sound quality; nothing more. We very nearly recommended the Pioneer DVL-909 LD + DVD player, purely for its superior compatibility (with Laser Discs and CD-Rs) and its 24-bit, 96kHz digital output (bound to be regarded as a collector's item in years to come). However, to play CDs there are better DVD machines like Pioneer's own DV-505, which sounds similar and costs £450 — staggering value by any standards. This model clearly represents a better deal than the £550 Toshiba SD3107B

The three top-ranking models, however, are the Panasonic DVD-A350, the Denon DVD-3000 and the Sony DVP-S715. The latter has a certain sharpness and clarity that surpasses the other too, but it is the Denon and Panasonic that put in a more satisfying organic and balanced performance at the end of the day. The Denon — aPanasonic with slightly better build and minus some inconsequential front panel furniture — is the clear victor, but only just. ≜

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& Speaker Cables

Charlotte Ricca grapples with amazing new 'home DJ' products that won't look out of place in your lounge.

ast year we made history with DJ Choice, a nifty little magazine put out with HFC 171 just before Christmas. Boundaries have blurred between passive hi-fi systems, and active home DJ gear permitting creative input from the user. And at the same time there has been a growing need for magazine coverage that takes an authoritative, objective approach to 'bedroom' DJ equipment and the ideas, people and culture that shape it. DJ Choice was the first magazine to address this need, and the feedback has been very positive.

Six months further down the line, we're feeling a weird sense of déja vû. Left, right and centre, companies are launching new equipment that is neither hi-fi system nor DJ kit, but both

Just check out the Pioneer RMX9, Vestax

AA-88 and Sony MHC-RX88 featured here, all perfect examples of the trend we spotted last year.

We've got amps and speakers to complement the most challenging modern music styles. We've got amazing gadgets that no self-respecting noise-merchant should be without. And for a wideranging assessment of each product's appeal, we tested them with the help of a top-ranking DJ and an experienced home musician.

A quick note of caution: as with all semi-professional equipment, not all of the featured gear will be available in regular hi-fi and electronics stores. You may well need the services of a DJ specialist outlet such as those advertised elsewhere in this magazine. If in doubt, call the manufacturers to get their list of

Pioneer RMX9 (£999) ▶

To create the RMX9, Pioneer has obviously thought long and hard to meet every need of the bedroom DJ, or even just the home enthusiast who fancies blending Glenn Miller with Glen Campbell. The RMX9 comes with twin CD decks, a

single tape deck, a 100 Watts receiver, an effects module and a DJ mixer for the CD decks. Optional extras are a MiniDisc (MD) recorder (£200), speakers (£100), and a rack will be available, too.

Although these components are separate, they are simple to connect up with ribbon cables. The mixer connects to the main system with a com-

The mixer uses hands-on

jog dials for cueing up, and features a crossfader (easily replaceable) which blends between the two CD players. It is also the control centre for the clean-sounding effects unit, which features a phaser, reverb and a built-in sampler for looping

authorised stockists. And have fun!

drum sounds to create repeated break-beats.

Experts' verdict

We were suitably impressed with this outfit and the thought behind it. For example, the MD recorder option would enable budding DJs to produce broadcastquality demos of their mixes for radio or nightclub promoters. "I could seriously see me having this in my home. It could add into my existing hi-fi to give it more scope," said Norman. Pioneer 2 (01753) 789 500



ON TEST: DJ GEAR

Boss Dr. Sample SP-202 (£299) The Dr Sample is a very basic 32-second digital sampler, which is ideally suited for use in conjunction with

the Roland MC-505 (see overleaf) for adding custom sounds to your mixes. Basically it enables you to sample favourite drum loops or melodies from your music collection — but watch out for the copyright police!

Experts' verdict

Dean and Norman agreed that this unit would provide a good introduction to sampling for those still honing their home-studio capabilities, since it does the job efficiently, as advertised, and is easy to use. Like the MC-505, though, it'll soon be outgrown by maturing mixmasters. "It's like the sampler equivalent of the 'My First Sony'," commented Dean. Roland (01792) 702701



This all-in-one rig is a pumped-up midi system with ultra-garish graphics and gadgets such as drum pads and a loop facility to repeat, say, a rhythm pattern over and over. However, with its jazzy flashing lights and chrome finish the Sony is squarely aimed at a certain market — and we're not talking about the Val Doonican crew.

Experts' verdict

Up to the age of 16, you'll be working out how on earth you can persuade Santa to bring you one of these. Thereafter you'll be working out which one of your youthful relatives to palm it off onto. Both Norman and Dean reckoned it could be fun in the right pair of juvenile hands, and while in no way can it match the systems from Pioneer and Vestax, it might whet a young appetite for the joys of beat manipulation.

Sony 🕿 (0990) 111999

Denon DN-M2000R £850 ▼

This MiniDisc (MD) deck, the first ever MD recorder designed specifically for DJ use, is aimed at the top-end of the professional market, for installation in nightclubs and t he like. It is very heavy and robust-looking, and arrives in a purposeful 19inch-wide rack-mount chassis. But the (verv) well-heeled home DJ might think about saving up for a DN-M2000R, since it offers features above and beyond any domestic MD recorder. These super-widgets include pitch control for matching tempos of different records, a jog dial for cueing up tracks, a Hot Start facility for instant playback with no tracksearch delay, and a loop/sample function.

Experts' verdict

Norman really liked the fact that the Denon offers DJs the chance to make a great-quality demo recording, to try out on a club audience before incurring the cost of pressing on vinyl or CD. Dean was also very impressed, but being a vinyl die-hard he still can't believe MiniDisc will take over from the platters that matter. In conclusion, Norman and Dean both thought that this was a brilliant machine, and extremely well made, with chunky rubber buttons in bright colours, making it perfect for use in a club — or a very smoky bedroom...

Hayden Laboratories 2 (01753) 888447

Tannoy Reveal monitors (£229) ▼

These attractive red-wood-coloured monitor speakers have a 90dB, making them well-suited as an upgrade for standard hi-fi

for example.

Experts' verdict

tial, as our DJs pointed out, when mix! Dean had muddy and the treble seemed to get Tannoy 2 (01236) 420199



ON TEST: DJ GEAR

Cerwin Vega E315 (£700) ▼

These monsters stand over 36 inches high and look like the kind of equipment your neighbours' nightmares are made of. Their frequency response is claimed to be 28Hz to 20kHz

and they are said to have a ludicrous sensitivity of 102dB. Couple that with a power handling of 400 Watts and they obviously mean business. Loud business.

Experts' verdict

We reckon these wardrobes look bigger than they sound, but if you're out to create the Ministry of Sound at home, they're ideal. Commented Dean: "I was expecting the bass to hit me in the chest, but it never happened. They look like bookshelf speakers which have been enlarged on a photocopier." Maybe the neighbours can rest in peace after all, then. CSE 🕿 (01423) 359054



Roland MC-505 (£949) ▼

Roland is staying at the forefront of the home-studio digital revolution with this all-singing, all-dancing box of tricks. The MC-505 is ultimately a sequencer, capable of arranging up to 50 songs or 95,000 notes. However, it is also a sound module, offering 512 sounds including basses, pianos, swirling keyboard 'pads' and all the classic Roland drum sounds, heard everywhere from the Prodigy's first single to Madonna's latest album.

In addition there are 248 programmed drum patterns, which range from cheesy Latin to industrial hardcore, and they can be edited to suit. A further novelty is the 'D-Beam' controller which emits infra-red light from a lens on top of the machine. When you put your hand above it, light is reflected back to control tempo, musical key or even instruments. It has six audio outputs, and sockets for connecting up to a computer or other keyboards.

Experts' verdict

Both Dean and Norman agreed that this is an excellent starter kit, for bedroom mixers who have neither the space or money for a separate keyboard, drum machine etc. Essentially the MC-505 is a complete studio in a box, and is very user friendly. However, our experts felt that even with limited experience users would grow out of it quite quickly, and it is very much biased towards rave music - rap fans beware!

Roland 2 (01792) 702701 **58** *IULY/AUGUST* 1998

Pioneer SE-DJ5000 (£119) ▶

These headphones are aimed directly at the jobbing DJ, with a padded shoulder rest and a coiled lead to avoid embarrassing trips over lengths of wire. They have a claimed frequency response of five to

28,000 Hz and sensitivity of 105dB. They also feature a rather cunning switch on the left earphone which changes the signal from stereo to mono, so when mixing you hear the same music in each earphone regardless of left/right panning on the track.

Experts' verdict

Dean favoured these 'phones as he thought they were robustly made, if a little too heavy. "They're nice and loud, but a little trebly and painful on the top of my head!" Poor little fella. Norman

figured they'd be too cumbersome for his purposes, but perfectly adequate for bedroom use.

Pioneer 2 (01753) 789 500



AA-88 (£1,250) > The AA-88 is Vestax's 'Active The three-channel mixer (with removable crossfader) blends together all of the sources on board — there's a radio tuner in MD recorder can be used to produce top-quality transcriptions of

Experts' verdict

Like the Pioneer RMX9, this is an incredibly novel product hitprog, anyone? The MD's transport controls make it easy to repeat phrases as if looped in a sampler, though as with the CDX-12, the cue-up joystick takes a bit of getting used to. It's not cheap, but it's Vestax 2 (01428) 653 117

ON TEST: DJ GEAR

SoundTech PowerSource PS802 (£449) /PowerLab PL602 (£279) ▼

As featured in HFC 179's Update pages, the PS802 PowerSource is a basic but very powerful professional studio amp, which is currently being used by the US Military in a tank simulator. Measuring just one rack-mount unit high (1.72 inches), this 15.8lb amp is ultra-slim, thanks to a hybrid switched-mode power supply, which does away with the need for a bulky mains transformer. With single inputs accepting both XLR and quarter-inch jacks, and outputs via Neutrik Speakon connectors, the PS802 has a massive power rating of 400 Watts per channel RMS into four Ohms. Twin varispeed DC fans keep it cool, though, and the amp has full protection against mains spikes.

Experts' verdict

Dean aptly described this amp as a workhorse — robust enough for constant studio abuse, and it produces a clear, neutral sound. The PL602 PowerLab amp is a heftier alternative, but much cheaper at £279. It offers 300 Watts per channel into eight Ohms, stands 3.5 inches high and weighs in at 37.4 lbs. Both units come with a tenday money-back guarantee.

Smart Sound Direct 2 (0990) 134464



Red Sound Systems' chrome box is principally a studio tool, but can be used in the DJ environment. Its aim is to count the beats of a track you're playing and then produce a MIDI clock signal, with which to synchronise sound modules such as the Roland MC-505, or a synthesiser. This means that you could play a nice little Kylie tune and lock it up with an industrial hardcore break beat, if that sort of thing turns you on.

Experts' verdict

The Voyager 1 is extremely well built and ergonomically designed, but both DJs were sure its chrome finish wouldn't stay shiny for long! Although it certainly should work well with basic 4/4 house beats, Dean thought James Brown's funky drummer would probably confuse it.

Red Sound Systems Ltd 🕿 (01494) 429321



The Vestax CDX-12 is a one-box combination of twin CD players, and a mixer to blend between them. The latter has a removable cross-fader, so you can replace it after the inevitable DJ wear'n'tear, and it also has inputs for external sources so you can mix in turntables as well. The CDX-12 differs from many DJ CD players by omitting the jog wheel which is normally used to cue up tracks. Instead, a joy stick performs this 'fast-forward/rewind' operation when moved left or right; and when moved up and down the same control causes a pitch-bend effect of slowing down or speeding up the playing CD.

Experts' verdict

Our DJs liked the 'start' and 'stop' buttons which

were more concerned with the rather fragile pitch-control sliders, and felt the joy stick was a bit gimmicky — "very much the product of a computer generation," as Norman pointed out. Old-skool Norman bemoaned the fact that the CDX-12, like any DJ CD player, "doesn't give the user any hands-on, in the way that vinyl does. It's only a matter of time until you can pre-programme all of this and there's no involvement for the DJ. Then what role do you play?" But Norm, look at those lounge-friendly wood cheeks and the mint-green colour scheme... Vestax 2 (01428) 653 117

trols to adjust levels of bass and treble. Both DJs

There are also two-band tone con-





INTRODUCING **OUR EXPERTS**

Norman Jay is globally acknowledged as a top DJ playing a vast range of musical styles, from funk to garage. He first came to light as a founder of Kiss FM (London's premier dance music station), and since then he has been voted Club DJ of the year by Blues and Soul magazine. While he often entertains at parties for the likes of Mick Jagger, Michael Caine, Paul Weller and George Michael, come Sunday evening Norman still finds time to titillate the airwayes of London on BBC GLR 94.9.

Dean Smith, our 'bedroom studio' boffin, often DJs at bars and parties, but his principal musical vocation lies with production not performance. Though he doesn't like to advertise the fact, Dean is a walking compendium of home-studio recording technology.



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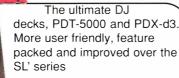
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Roland





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HEAVYWEIGHT CONTENDERS

Paul Messenger (listening test) and **Paul Miller** (lab test) put 11 big-box loudspeakers through the Hi-Fi Choice testing mill. Are they really loud and proud?

s bigger better?' was the question at the top of the Editor's commission for this group test. I shall leave the answers to the Conclusions section at the end of this wide-ranging report (p86), but the group of speakers assembled for the quest provides an appropriate framework for such an investigation.

Our group of 11 ranges in price from £950 up to £1,800, split somewhat arbitrarily into three price bands. There may be nearly a two-to-one ratio between the cheapest and the most expensive, but this sector of the market is far less price-sensitive than the sub-£400 mainstream, so buyers are unlikely to choose between a £1,400 Group B and £1,500 Group C model purely on the basis of price.

This introduction at least allows the scene to be set with something more subtle than the tools of accountancy. Purchasers of upmarket speakers are certainly looking for serious performance, but beyond that fundamental requirement there are numerous possible priorities, simply because there's a much greater variety of products on offer as one moves up the price scale. It's unlikely that someone seriously considering the JBL SVA2100 would even countenance the Chario Academy — or vice versa. (For example, the Chario is the one likely to strut its stuff in a stately home, while the JBL is destined for a second-floor flat in somewhere like Stoke Newington.)

Speakers differ from other hi-fi components by virtue of different shapes and sizes, and those variations translate directly into certain aspects of performance. You'll never get deep bass and high sensitivity together from a small loudspeaker, whatever the marketing men might try to imply. However, small size is a major plus for most customers, so some sort of compromise is usually required.

Sadly, there is only one standmount among this month's 11 — last year (*HFC* 167), across a similar price span, we mustered three standmount, one semi-standmount and a sat/sub combination. While the

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MODEL	PRICE	PAGE
Audiovector M2	£1,399.95	p75
Cabasse Farella 400	£950.00	p65
Celestion A2	£1,499.00	p81
Chario Academy	£1,649.99	p83
Heybrook Octet	£1,800.00	p84
JBL SVA2100	£1,250.00	p67
JM Lab Spectral 909.1	£1,375.00	p77
Living Voice Auditorium	£1,499.99	p85
Magnat Vintage 720	£1,199.00	p69
Monitor Audio 705PMC	£1,399.99	p79
Naim Credo	£1,090.00	p71

Chario is clearly the smallest here, there are obvious gradations in size among the floor-standers — height and width are the most significant factors in the perceived bulk.

And you don't have to look any further than this group to realise that surface finish quality is directly related to price. There's none prettier than the pricey Chario; none more utilitarian than the JBL. The others fill the broad rift valley in between. Not surprisingly, the best-looking veneers tend to

be seen on the smaller, more expensive models (eg Monitor Audio, Living Voice).

The driver line-up varies significantly across our test group. Three are simple two-way designs (Cabasse, Naim, Chario), but only two follow a full three-way configuration (Heybrook, JM Lab). The others are twin-main-driver two-way designs of various kinds: some mount the main drivers above and below the tweeter, in the so-called d'Appolito layout (JBL, Magnat, Celestion, Living Voice); the Audiovector and Monitor Audio keep their tweeters at the top, the former rolling off its lower main driver early (in what is sometimes called a two-and-a-half-way configuration). The effect of these variations is also reflected in the review findings, though again it wouldn't do to pre-empt the conclusions in the introduction.

There are no easy routes to loudspeaker nirvana, and in the end it's all about one compromise or another. One advantage of these higher-price loudspeakers is that serious performance is pretty well guaranteed. The trick is to use our reviews to help you pick the particular speaker which suits your particular lifestyle and taste.

HOW THE TESTS WERE DONE

ach of the 11 speakers underwent a programme of tests comprising a physical examination, computerised performance measurement, hands-on listening and, most important of all, a panel audition in which listeners were kept from knowing which pair of speakers was being auditioned.

The 'blind' listening tests were spread over two days, allowing a number of repeats. The main reference system used for the blind and hands-on work consisted of the usual collection of Mana-supported Naim and Linn components, viz: Linn LP12 turntable, Naim ARO tonearm, Linn Arkiv 2 cartridge, Naim CDS CD player, NAT01 tuner, NAC52 preamp and NAP135 power amps, plus the Audio Precision Eikos CD player and Musical Fidelity A1001 integrated amplifier. Speaker cables were NACA5 and Nordost SPM.

Music used during the testing included excerpts from the albums shown right. BBC Radios $3\ \&\ 4$ were also used extensively during the hands-on work

WHAT MUSIC DID WE USE?

Joni Mitchell: Mingus Asylum AS53 091 The Chemical Brothers: Dig Your Own Hole XDUSTCD2 42950 2 8

Cambridge Singers: There is Sweet Music Rutter/Collegium COLCD 104

Talking Hands: Acoustic Mania naimcd020
Villa-Lobos: Uirapuru/Stokowski/Stadium Symph
Orch New York/Everest DCC Compact Classics
LPZ-1003

Fun Lovin' Criminals: Come Find Yourself Chrysalis 37566 2 9

Little Feat: The Last Record Album/WEA K56156

THE LISTENING PANEL

Thanks are due to to panellists David Inman (Castle), Robin Marshall (Mission), Russell Kauffman (Morel, Densen), Keith Haddock (JBL), Andy Whittle (Rogers) and Dave Denyer (Musical Technology).

62 JULY/AUGUST 1998 HI-FI CHOICE

A Magnat Vintage 720 p69







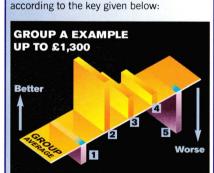


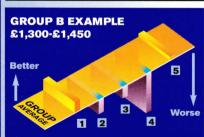
ON TEST: LOUDSPEAKERS

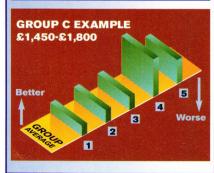




here will be significant differences between the cheapest product in our test and the most expensive. For this reason we always segregate our test candidates into two or more categories based on price. Our aim is to assess every product's performance in the context of its closest rivals. ■ Each lab-report panel is colour-coded









UNDERSTANDING OUR **BAR-GRAPH MEASUREMENTS**

he measurements behind Hi-Fi Choice's unique bar-graphs are provided by our Technical Editor, Paul Miller, using both GPIBcontrolled measurement hardware and his own, award-winning, PC-based Virtual Instrument software. Each bar-graph value is derived from a weighted statistic of several key measurements and is displayed relative to a notional zero per cent which represents the group average for that particular category.

This statistic is derived from the reactive and resistive components of the speaker load, indicating how tricky it is for the amplifier to drive.

The sensitivity of the speaker is measured at 1m with a 2.83V input across third-octave bands 17-29, then weighted according to the human loudness contour to indicate how 'loud' one speaker will sound relative to another.

This takes into account the speaker's sensitivity, distortion, the maximum useable amplifier power and the effects of placement in an 'average room' to gauge the maximum practical Sound Pressure Level obtainable from a given pair of loudspeakers.

udible distortion

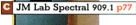
This valuable test momentarily raises the output to 96dBA with dynamic signals through bass, midrange and treble. This allows us to assess distortion under realistic, transient conditions.

This provides an indication of a speaker's likely bass extension in an "average" living room, according to the maker's suggestions for positioning.





A Naim Credo p71







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Cabasse Farella 400

hough little known here in Britain. Cabasse is one of France's largest and longest established loudspeaker brands, with a continuing history of family ownership which is unusual for a company of this longevity. Choice reviewed a couple of Cabasse models a few years back (HFC 110 and 122), which established the brand's credibility, but UK distribution didn't work out that time. Now the company is back, this time operating through Audiofreaks, with (among others) a floorstander that reinforces the French refusal to follow mainstream trends just for the sake of it.

The £950 Farella 400 might be the least expensive in our group test, but it's by no means the least capable. It's physically compact, but feels solidly built, turning the scales to a substantial 22kg. While the cabinetwork is neat, with a black real-wood veneer (three other options are available), it's also rather sharp-edged and shiny, which goes somewhat against the modern trend.

Drive units have always been Cabasse's forté, and the two used here are distinctive. The cast-frame main driver has a generous 155mm main cone, white in colour, while the tweeter has a large 33mm dome and a pronounced horn flare. There's just a single

VERDICT SOUND *** VALUE £950.00 LIFETIME GUARANTEE Very up-front and edge-of-seat presentation, will inject extra life and vigour into any system. Fun, but not for the fainthearted. Audiofreaks, 15 Link Way, Ham, Richmond, Surrey TW10 70T (0181) 948 4153

terminal pair, with no bi-wire/-amp option. while the reversible spikes have no locknuts, but use a clever socket thread instead.

The in-room, far-field balance is different from the norm, as the Farella's exception-

ally high sensitivity extends up through the presence band. It peaks at a high 3-4kHz off in a manner slightly reminiscent of Rehdeko designs, which is a full octave above the point at which most designs start rolling off. Given the massive sensitivity and modest dimensions, bass alignment is decidedly dry, so some closeto-wall reinforcement is likely to pay dividends.

Sound quality

"If this one is right, then all the others must be wrong," quoth one panellist, describing the Farella dilemma, and the difficulty in summing it up on a single rating. Given the tendency of panels to opt for the bland, I was surprised that reactions were positive towards a sound which is certainly exciting, invigorating and highly informative, but also decidedly edgeof-seat and in-yer-face in terms of presentation.

It's not a particularly smooth-sounding speaker, and voices can have a 'quacky' character. The bass is rather light and dry, so the sound is a little short of weight and scale, but it does have plenty of drive

and purpose, never lagging behind the pace and always

> adding a measure of dynamic tension on appropriate material. Ironically (in view of the very high sensitivity), the Farella 400 is particularly effective at low volume levels, where it retains a full measure of subtlety, delicacy and detail. Start winding up the volume and the edginess begins to become more obvious.

Conclusion

Being different from the norm, the Farella will sound too vivid for many. A minority, however, will find the extra injection of life and pace they're looking for. The solid build and classy finish provide decent value for money, while the high sensitivity is a worthwhile extra bonus. PMe Postscript: Audiofreaks has informed us that Cabasse is changing the crossover network of the Farella 400 in response to criticisms that its balance is too 'forward'. Models reaching the shops after July should sound more

restrained than our review samples.



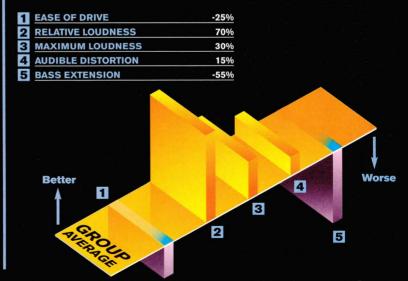
THE LAB REPORT

Putting the 'loud' firmly back into 'loudspeaker' and challenging Musical Fidelity's Kelly range on home ground, the Cabasse Farella 400 will muster an astonishing 95.4dB sensitivity at 2.83V/1m. With a maximum continuous power input of 100W, a pair of 400s would realise an ear-crushing maximum of 110-111dB SPL at 2m in the average room. However, though Cabasse also specifies its speakers to withstand a momentary power input of 700W without damage, this does not mean the Farella 400s will generate a peak output of 119dB SPL! (see my Oasis column last month).

And the price? Well, its bass extension is limited by the -6dB point of the driver (60Hz) and 34Hz port-tuning, giving a projected in-room figure of about 40Hz. The speaker load, however, is not too difficult, with minima of 4.30hms at 200Hz and 4.20hms at 3.6kHz and a band average of 9.40hms.

There is some peakiness in its forward response immediately following the 1.4kHz crossover point while, off the horizontal axis, this begins to look more like a step-function, leading into a progressively rolled-off treble. Distortion also increases to around 1 per cent in the 1-4kHz range (re. 96dBA, pulsed) though its performance improves through lower bass and higher treble frequencies, suggesting the 'presence' band might appear more coloured. PMi

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JBL SVA2100

t's just as if JBL had taken the SVA1500 standmount we reviewed a few months back (HFC 174), and put it into a magnification machine so that it came out 10 times bigger. The 1500 was arguably too small to impress, yet this 2100 is a real monster — too big for the majority of British customers and homes, I daresay. It looks like it belongs in a Goldilocks scenario, with something halfway between (such as the SVA1800) more likely to do the business.

Still, there's no denying you get a lot of speaker for your money. It's at least twice the size of its competitors in this test, and turns the scales round to a daunting 40kg. Two 10-inch-frame main drivers and two large rear ports provide a much greater bass radiating area than the competition, too.

Pretty it's not: the acreage of black vinyl woodprint couldn't help but dominate all but the largest rooms. However, the large Prostyle 'elephant's bum' horn tweeter brings plenty of attitude to a party where the emphasis is primarily on putting the Loud into Loudspeaker. The 2100 looks like a USbuilt JBL, and its £1,250 pricetag is by no means unreasonable in view of the bulk and shipping costs involved.

You don't get any fancy cosmetics here, nor any neatly chamfered box edges, but

VERDICT VALUE PRICE £1.250.00 THREE YEAR GUARANTEE Monstrously large with brutish styling. Goes very loud as well as deep. Fine focus but some boxiness. Gamepath Ltd, 25 Heathfields, Stacey Bushes, Milton Keynes, Bucks MK12 6HR (01908) 317707

that large bi-radial horn driver is the key Unique Selling Point (USP), carrying all sorts of messages about kit musicians use on stage. Horns have high sensitivity and controlled directivity, and the latter will reduce the proportion of room-reflected versus direct sound which reaches the ears. However, the SVT2100 will behave as an omni-directional point source at lower frequencies, before the horn takes over, and the problems of achieving a good blend between bass and horn are far from trivial.

The back panel has two terminal pairs and two enormous reflex ports. The whole thing sits on plastic feet, the front two adjustable, and if this doesn't give the security of adjustable spikes, the 40kg weight and deep footprint are sufficient to ensure stability.

Massive bass output makes free-space siting mandatory. The in-room, far-field measurement shows a good balance across the band, albeit with strong low bass output — the bottom octave (20-40Hz) is about 6dB up on the rest of the band. However, the good overall balance is punctuated by significant uneveness.

Sound quality

With all the visual cues taken out of the equation. the SVA2100 didn't sound

all that different from the norm — much to the panel's surprise. And while it may not be a great loudspeaker, it is certainly a very competent one, delivering exceptionally powerful, deep, clean bass with an attractive evenhandedness elsewhere too.

There's some lack of smoothness and transparency here, which is made all the more obvious because the broad midband is just a little laid back and undemonstrative. And on some material the bass output can

> become a little too excessive. But the hands-on work confirmed the

> > prodigious headroom and power handling on offer here, which makes it just the ticket for students of the latest dance grooves.

Conclusion

Is this a real hi-fi speaker, or something scaled down from the PA (public address) sector? It's a difficult question to answer. many respects the SVA2100 works rather well, delivering a good if bass-heavy balance, decent sensitivity, plus impressive detail and focus, though it is not the last word in smoothness and transparency. It's obviously a lot of speaker for the money, and has massive loudness potential too, though the sheer physical bulk could remain a deterrent in many

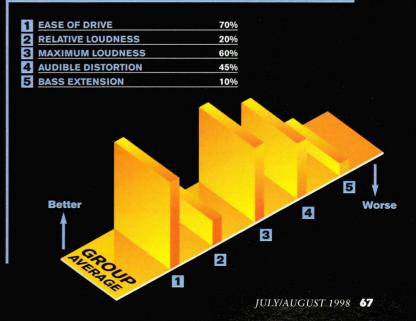


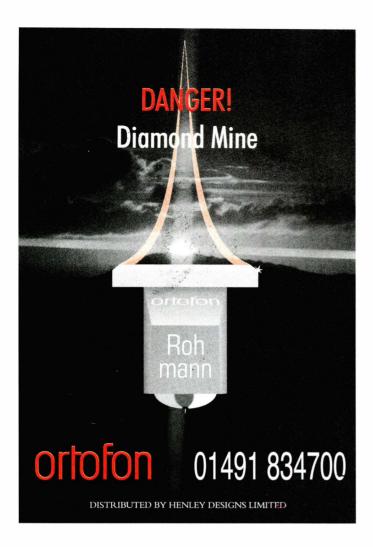
THE LAB REPORT

This SVA2100 may look like a monumental version of the SVA1500 reviewed in HFC 173, but its larger, bi-radial horn has a much improved dispersion characteristic, helping to produce a surprisingly flat and even response from 300Hz right up to 10kHz (a sharp cancellation notch at 12kHz is unlikely to be audible). Positioning is not quite so critical — you'll experience a slight loss in 'presence' off-axis — though a listening height on a level with the top of the horn gives ideal results. The larger SVA2100 may fall short of its rated 93dB sensitivity, but 92.3dB/2.83V/1m is still very much more sensitive than the little SVA1500, leading to peaks of 112dB SPL with a mighty 300W amplifier!

And though these are by far the largest speakers in our test this month, they won't necessarily produce the deepest bass. Sure enough, the two rear-facing ports are accurately aligned to 34Hz, coinciding with the driver null(s) and minimum impedance, but this is a high-Q tuning with a rapid roll-off — good enough for around 28Hz (re. -6dB) under standard conditions. Big swings in impedance 60hms to 770hms at the system resonance along with equally sharp swings in phase angle also suggest a fundamentally undamped design. PMI

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Magnat Vintage 720

The Magnat name will probably be unfamiliar to many readers, as this 30-year-old German brand's products have, to the author's knowledge, only made fleeting previous appearances on the UK market. Check out its German home market, however, and you'll find that Magnat is a major name. Then check out the Pound/Deutschmark exchange rate and you'll see an additional incentive for Henley Designs' new initiative to reintroduce the brand.

Having myself encountered Magnat at some overseas shows, I was aware of some of its technical achievements, like the plasma ion tweeter. Yet these always seemed somehow at odds with Magnat's fang-baring bulldog logo, backed up by a slogan that translates as 'Speakers with Bite', leaving the company itself something of an enigma — something which the arrival of this Vintage 720 for review has done little to dispel.

At £1,200 it's among the least expensive in our test group, yet it's also the tallest, and at 27kg one of the heaviest. It is not, however, one of the prettiest, and that judgement shouldn't be construed as size-ist. In fact, it's the smallest of three floorstanders in the Vintage 700 series, even though its black front (which remains black, grille on or

off) seemed to loom rather large in our room. Happily it's not too wide or deep, has an interesting hexagonal plan shape, and the other five faces have a real-wood finish, with

four options to choose from. Ours had a rather anonymous grain, and the panel fit around the base area might have been better.

In an essentially simple two-way design, the 720 uses two main drivers with hunky cast chassis and 120mm metal cones above and below a 14mm ceramic dome tweeter (d'Appolitostyle). A large (70mm) rear port should provide ample extra bottom-end reinforcement. The driver chassis motif is echoed in the real terminal panel, itself a chunky casting with enormous, wellseparated multi-way terminals, offering bi-wire/-amp options. In contrast, the 6mm floor spikes look like a bit of an afterthought.

The in-room, far-field response shows a fine overall balance with impressive bass extension, and sufficient midbass output to imply that free-space siting is mandatory. The overall balance looks very well judged, though a touch of 'three-humped' character is also visible, separating midband from bass and treble from midband.

Sound quality

The first day's panel was so impressed by this speaker I repeated it the following day — only to find it receiving a similarly enthu-

siastic endorsement. The secret of its success would seem to lie in combining the weight and scale of a large loudspeaker with the coherence of a simple two-way configuration.

The end result might not be the smoothest or most delicate sound around, but it does pack a serious punch. with good weight, plenty of impetus and a real sense of purpose. The presentation is a little crude — the bass can sound rather thumpy with some material, and the presence is a bit shut in — but the whole is more than the sum of the parts here, and the end result is entertaining and communicative, rough edges notwithstanding.



Conclusion

Fine results in the listening tests put this newcomer well on track for success in this month's test. In the final analysis it falls just short of a Best Buy, but remains a doughty performer that combines serious welly and ample headroom with fine timing and good communication skills. It may not be the prettiest speaker in the group, but it's great value for money. PMe

THE LAB REPORT

Both on- and up to 30 degrees off-axis, the 720's response shows a slight depression through the lower treble 'presence' region, but it has a far smoother-looking treble than many of its competitors in this test. Only the bass looks a little lumpy, but then this is not uncommon with large 3-way designs and can be minimised by keeping the speaker clear of room boundaries. And its bass is uncommonly extended. The large, rear-facing port is tuned to 29Hz but actually provides a broad, low-Q reinforcement that extends from 25-105Hz, pushing the speaker's bass -6dB extension down to 22Hz-or-so in the average room.

In point of fact, at typically 0.3-0.4 per cent, the 720 has one of the lowest bass distortion figures on record, even at sustained levels of 96dBA. Neither is the speaker assisted in this effort by an exceptionally high sensitivity — 88dB/2.83V/1m will have to suffice, I'm afraid. Perhaps this explains the slightly higher 'quacky' distortion evident through the midband, at closer to 1 per cent. The impedance trend also shows an additional swing in load and phase angle between 1.8-4kHz caused, I presume, by the speaker's complex crossover network. Otherwise the load is a little taxing, with its 3.10hm minimum occurring at 120Hz and the average figure amounting to just 7.40hms. PMI



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Naim Credo

hoice tested Naim's Intro speaker in HFC 164, and this £1,090 Credo looks very similar indeed, while costing nearly twice the price. There are, however, several important differences. This more upmarket version is finished in a real-wood veneer rather than vinyl woodprint, and also features Naim's classy castchassis main driver, plus a more elaborate external crossover. Indeed, the Credo owes a considerable design debt to the longstanding, ongoing and much more expensive SBL: both its main driver, and the design approach which houses the vibration-creating main driver in its own enclosure, have been 'borrowed' from the SBL.

Unlike the SBL, Credo mounts this smaller box directly on top of a larger floorstanding enclosure, which expands the total enclosure volume considerably, and also accommodates the tweeter. The two boxes are acoustically connected through large holes in their connecting faces. Three little plastic pegs decouple and locate the upper box, and are very precisely dimensioned to create a slit gap between the two boxes. This acts as a (relatively small) reflex port. A metal strip in the base provides secure spike attachment and a measure of controlled decoupling (to avoid exciting the floor).



Veneer apart it's not the prettiest speaker around - accommodating Naim's eightinch, cast-frame main driver with its largish 140mm doped paper cone resulted in a rather boxy looking shape. Sharp edges and corners all round don't help, but it is at least

a lot shorter than many floorstanders, with neat grille and badge treatment. An external crossover is housed in a plastic box that is fixed onto the back panel, with flying leads that plug into the drivers, and just a single pair of input terminals. Bi-wiring is therefore not possible, but completely removing the crossover allows the speaker to be upgraded to active drive at any stage in the future if desired.

The room-averaged responses show many similarities to the Intro, but some differences too. The treble is less obtrusive now, but the upper midband is consequently a little more exposed, with a lack of upper bass and lower midband output. The bass shows a strong 50Hz room mode emphasis, so is likely to remain uneven whatever the placement.

Sound quality

Despite some reservations over the sonic presentation, the panel reacted guite positively to the Credo, simply because of its effectiveness in dragging the detail and the music out of the grooves and pits.

The dynamic range is very good indeed, and midband dynamics are more expressive than most, providing the sort of sub-

tlety in textures that less accom-

plished designs merely gloss over. But the sound is also a little cold and clinical, and the bass rather lumpy and thumpy - not slow or thick, but somewhat uneven and lacking in warmth. Speech too has a slightly 'pinched' character, and the forward character does tend to highlight deficiencies in microphone technique.



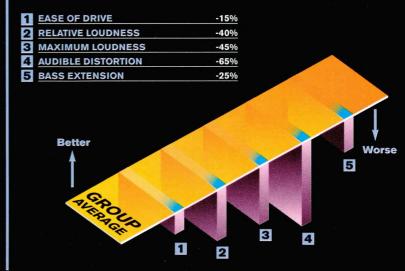
The Credo is an interesting, entertaining and very involving loudspeaker, following a now well-established Naim speaker tradition by giving greater precedence to mechanical considerations acoustic behaviour. The result is a rather uneven mixture which proves highly effective at getting to the heart of musical rhythmic subtleties, but at some cost in terms of tonal accuracy. Some listeners also found its presentation a little too edgeof-seat for comfort. PMe



It is about twice the price and marginally less sensitive at 89.5dB/2.83V/1m than the Naim Intro reviewed in March '97, but the technical parallels between the Credo and its forebear are obvious. Even the pattern of distortion is similar, including the (relatively) high 1 per cent second harmonic at HF which is around 8-10dB behind that of other speakers in this test. This still confers less 'character' than would a strong 3rd harmonic and, in all likelihood, will be swamped by the speaker's mid-dominant response, which leaves its upper octaves looking far smoother. This balance has evidently been engineered, assuming the listener's head-height is roughly on a par with the top of the bass/mid cabinet assembly.

A nearfield analysis is complicated by the speaker's resistively-loaded bass-alignment; nevertheless, from the driver null and impedance minimum, it's reasonable to assume a low, tuned frequency of around 34Hz. This equates to an in-room extension of about 35Hz with the Credo's back to the wall! Meanwhile, the driver's output is unusually 'rippled' with peaks at 85Hz, 210Hz and 475Hz together with dips that coincide with obvious reflections on the impedance trend at 175Hz and 350Hz. Like the Intro, the Credo's overall load is fairly tough with an average of just 7.20hms, including a sub-80hm span from 80Hz-1.5kHz. PMi

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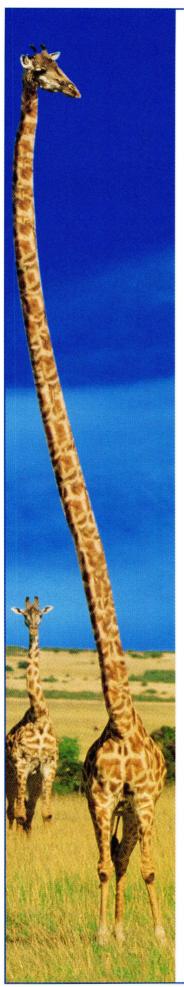
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Audiovector M2

his isn't the first time Audiovector has appeared in Hi-Fi Choice — we reviewed a 3X model three years ago (HFC 143) — but this is the first appearance under its new importer Glaive Ltd. This brand represents the more specialist and upmarket face of Denmark's very successful loudspeaker industry.

The company has actually been around since the '70s, following a consistent quality-oriented philosophy without attempting to go for price-led mass-market sales. The £1.399 M2 is the least expensive floorstander in a six-strong M-series, which was introduced in 1997, and is particularly unusual for offering a degree of future upgradeability to either the M3 or M3 Signature models, which feature better drive-units and enclosure engineering.

The M2 stands around a metre tall and presents a rather sober, severe and monolithic appearance, especially in the black finish. (Cherry and rosewood alternatives cost £100 and £200 more respectively.) Handsome rather than discreet, with real wood on five faces, its build feels exceptionally solid and substantial, the whole thing standing on a very chunky, angled plinth. This provides secure accommodation for four meaty spikes, a decent size stability



footprint, and a degree of variation in enclosure height which might slightly de-tune the internal column resonance.

A 'two-and-a-half-way' driver configuration uses both main drivers (and the rear port) through the bass region, rolling off the lower one early and running the upper one right up through the midband to the tweeter crossover point. The tweeter implementation is interesting, as its diaphragm is vented through the magnet assembly but isolated from the pressures inside the enclosure by an extra port tube. This is fixed to the magnet and leads out through the rear panel. Three separate terminal pairs give the full bi-/tri-wire/-amp flexibility.

The in-room, far-field response indicates that the speakers should be sited clear of walls, and shows a very smooth, essentially neutral, if slightly rich and laid-back balance, with a noticeable presence dip (3-4kHz) followed by a mild treble peak (10-12kHz).

Sound quality

The M2 was pressed into service as a 'known reference' on the first listening test day, acquitting itself very well and gaining general approval for its evenhanded neutrality. Results were rather less consistent with the 'blind' presentations the following day,

> but the Audiovector still received general approval for its clarity. drive, and overall smoothness.

The reservations were mostly of a slight 'boom'n'tizz' character. The bass has fine momentum and decent timing, but also a slight tendency to thump and sound a little too full and rich. The top end is rather inclined to draw attention to itself - though this open-back tweeter design certainly sounds uncommonly clean and open.

Partly as a consequence of the latter, no doubt, the midband seems a little too restrained and slightly 'shut in', and lacking in dynamic generosity and grip, though taken as a whole this is a fine allround package, which does little wrong and most things well.

Conclusion

This is a good all-round loudspeaker, which shows the sort of close attention to detail and commitment to sound quality that characterises the genuine and serious specialist. Slim, elegant and very well put together, its option of future upgrade potential is an unusual extra incentive, over and beyond an impressively smooth

and evenhanded sound. PMe



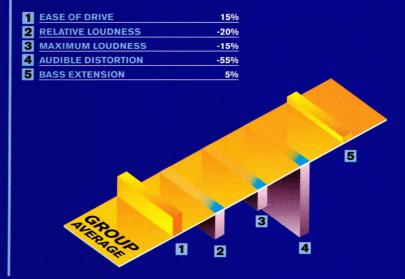
THE LAB REPORT

The M2 is described as a "2.5-way loudspeaker", and its two 18cm bass drivers work up to 160Hz, leaving the central unit to carry on alone to 3kHz where it crosses over to a 'low compression' treble dome. This is a relatively wide passband for a doped cone and, perhaps unsurprisingly, the response does decline throughout the midrange (there's an obvious mistermination glitch at 1.1kHz) before becoming rather ragged from 3-6kHz.

There's no mistaking the bite of its treble, however, which increases up to +5dB above the mean speaker output at 10-12kHz. The bright treble seems equally prominent off-axis but it can be used to justify Audiovector's 91.5dB sensitivity. Taken across 3rd-octave bands 17-29 (500Hz-8kHz) the sensitivity falls to a more realistic 89.8dB, with maximum SPLs as high as 108dBA.

Bass distortion remains relatively high at >1 per cent re. 96dBA (2nd harmonic in nature), but the two drivers do roll-off cleanly to a -6dB point of 58Hz and are augmented by a rear-firing, low-Q reflex port. The upper 'port' only isolates the HF unit. This lower port offers a useful, -3dB reinforcement of 28Hz-90Hz, bringing the in-room extension close to 35Hz. This also coincides with an impedance minima of 3.40hms, however. Indeed, the entire sub-500Hz band lies pretty much below 8 Ohms, taxing the LF performance of some amplifiers. PMI

HOW IT COMPARES



The Cartridge **Family**



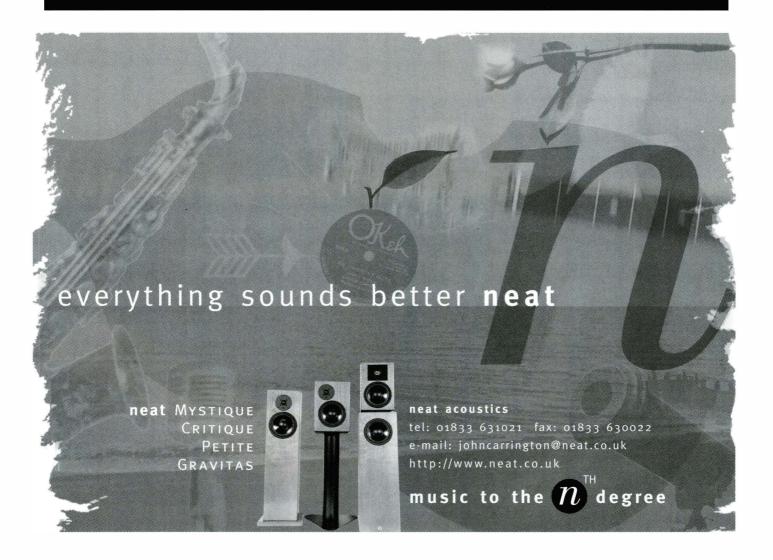






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JM Lab Spectral 909.1

M Labs is a long-standing and highly regarded French loudspeaker brand which only recently has become available in Britain. The initials refer to founder Jacques Mahul, who left Audax in the late '70s in order to start up his own company, Focal, now well known as a manufacturer of high-quality drive units (notably the inverted-dome tweeters one sometimes encounters). Complete speaker systems are made and marketed under the JM Lab imprint we appraise here.

The £1,375 Spectral 909.1 is about halfway up our test-group price ladder, and occupies roughly the same position in the JM Lab hierarchy. The latter kicks off with a sub-£400 standmount and extends up to the £33,000 Grande Utopia. The smaller of two Spectral models, the 909.1 is nonetheless a very substantial speaker indeed, standing more than a metre tall and weighing an intimidating 34kg, thanks presumably to the double-thickness side panels and four-driver configuration.

Though it is handsome enough in its bulky way, one would be hard-pushed to describe the 909.1 as pretty, despite the hefty hardwood side panels, and heavy post-forming along their front edge. There's

VERDICT PRICE £1.375.00 THREE YEAR TRANSFERABLE Lots of high-class speaker engineering for the money, but the sound as a whole lacks delicacy and subtlety. Sound Image UK Ltd, 52 Milton Road, East Sheen, London SW14 8JR (0181) 255 6868

real wood and real wood, and this African Anigre is not distinguished by attractive figuring or grain. The top, base, front and back are all textured vinyl. A set of spikes is supplied, without lock-nuts (though the weight of this speaker was quite enough to

ensure good stability on its decent footprint).

The four drivers are organised in a three-way configuration, twin bass units mounted above and below a separate midrange driver and tweeter. Cast chassis are used throughout, the bass drivers using 125mm Polyglass cones, the mid a 90mm Polyglass with phase plug, and the Tioxid tweeter a 26mm concave dome with phase compensator. The twin terminal pair splits the drive between bass and mid/treble sections.

Clearly intended for freespace siting well clear of walls, the Spectral 909.1 delivers a fine overall inroom balance, albeit with some elements which are bound to result in a degree of sonic 'character'. The upper bass is a little too full, while the upper midband is also rather prominent, and not too smooth either.

Sound quality

I always discard the marking for the first speaker of the day, as it's usually both negative and unreliable. The trouble is, second time around the Spectral 909.1 fared only a little better. It's not a bad speaker as such one panellist wrote approvingly of its decent dynamic performance — but the rest were generally underwhelmed by the

> sound, criticising its edgy 'forwardness' and lack of full top-to-bottom coherence and transparency.

> > "Not much wrong; not much right. Just OK; doesn't grab me," wrote one panellist, and I have to admit that the hands-on work only served to confirm that thumbnail sketch. It's not that there's anything desperately wrong here — the bass goes very deep and the balance is studiedly neutral. But there just isn't the sweetness and coherence of some of its rivals, thanks in part to the slightly exposed and edgy upper midband.



It's my suspicion that this speaker is a victim of its own complexity, since it lacks the delicacy and subtle coherence of simpler two-way designs. While it does a lot of things very competently, and provides plenty of serious engineering content for your £1,375, the whole is somehow less than the sum of



THE LAB REPORT

Achieving the optimum listening height is everything with this speaker. My data suggests an axis midway between the uppermost bass unit and midrange driver where the averaged 3rd-octave response trend looks remarkably smooth and extended. Remarkable not only because of the 909's evident complexity but also because it combines this with excellent off-axis uniformity and a generous 91.5dB sensitivity.

A narrowband analysis suggests the speaker is rather less tidy, through what I presume is a crossover region at 2-4kHz. Distortion also increases through this region from a low 0.2-0.3 per cent achieved through the bass and lower midrange to a somewhat more obnoxious 1.5-2 per cent. The complex and fearsome impedance trend also takes an unexpected dip to 3.90hms at 2.1kHz with an additional swing in the phase angle. The absolute minimum of 3.10hms occurs at 130Hz, leading to a current-hungry average of just 6.60hms. Tough amplifiers only need apply!

The speaker's LF alignment clearly pushes its bass extension into the 20-30Hz region, with the front-facing port operating over a full 24-76Hz (-3dB) and the bass driver(s) achieving a natural 51Hz roll-off. However, there is sharp resonance from the port at 790Hz, just following what appears to be the bass crossover at 650Hz. An interesting and complex design, nonetheless. PMI

HOW IT COMPARES 1 EASE OF DRIVE 2 RELATIVE LOUDNESS 45% 3 **MAXIMUM LOUDNESS** 35% 4 AUDIBLE DISTORTION -35% 5 BASS EXTENSION 5 2 JULY/AUGUST 1998 77



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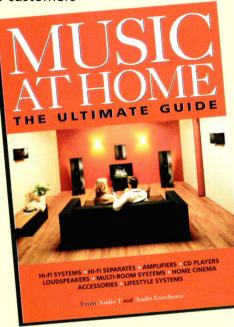
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YAMAHA

Monitor Audio 705PMC

onitor Audio is well known for producing some of the prettiest cabinetwork around, and this real-woodveneered compact floorstander is no exception to the rule. However, in the context of this test group — and also the less expensive models in MA's PMC range — the £1,400 charged for this 705PMC does seem rather steep. (Check out our reviews of the rest of the range: 700PMC in HFC 152, 702 PMC in HFC 174, 703 PMC in HFC 160.)

The 705PMC looks very similar to the 703PMC, but whereas that model uses a single main driver loaded by a large reflex port, this 705PMC has two main drivers operating in sealed-box mode. It stands a few centimetres taller too, but neither of those factors provides justification for the huge £600 price difference between two such similar models from the same stable. Still, it does have one of the nicest surface finishes around, and neatly softened edges that are tricky to achieve properly — those are bound to be reflected in the price tag.

Top-class ingredients include castframe, metal-diaphragm drivers, rebated into the front panel. However, their gilt anodising might be a bit too strong for some tastes, and the grille is best left off for acoustic reasons. The main drivers have

VERDICT VALUE PRICE £1,399.99 THREE YEAR TRANSFERABLE Fine midband coherence but inadequate treble. Pricey for the ingredients and performance. Monitor Audio, Unit 34, Clifton Road, Cambridge CB1 4ZN (01223) 242898

115mm metal cones, while the tweeter has a 25mm metal dome, well protected by a coarse mesh. Spikes are fitted directly (and most effectively) into the bottom panel, but there's no plinth, so the fore-to-aft footprint is limited.

The 703PMC delivered one of the smoothest in-room balances I've ever recorded. so it was disappointing to find that this 705PMC isn't really in the same ballpark. The tweeter looks to all intents and purposes the same, so the addition of an extra driver merely results in 3dB or so extra through the midrange — ergo the balance is now short of treble. The bottom end is more favourable, the sealed box loading improving extension and delivering a 'dry' balance which is well suited to close-to-wall siting.

Sound quality

Considering its shortcomings in tonal balance, the 705PMC didn't disgrace itself in the listening tests. The fine midband coherence of those metal diaphragms gives

impressive focus, detail and delicacy, which drew decent enough marks and comments from half the panel.

The problems, however, lie outside the broad midband. There's simply not enough treble here, and the end result sounds determinedly shut-in and over-restrained. As one panellist put it: "thick and treacly". The bass, too, is a bit of an underachiever in the context of this upmarket group. It's clean and smooth enough, but is short of weight, drive and impetus, tending to plod on regardless of the subtleties musicians might be trying to convey. Dynamics, too, seem rather muted, and 'softened' leading edges do little to break down the barriers between the music and the listeners.



There's no denving that MA's metal cones have their own special and persuasive qualities, but price is the stumbling block with this implementation. It costs £600 more than its similarly-sized 703PMC stablemate, yet in crucial areas it's actually not as good. On this occasion, slapping in an extra main driver seems to have done more harm than

good to the sound. PMe



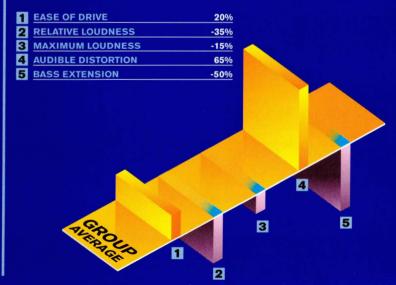
THE LAB REPORT

MA's 705PMC betrays only a superficial resemblance to the reflex-loaded 702PMC (HFC 174). Once again, it is emphatically not a speaker with a sting in its tail, its forward response falling gently away by 7-8dB from 200Hz to 2-3kHz where it finally flattens out. This very mild balance is even more apparent as the speakers are toed inwards — at 30 degrees off-axis, the drop from 200Hz to 12kHz is around 10dB! Even so, and bearing in mind this is a sealed-box design, the effective sensitivity of the 705PMC is not bad at 89.5dB/1m.

Then again, the 705PMC's impedance trend is fractionally tougher (though not especially grim) than that of the 702PMC with an average of 90hms and a minimum of 3.60hms at 215Hz. Fortunately, it's mercifully free of the additional swings in phase angle noted with the 702.

In further contrast, my narrowband analysis reveals a cancellation notch rather than two sharp peaks around 2.9kHz from the 705PMC, though MA's alloy-dome treble unit still makes itself known with a sharp break-up mode at 26kHz. Distortion remains usefully low, typically 0.3 per cent through bass and treble frequencies but up to 0.8-0.9 per cent in the low-kHz where the metal-coned drivers are working hardest. A speaker to temper the brightest of systems, no doubt. PMI

HOW IT COMPARES





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Celestion A2

elestion's standmount A1 was a hit in the mid-price group test we conducted in HFC 164, so perhaps it's surprising the company has taken so long to get around to this next model in the series, a £1,500 floorstander logically dubbed the A2. Incidentally, it cost only £1,200 back when we tested the A1. There's a close family resemblance between the two models. but the A2 is distinguished by an extra main driver as well as its much larger cabinet.

The weight of the whole thing is 30kg, evidence of the very solid build. Our samples were in the rosewood finish, which carries a £300 premium, but the quality of workmanship in these German-built cabinets is truly exceptional, with solid-wood edge pieces giving a very classy appearance.

Advanced technologies were part of the design processes. Finite element analysis helped create the 25mm titanium dome tweeter, while laser interferometry was used to place the internal box bracing for best effect. The main drivers have cast chassis and 135mm injection-moulded cones, with Faraday rings to stabilise the magnetic flux. According to the propaganda, the A-series models are intended for home cinema as

VERDICT VALUE PRICE £1,499.00 (£300 EXTRA FOR ROSEWOOD FIVE YEAR GUARANTEE Entertaining, stylish and conveniently compact, with plenty of bass weight, and well suited to home cinema or hi-fi duties. Celestion International, Ecclestone Road, Tovil. Maidstone, Kent ME15 60P (01622) 672261

well as hi-fi applications, so it's only to be expected they should have an appropriately full tonal balance.

One might tend to assume

from the size and type that this speaker is likely to work best well clear of walls. But the room measurements indicated. and listening confirmed, that some wall reinforcement is beneficial there's plenty of low bass here, but it tends to measure and sound a little detached when the speaker is well away from walls. Overall the in-room balance is commendably smooth, with bass rich and laid back, if a little bright.

Sound quality

The listening panel was guite taken with the A2. enjoying its "well balanced, civilised presentation". There was general agreement that the bass erred on the rich and heavy side of neutrality, but there was less certainty over its quality, which could seem a touch leaden and detached.

The midband is very evenhanded, but also just a little too laid back for some tastes: "Very controlled; doesn't want to let go," was one panellist's opinion, while another felt that strings lacked sufficient 'sheen' even though

> the ultimate top end was a bit 'glassy'. Midband dynamic expression is not a forté,

though its manners remain impeccable throughout.

Moving the speaker closer to the wall did help the bass quality somewhat, improving the integration and timing even though the richness was further emphasised. The stereo soundstage is impressively coherent too, though perspectives shift a little when one moves listening position.

Conclusion

A lot of very good-looking speaker helps justify the hefty £1.500 price tag in this group context, though the A2 does look rather expensive against its A1 standmount sibling (Best Buy HFC 164). And although the A2 has the advantage in deep bass grunt, its midband is a shade too laid back and the treble consequently a bit intrusive. Nevertheless it remains an enter-

taining, stylish and compact package, equally suited to home cinema or hi-fi duties. PMe



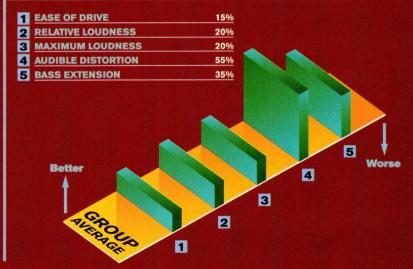
THE LAB REPORT

While playing second fiddle to the likes of Cabasse and Living Voice, this heavyweight box still puts up a surprising 92.3dB/2.83V/1m sensitivity and maximum output close to 109-110dB SPL — should you have no respect for your hearing. Low distortion goes hand-in-hand with such a figure as the drivers are under minimal stress, even at the 96dBA test level: here the A2 achieves better than 0.5 per cent across the entire audioband.

Celestion rates its A2 at a conservative 90dB and specifies a nominal 40hm load which is also erring on the side of caution. In practice there's a minimum of 4.70hms at 10kHz but the 9.20hm average is far from difficult. Otherwise, the price for Celestion's high sensitivity is probably paid in its classic 'three-humped' forward response trend, with emphasis in the 2-4kHz band and 10kHz region bringing an added degree of liveliness to its

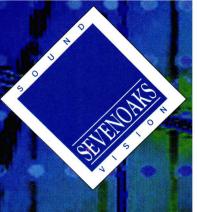
The response is generally smoother off-axis but bass below 600Hz might start to dominate if care is not taken over siting. This said, Celestion has obviously taken great care in the A2's bass alignment with the relatively sharp output of the port coinciding precisely with the driver null and impedance minimum at 33Hz, driving the speaker's -6dB point to 28Hz. PMi

HOW IT COMPARES



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Chario Academy 2

hough it is a relatively new name on the UK scene, Chario has been in the speaker business since 1975, and has been actively exporting for more than a decade. This very comprehensive and goodlooking range of speakers is Italian in origin, but is being brought into the UK by the Musical Design Company, and is doubtless benefiting from the current exchange rates.

Choice had a look at one of the least expensive models in HFC 170, but the little Syntar 100 didn't make a particularly strong impression. Now we've moved much further upmarket to this absolutely gorgeous — but at £1,649 undeniably expensive — Academy 2, the only standmount in our group test.

It's probably the most expensive standmount Choice has tested, and the most beautiful. This is thanks to the box being built — sculpted is perhaps the better word - from planks of solid walnut, one inch thick. Neatly dove-tailed joints, a sculpted baffle that narrows up around the tweeter, and softened, rounded edges all add up to a beauty which in this case is definitely more than skin deep, and which is also claimed to offer significant sonic benefits too.

A simple port-loaded two-way configura-



tion uses a main driver with 130mm cone, plus a 28mm fabric-dome tweeter. Chario's attractive matching real-wood stands were supplied (£250 extra), which certainly make sense if aesthetics are the main priority, though MDC was happy at the suggestion that the rigidity of a mostly metal (Kudos S100) stand was likely to give superior performance.

Being significantly smaller than the other models in the test group, it's hardly surprising that the Academy 2 doesn't have seriously deep bass on its agenda. However, the in-room far-field measurements show that the generous port has more than ample output, and the Academy 2 is best kept well clear of walls. Interestingly, in an otherwise impressively smooth trace, the speaker shows a brief-but-deep suckout close to the crossover point (1.6kHz) — similar to that recorded by the Syntar 100.

Sound quality

The Academy was well received by the listening test panel, despite (or perhaps partly because of) its relatively modest dimensions. While it does lack the weight of some floorstanders in the test group, it manages to avoid sounding 'small', actually generating a good sense of scale, the slight midbass excess somehow subjectively making up for the loss of the bottom octave.

It's engagingly nimble and light on its feet, and the presentation is warm and relaxing, partly because of the way the presence suckout 'softens' any edgy tendencies. This doesn't seem to lose much with musical information, bar perhaps a touch of 'bite', though speech does sound a little 'swallowed' with slightly suppressed consonants (and a touch of chestiness too). Another consequence is that the speaker likes to be played quite loud, but always manages to maintain its innate sweetness and good manners.

Conclusion

The Academy 2 is a compact aristocrat of a loudspeaker, to which the art of music making seems to come effortlessly and naturally. It has shortcomings, such as a slight lack of weight and 'bite', but the sheer artistry of the cabinetwork will win many friends. The sum-up seems to point firmly towards a Recommended flag — especially where politeness is a priority. PMe



THE LAB REPORT

Not only is the Academy 2 physically smaller than its partners in this final group of four, it's also substantially less sensitive at 85.2dB/1m. Volt-forvolt, it's almost 10dB quieter than the Living Voice, for example. All else being equal, this suggests you'll need 10 times the amplifier power to achieve the same output. Naturally, not everything is equal and the load presented by the Academy averages out at 9.60hms over the audioband with relatively 'safe' minima of 6.20hms @ 46Hz and 6.50hms @ 3.65kHz.

Both on and off-axis, its response suggests a very 'rumbly' bass with more than a little enhancement up to 300Hz and some 'peakiness' near, what I presume, is the crossover point at 1.5-2kHz. THD also increases from, typically, 0.4 per cent to 1-2 per cent through this region where the impedance and phase angle trends also go through an additional swing due, I presume, to a high-order network.

A nearfield analysis confirms the Academy's substantial bass reinforcement with a high-Q port resonance at 53Hz coinciding almost directly with the equally sharp driver null at 50Hz. Pity about the spurious resonance breaking through at 700Hz, otherwise this would have looked very clean indeed. A position away from bookshelves and walls is recommended. PMI

HOW IT COMPARES EASE OF DRIVE **RELATIVE LOUDNESS MAXIMUM LOUDNESS** -60% **AUDIBLE DISTORTION** -45% 5 BASS EXTENSION

Heybrook Octet

eybrook usually concentrates its efforts at the more affordable end of the market, and has always had the knack of balancing small standmount designs like the redoubtable Heylios (*HFC* 164). Its floorstanders have been less common and perhaps less distinguished, though I have fond memories of the three-way Sextet which came our way in 1992 (*HFC* 102). Celebrating 20 years in the speaker building business, Heybrook is introducing this new 'flagship' Octet model, which at £1,800 sits at the top of our test-group price ladder.

Its shape follows the classic compact floorstanding stereotype, with classy real-wood finish cabinetwork, chunky, purposeful proportions, and rounded box edges to soften the lines. The Octet is one of only three models in the group to offer 'fail-safe' spiked floor-coupling, in this instance by the provision of a small metal-frame stand which accommodates chunky 8mm spikes.

The driver array makes an impressive technological mélange. The bass end is handled by a pair of 120mm carbon-fibre diaphragm, cast-frame drivers operating in tandem, with further assistance from a modest front port. The midband has a 90mm aerogel cone, again in a cast basket, loaded

VARDICT

SOUND

VALUE

PRICE

£1,800.00

TWO YEAR GUARANTEE

A handsome but pricey floorstander. Nice midband, but let down by the piezo-electric tweeter that looks after the top end.

Heybrook, Clemo Road, Liskeard, Cornwall PL14 3NH

(01579) 342866

by a ceramic enclosure inside the box. The Audax-sourced tweeter is even more dramatic, featuring a large (28x42mm) lozenge-shaped diaphragm made of gilt poly-

mer, which is driven via a gasfilled envelope from a piezoelectric transducer. Despite the three-way configuration, just two pairs of terminals are fitted (splitting the mid/treble from the bass). Irrespective of convenience, these new style-shrouded pins didn't seem too positive mechanically, when used with heavy cables.

The 'dry' bass balance found with the in-room, far-field responses indicate that some wall reinforcement is likely to be beneficial, though the upper bass is a trifle prominent. Elsewhere the midband is well maintained up to 2.5kHz, but far from smooth en route, while the treble is also distinctly uneven as well as somewhat lacking in level.

Sound quality

The Octet failed to justify its high premium in the listening tests. It didn't disgrace itself, but reactions varied from the positive: "This does pretty much everything right", to the opposite: "The sound seems so divorced from the music... I certainly would-

n't... rush home at night to listen to this."

The Octet's strength undoubtedly lies in its midband, which is impressively coherent and quite expressive, if not entirely free from

coloration. The latter is rendered more noticeable because

the top end has a rather shut-in, over-restrained and 'hooded' character, despite some 'splash'. The bottom end is less of a handicap, sounding dry and free from boom, though ultimate weight is unexceptional, and it seems disinclined to take the initiative and drive things along when the music so demands.

Conclusion

While this is not a bad loudspeaker, it doesn't seem to do enough to justify a significant price premium over the others. Though a good-looking and well-built design, it's a victim of its own complexity, and the costs thereof, while at least one finger of suspicion is pointed at the high-tech piezo tweeter. PMe

Postscript: Subsequent to this review, Heybrook has announced minor adjustments to the mid/ treble crossover of the Octet, slightly increasing the midband rolloff frequency and treble level to

'open up' the top end a little.



1 EASE OF DRIVE 20% 2 RELATIVE LOUDNESS 0% 3 MAXIMUM LOUDNESS 15% 4 AUDIBLE DISTORTION -25% 5 BASS EXTENSION 15% Better 8

HOW IT COMPARES

THE LAB REPORT

Constructed from an interesting assortment of Audax drivers (including a gas-filled piezo tweeter and lightweight aerogel midrange unit), the Octet yields an equally, er, interesting performance. For starters, Heybrook's claimed 92dB sensitivity is only optimistic unless the excess bass and treble energy (200Hz and 10-16kHz respectively) are included in the equation. Otherwise, 90.8dB/1m is nearer the mark. The Octet's impedance/phase angle trend is also rather complex with a safe average load of 10.40hms largely unaffected by the 4.20hm minimum at 125Hz. The large 'blip' at 900Hz and big swing thereafter (as the inductance of the Aerogel coil takes over) do look rather messy, however.

There's also evidence to suggest the two carbon-fibre coned bass units are a dominating influence. Bass alignment is spot-on, for example, with a strong and broad 24-90Hz (-3dB) port output complementing the -3dB roll-off of the drivers at 85Hz. Sadly, a pipe harmonic also escapes at 145Hz. Sure enough, bass distortion is pleasingly low at typically 0.4 per cent (re. 96dBA) but, off-axis, its bass-heavy response is exaggerated as the Aerogel unit trails off up to -5dB (mid) and -8dB (presence) from the 100-600Hz band. Above 6kHz, the novel gold/polymer tweeter takes over, building up to -4dB below the mean 100-600Hz level. An axial listening position, typically 80cm up, is recommended. PMI

Living Voice Auditorium

The Living Voice speaker brand hails from Nottingham, and is best known for its enormous Air Partner horn loudspeakers, and the smaller but similarly super-efficient Air Scouts. Those are serious high-end speakers — I still have fond memories of spending the Christmas holidays with a pair of Air Partners a few years back. At serious high-end prices they can only be afforded and accommodated by the fortunate few. Accordingly LV's Kevin Scott has developed this more affordable £1,500 Auditorium, which attempts to achieve similar goals on a less ambitious scale.

The Auditorium shows some similarity in overall configuration to the Dali 104B, which is one of Kevin's favourite low-cost speakers. However, where that Danish design was built down to a price, and was among the less attractive speakers to come my way, the Auditorium is a far prettier proposition in a lovely real-wood veneer, and boasts considerable internal refinement too.

This is an essentially lounge-friendly design, which looks good and doesn't take up too much space either. The speakers are made as mirror-imaged pairs, with two main drivers in each mounted above and below the tweeter (d'Appolito-style), with additional bass reinforcement provided by a generous (70mm diameter) rear port, tuned to

38Hz. The Vifa-sourced drivers have 125mm doped paper cones and foam surrounds, while the tweeter has a 30mm fabric dome, and is offset from the cabinet centre-line to spread unwanted baffle-edge diffraction artefacts.

Bi-wire/-amp terminals feed a vibration-decoupled (internal) crossover network.

which claims to use high quality, closely-toleranced components, hard-wired to LC-OFC cables using silver solder. The speakers come supplied with separate plinths, fabricated from crackle-finish steel, which raise them 10cmoffthe deck and provide secure fixing for chunky 8mm spikes.

Despite its high sensitivity, the Auditorium delivers plenty of bass output, while the in-room, far-field responses show an unusually smooth and even overall balance through the bass and midband, best suited to free space siting. Like most quality British designs, there's a down-turn starting at around 1.8kHz, creating a slight notch at around 3kHz, followed by a smooth, welljudged treble.

Sound quality

A strong result on the first listening day wasn't quite matched second time around, but the Living Voice's fine pedigree shone brightly

in the hands-on tests, leaving little doubt that this is a capable and refined performer.

Immediately after bringing the Auditoria into the room, one is aware of the restrained and somewhat 'hooded' balance, but after five or ten minute's acclimatisation time this design's very real strengths start to show themselves.

This is an exceptionally subtle

loudspeaker, maintaining fundamentally correct acoustic perspectives and tonality alongside a lively expressiveness and considerable delicacy and transparency. It could perhaps have a little more bass drive and slam, and a bit more presence 'bite' too, but the fine overall coherence and agile sense of timing are of a kind rarely encountered in larger speakers.



The Living Voice Auditorium is a particularly welcome addition to the ranks of higher sensitivity speakers, not just because of its attractive and compact packaging, but more importantly because it combines that high sensitivity with an unusually smooth, neutral and wellbehaved balance. The resulting combination of neutral transparency and fine coherence, with decent dynamics and ample headroom, is sufficiently rare to merit a Best Buy rating, at a high but far from unrealis-

tic price. PMe



THE LAB REPORT

Second only to the Cabasse speakers in this month's test, the Living Voice Auditorium will muster an astonishing 94.9dB sensitivity at 2.83V/1m. Even with the maximum 80W amplifier recommended by LV, these boxes will still achieve around 109dBA SPL at 2m in the average room. Nevertheless, unlike the Cabasse, this has only been achieved at the expense of a punishing amplifier load with a minimum of 3.10hms (250Hz) and a 20Hz-20kHz average of just 4.40hms. Heroic amplifiers only, please.

LV recommends toeing-in the speakers in 'nice stereo' but this also reveals a step function in its response above and below 2kHz, probably due to the offset treble dome. Turn them back on-axis, and a stronger mid/treble balance results.

Otherwise, cone excursion is low so distortion remains fabulously controlled at typically 0.3-0.4 per cent right through the bass and midrange at 96dBA, though it jumps closer to 1 per cent beyond 2kHz until the soft dome gets into its stride. The Auditorium's bass is also accurately aligned with the 43Hz bass/mid driver null coinciding with the centre of the port's broad 26-88Hz (-3dB) output. There is secondary resonance quite clearly escaping at 205Hz, but it's probably low enough not to be heard. PMI

HI-FI CHOICE

Conclusions

ans of alliterative clichés are doomed to disappointment. The results of this exhaustive group test tend to suggest that size is a largely neutral factor in determining the overall goodness of a speaker. Bigger almost always means deeper bass, for sure, but also it often means greater complexity in driver line-up. And the bigger the enclosure, the more difficult it is to control.

"Simple is better" would be one aphorism which would sum up quite well. For many veteran readers, that phrase will forever be linked to Linn Products' advertising over many years, but nonetheless it is entirely appropriate here. The two three-way designs (Heybrook, JM Lab) find themselves left out in the cold, with all the plaudits

going to the simpler two-way models.

The d'Appolito models, whose twin main drive-units reside above and below the tweeter, were particularly successful. Examples of these were from Living Voice, Magnat, Celestion and JBL. Historically this



layout has all too often seriously suppressed the midband, making it a tough configuration to optimise. It is much simpler to effect a two-way design with two two-way point-source drivers, than to grapple with the matching of a line-source midband to a point-source tweeter, as a d'Appolito requires. However on the evidence of this test, the latest designs in the latter camp are achieving great success.

Only six months ago, the Kelly KT3 set a new benchmark for high sensitivity in a lounge-friendly package. Now it has serious competition from Cabasse, Living Voice and JBL, to pick just three devotees of a burgeoning trend. Valve aficionados should check out the Cabasse in particular, as it achieves its high efficiency without the high current demands of the others named.

GROUP A (BELOW £1,300)

Cabasse Farella 400	£950.00
JBL SVA 2100	£1,250.00
Magnat Vintage 720	£1,199.00
Naim Credo	£1,090.00

After the review programme concluded, news reached us that **Cabasse** was planning to modify the **Farella 400** (£950) to counter criticisms of its very 'forward' balance. The result should widen the appeal of an otherwise impressive design, which supplies seriously high sensitivity at a very realistic price.



The £1,250 **JBL SVA2100** will probably be rather monstrous for typical British rooms, but if enormous bass and power handling are your bag, this is one to check out.

Though it's a new name in Britain, the Magnat Vintage 720 (£1,200) makes a very auspicious debut, combining a full-scale sound with fine communication skills.

Superb midrange detail and dynamic range distinguishes the **Naim Credo** (£1,090), though the bass had a 'one note' tendency in our listening room.

GROUP B (£1,300-£1,450)

Audiovector M2	£1,399.95
JM Lab Spectral 909.1	£1,375.00
Monitor Audio 705PMC	£1 399 99

There are just three models in our middle group, and the **Audiovector M2** (£1,400) is certainly the pick of them. It's attractively slim, goes genuinely deep and sounds unflappably smooth and neutral, with a notably clean, if slightly bright top end.



The **JM Lab Spectral 909.1** (£1,375), a French design also new to Britain, is certainly a lot of speaker for the money; but while the sound is balanced with plenty of deep bass, it lacks sweetness and has too much 'edge'.

The top model in the PMC line, the **Monitor Audio 705PMC** (£1,400) is actually the least distinguished in a rather good range. While the midband is pretty good, the treble and bass are both a bit lacking.

GROUP C (£1,450-£1,800)

Celestion A2	£1	,499.00
Chario Academy 2	£1	,649.99
Heybrook Octet	£1	,800.00
Living Voice Auditorium	£1	.499.99

Heftily built but quite compact and very handsome with it, the **Celestion A2** (£1,500) has abundant bass, a relaxing, laid-back midband, and slightly obvious top end — a good all-round compromise for hi-fi and home cinema use.

Though it is indisputably pricey for a standmount, the **Chario Academy 2** (£1,650) has a beautiful enclosure in sculpted solid walnut, and a delightful sound quality to go with it —



delicate and light on its feet, if a little too inclined to paper over any cracks.

The **Heybrook Octet** (£1,800) is an impressive collection of high-tech drivers in an attractively finished and compact box, but the whole didn't seem to justify the expected sum of the parts, so while the midrange shone brightly enough, the treble was less impressive.

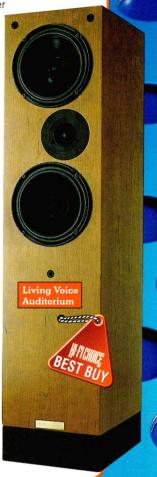
The **Living Voice Auditorium** (£1,500) is compact and beautifully finished, yet sounds even better than it looks, with high sensitivity and a wonderful coherence which reflects its essential simplicity, quality ingredients and painstaking development.

86 JULY/AUGUST 1998 HI-FI CHOICE

BEST BUYS

rm evidence, if such was needed.

that the smaller manufacturer is still more than able to compete with much larger brands: the £1,500 Living Voice Auditorium has clearly been designed by someone who puts a passion for music ahead of marketing hype. The result is neat, compact and beautifully finished, but above all sonically very coherent and musically highly communicative. Criticisms are minor (the bass could go deeper and voices are a bit shut in) while the design's high sensitivity much more than compensates for what is a fairly demanding load.



RECOMMENDED

S even Recommended models might represent a high 'hit rate', but it reflects the fact that, in a group such as this, inevitably there are many high-quality models, yet also a much greater choice of designs and approaches than one would find at lower prices.

The only standmount, the Chario Academy 2 (£1,650), takes full advantage of its small size with a lively sound that's always easy on the ears. The solid walnut enclosure probably contributes as much to the sound as it does to the appearance — and the price!

As the smallest of the floorstanders, the Naim Credo (£1,090) has wonderful midband detail, excellent timing and a wide dynamic range, though bass is a bit lumpy.

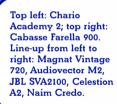
Slightly larger and with much higher sensitivity, the Cabasse Farella 400 (£950) looks like a fine match for valve amps. We understand it's currently undergoing revision to avoid the aggressive forward-

ness noted by our panel. A big speaker, yes, but a discreet and very attractive one too: the **Celestion A2** (£1,500) can operate quite close to a wall, supplying a full-scale sound with plenty of deep bass. The

midband is a bit laid back and the top a bit obvious — just like that of the Audiovector M2 (£1,400), a slim, free-space design notable for its neutrality.

Considering its size and sound quality, the £1,200 price tag on the Magnat Vintage 720 seems very reasonable. It may not be the prettiest box or smoothest sound around. but it does communicate well, and delivers plenty of grunt too.

If your listening room has space for a couple of black vinvl wardrobes. and you've got a thing about massive loud bass, check out the JBL **SVA2100** (£1,250). It's as much a PA as a hi-fi speaker, but it's quite well mannered and can go seriously loud with a powerful amplifier.













BEST OF THE REST



Audio Note AN-E/B	£1,299
B&W Matrix 805 V	£995
B&W Matrix 804	£1,600
Castle Howard S2	£1,100
Dynaudio Contour 1.8	£1,842
JBL 4312mkll	£1,000
JBL L90	£1,300
JPW Ruby 4	£1,000
Kelly KT3	£1,200
Keswick Audio Torino	£900
Linn Kaber	£1,800

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2nd: Sennheiser HD470



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All entries must arrive by First Post, Thursday August 6th, 1998.

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What's the name given to the design of the HD470's earcups?

- a) Bionic
- b) Hydromatic
- c) BioNetic
- d) Cybernetic

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- We reserve the right to substitute alternative prizes with equivalent value to these shown, in the unlikely event of stock being temporarily unavailable.
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CHFC 807C

Five Stars

Paul Messenger explains why you should visit an independent

Why use a specialist hi-fi dealer? The short answer is because he knows one hell of a lot more about hi-fi than you do. And if you've gone to the trouble of picking up a specialist magazine on the subject, you're obviously interested in something rather more than a mini system from the nearest electrical superstore.

You've probably bought this magazine for one of two reasons. You're looking for advice (presumably unbiased and good) on choosing and using your hi-fi system, and/or you're checking out the ads to decide where to go and buy it.

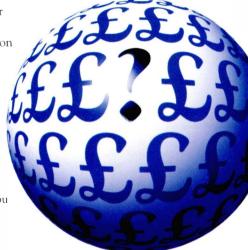
The independent specialist dealer doesn't know everything, and he doesn't know much about you, but if music's an important part of your life, he's the only guy around who's able (and hopefully willing) to help you choose the equipment which will give you the best long term satisfaction.

Power of the Press

Dealers sometimes moan to me about the power of the press, and the disproportionate influence of its 'Best Buy' and multistar ratings. Well, I've been in the press for twentysomething years, and still feel more ignorant than powerful.

The more I mess around with hi-fi gear, the more I become aware of our lack of real understanding of the subtleties involved, and the more I appreciate the importance of the dealer's skills and experience, in bringing together components so that the whole is greater than the sum of its parts.

We hacks get paid to write words, often about components in isolation, because



individual product reviews are still the staple diet of the press. They can sometimes provide a useful guide to the way a product performs, but only under the particular circumstances in which the review was conducted.

The hi-fi reviewer attempts, with varying degrees of success, to evaluate a particular component, and find something interesting (and hopefully positive) to say about it. That's about the end of it, and it's on to the next product.

The magazine prints the review, and that very process magically confers a measure of authority. Experienced hi-fi

enthusiasts, who read reviews over a period of years and try out various products themselves, soon start to realise the limitations of that approach. Some reviews are better than others, but none can get to grips with the real heart of the problem - whether a given product will improve your musical satisfaction, in your system and your room.

The Role of the Dealer

The dealer's role is very different, and potentially much more valuable. He has the chance to talk one-on-one. If he's good at his job, he'll use that opportunity to find out what you as an individual are looking (or listening) for.

His motivation is very different too. Sure he wants to make a sale. That's the lifeblood of any shop. But he also knows that if something he sells really does deliver long term satisfaction, there's a very good chance you'll come back again to see if he can repeat the trick some time in the future.

If you go into a shop and demand a particular CD player, on the basis that it got seven stars (out of five) in last month's magazines, the shop will probably simply take the line of least resistance and sell it to you. (Or switch-sell you to a similar price alternative, if he's fresh out of stock of that particular flavour-of-the-month)

If you go in and say you're looking for a CD player, and want his advice on what to choose, things are liable to become more interesting. The onus is now on the dealer to show what he can do. His first task is to ask the right questions to try and get some idea of what you might be after.

Asking the questions is the easy bit. The real skill comes in using the information to come up with a shortlist of likely contenders, and then conducting a demonstration so that you have a real chance to play a central role in the

Value

specialist dealer if you are searching for real hi-fi satisfaction

decision making process.

Putting together a successful hi-fi system might not be as difficult as it was twenty or thirty years ago, but it's just as easy to make a mess of things. Put the 'wrong' combination of components together and it'll still sound a lot better



than any cute little mini system package. It might even rate a five star review. But it won't match the potential of a carefully balanced and properly installed system, and it certainly won't cater for your own particular preferences and personality.

We British are notoriously undiscriminating consumers, at a mass market level at least. The majority of the population don't even bother to drive a car they're thinking of buying, never mind take the trouble to listen to hi-fi equipment.

The majority will therefore end up with hyperstore mediocrity, and hi-fi that's about as tasty as supermarket bread. But if music is an essential ingredient in your daily diet, you owe it to yourself to become a member of the discriminating minority.

You know full well that your music collection is as individual as your wardrobe, and just as precious too, so it's worth taking the time and trouble to search out the dealer and equipment that will make that collection come alive, and give you a new buzz every time you play your favourite discs.

The independent specialist may not beat the chain store on price, but he continues to thrive in a hostile environment because real hi-fi is so much more than a matter of price. The people who work in these shops are themselves enthusiasts, often with many years of experience in meeting customer's needs, and the very necessary expertise to ensure that the whole thing is properly set up to deliver the best results.

The better the hi-fi, the more important it is to get the fine details right at the installation end of things, but even the least expensive equipment can be made to sound a whole lot better if good care is taken over the fine details - the support furniture, the cabling, the positioning of speakers and so on.

Without expert assistance even high class hi-fi can give mediocre results. With it you'll stand a very good chance of ending up with something rather more than a consumer durable - something which will be a source of considerable pleasure and genuine emotional satisfaction for decades to come.

I agreed to write this signed piece, irrespective of the specific sponsors, because I believe the independent specialist dealer plays a vital role in giving customers long term hi-fi satisfaction.

The views and opinions expressed here are my own and not necessarily those of hi-fi choice."

Paul Messenger

The specialist Dealers listed here are professional and enthusiastic. Give your nearest a ring for a demonstration.

STAR QUALITIES

value for money service facilities verdict



TOP 20 SPECIALIST **HI-FI DEALERS** IN THE UK

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Oranges & Lemons 61/63 Webbs Road Battersea 0171 924 2040

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SOUTH

Ashford, Kent Soundcraft Hi-Fi 40 High Street 01233 624441

Chelmsford

Rayleigh Hi-Fi 216 Moulsham Street 01245 265245

East Grinstead

Audio Designs 26 High Street 01342 314569

Kingston-upon-**Thames**

Infidelity 9 High Street Hampton Wick 0181 943 3530

Rayleigh, Essex Rayleigh Hi-Fi 44a High Street 01268 779762

Southend-on-Sea

Rayleigh Hi-Fi 132/4 London Road 01702 435255

Uxbridge

Uxbridge Audio 278 High Street 01895 465444

MIDLANDS Banbury

Overture 01295 272158

Birmingham

Sound Academy 152a High Street Bloxwich 01922 493499

Leicester

Cymbiosis (Formerly known as Listen Inn) 6 Hotel Street 0116 262 3754

Northampton

Listen Inn 32 Gold Street 01604 37871

Shrewsbury

Creative Audio 9 Doapole 01743 241924

NORTH

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Oldham

Audio Counsel 12/14 Shaw Road 0161 633 2602

Sheffield

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SCOTLAND Edinburah

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Update

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Instant Systems

Alan Sircom gets to grips with a pair of £300 separates systems. The question is, can you get real hi-fi for the price of a telly?

REVIEWS

Acurus ACD11

Aeon Acoustics Linear

AMC 3025a

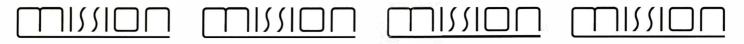
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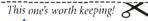
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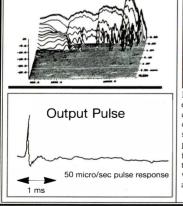
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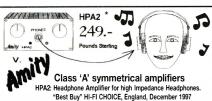
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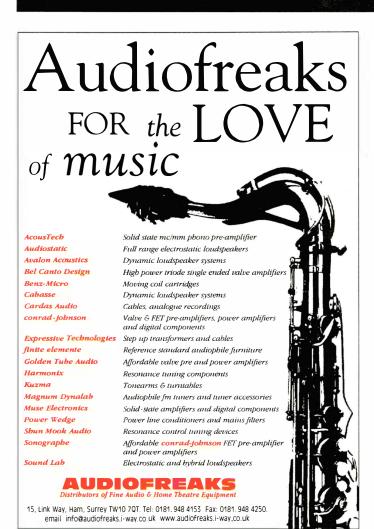


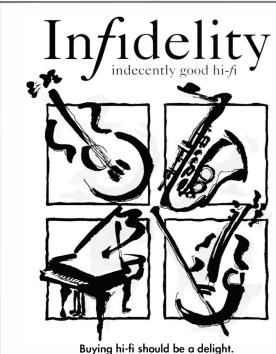
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 in/outs including optical &
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 Teac VRDS T1 transport, £275. Audio Alc DDE v 1.1 + PS3, £275. All boxed with manuals. Hants (01256) 356933.
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 £150. Bracknell (01344)
 489664.
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- Talk Electronics
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THE DIRECTORY

Our Three Step Guide to Buying Hi-Fi

The legendary Hi-Fi Choice Directory is now simpler to use than ever before, but contains all the information you need to select and buy the perfect hi-fi system.

Discover which products fall within your budget by using our Price Guide (starts on the next page). This listing is updated bi-monthly and includes all hi-fi products currently available in the UK. It is organised by product type, then by price band, and is sorted alphabetically. Products whose names are printed in red are those we have reviewed. That leads us to...

Read about the hi-fi equipment we have reviewed in the Directory (starts after the Price Guide). Here you will learn which items have been singled out for our

famous Best Buy and Recommended awards that denote products of exceptional quality and value. The Directory is sorted by product type and listed alphabetically, and the beginning of each section provides essential information about each kind of hi-fi component.

Find your nearest hi-fi store in our Dealer Directory (at the end of the 'reviewed product' directory) to book a demonstration of the products you are interested in.

Best Buys and Recommendations

If you see a Best Buy (red) or Recommended (blue) flag at the beginning of an entry in our Directory of reviewed products, the item concerned is particularly deserving of your attention.

Red signifies the Best Buy swing-tag, which indicates products of the best quality and superb value for money in their price category.

Blue Recommended products offer excellent quality and value, but not the same cost-effectiveness as a Best Buy. Please note that an expensive Recommended product will nearly always perform better than an inexpensive Best Buy.

Using Best Buys and Recommendations to buy hi-fi

Do not commit the cardinal sin of dashing into your local dealer, magazine in hand, demanding to purchase Best Buy CD player A, Best Buy amplifier B and Best Buy speakers C. This CHILLIAN TO is unlikely to result in your long-term satisfaction. Our belief at Hi-Fi Choice is that you must consider the hi-fi system as a complete entity, not as a collection of components. While a superb system might well contain Best Buy and Recommended components, one cannot lump together Best Buys and Recommendations in the hope that they will automatically perform superbly. These ratings make a useful guideline for short-listing components worth trying, but only by hearing them for yourself can you draw meaningful conclusions about CHILLIAN S what suits your taste. Furthermore, don't panic if the dealer offers you equipment that we have not tested. At the end of the day, what matters most is that your hi-fi system fits your tastes like a glove, and it is the dealer's challenge to ensure your satisfaction by any

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means - and components - necessary!



AMPLIFIERS INTEGRATED

6 – number of line-level inputs. '20W'- output power per channel into nominal load of 8 Ohms.

Akai AM1100	0	50W	230
AMC 3020	0	20W	100
AMC 3025A AMC 3050A	0	30W	130
Ariston AX900	0	45W 30W	170 80
Ariston AX910	ő	30W	100
Cambridge A1 Mk III	0	40W	100
Cambridge A1 Mk III SE	0	40W	120
Cambridge A3i Denon PMA-250SE	0	60W	200
Denon PMA-350SE	6	30W 50W	160 200
Denon PMA-425R	0	45W	230
Denon PMA-100M	0	80W	240
Goodmans Delta 801			140
H/K HK610 H/K HK620	0	30W	180
JVC AX-V4BK	0	40W 30W	250 200
JVC AX-R5BK	6	45W	200
Kenwood KA-1080	0	60W	140
Kenwood KA-3080R	0	70W	170
Kenwood KA-3020SE Marantz PM-47	6	50W	200 150
Marantz PM-57	6	40W 50W	200
Marantz SR-47	O	40W	200
Marantz PM-66SE	6	50W	230
Musical Fidelity E1	0	30W	199
NAD 310 NAD 312	0	20W	10 0 200
Pioneer A-105	6	25W 30W	130
Pioneer A-204R	6	25W	160
Pioneer A-300R	•	50W	200
Pioneer A-305R	0	50W	200
Pioneer A-405R Rega Brio	0	60W	250 229
Rotel RA921	6	30W 20W	100
Rotel RA-931	0	35W	150
Rotel RA971	0	70W	200
Sansui AUX-410R Sansui AUX-510	0	50W	150
Sherwood AX 4050R	6	50W 50W	230 150
Sherwood AX-7030R	6	95W	250
Sony TA-FE210	0	45W	130
Sony TA-FE310R	0	45W	150
Sony TA-F248E Sony TA-F448EB	3	40W 55W	200 250
TEAC A-R300	0	45W	200
TEAC A-R500	0	90W	250
Technics SU-V300	0	25W	150
Technics SU-V500 Technics SU-A600 Mk3	3	30W 30W	180 200
Technics SU-V620	0	70W	230
Technics SU-A700 Mk3	0	45W	250
Yamaha AX-390	0	60W	170
Yamaha AX-492 £251 to £50	6	85W	220
Alchemist Maxim	6	30W	319
AMC CVT 3030A	0	30W	400
Arcam Alpha 7 Arcam Alpha 8	6	40W	260 360
Arcam Alpha 9	0	50W 70W	500
Audio Analogue Puccini	0	40W	450
Audiogram MB1	0	35W	493
Audiolab 8000LX Audiolab 8000A	0	60W	470 500
Aura VA-100 II	0	60W 70W	350
CR Dev CR324	0	100W	499
Creek 4330	0	35W	279
Creek 4340 Creek 4330R	6	35W	279 355
Creek 5250	0	35W 50W	450
Denon PMA-725R	6	65W	350
EMF Audio Sequel	•	50W	450
H/K HK640 Kenwood KA-5090R	0	55W	400 300
Kenwood KA-5090R	6	65W 85W	400
Magnum IA120	0	65W	265
Magnum IA170	0	96W	330

Marantz PM-68	0	0011	300
Marantz PM-66 KI Sig.	6	90W 50W	400
Micromega Minium Mission Cyrus SL	3	40W 50W	350 398
Monrio Asty Musical Fidelity E11	0	60W	440 300
Musical Fidelity X-A1	3	60W 50W	480
Musical Fidelity A2 NAD 314	6	25W 35W	500 260
NAD 317	3	80W	470
Onkyo A9210 Onkyo A921	0	40W 50W	260 350
Onkyo A922 Orelle SA-100	0	70W 50W	400 499
Pioneer A-400X	6	50W	300
Pioneer A-605R Pioneer A-300R Precision	6	80W 35W	400
Pro-Ject Model 7 Rega Elex	0	40W 50W	300 398
Shearne 2.5 Sony TA-FA3ES	0	35W	489 400
Sony TA-F3000ES	0	70W 60W	500
Talk Electronics Storm 1 TEAC A-H500	3	50W 50W	500 280
Technics SU-A800D Mk2 Technics SU-A900D Mk2	0	55W	300
Yamaha AX-592	6	70W 100W	400 280
2501 to 27 Alchemist Kraken APD6A	6	55W	579
Alchemist Nemesis Audio Analogue Puccini SE	6	80W 50W	700 595
Audio Note Kanji Line SE		9W	699
Audio Note First integrated Audiogram MB2	0	40W 60W	699 599
Audiolab 8000S CR Dev Kalypso	6	60W 15W	700 599
CR Dev CR325	•	175W	699
Creek 5250R Creek 5250SER	3	50W 60W	575 665
Densen Beat B-100 MkII DPA Renaissance int.	6	60W	650 595
Exposure XX Super	0	40W 55W	700
Fase Evoluzione Performance 2.0 Gamma Gemini	3	40W 12W	570 699
H/K HK660 Hi Q Sound MCI	0	65W 30W	700 565
JoLida 202 LFD Integrated 0	6	40W	695 549
Linn Majik (Line)	6	50W 33W	650
Lynwood Opal Magnum IA200	0	80W 100W	685 599
Magnum Class A Mission Cyrus IIIi	3	85W 50W	690 5 98
Musical Fidelity A220	6	50W	700
Myryad MI 120 Naim Nait 3	6	60W 30W	600 575
Orelle SA-100RX Prime Design A-100	3	75W 100W	649 650
Quad 77 Integrated	©	85W	700
Roksan Caspian Rose Scion	6	70W 65W	695 615
Shearne Phase 2 Stemfoort SF60	6	50W 60W	649 549
Talk Electronics Storm 2 TEAC A-BX7R	3	50W	650 700
£701 to £10		50W	949
Alchemist Forseti Integrated Audio Note Oto Line PP	0	100W 12W	950
AVI S2000MI Copland CSA8	6	100W 60W	999 945
Credo IMP702 Credo IMP703	0	70W	850 1.000
Electrocompaniet ECI-2	0	70W 50W	995
Exposure XV Super Fase Evoluzione Performance 1.1	0	55W 70W	800 790
Fase Evoluzione Performance 1.0 Golden Tube Audio SI-50	3	60W 50W	790 1,000
H/K HK680	0	85W	1,000
LFD 0 LE Integrated Linn Majik (Phono)	6	60W	799 800
Magnum Class A SE Marantz PM-17	6	80W 60W	795 900
Meridian 551 Micromega Tempo 1	0	55W	795
Micromega Tempo 2	3	50W 75W	750 950
Naim Nait 3 R Pioneer A-07	6	30W 80W	760 999
Primare A20 Rega Elicit	ø	60W 70W	800 730
Shearne Phase 2 Reference	0	50W	799
Sonneteer Alabaster Stemfoort SF100	6	50W 100W	900 849
TEAC AB-X10 Unison Simply Two	6	100W	
	000	12W	AVE:
ATC SIA2-150	0	150W	
Audio Note Soro Line PP Audio Note Oto Line SE	0		1,200 1,200
Audio Note Oto Phono SE Audio Note Soro Line SE	0	12W	1,500 1,699
Beam-Echo SA-50	0		1,950
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Copland CSA28	0	1,299
Copland CTA401	Θ	25W 1,699
CR Dev Romulus V3	Θ	35W 1,198
CR Dev Remus V3	Θ	60W 1,989
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Credo LIM 703		1.249
EAR 834	0	40W 1,999
Graaf Venticinque	6	20W 1,995
LFD Integrated 1	6	65W 1,099
Meracus Intrare	0	60W 1,095
Monrio MC-205	6	80W 1.545
Primare 301	O	80W 1,800
Rogers E-20a	Õ	20W 1,229
Rogers E-40a	0	40W 1,900
Sonic Frontiers Anthem Integrated	0	25W 1,295
T+A PA1200	O	90W 1,350
T+A R1200R	6	90W 1,495
T+A PA1500	O	135W 1,650
T+A R1500R	0	135W 1,895
Unison Simply Four P	6	24W 1,555
Unison Simply Four T	6	11W 1,595
Woodside ISA230 Line	6	30W 1.099
Woodside ISA230 Disc	0	30W 1.249
YBA Integre DT	0	1,650
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Adyton Opera Audio Note Meishu Line	0	50W 2,595
Audio Note Meishu Line		9W 2,750
Audio Note Meishu Line Audio Note Ongaku	0	9W 2,750 26W 56,000
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50	⊙	9W 2,750 26W 56,000 3,990
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI	€ €	9W 2,750 26W 56,000 3,990 11W 3,995
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50	6 6 0 6	9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50	6 6 0 6 6	9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 24W 2,495
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859	6 6 6 6 6	9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 24W 2,495 13W 2,499
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20	6 6 0 6 6	9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 24W 2,495 13W 2,499 100W 2,195
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR W20 EAR 859 Electrocompaniet ECI-1	6 6 6 6 6 6 6	9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 24W 2,495 13W 2,499 100W 2,195 18W 2,499
Audio Note Meishu Line Audio Nete Ongaku Audio Research CA50 Cary CAD-3005El Conrad-Johnson CAV-50 EAR V20 EAR 829 Electrocompaniet ECI-1 Gamma Rhythm	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 13W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm	8 6 0 6 6 6 6	9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 24W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 24W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999 30W 3,490
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CA0-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30	◎ ◎ ◎ ◎ ◎ ◎ ◎ ◎ ◎ ◎	9W 2,750 26W 56 000 3,990 11W 3,995 50W 2,495 24W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999 30W 3,490 60W 5,750
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA60 Jadis DA60	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 24W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999 30W 3,490 60W 5,750 150W 2,550
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Gamma Moment Jadis DA30 Jadis DA60 Krell KAV3001	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9W 2.750 26W 56.000 3.990 11W 3.995 50W 2.495 24W 2.495 13W 2.499 100W 2.195 18W 2.499 20W 3.499 40W 19.999 30W 3.490 60W 5.750 150W 2.550 75W 2.595
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA60 Krell KAV300i Meracus Onesta		9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 24W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999 30W 3,490 60W 5,750 150W 2,550 75W 2,595 200W 2,500
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Hythm Ref Gamma Moment Jadis DA30 Jadis DA60 Krell KAV3001 Meracus Onesta Musical Fidelity A1001		9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999 30W 3,490 60W 5,750 150W 2,550 75W 2,595 200W 2,590
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Moment Jadis DA30 Jadis DA30 Krell KAV3001 Meracus Onesta Musical Fidelity A1001 Pioneer A-09		9W 2.750 26W 56.000 3.990 11W 3.995 50W 2.495 24W 2.495 13W 2.499 100W 2.195 18W 2.499 20W 3.499 40W 19.999 30W 3.490 60W 5.750 150W 2.550 75W 2.595 200W 2.500 45W 4.000 30W 2.300
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Ref Gamma Rhythm Ref Gamma Bhoment Jadis DA30 Jadis DA30 Jadis DA40 Krell KAV3001 Meracus Onesta Musical Fidelity A1001 Pioneer A-09 Tube Tech Unisis Sig. Int.	© © ♥ © © © © © © © © © © © © © © © © ©	9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999 30W 3,490 60W 5,750 150W 2,550 75W 2,555 200W 2,500 45W 4,000
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Gamma Moment Jadis DA30 Jadis DA60 Krell KAV3001 Meracus Onesta Musical Fidelity A1001 Pioneer A-09 Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS		9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 24W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999 30W 3,490 60W 5,750 150W 2,550 75W 2,595 200W 2,500 45W 4,000 30W 2,300 150W 6,900
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Gamma Moment Jadis DA30 Jadis DA60 Krell KAV300 Meracus Onesta Musical Fidelity A1001 Pioneer A-09 Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Unison Performance One Unison Absolute 845		9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999 30W 3,490 60W 5,750 150W 2,550 75W 2,555 200W 2,500 45W 4,000 30W 2,300 150W 6,900 25W 4,500
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR Y20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Gamma Moment Jadis DA30 Jadis DA60 Krell KAV3001 Meracus Onesta Musical Fidelity A1001 Pioneer A-09 Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Unison Performance One Unison Absolute 845		9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999 30W 3,490 60W 5,750 150W 2,550 75W 2,555 200W 2,500 45W 4,000 30W 2,300 150W 6,900 25W 4,500
Audio Note Meishu Line Audio Note Orgalu Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR V20 EAR V20 EAR R25 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Gamma Moment Jadis DA30 Jadis DA30 Jadis DA60 Krell KAV300I Meracus Onesta Musical Fidelity A1001 Pioneer A-09 Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Unison Performance One Unison Absolute 845		9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999 30W 3,490 60W 5,750 150W 2,550 75W 2,555 200W 2,500 45W 4,000 30W 2,300 150W 6,900 25W 4,500
Audio Note Meishu Line Audio Note Ongaku Audio Research CA50 Cary CAD-300SEI Conrad-Johnson CAV-50 EAR Y20 EAR 859 Electrocompaniet ECI-1 Gamma Rhythm Gamma Rhythm Gamma Moment Jadis DA30 Jadis DA60 Krell KAV3001 Meracus Onesta Musical Fidelity A1001 Pioneer A-09 Tube Tech Unisis Sig. Int. Tube Tech Synergy PPS Unison Performance One Unison Absolute 845		9W 2,750 26W 56,000 3,990 11W 3,995 50W 2,495 13W 2,499 100W 2,195 18W 2,499 20W 3,499 40W 19,999 30W 3,490 60W 5,750 150W 2,550 75W 2,595 200W 2,500 45W 4,000 30W 2,300 150W 6,900 25W 4,500 40W 11,995

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AMC CVT 1030A		DI	400
Art Audio Minuet	•	Ph	499
Audio Analogue Bellini	6	Ph	475
Audio Note The M	•		350
Beam-Echo PP-21		Ph	499
Bryston BP1	0	Ph	438
Carver CT-24	0	Ph	499
CR Dev Themis	1	Ph	349
Creek P43	•		399
Creek P52	. 3		499
Crimson CS610C	0	Ph	450
EAR 834P		Ph	349
EAR 834L	6		449
Electrocompaniet ECP-1		Ph	495

Fase Evoluzione Phonodrive 1.0		Ph	445
Henley HMC50			200
Henley HMC100			450
Hi Q Sound LCP2			149
LFD Mistral Linestage	•		449
LFD LSO Linestage	0		499
Lumley PP70	0		345
Lumley PP1	0		345
Magnum MP120	0		330
Magnum MP660	0		500
Magnum MP330	0		500
Moth 30 Passive Moth 30 RIAA	0		149 249
Moth 30 Active		Ph	349
Musical Fidelity X10-D	0		120
Musical Fidelity X-LP	U	Ph	130
Musical Fidelity X-PRE	0		200
Musical Fidelity E20	O	Ph	400
NAD 114	•	Ph	270
NAD 116	0	Ph	430
Naim Prefix			350
Naim NAC92	0		470
Rega EOS		Ph	398
Roksan Artaxerxes 10		Ph	395
Rose RV-23	©	Ph	450
Rotel RQ970BX Rotel RC971		Ph	130 150
Rotel RC972	6		225
Talk Electronics Hurricane 1	_		500
Technics SU-C1000 Mk2	0	Ph	300
Trilogy 905	U		375
Trilogy 904		Ph	375
Trilogy 900	0	Ph	499
Unison Simply Phono	No.	Ph	500
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Alchemist Kraken Pre	0		519
Alchemist Forseti Pre	0		919
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Conrad-Johnson PV-10AL Conrad-Johnson PV-10A	6		995	Trilogy 902 Tron Retro	0		1,595 1,000	Mission Cyrus XPA Mission Cyrus Power	50W	298 498	Moth 60 Stereo Moth 30 Mono/100	60W	599 879
Conrad-Johnson PV-10A Conrad-Johnson PV-12AL	6		1,295	Tron Nucleus Phono	0	Ph		Moth 30 Series Power	50W 30W	249	Muse Model 100	100W 100W	1,490
Conrad-Johnson EF-1		Pi		Tron Nucleus	6		2,000	Moth 30 Mono/40	40W	469	Musical Fidelity X-A200	200W	1,000
Conrad-Johnson PF-2	Θ	P	1,990	Tube Tech Seer Line	6		935	Musical Fidelity X-CANS	0.1W	130	NAD 218THX	200W	850
Copland CSA303	Θ		1,199	Tube Tech Mac Phono		Ph	1,150	Musical Fidelity E30	100W	500	Naim NAP140	45W	750
Copland CTA301 MkII CR Dev Carmenta	0	Pi	1,399 659	Tube Tech Prophet	9		1,970	Musical Fidelity X-A50 Myryad MA 120	50W	500 450	Naim NAP180 Naim NAP135	60W	1,060
CR Dev Carmenta CR Dev Argento	0	Pi		Unison Mystery One Unison Phono One	•	Ph	1,750 1,995	NAD 912	60W 30W	200	Naim NAP250	75W 70W	1,655 1,655
Credo CMP004			1,246	Van Den Hul Pre-amp	6	PH	1,700	NAD 214	80 W	370	Papworth TVA50	50W	1,425
Credo CMP005			1,876	Wilson Benesch Stage One	•	Ph	995	NAD 216THX	125W	470	Prime Design P-150	150W	650
Densen DM-20	0		1,200	Woodside SC27 Line	0		949	Naim NAP90/3	30W	450	Quad 77 Power	85W	600
DNM 3 Start	0		1,000	Woodside SC26 Line			1,557	Rotel RB971	70W	200	Quad 707	140W	800
DNM 3A Start DPA Enlightenment pre	0	Ph	1,650	XTC PRE-1	0	B	1,250	Rotel RB981	130W	300	Rega EXS	70W	598
DPA DSP500S			795 2,000	Yamaha CX-2 YBA 3	6	Ph	650 1,199	Rotel RB991 Shearne 3.5	200W	500 469	Rega Exon Roksan Caspian	125W	1,196 595
Dynavector L200	0		1.195	YBA Integre	6		1,199	Talk Electronics Tornado 1	35W 50W	450	Roksan ROK-S1.5	70W 100W	1,495
Dynavector P100		Ph	The State of the S	YBA 2	0		1,999	Technics SE-A1000 Mk2	70W	350	Rose RP-190 (Dual Mode)	75W	550
Dynavector L100	0		1,995	Over £2		P CTED		£501 to £2			Shearne Phase 3	50W	619
Earmax Pre	0		1,895	Adyton Temper			2,495	Alchemist Kraken pwr	60W	529	Shearne Phase 3 Reference	50W	729
ECA Vista S	0		760	Adyton Modus	•		2,695	Alchemist Forseti Pwr	150W	1,309	Shearne Phase 5 Mono	100W	1,500
ECA Vista HD	0		880	Alchemist The Alchemist pre			4,995	AMC CVT 2100A	80W	600	Sonic Frontiers Anthem Amp 1	40W	1,195
ECA Prisma Electrocompaniet EC-4.5		Ph	880 1,195	ATC SCA2 Audio Note M3Line			2,499 2,650	Art Audio Quintet Art Audio Quintet SE MB	15W	1,393 1,500	Sonographe SA250 Sonographe SA400	125W	1,195 1,695
Electrocompaniet EC-4R	0		1,495	Audio Research LS15	6		3,399	Art Audio Concerto	-W 50W	1,669	Sumo Polaris III	220W 164W	950
Electrocompaniet EC-4.6	0		1,750	Audio Research LS22	6		4,391	Audio Analogue Donizetti	60W	575	Sumo Model Five	60W	1,975
Exposure XIX			800	Audio Research LS5 MkIII	6		6,435	Audio Note The P	40W	550	Sumo Andromeda III	240W	1,975
Exposure XVII	0	Ph		Audio Research REF 1	•		9,900	Audio Note PO	9W	599	T+A A1200	110W	845
Fase Evoluzione Controlsource 2.0		Ph		Boulder L3AE	0		2,100	Audio Note P1	12W	750	T+A A1500	140W	1,495
Fase Evoluzione Controlsource 1.0			1,395	Boulder L5AE			3,400	Audio Note P1SE	12W	999	Talk Electronics Tornado 2	65W	600
Golden Tube Audio SEP-1 Graaf WFB Two	6	DI-	990 1,195	Boulder L5M Boulder 2010	0		3,800 19,995	Audio Note P2 Audio Note P2SE	20W 18W	1,000 1,499	Talk Electronics Tornado 3 Talk Electronics Tornado 4	100W	750 1,100
Graaf WFB One	6		1,195	Cary SLP-98L	6		2,595	Audio Note Conqueror	18W	1,499	Technics SE-A2000	110W 100W	1,100
Henley HMC200			750	Chord CPA 2200	0		2,355	Audiolab 8000SX	60W	550	Thorens TTA-2000	30W	599
Heybrook Signature II Pre	0		555	Chord CPA 2800	9	Ph		Audiolab 8000PX	100W	850	Trilogy 948	50W	1,895
Hi Q Sound MCB2		Ph	545	Chord CPA 3200	•		3,320	Audiolab 8000MX	125W	1,800	Trilogy 948T	22W	1,895
Hi Q Sound MCL2	0		645	Chord CPA 4000	•		6,210	Aura PA-100	100W	700	Tube Tech Syrinx	45W	1,150
Jadis DPL2	0		1,790	Conrad-Johnson PF-R	•		2,490	Aura PA-200	110W	1,200	Tube Tech Unisis Sig. Pwr	30W	1,900
LFD MC1 Phonostage LFD LS1 Linestage		Ph	949 999	Conrad-Johnson PV-12A Conrad-Johnson Premier 15	Θ	Ph		Aura PA-200 C AVI S2000MM	100W	1,250	Woodside SA240	40W	1,199
LFD MC2 Phonostage	0	DI	1,499	Conrad-Johnson Premier 15	6	Ph	4,495	Bryston 2B-LP	150W	1,399 750	Woodside MA100 Woodside STA50	100W	1,733 1,880
LFD LS2 Linestage	0	Pil	1,599	Conrad-Johnson Art	6		4,495	Bryston 3B-ST PRO	75W 150W	1,160	XTC POW-2	50W 150W	1,450
LFD LSB Linestage	0		1,999	CAT SL1 Sig. Mk2	6	Ph		Bryston 3B-ST	150W 150W	1,160	Yamaha MX-2	150W 150W	750
Linn Wakonda	0		750	CR Dev Kastor	G		2,995	Bryston THX3B	150W	1,262	YBA 3 stereo		1,299
Linn Linto			850	Credo LPR 001			2,815	Bryston 7B-ST PRO	500W	1,545	Over £20		1 44
Linn Kairn	0		1,400	DNM 3C Primus	0	Ph		Bryston 4B-ST PRO	300W	1,756	Adyton Cordis 1.6	120W	3,495
Lumley LV1.5 Lumley LV1	0		895	DNM 3C Twin DNM 3C Six	9	Ph		Bryston 4B-ST	300W	1,756	Adyton Cordis 3B	280W	12,995
Lumley LV1 Lumley PV1.5	6	Ph	1,150 1,700	DNM 3C SIX EAR 802MC	0	Ph	5,050 2 ,599	Bryston 7B-ST Bryston THX4B	500W	1,815 1,850	Alchemist The Alchemist pwr Alchemist The Alchemist mono	220W	3,995
Lumley PV1.5	6	Ph		EAR G88	6	Ph Ph		Bryston THX7B	300W 500W	1,850	Art Audio Tempo	55W 30W	8,995 2,499
Matisse Atom	0		1,000	EAR P52	6	Ph1		Carver A-500X	250W	949	Art Audio Quintet SE	-W	2,500
Meracus Ingredi	0		925	Gamma Era Ref	6	Ph		Carver A-760X	380W	1,299	Art Audio Maestro	100W	3,524
Meridian 501	6		695	Graaf GM13.5B	0		3,950	Chord SPM 400	100W	1,325	ATC SPA2-200PRO	200W	2,056
Meridian 562			765	Jadis DP60L	0		2,800	Chord SPM 600	130W	1,720	ATC SPA2-150	200W	2,500
Meridian 562V			995	Jadis DPL	0		3,190	Conrad-Johnson MV-55	50W	1,995	Audio Note P3	9W	2,150
Meridian 502 Michell Argo	0		1,295 730	Jadis DPMC Jadis JPL		Ph		Copland CTA501 CR Dev Amphion	30W	1,750	Audio Note Quest Audio Note Yubi	9W	2,750
Michi RHC-10	0		795	Jadis JPP200	•		4,720 4,998	Credo PMP 804	12W	1,949 1,876	Audio Note Yubi Audio Note Conquest	18W	3,850 4,450
Michi RHQ-10		Ph	1,150	Jadis JP30MC	6	Ph		Creek A52SE	80W	1,876	Audio Note Tomei	18W 30W	4,450 8,500
Michi RHA-10			1,150	Jadis JPS2	6		7,900	Crimson CS630C	100W	800	Audio Note Neiro	7W	11,360
Micromega Tempo P	0		1,250	Jadis JP80MC	•	Phl	1,989	Densen DM-30	100W	1,200	Audio Note Ankoru	60W	14,500
Mission Cyrus Pre	0	Ph	648	Krell KRC3	0		3,250	DNM PA Start	45W	1,000	Audio Research D130	130W	2,299
Monrio ADN		Ph	625	Krell KRC-HR	•		5,949	DNM PA1 Start	45W	1,650	Audio Research VT60	35W	2,395
Monrio Pluri-L Muse Model 3	0		960	LFD Disc Preamp		Ph		DPA Enlightenment pwr	100W	995	Audio Research D300	300W	4,678
Musical Fidelity F25	6	Ph	1,990 1,500	Mark Levinson 25S Mark Levinson 380	0	Ph	3,995	Earmax Power ECA Lectern S	25W	1,895 880	Audio Research VT100 Audio Research D400 MkII	100W	4,995 6,850
NAD 118	0	FI	1,000	Mark Levinson 380S	0		5,495	ECA Lectern HD	50W 50W	1,480	Audio Research VT130 SE	400W 130W	8,500
Naim NAC92R	6		630	Matisse Fantasy	0		2,500	Electrocompaniet AW60B	60W	1,095	Audio Research VT150 SE	150W	17,000
Naim NAC72	0		725	Matisse Reference	6	Ph 3	3,500	Exposure XVIII Super	70W	850	Audio Synthesis Desire Decade	200W	2,495
Naim NAC102	0		1,050	Meracus Pretare	0	Ph 2	2,195	Fase Evoluzione Powersource 2.0	65W	860	Beam-Echo DL7-35	30W	3,525
Quad 77 Pre	0	Ph	850	Naim NAC82	0		2,160	Fase Evoluzione Powersource 1.0	100W	1,670	Border Patrol 300B SE	10W	3,495
Rega Hal Roksan ROK-L2.5	0	Ph	998 1,250	Naim NAC52	0		3,350	Golden Tube Audio SE-40	40W	1,100	Boulder 102AE	100W	2,800
Roksan KUN-L2.5 Rose RV-23S	0	Ph	525	Roksan ROK-L1.5 Sonic Frontiers Line 2	•		2,250	Golden Tube Audio SE-300B MkII Golden Tube Audio SE-100	8W	1,490 1,995	Boulder 102M Boulder 500AE	100W	3,100
Rotel RC995	0	FN	525	Sonic Frontiers Line 3			,995	Graaf Venticingue P	100W 25W	1,995	Boulder 500M	150W 150W	4,995 5,500
Shearne Phase 6 Pre	0		899	T+A Pre DA3000			.800	Heybrook Signature II Pwr	120W	1,045	Boulder 2060	600W	19,000
Shearne Phase 1 Pre Ref	0		1,399	Tesserac TAP-A	0	5	,300	Hi Q Sound MCM	70W	715	Boulder 2050	999W	35,000
Siemel MC20		Ph	650	Trilogy 918	0		,775	Jadis DA5	40W	1,997	Bryston THX8B	150W	2,385
Siemel MM20 Siemel TU10		Ph	650	Unison Dream	6	Ph 11	100000	Lexicon 212	120W	1,850	Cary CAD-572SE	20W	2,495
Siemel TU10 Siemel TR20	0		1,599	Woodside SC26 Line & Phono YBA 1	6		233	LFD PA1 Powerstage LFD PA2 Powerstage	60W	999	Cary CAD-300SE	12W	3,995
Sonic Frontiers Anthem Pre 1P	0	Ph	895	100 1	0	3,	,500	LFD PA2M Powerstage	75W 90W	1,599 1,999	Cary 300SE Sig Cary CAD-805	12W 50W	4,795 8,995
Sonic Frontiers Anthem Pre 1	0	Ph		Power Am	ps			Linn LK100	50W	650	Chord SPM 800	160W	2,265
Sonic Frontiers Phono 1		Ph	1,995	KEY	The Market			Linn LK240	120W	750	Chord SPM 1000B	200W	2,785
Sonic Frontiers Line 1			1,995	'20W' - output power	ner ch	annel		Linn AV5105	100W	1,200	Chord SPM 1200B	250W	3,525
onographe SC26	0		995					Lynwood Ruby	120W	985	Chord SPM 1200C	315W	3,915
umo Athena II Line	0		767	into nominal load of 8				Magnum MF330	150W	685	Chord SPM 1600	200W	4,718
Sumo Athena IIB/II LS Sumo Athena III	6		987 987	Up to £50	The same of the sa	No.		Magnum MF660 Magnum A500SE	125W	825	Chord SPM 1400B mono	380W	7,830
umo Atnena III	6		1,595	AMC CVT 2030A	30W		400	Magnum A500SE Magnum A50SE	200W 200W	1,485 1,595	Chord SPM 5000 Conrad-Johnson MF-2300A	415W	13,544 2,990
+ A P1200R	0		890	Arcam Alpha 8P	50W		250	Meracus Ciere	60W	1,095	Conrad-Johnson Premier 11A	250W 70W	3,500
alkElectronics Hurricane 2	0		650	Arcam Alpha 9P Arcam Delta 290P	70W		400 400	Meridian 555	60W	750	Conrad-Johnson Premier 12	140W	6,900
alk Electronics Hurricane 3	0		900	Creek A43	75W 50W		399	Meridian 556	100W	895	Conrad-Johnson Premier 8XS	150W	17,000
alk Electronics Hurricane 4	0		1,550	Creek A52	70W		499	Meridian 557	200W	1,400	Conrad-Johnson Premier 8A	275W	17,000
alk Electronics Hurricane 5	0		1,900	Crimson CS620C	50W		450	Meridian 505	160W	1,590	CAT JL1	200W	15,500
echnics SU-C2000	0	Ph	700	Earmax Headphone	0.1W		375	Michell Alecto Stereo	50W	1,150	Copland CTA505	67W	2,099
esserac TAADA esserac TALA	0		1,500 1,500	Earmax Headphone Pro	0.1W		475	Michell Alecto Mono Michi RHB-05	100W		CR Dev Artemis	35W	4,995
esserac TAHA	6		1,800	LFD Mistral Power	60W		449	Michi RHB-10	100W 200W		Credo LPO 804 Credo PMP 155		2,456 2,676
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thorens TTP-2000F rilogy 901 rilogy 906	6		750	Marantz MA-500	125W	100	250	Monrio Cento	135W	1,495	Credo LPO 155	The same of	6,983

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Audio Note AN-V

Audio Note AN-Vx

Audioquest Jade

Audioquest Ruby 2

Audioquest Quartz

Audioquest Opal

Audioquest Turquoise 2 Audioquest Topaz 2

Audioquest Emerald Audioquest Lapis Audioquest Diamond Cable Talk Improved 2/CD

Cable Talk Advanced 2
Cable Talk Improved 2/Tape
Cable Talk Monitor 2.1

Cable Talk Studio 2
Cable Talk Professional 2

Cable Talk Broadcast 2 Cable Talk Reference 2

Cambridge Atlantic Cambridge Arctic

Cable Talk Signature 2 Gold

Cambridge Pacific Cambridge Studio Reference

Cambridge Silver Spirit 40

Cambridge Silver Spirit 60 Cardas Audio 300B-Microtwin

Cardas Audio Quadlink-Five Cardas Audio Cardas Cross

Cardas Audio Hexlink-Five C

Cardas Audio Golden Cross ChordCo Chrysalis

Cardas Audio Hexlink Golden-5 C

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EAR 861 EAR 509 Mk II EAR 549 Electrocompaniet AW100DMB Electrocompaniet AW120DMB Electrocompaniet AW120DMB Electrocompaniet AW250DMB Electrocompaniet AW250DMB Electrocompaniet AW180MB Exposure IV Exposure XVI Gamma Aeon Gamma Space Ref Gamma Aeon Ref Graaf 5050 Graaf GM20 Graaf GM20 Graaf GM20 Graaf GM20 Graaf GM20 Graaf GM20 Jadis DA8 Jadis DA7 Jadis JA30 Jadis JA30 Jadis JA30 Jadis JA30 Jadis JA30 Jadis JA50 Aladis JA50	EAR 861 EAR 509 Mk II EAR 549 Electrocompaniet AW100DMB Electrocompaniet AW120DMB Electrocompaniet AW120DMB Electrocompaniet AW250DMB Electrocompaniet AW250DMB Electrocompaniet AW180MB Exposure IV Exposure XVI Gamma Aeon Gamma Space Ref Gamma Aeon Ref Graaf 5050 Graaf GM20 Jadis DA8 Jadis DA7 Jadis JA30 Jadis JA30 Jadis JA30 Jadis JA30 Jadis JA30 Jadis JA50 Aladis JA50 A	Dynavector HX75	75
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XTC POW-1 20 YBA 2 stereo	XTC POW-1 20 YBA 2 stereo		32
		XTC POW-1	20
	15.1.1.110 000100		

mley M250	250W	7,500	ChordCo Cobra 2		8	50.00
gnum Class A mono	180W	2,450	ChordCo Siren	③		65.00
gnum A200SE	275W	3,750	ChordCo Chameleon	•	8	85.00
rk Levinson 331	100W	4,495	ChordCo Solid			99.00
rk Levinson 332	200W	6,495	ChordCo Chorus	②		185.00
rk Levinson 333	300W	8,495	Connections UK Ultra	③		28.00
rk Levinson 33H	150W	19,395	Connections UK Midas		100	39.00
tisse Ref Monoblocks	180W	8,000	Connections UK HD	•		46.00
racus Tentare	75W	2,245	DBF Acoustics Black Velvet	©	B.	30.00
racus Cantare se Model 160 Ser. II	-W	8,995	DBF Acoustics Black Velvet SE	0	E-	40.00
se Model 150 Ser. II	160W	2,290 2,690	DBF Acoustics Azure SE	0		75.00
se Model 175 Ser. II	125W	3,490	DNM-Reson TCC75 DPA Slink	23		34.00 41.00
se Model 300 Ser. II	175W 300W	3,490	DPA White Slink			75.00
sical Fidelity F16	200W	2.500	DPA Black Slink			245.00
sical Fidelity F19	300W	4,000	Expressive Tech IC-1	(3)		700.00
pworth M100	100W	2,645	Gamma Wow Balance	©		799.00
pworth M200	200W	3,825	Goertz M1 Interconnect	•		145.00
ksan ROK-M1.5	160W	2,250	GT Audio Intercon		•	130.00
earne Phase 1 Pwr Ref	100W	2,199	Henley HSP10			20.00
mel TA20		2,350	Henley HSP50	②		35.00
nic Frontiers Power 1	55W	2,495	Henley HSP100			65.00
nic Frontiers Power 2	110W	4,995	Henley HSP200	•		95.00
nic Frontiers Power 3	220W	9,995	Heybrook Black Flash		•	49.95
no Model Ten/M	240W	4,200	Insert Audio Focus 1.2	0		21.50
nfire Sunfire A A3000	300W	2,170 3.000	Insert Audio IC100 Mk II	•		46.95 160.00
k Electronics Tornado 5	190W	2,100	Insert Audio Status 3.4 Ixos 104	②		20.00
serac TAMP-60	200W 60W	7,350	Ixos 1003	(8	30.00
logy 958T	45W	3,395	lkos Gamma 1002			39.95
logy 958	100W	3,395	ixos 103	•		45.00
e Tech Genesis Sig.	100W	4,700	Ixos 102	•		60.00
e Tech Synergy DMA	150W	6,400	lxos 101	0		100.00
son Smart 845	24W	3,250	Ixos 100.X03			150.00
son Palladio	32W	11,995	Kimber PBJ	•		68.00
Den Hul Power amp	65W	2,500	Kimber KC1			96.00
POW-1	200W	2,250	Kimber Hero	0		110.00
1 2 stereo		2,200 4,999	Kimber Silver Streak	0		180.00
A 1 HC stereo		4,999	Kimber KCAG Kimber KCTG	0		390.00 720.00
			Kronos Konnekt 3	•	•	49.00
			Kronos Konnekt 2			99.00
		DESCRIPTION OF THE PERSON OF T	Kronos Konnekt 1			199.00
			LAT International IC-50	•		37.00
			LAT International IC-80	0		60.00
			LAT International IC-100-D		•	89.00
			LAT International IC-200 Mk II		•	151.00
	11		Lieder Chanson	•		340.00
	LAS	on the same of	Lieder Lek	•		420.00
			Lieder Het Lied Lieder Song	0		420.00
		1000	Lieder Song Lieder Maas	0		580.00 620.00
			Lieder Rijn	(1)	1	,000.00
			Lieder Waal	•		1,400.00
CABLES			Lumley Silver 12/2	0		115.00
ANALOGUE INTERC	ONNE	CTS	Lumley Silver 14/4	0		175.00
KEY			Moth Leyline Black	0		100.00
🕽 — stranded construct	ion		Moth Leyline Grey	•		200.00
			Nordost Magic	0		35.00
solid-core construc			NordostBlack Knight	0		60.00
rices of interconnects	are		Nordost Blue Angel	0		98.00
or a one-metre termina	ted p	ir.	Nordost Blue Heaven I/C Nordost Red Dawn	•	•	144.95
ertura Model B		260.00	Nordost SPM	③		285.00 825.00
ertura Model A	0	469.00	Ortofon 7N interconnect	•		250.00
ortard model A		403.00	Precious Metals Silver Signal 35	•	2	40.00
				•	-	10.00
14 JULY/AUGUST	1998					

Precious Metals Silver Signal 50	0		50.00
Precious Metals Silver Signal 52	0		70.00
Precious Metals Silver Signal 53	0		90.00
Precious Metals Silver Signal 100	(3)		100.00
Precious Metals Silver Signal 102	0		130.00
Precious Metals Silver Signal 103	•		160.00
Precious Metals Silver Signal 104	©		190.00
Precious Metals Silver Signal 200	•		220.00
Precious Metals Silver Signal 202	©		290.00
Precious Metals Silver Signal 203	©		360.00
Precious Metals Silver Signal 204	0		430.00
Prowire Silver	©		60.00
PAD Elementa	•		145.00
QED Qnect 2	•		30.00
QED Qnect 4	©		60.00
Roksan ROK-Intercon	0		75.00
Shinpy Red Devil	0		80.00
Shinpy Red Star 2	•		120.00
Shinpy Black Star 2	•		240.00
Shinpy Pulsar 2	0		495.00
Shinpy Quasar 2			850.00
Siltech MC2-12	0		308.00
Siltech MC4-24S	0		400.00
Siltech FTM-3S	0		730.00
Silver Sounds SS2	0		99.00
Silver Sounds SS1	0		199.00
Silver Tone Ex-Static		•	35.00
Silver Tone Sci-Fi	0		95.00
SME S2LB-4	③		46.18
SME S3LB-4	0		52.06
SME 4900A	0		76.83
SME 5900A	0		102.57
Sonic Link Red	0		25.00
Sonic Link Silver pink			35.00
Sonic Link Black	0		49.00
Sonic Link White	0		65.00
Sonic Link Brown		•	70.00
Sonic Link Violet	0		85.00
Sonic Link Maroon	0		125.00
Sonic Link Blue Nickel		0	150.00
Sonic Link Vermillion Sonic Link Red earth		•	195.00
Sonic Link Red earth		•	300.00
Sonic Link Blue earth		0	450.00
Sonic Link Black Rhodium			695.00 995.00
Straightwire Chorus	•	•	40.00
Transparent Cable Musichord Int	③		48.00
Transparent Cable The Link	0		92.00
Transparent Cable Music Link	(1)		119.00
Trichord Pulsewire 75	•	•	169.00
Vampire Wire CC	•		24.00
Vampire Wire CCC/II	•		58.00
Vampire Wire SC/II	0		98.00
Vampire Wire SC/IV	•		144.00
Vampire Wire AI/2	0		259.00
Vampire Wire SL	0		412.00
Van Den Hul Storm			25.00
Van Den Hul Source HB	0		50.00
Van Den Hul D102 III	©		69.99
Van Den Hul Thunderline HB	0		130.00
Van Den Hul First			210.00
Van Den Hul Second			240.00
Van Den Hul MC Gold	©		400.00
Van Den Hul MC Silver IT	0		,240.00
Van Den Hul MC Silver IT Bal	•	1	,560.00
Wireworld Orbit	0		30.00
Wireworld Solstice II	0		40.00
XLO Type 150	0		50.00
XLO Type 0.1		•	180.00



DIGITAL INT	ERCONNEC	IS
KEY		
⊕ – stranded con	struction.	
solid-core co	nstruction.	
Prices of intercon	nects are	
for a one-metre te	rminated pa	ir.
Apertura Model B	•	13
Anertura Model A	•	25

rices of interconnect									
for a one-metre terminated pair.									
Apertura Model B	0	139.00							
Apertura Model A	•	255.00							
Apogee Digital Wyde Eye	•	20.00							
Apogee Digital Wyde Eye Bal.	0	30.00							
Art Yam Church 5000	©	275.00							
Audioquest Digital/video 1	©	30.00							
Audioquest Digital/video 2	©	60.00							
Audioquest Optilink X		90.00							
Audioquest Digital PRO	3	100.00							
Audioquest Optilink Pro		149.00							
Audioquest Optilink Z	BEC	179.00							

Cable Talk Digital 2	0		78.00
Cardas Audio Lightning	•		190.00
ChordCo Codac	•		36.0
ChordCo Prodac		•	50.0
DNM-Reson DIG100		•	26.00
DPA Opti-link			20.0
DPA Digi-link			28.0
Insert Audio Dataline 500	③		24.9
Insert Audio Dataline 700	•		39.9
Insert Audio Image 5.1	③		44.9
Ixos 105		•	25.0
Ixos 106			30.00
Kimber Opti-link			50.00
Kimber Illuminati DV-30	③		70.00
Kimber Illuminati D-60	•		325.00
Kimber Illuminati DX-50	③		350.00
Kimber Illuminati Orchid	③		750.00
LAT International DI-20-D	③		79.00
Moth Leyline Datalink			140.00
Nordost Moonglo	③		155.00
Precious Metals Silver Dig 35	③		20.00
Precious Metals Silver Dig 100	③		50.00
Precious Metals Silver Dig 200			110.00
Precious Metals Silver Dig 202	②		145.00
QED Digiflex			20.00
QED Optiflex			25.00
Roksan ROK-Intercon	•		45.00
Shinpy Digital	•		265.00
Siltech HF-6	•		145.00
Sonic Link Green		•	60.00
Transparent Cable PDL	•		199.00
Trichord Pulsewire 75D		•	75.00
Trichord Pulsewire 110D		•	145.00
Vampire Wire DI/1		•	150.00
Van Den Hul Source HB	•		30.00
Van Den Hul Videolink	•		60.00
Van Den Hul AES-EBU 110	0		65.00
Van Den Hul First	•		125.00
Van Den Hul Second	•		130.00
	200	200	



SPEAKER CABLES

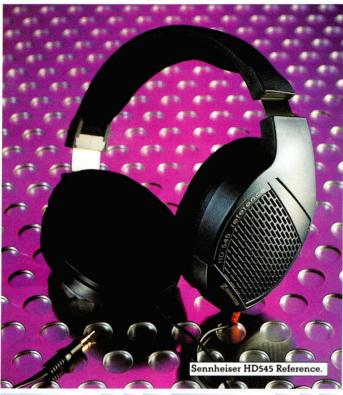
stranded construction. solid-core construction.

130.00 210.00	Price per mono metre	unteri	nina	ted.
240.00	Acoustic Energy AESC-C3	0		11.95
400.00	Apertura Silver	0		82.50
1.240.00	Art Yam Church M2000	0		470.00
1,560.00	Art Yam Church 5000	0		795.00
30.00	Audio Note AN-D	0		4.50
40.00	Audio Note AN-B	0		16.50
50.00	Audio Note AN-L	•		29.50
180.00	Audio Note AN-SP			150.00
	Audio Note AN-SPx	0		450.00
	Audioquest Type 2	©		3.50
	Audioquest F-18	•	•	3.60
-	Audioquest Type 6+	②		9.00
	Audioquest Indigo +	③		15.00
	Audioquest Crystal +			25.00
	Audioquest Forest	0		75.00
	Audioquest Argent +	0		125.00
	Audioquest Clear 3	③		200.00
	Bandridge LC7409			4.00
	Bandridge LC4110	•		28.00
	Bandridge LC3410			40.00
	Bandridge LC3210			75.00
	Bandridge LC3219	•		75.00
CTS	Bandridge LC3220	•		90.00
	Bandridge LC3310	•		95.00
	Bandridge LC3240	0		125.00
	Cable Talk Theatre 2	•		1.50
	Cable Talk The Flat One Cable Talk Talk 3.1	③		2.00
	Cable Talk Overture 2.1	•		3.25
pair.	Cable Talk Talk 4.1	(1)		4.25
	Cable Talk Talk 3.1 Biwire	©		4.50
139.00	Cable Talk Concert 2.1	©		7.00
255.00	Cable Talk Talk 4.1 Biwire	©		8.50
20.00	Cable Talk Symphony 3	©		12.50
30.00 275.00	Cable Talk Concert 2.1 Biwire	©		14.00
600 MGC	Cardas Audio 300B-Microtwin SC	0		35.00
30.00 60.00	Cardas Audio Quadlink-Five SC	©		59.00
90.00	Cardas Audio Cross SC	©		99.00
100.00	Cardas Audio Hexlink-Five SC	0		109.00
149.00	Cardas Audio Hexlink Golden5 SC	0		175.00
179.00	Cardas Audio Golden Cross SC	0		789 00
270.00	ChordCo Myth			6.00
William Million		800		000

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Section Comment Comm	ChardCa Larend	0	15.00	Transparent Cable Musichord Spkr			1.00	Shure M70BX	мм		21	Shure V15XMR	MM		295
March 1997 1			6.95	Transparent Cable The Wave		23	3.00	Shure M92E	MM		22	Stanton 890AL/X			120
Demonstrated Co-C Demonstrated Co-C Demon	Marie Control of the				-										
See 11.10.2 1.10		©													
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March 1987 1								A STATE OF THE STA					MM		60601
Section 14	Gale XL160-2		2.50	Vampire Wire ST-III		73	3.00	Stanton 680EL/X						MC	750
Server 14 1															
Section 19															
Section Company Comp					3					MC	100				
1985 1997 2-10 1997		63									139				
March 1995	Ixos 607	②	2.00	Van Den Hul Cleartrack		13	3.00	Audio Note Soara			795	Van Den Hul Grasshopper IIIGL	.A	600 C	2,800
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March 47			BOOK BEECH			400 cm - 100									
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Section Company Comp	Kimber 8TC	•	32.70	Van Den Hul Revelation HB	•	120	0.00	Benz-Micro H200		MC	700				
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Linder Sour					• • •	• •								4	100
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Linder Wing		②				::				MC				V	1
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Limity Sher 127					:::	::						activities and a little	Jack Ma	THE REAL PROPERTY.	大人
Marcian Duter 1-44												CASSETTE	DECKS		
Mission MacCol Miss	Lumley Silver 14/4	0	40.00					Dynavector XX-1L		MC	998				
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Mile		•		CARTRIDGE	ES						110				
Mordet Refer Desc. Soc.										MC		3-H – 3 heads, i.e.	separat	e reco	rd
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Ortholes SPR100 Ortholes SPR10	Nordost Red Dawn	©		MC - moving-coil type	e.			Goldring Excel VX			525		200		0.000
Ontoting SPR200					BERTHAN TO THE REAL PROPERTY.										100
Adol Preference Adol Prefe										B I			-		170
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Precision Metal Suffer L** 106	Precious Metals Silver L'r 34	0	15.00					Grado Signature XTZ			975	Denon DRM-550			160
Personic 0F 7342													-		200
Pursonic OF 7944															130
Pursonic OFC 7815						MC 1	100								170
Pursonic OFC 7815															
Pursonic DEC 7812		•	2.85								125				160
Pursonic DFC 2825					MM		79						-		200
Pursonic PSOCC 7801										WIC .	259		_		169
Pursonic PSOCC 7802				Grado ZCE+1					MM						199
Pursenic PSOCC 7803													-		
Comparison Com	Puresonic PSOCC 7803	•	27.00					London Decca S Gold			399		-		160
0ED Quides 4 core 0ED Quides 5 liWire 0ED Qui				Grado Prestige Blue	MM		69	Management of the Control of the Con							180
0ED Quidos Si-Wire	QED Qudos 4 core		4.00							ИС			-		200
OED Profile Silver 12		•		N'ham Tracer I			98	Lyra Clavis Da Capo		MC		Sony TC-KE200			120
According Silver 12			Section 1						ММ				-		150 180
Rega REGA	QED Profile Silver 12	•	15.00					N'ham Tracer III	MM		410	Sony TC-WE505	-		180
Shinpy Red Star 2				Ortofon 510	MM					MC					100
Shinpy Red Star 2	Shinpy Red Devil		30.00										-		170
Shinpy places Star 2		©		Ortofon OM 20			70		MM		130	TEAC R-560	-		180
Shirpy Quasar 2 208.00 Ortofon M0 30 MM MM Siltech LS2-45 0 109.00 Ortofon MC10 Suprem MC 100 Ortofon SPU mono MC 350 Technics RS-TR373 100 250 240.00 Ortofon MC10 Suprem MC 250 Technics RS-TR474 200 250 250 240.00 240.															
Siltech LS2-45	Shinpy Quasar 2		208.00					Ortofon MC10 Supreme		MC	300	Technics RS-TR373	-		180
Silver Sounds 12 Gauge Gau				Ortofon MC10 Super		MC 1	.00								200
Silver Sounds 12 Gauge 35.00 Pickering VE-15 MM 25 Ortofon MC2000II MC 75.00 Silver Sounds 8 Gauge 35.00 Pickering VI-15 MM 28 Ortofon MC2000II MC 75.00 Silver Sounds 8 Gauge 35.00 Pickering VI-15 MM 28 Ortofon MC2000II MC 75.00 MC 20.00 Silver Tone Silver-Sonic HC 10.00 Pickering II-E MM 35 Ortofon MC3000 II MC 1.00 MC 1.00 Aiwa AD-F850 3-H 230 Silver Tone Silver-Voice 35.00 Pickering II-2E MM 45 Ortofon MC5000 MC 1.00 Aiwa AD-F850 3-H 230 Silver Tone Silver-Voice Ultra 35.00 Pickering XVI5-625E MM 50 Ortofon MC5000 MC 2.000 Carver Tone-Is50 6-2 Silver Ione Silver-Voice Ultra 35.00 Pickering XVI5-150-DJ MM 50 Pickering II-2003 MM 145 Denon DRM-650S 230 Sonic Link AST50 Sonic Link AST50 Sonic Link AST50 Sonic Link AST50 Sonic Link AST200 Sonic				The state of the s										3-H	150
Silver Sounds & Gauge \$\circ{3}{5}\$ \$\ci		•		Pickering VE-15			25			NC		Yamaha KX-W392	-		180
Silver Tone Silver-Sonic Color C													200	Gaza	200
Silver Tone Silver-Voice Silver-	Silver Tone Silver-Sonic	•	10.00					Ortofon MC3000 II		NC 1	100	Aiwa AD-F850			230
Silver Tone Silver Voice Ultra				Pickering TL-2E	MM		45							3-H	
Sonic Link AST50				Section Control of Con				Pickering TL-3003							230
Sonic Link AST200		•		Pickering TL-2-S	MM		55	Pickering XLZ-4500	MM						270
Sonic Link AST200x2				Pickering XV15-757S	MM			Management of the Control of the Con						3-H	310 250
Sonic Link S100	Sonic Link AST200x2	②	10.00	The state of the s				Pickering XLZ-7500	MM		200	H/K TD450		3-H	350
Sonic Link S300x2				Pickering TL3S	MM	1	80								270
Sonic Link S900	Sonic Link S300x2	•	35.00					Reson Reca							
Sonic Link RE3.1		©		Pickering TL-4-S		10	00	Reson Aciore	N	AC	299	NAD 614			270
Sonic Link RE3.4		(E)		Rega Bias	MM								-		
18CD + LIDK SPL /3 PA 170 - Roksan Shiraz Roksan Shiraz 970 Ontro TADW 211 - 220			330.00					Roksan Corus Black	MM		130	Onkyo TARW 211			270
	TECH + LINK SPC /9	•	1.20		ММ	8	85	NOKSAN SNIFAZ	V	иС	9/0	Unkyo TARW 311	-		320

nkyo TA 6310 nkyo KR 609			330 350	Sherwood CDC6050R Sony CDP-M205	=	1 010	180 110	TEAC VRDS-7 TEAC VRDS-9		1010	599 700	Micromega Drive 3 Micromega Data		1010 T
nkyo KW 606 nkyo TARW 411	=		370 370	Sony CDP-XE210 Sony CDP-M305			120 130	TEAC VRDS-10SE		100 10 10 10 10 10 10 10 10 10 10 10 10	850	Monrio Bitmatch		1010 2,1 1010
nkyo K 611	-	3-H	G150	Sony CDP-XE310			140	Technics SL-P2000 Trichord Genesis		1010 1010	1,000 549	Muse Model 5 Oracle CD Drive		1010 1,8 1010 4,6
ioneer CT-S550S ioneer CT-W806DR	-	3-H	250 300	Sony CDP-CE105 Sony CDP-XE510	■>		150 180	Trichord Digital Jukebox 25 Trichord Digital Jukebox 50	■	1010	599	Pink Triangle Cardinal II		1010
ioneer CT-S550S Precision		3-H	340	Sony CDP-CE315	■		200	Trichord Digital J'box 100		100 10 10 10 10 10 10 10 10 10 10 10 10	649 699	PS Audio Lambda TR PS Audio Lambda AT&T		1010 2,2 1010 2,2
ioneer CT-S830S ioneer CT-95		3-H		Sony CDP-C325M Synergy CDJ1210	■		200 120	Trichord Revelation YBA Special		10 10	799 625	Rogers SC-8t Roksan Attessa-DP3		1010 2,6
tel RC960BX		3-n	250	TEAC CD-P1800			130	Over £100	0	1010		Sonic Frontiers SFT-1		1010 2,2
ny TC-WE805S ny TC-KA6ES	-	3-H	250 550	TEAC CD-P3450SE TEAC PD-H500		1010	200 240	Acoustic Precision Eikos Alchemist Forseti		1010 1010		Sonic Frontiers Transport 3 T+A CM1200R		5,9 100 10
-A CC1200R		3-11	990	TEAC PD-D2200	■	Щи	250	Audio Research CD1		1010	3,290	TEAC VRDS-T1		1010
AC W-850R AC V-1030	-	3-H	250 250	Technics SL-PG380A Technics SL-PG480A			100 130	Audio Research CD2 Audiomeca Talisman		10 10 10 10		TEAC P-30 Theta Digital Data Basic II		1010 2,5 1010 2,5
AC W-6000R	-		450	Technics SL-PG580A			150	Audiomeca Talisman SE		1010	2,300	Theta Digital Data III NTSC/PAL		1010 5,4
AC V-6030S AC V-8030S		3-H		Technics SL-PD687 Technics SL-PD887			160 180	AVI S2000MC Cary CD-301		1010 1010	1,399 2 495	Thorens TCD-2000 Trichord Digital Turntable		1010 1010
chnics RS-AZ7		3-H	270	Technics SL-PS670D		1010	200	Conrad-Johnson DF-2			1,695	Tube Tech Fulcrum		1010 1,0
chnics RS-TR575 maha KX-580SE	-		280 250	Technics SL-PS770D Yamaha CDX-390			250 130	Conrad-Johnson DV-2b Copland CDA-266		1 010	2,495	Wadia 8 Wadia 20		1010 3.1 1010 4,3
naha KX-W592	-		280	Yamaha CDC-565	■		170	Copland CD277		1010		Wadia 20		L U10 4,
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				£251 to £4		T. Nov	500	Helios Stargate Krell KPS30i		1010			001	
				Arcam Alpha 7	■>	1010	330	Krell KPS-20i		1010 1010			IIOI	
				Arcam Alpha MCD	■	1010	450	Marantz CD-17KIS		1010	1,100	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	0101	
				Aura CD100 Carver MV-5	■	1010	400 469	Mark Levinson 39 Meracus Tanto		1010 1010			OIO	TO Y
h.				Denon DCM-260	■.		300	Meracus Imago Player		1010	4,495		OOI	
				Denon DCD-1550AR Denon DCD-1015		1010 1010	350 350	Meridian 506 Meridian 508		1010 1010				
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CD PLAYE	ERS			H/K FL8300 JVC XL-Z674BK	=	1010 1010	300 300	Myryad MCD500 Naim CD2		1 10	1,300 2,000	CONVERTERS	(DACs	i)
KEY	高於精			Kenwood DP-R7080	■	1010	300	Naim CDX			2,200	4 – number of digital	linnut	·
≣> – multiplayer: ca		aded		Kenwood DP-9090 Kenwood DP-7090		1010 1010	300 400	Naim CDS Oracle CD Player		1010	3,940	C) - number of digital	mputs	•
vith more than one di	isc.			Marantz CD-67SE		1010	350	Pink Triangle Numeral		1010	1,049	Altis Reference	0	4.
]10 – electrical (coaxia	l) digita	l out	out.	Marantz CC-870 Marantz CD-63IIKI	■>	1010 1010	400 400	Pink Triangle Litaural Primare 302		1010 1010		AMC CDM7DAC AMC DAC8		
fany players also ii		an		Musical Fidelity E60		1010	300	Roksan Attessa-DP3P		1010		AMC CDM7VAC		
otical (Toslink) out				Musical Fidelity A2 CD NAD 513		1010	500 290	Sherwood CD1 Sonic Frontiers Anthem CD1	_	1010 1010		Apogee Digital DA-1000 Arcam Black Box 50	0	3,
Up to £25 a XC-300	50	MC/V	150	NAD 515		1010	350	Sonic Frontiers SFCD-1	=	1010 1010	3,495	Arcam Black Box 500	0	
i CD1100		1010	180	NAD 514 NAD 517		1010	370 400	TEAC VRDS-25 Theta Digital Miles		1010		Audio Note DAC1 Audio Note DAC2		1,
i CDM1200	■		230	Onkyo DX 7210		1010	260	XTC CDP-1		1010 1010		Audio Note DAC3		1,
CD9 CD8A			120 150	Onkyo C721		1010	290	YBA Integre		1010	1,250	Audio Research DAC5		2,
CD6		1010	250	Onkyo DXC 320 Onkyo DX 7510	=	1010	380 400	YBA CD3 YBA CD2		1010 1010		Audio Research DAC5 Audio Research DAC3		4,
C CDM7 ton CDX700		1010	250 60	Onkyo CM 716	■>	Lio	450	YBA CD1		1010	4,500	Audio Research DAC3		4,
ton CDX710			100	Pioneer PD-F805 Pioneer PD-S705	■	1010	300 300	Altis CDT III		1010	1,995	Audio Synthesis DAX Decade Audiolab 8000DAX	0	2,
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on DCD-625 on DCD-715		1010	200 235	Sony CDP-XA20ES		1010	450					Conrad-Johnson D/A-3	0	1,
on DCD-825		1010 1010	240	Sony CDP-X3000ES TEAC CD-5		1010	500					Conrad-Johnson D/A-2b Denon DCD-425		1,
HD710		1010	200 110	Technics SL-MC410	■•		350 300		SET IN			DPA Little Bit 3	0	
XL-V120BK XL-V130BK			120	Yamaha CDX-890		1010	350	HIIII	****			DPA Renaissance DAC		
XL-V230BK			140	£501 to £1 Acurus ACD11	000	1010	899	CD TRANSPO	RTS			DPA Enlightenment DAC DPA SX128		2
XL-F116BK XL-F216BK			180 200	Alchemist Nexus		1010	597	KEY	4			DPA SX256		4
XL-Z574BK			250	Arcam Alpha 8 Arcam Alpha 8SE		1010 1010	520 600	1010 - electrical (coaxial	l) digi	tal		DPA SX512 Jadis JS3		8 2
vood DP-1080 vood DP-2080	100		110 130	Audiolab 8000CD		1 10	1.000	output.				Jadis JS1		8
vood DP-R3090	■>		140	AVI S2000MC2 Creek CD42		1010 1010		Many players also inc		an		LFD DAC2 LFD DAC3		1,
wood DP-R4090 wood DP-3080	=		160 170	Denon DCD-3000		1010	1,000	optical (Toslink) outpu	ut.			Linn Numerik		1,
wood DP-R6090	=>		200	DPA Renaissance int CD Fase Evoluzione Laserdrive 1.0		1010	950 995	Assess Dalla 050		TTC+	000	Manley Professional DAC-20 Mark Levinson 36	0	6,
wood DP-4090 antz CD-38		1010	250 130	Helios Model 3		100 10 100 10	650	Arcam Delta 250 Audio Research CDTI		1010 1010		Mark Levinson 30.5	U	15
intz CC-38			200	Helios Model 2		1010	950	Audio Synthesis Transcend Decade		1010	2,995	Meracus Auriga Meracus Flagrare		1,
intz CD-48		1010	200	Heybrook Signature II Linn Mimik		1010 1010	989 875	Audiolab 8000CDM Audiomeca Damnation		1010 1010		Meridian 566		1
antz CD-57 antz CD-67II		1010 1010	230 250	Magnum CD2020		1010	595	Audiomeca Damnation SE		1010	,100	Micromega DAC 2		
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512 522		1010	250 169	Micromega Stage 5		1010	750	Audiomeca Talisman DOB		1010 Z	2,250	Muse Model 2		2,
ips CD711			120	Micromega Stage 6 Mission dAD3		1010 1010	950 598	Audiomeca Mephisto Audiomeca Mephisto SE		1010	2,350	Muse Model 2 Plus Musical Fidelity X-ACT	0	2,
ps CD721 ps CD751	1	10010	130 150	Mission dAD3Q			898	Audiomeca Mephisto		1010 2 1010 2		Musical Fidelity X-DAC		
ips CDC751	■	Ш10	180	Monrio Privilege		1010	995	Cambridge Discmagic One		1 10	300	Onkyo DX 7310 PS Audio DL3		
eer PD-106			130	Myryad MC100 Naim CD3			700 1,000	Conrad-Johnson DR-1 DPA Enlightenment Drv		1010 1 1010		PS Audio SL3		1,
neer PD-206 neer PD-F606	■>		150 200	Orelle CD100eA		1010	649	Jadis JD3		10 10 A	,850	PS Audio UltraLink 2 HDCD		2,
eer PD-M603			200	Orelle CD-100eSA Pioneer PDS-06		1010 1010	999 550	Jadis JD2 Jadis JDI		1010 4 1010 12		PS Audio Ref Link Rogers SC-8m	0	1,
eer PD-S505 eer PD-F706	■ .	1010	200 250	Primare D20		1010	800	Krell KPS-20t		1 10 8	3,490	Roksan Attessa-DA2	0	
RCD-930AX	=		180	Quad 77 Bus Quad 77 Mains			700 900	Linn Karik Mark Levinson 37		10 10		Sonic Frontiers SFD-2 Mk 2 Sonic Frontiers Processor 3	6	5,3
RCD950 sui CD220		1010	250 100	Roksan Caspian		1010	895	Mark Levinson 31.5		1010 3 1010 9	,295	Sumo Theorem II	•	
MI ODELO			180	Synergy CDJ1220	■		600	Meracus Imago		1010		Sumo Theorem IIB		1,
rwood CD-4030R rwood CDC680	100		180	T+A CD1200R		1010	895	Meridian 500	200	1010		Talk Electronics Thunder 3	200	1



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TEAC D-T1	0	500
TEAC D-700		600
Theta Digital Chroma Std		849
Theta Digital Pro Geny		1,145
Theta Digital Pro Prime II		1,800
Theta Digital Pro Basic III		2,990
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Thorens TDA-2000	0	700
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Wadia 64.4		4,750
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Wadia 7		9,995
Wadia 9		12,790
Woodside DVAC-18		1,499
	9800	



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Denon DMD-1300	MD 500	
Kenwood DM-7090	MD 500	
Onkyo MD 122	MD 700	
Philips CDR870	499	
Pioneer PDR-04	700	
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Pioneer PDR-05	1,000	
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Sharp MD-MS200H	MD 🚳 350	
Sharp MDXV300H	MD 1,000	
Sony MZ-E20	MD @10 180	
Sony MDS-JE510	MD 250	
Sony MZ-E30	MD 🙃 280	
Sony MDS-S38	MD 300	
Sony MZ-R30	MD @ 300	
Sony MDS-JA30ES	MD 699	
TEAC MD-H500	MD 650	
TEAC MD-10	MD 950	



'D' - dynamic type, compatible with virtually all normal headphone sockets.

JVC HA-D1000

Pioneer SE-M750

Precide Ergo Model 1

nnheiser IS 380

Sennheiser HD465

Sennheiser HD570

Sennheiser HD25 SP

Sennheiser HD250II

Sennheiser HD25-13

Sennheiser HD25

Sennheiser Lucas

Sennheiser IS850

Sennheiser Orpheus

Sony MDR-IF120K

Sony MDR-IF125RK

Sony MDR-IF420RK

Sony MDR-IF520RK

Stanton DJ Pro 101/HB

Stax SR-Lambda Nova C

Stax SR-Lambda Nova S

Technics RP-F800

Technics RP-HT600

Stanton DJ Pro 1000

Stanton DJ Pro 1001

Sony MDR-E888

Sony MDR-V600

Sony MDR-NC5

Sony MDR-D77

Sennheiser HDC 451-1

Sennheiser HD265 Linear

Sennheiser HD 580 P'cision

Sennheiser IS450

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JVC HA-F25

'E' — electrostatic type; generally includes a separate power supply. - open-back construction. o - closed-back construction.

Aiwa HP-X301 Aiwa HP-VX303 Aiwa HP-X705 0000000 D

Aural Envelope DX200 Aural Envelope DX220 Beyer DT111 Beyer DT211 Beyer DT211TV JVC HA-CD88 JVC HA-D525 JVC HA-F65 JVC HA-D626 Kenwood KPM-310 25 21 25 33 20 20 23 25 30 18 D KLH KHP201TW KLH KHP-300V D KLH KHP-420V Maxell HP-2000 D Pioneer SF-A20V D Pioneer SE-M350 Sennheiser HD56 D D Sennheiser HD433 20 25 Sennheiser HD400 D D Sennheiser HD470 35 Sennheiser HD60TV D 40 18 18 18 Sony MDR-W20G D Sony MDR-E837 Sony MDR-P70 D MDR-FD238 20 20 D Sony MDR-009TV D Sony MDR-A34L Sony MDR-E848

Sony MDR-P1TV Sony MDR-CD270 Sony MDR-E868 D D D D D D D D D Sony MDR-V400 40 40 Sony MDR-D11 Stanton ST Pro 25 30 Technics RP-F200 Technics RP-HT300 40 Vivanco SR150 20 25 25 30 Vivanco SR200 Vivanco SR250 Vivanco SR300 40 Vivanco IR5700 AKG K301 80 no AKG K222IR 100 120 AKG K401 D 150 150 AKG K501 AKG K333IR DDD 180 AKG K290S 250 700 **AKG K1000** Audio Technica ATHD40FS D 120 **Audio Technica ATHM40FS** 120 D D Audio Technica ATH911 120 50 63 106 49 49 49 D D Beyer DT801 125 Beyer DT811 145 4 Beyer DT901 D 160 D D 170 45 Denon AH-D210 Denon AH-D350 D 65 Denon AH-D650 95 4 Denon AH-D950 150 D 45 79 Grado SR60 D 150 Grado SR125 D Grado SR325 300 Grado RS1 695 klin Float Model 1 klin Float Model 2 n Float FLS JVC HA-D727 43 D 49

250 D 699 D 60 120 D 65 80 D -90 D 110 D D 0 150 150 D 10 D 160 D D D 160 -200 D 250 280 10 D 859 ** ,652 E D D D D D D D D D 10 55 60 70 100 100 100 100 130 D D D 150 65

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Pioneer CP-7

Pioneer CP-8

Projekt Signature

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Technics RP-DJ1200 D Vivanco SR850 50 60 ICO FMH 3000 60 70 Vivanco IR6000 D 70 Vivanco IR7600 100 Vivanco SR1000IFL 100 D 20 Vivanco SR2000IFL D



10.		English Street	
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	60 – height of stand i	n cm	
	Mahasan NCI		47
	Alphason NCI Alphason Akros I	60 60	49
	Alphason RS1	120	49
	Alphason Akros II	60	59
	Alphason NCII	60	84
	Alphason HDS-40/M	60	85
	Alphason Titan S	60	125
	Apollo AZ6	66	80
	Arcici Q-1	30	299
	Arcici Q-2	30	299
١	Atacama BD21	56	55
	Atacama BD17		55
	Atacama BD25 Atacama SE16		60 65
	Atacama SE12		65
Ì	Atacama SX500		67
	Atacama F2		70
1	Atacama F1		70
	Atacama SX600		70
į	Atacama SL200		70
Ì	Ata ama SE24	61	70
	Atacama SE20		70
ı	Atacama SX700		73
	Atacama SL300		73
1	Atacama TP600		75
١	Atacama TP500		75
Į	Atacama SE615 Atacama SE515		75 75
8	Atacama SE415		75
1	Atacama SL400		76
ı	Atacama SE1000S		80
	AVF Tower P6144BP	60	35
	BCD Model 1010	60	495
8	Credo STD 001		284
ě	Custom Design CD 500	50	35
ı	Custom Design AS 130	25	35
	Custom Design AS 630AV	65	40
	Custom Design Tri 100 Custom Design R/S 200	50	50 50
100	Custom Design R/S300	50 60	70
200	Custom Design Tri 300	55	85
8	Custom Design SCS 24	60	85
	Custom Design X24	61	109
	Custom Design C 20	50	109
	Custom Design H1	50	275
TESTER!	Deadrock 903 Deadrock 902	60	60 60
	Deadrock 901	47	60
NAME OF	Dynaudio Trophy	39 60	120
	Dynaudio Master	60	200
Š	Dynaudio Ultima	60	290
Š	Harbeth HL-Stands	21	249
	Heybrook Stand-ULT	3	55
	Heybrook Stand-S6	63	69
	Heybrook Stand-S4	48	69
	Heybrook Stand-S1	47	119
	JPW MS2 JPW MS3	45	45 55
	JPW MS1	61 46	80
	JPW HS1	58	120
	JPW HS2	45	120
	Kudos Audio Arrow	60	50
	Kudos Audio S-50	60	100
	Kudos Audio S-100	63	270
	Mission Micrometer	58	70
	Mission Entasis	58	98
	Opera S1	60	345

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Royd Royd	55	
SD Acoustics SD Alexandra	50	
Silverado Silverado 1 Stand	60	
Sonus Faber Ironwood		
Sonus Faber Stonewood		
Sound Org Z037		
Sound Org Z027		
Sound Org Z026		
Sound Org Z518	45	
Soundstyle X6118	42	
Stands Unique Speaker support	59	
Stands Unique Tuned Spkr Support	59	
Stands Unique Tuned Carbon Fibre	59	
Stands Unique Vivas CF Spkr Supp	60	
Target TR60	60	
Target R1	53	

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5 Hambel of Shelve.		
Alphason SM17	1	49
Alphason VSM17	1	85
Alphason GSM17	1	85
Alphason GMV1P	1	110
Alphason R17/17	3	120
Alphason GMH1P	1	150
Alphason GR17/17	3	150
Alphason VR17/17	3	190
Audiophile Base 01	1	79
Audiophile S4T120	4	280
Audiophile S4T120P	4	560
BCD Model 1006/8	1	795
BCD Model 1000	3	1,250
Custom Design G3	3	130
Custom Design Aspect 650	4	240
Custom Design Aspect 500AV	3	270
Custom Design Aspect 850	5	270
Deadrock 701	1	60
Deadrock 802	2	90
Deadrock 703	3	130
Deadrock 704	4	190
Deadrock 705	5	230
Fi-Rax R4 Frameworks H175	6	399 130
Frameworks FS1	1	150
Frameworks FT2		285
Frameworks FT3		350
Frameworks H700		355
Frameworks H900		389
Frameworks H500/H175	3	404
Heybrook Stand-Signature	4	249
noja.com otana orginataro	"	210

	Marine S	
Impulse Iso-plate		
JPW 3 Tier	3	
JPW 5 Tier	5	
Kudos Audio Corinthian	5	
Linn K3000		
Mana Sound Frame		
Mana Mini Table		
Mana Power supply table		
Mana Reference flat top		
Mana Sound Shelf		
Mana Sound Base		
Mana Sound Stage		
Mana Sound Table		
Mana Ref Shelf		
Mana Reference Table		
Mana 2 Tier Amp stand		
Mana 3 Tier Amp Stand		
Mana 4 Tier Amp Stand		
Mana 5 Tier Amp Stand		
Mana 6 Tier Amp Stand		
Mission Hark		
Optimum G2	2	
Optimum G2/Pedestal	2	
Optimum G4/Pedestal	5	
Optimum OPT 3406	3	
Optimum G5/Pedestal	6	
Optimum OPT 4906	4	
Optimum OPT 6606	5	
Optimum OPT 340	3	
Optimum OPT 490	4	
Optimum OPT 440	4	
Optimum OPT 10206	6	
Optimum AV 300	3	
Optimum OPT 700 Optimum OPT 610	5	
Optimum OPT 660	5	
Optimum OPT 1020	5	
Optimum OPT 1190	6 7	
Projekt A3	3	
Projekt A4	4	
Projekt A5	5	
Projekt B3	6	
Projekt A6	6	
Projekt B3i	6	
Projekt B4	8	
Projekt B Multi	8	
Projekt B3ii	7	
Projekt C3	9	
Projekt D3	12	
Projekt C3i	8	

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Projekt D3i	12
Projekt C4	12
Projekt C3iv	10
Projekt D3ii	14
Projekt C Multi	9
Projekt D4	16
Quadraspire Q4S mini shelf	1
Quadraspire Q4S shelf	1
Quadraspire QKS Cabinet shelf	1
Quadraspire QAV shelf	1
Quadraspire Q4M mini table	4
Quadraspire Q4 table	4
Quadraspire QAV table	3
Quadraspire Q4SP Table	4
Quadraspire QAVSP Table	
Quadraspire QK Cabinet	4
Reson DOMOPS	1
Reson DOMOWS	1
Sound Org Z022	1
Sound Org Z021	2
Sound Org Z030	3
Sound Org Z060	4
Sound Org Z038	5
Sound Org Z540	4
Sound Org Z545	4
Sound Org Z560	5
Sound Org Z530	3
Soundstyle X300	3
Soundstyle X305	3
Soundstyle X053	4
Soundstyle X050	4
Soundstyle X6300	3
Soundstyle X100	4
Soundstyle X6110	4
Soundstyle X058	5
Soundstyle X310	3
Soundstyle X105	5
Soundstyle X6053	4
Soundstyle X6100	4
Soundstyle X6310	3
Soundstyle X6058	5
Soundstyle X6105	5
Soundstyle Finewoods W105	5
Stands Unique Isolation Platform	1
Stands Unique Sound Support	4
Stands Unique Sound Tower	5
Stands Unique Compact Sound Support 10	2000
Stands Unique Sound Support 10	4
Stands Unique Sound Twr Cabinet	5
Stands Unique Ref Wall Support Stands Unique Ultimate Tower	1
Stands Unique Ref Floor Support	10
Target B5	5
Townshend Seismic Sink 1-CD	3
Tomandia Solalilo Silk 1-00	

Stands Unique Sound Twr Cabinet	5	
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Stands Unique Ref Wall Support	1	
Stands Unique Ultimate Tower	10	
Stands Unique Ref Floor Support	6	
Target B5	5	
Townshend Seismic Sink 1-CD		
Townshend Seismic Sink 1-3D		
Townshend S/Sink Stand 1-4	4	
Townshend Seismic Sink 3-4	4	
Wilson Benesch Standard Shelf	1	
Wilson Benesch Mono Block	1	
Wilson Benesch Kevlar Shelf	1	
Wilson Benesch Asside Basic		
Wilson Benesch Asside	4	
Wilson Benesch Triptych	1	
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<mark>히</mark> 퍼 어 어 어 어 어 어 어 ^주 어 어 머 어 어 어 어 어 어 어 어 어 어 Denon SC-M2 **Gale Mini Monitors** Gale Gold Monitors Genexxa GX300 Genexxa GX330 **GLL Arena** Goodmans Active 75 Interaudio XL1000 Jamo Studio-80 Jamo SAT-90 Jamo Cornet 25 Jamo D-110 Jamo SAT-170 Jamo Studio-110 Jamo Cornet 35 Jamo Artina Jamo D-115 Jamo 28 JBL TLX111 JPW ML110 JPW Gold M JPW ML210 JPW ML310 JPW ML410 JVC SX-SC1VBK JVC SP-V50 JVC SP-X220TBK 中干 JVC SP-X550BK . Kenwood LS-90UK Mordaunt-Short VS-100 NAD 801 Paradigm Micro Paradigm Atom Pioneer CS-3030 和田田 Polk AB410 Realistic Minimus 26 Realistic Minimus Pro-77 HO 10 10 10 10 R Allen Minette 2 Solid HCM2 Sony SS-86E Tangent Monitor 3 Tangent Monitor 7 Tannoy Mercury M1
TDL Nucleus 1 TDI Nucleus 2 TEAC LS-X8 Mk II Technics SB-CS55
Technics SB-CS65 Technics SB-CS75 Visonik 5202 W'dale Valdus 100 9 0 W'dale Diamond 7.1 W'dale Valdus 200 Acoustic Energy AE100 9 0

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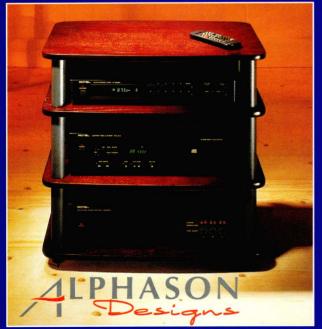
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requiring no separate stand.

stand mount; smaller models designed to be raised above the floor. wall mount; designed to be hung

on the wall or mounted in-wall. □ - box type, including infinite baffle, reflex and transmission line types. 🗀 - horn type; mostly large and very

 \square - panel type, including electrostatic and planar magnetic types.

Allison Micro Monitors

AIIISUII MUUEI 4A	200	88 0	1/(
B&W DM302	₽	0	150
B&W CWM5	±	0	170
B&W DM601	<u>=</u>	0	199
Bose 101		0	190
Bose 141	2	0	200
Boston CR6	9	0	149
Boston 325	±	0	149
Boston Micro 80 Sat	9	0	169
Boston Runabout	9	0	169
Boston 335	±	0	179
Boston 351	±	0	189
Boston CR7	B	0	199
Boston Runabout II	0	0	200
Celestion 15i	2	0	199
Cerwin-Vega CT-165	#1	0	200
Denon SC-E313	<u>B</u>	0	160
Gale 2i	<u> </u>	0	140
Gale 4i	_ ₩	0	140
Gale 3i	<u> </u>	0	150
Genexxa GX650	± 1	0	140
GLL Imagio IC100	9	0	170
Heybrook Prima 2	B	0	159
Infinity SM65	<u>n</u>	0	150
Infinity Reference 1i	<u> </u>	0	150
Infinity Reference 11i	<u>=</u>	0	200
Interaudio XL2000	<u> </u>	0	200
Jamo 38	<u> </u>	0	150
Jamo 525	±	0	150
Jamo 560			150

Jamo Cornet 65 Jamo Studio 180 Jamo D165

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Boston CR9	<u>=</u>	0	279	R Allen RA8M	<u> </u>	0	249	GLL Imagio IC120
Boston 381	→	0	259	R Allen RAS	<u></u>	0	249	Faraday Siren
loston CR8	<u> </u>	0	239	R Allen Dimension Five 1	Ŧ	0	239	Faraday SG
loston 361	±	0	219	Revolver The 250	Ŧ	0	250	Epos ES12
lose 201	2	0	290	Rega EL8	Ŧ	0	298	Def Tech Celsius
Sose161	<u>.</u>	0	275	Promenade SP1	2	0	299	Dali Royal
ose 151	<u> </u>	0	270	Polk M5	<u>=</u>	0	300	Dali 606
&W DM602	<u>-</u>	0	300	Polk RT7	→	0	300	Dali 104B
udio Gem Opai &W CWM6i	₽	0	230 280	Polk M3 II Polk RT5	→	0	220 250	Cerwin-Vega VS-10 Clements 300si
coustic Energy AE200 udio Gem Opal	9	0	250	Polk AB505	→	0	220	Celestion 35i
£201 to £	700	10.75	050	Pioneer S-LC1	2	0	300	Celestion 30i
YP A1	9	o	199	Pioneer CS-9030	¥	0	280	Celestion 25i
dale Diamond 7.3	±	0	200	Pioneer CS-7030	<u> </u>	0	230	Castle Eden
V'dale Valdus 400	<u>+</u> 1	0	200	Paradigm Mini Monitor	9	0	220	Castle Kendal
V'dale Modus Music Two	9	0	200	NHT SuperZero	9	0	218	Castle Tay
V'dale Valdus 300	<u> </u>	0	150	NAD 802	2	0	280	Boston VR20
V'dale Diamond 7.2	9	0	140	Mus Tec Kestrel SE	¥	0	300	Boston Micro 80 Sys
isonik 5001		0	170	Mordaunt-Short MS10i Classic	-	ō	280	Boston Micro 90 Sat
/isonik 6003	Ē	0	143	Mordaunt-Short MS30i	0	0	275	Bose A'mass AM3 II
echnics SB-M20	2	0	200	M-A Monitor 2	-	0	300	Bose 171
echnics SB-CS95	9	0	150	M-A Monitor 1	-	0	250	Bose 301
DL Nucleus 3	±1	0	200	KLH Model 81	0	0	290	Blue Room Mini Pod
angent monitor 11 annoy Mercury M2	<u>≠</u> 1		140	KLH Model 81	*	0	280	Bandor Pictures
angent Monitor 9 angent Monitor 11	<u>±</u> 1	0	150 180	KLH 183A KLH Soundbites System	± 1	0	265 276	B&W DM603 B&W Signature 7
Sony SS-176E	± 1		200		₽.	0	205	B&W CDM2
Sony SS-126EB	9	0	150	KEF Model 70S KLH 83A	<u>-</u>	0	299	B&W DS6
Solid Monitor	=	0	200	KEF Coda 9	¥	0	299	B&W DM305
Sequence 200	→	0	199	JVC SX-SW10	<u> </u>	0	300	B&W CWM8i
Royd A7X	<u>=</u>	0	155	JPW ML910	¥	0	300	B&O Beovox CX100
Rogers GS1	<u>=</u>	0	179	JPW ML810	¥	0	260	B&O Beovox CX50
R Allen RA6	<u> </u>	0	199	JPW ML710	¥	0	230	AVI Neutron
R Allen Dim'n 5/1 Compact	<u></u>	0	179	JBL TLX151	<u>-</u>	0	300	Allison Model 2A
R Allen Minette 3	Ŧ1	•	159	JBL LX2	9	0	250	Acoustic Energy AE120
Revolver Purdey MkII	<u>=</u>	0	199	Jamo 307A	<u> </u>	0	300	Acoustic Energy AE209
Revolver The 230	<u> </u>	0	169	Jamo D265	¥	0	300	Acoustic Energy AE109
Revolver Colt	<u>-</u>	0	139	Jamo Art	→	0	270	£30
Rega Kyte	<u></u>	0	198	Jamo Classic 4	<u> </u>	0	250	ZYP A2ST
Polk AB610	±	0	200	Jamo 892	→	0	220	ZYP A2S
Polk RT3	0	0	200	Interaudio XL4000	9	0	295	ZYP A1T
Polk M2	±	0	180	Interaudio XL3000	9	0	230	Yamaha NS10M
Pioneer CS-5030	<u> </u>	0	170	Infinity SM85	9	0	250	W'dale Valdus 500
Paradigm Titan	<u> </u>	0	150	Heybrook HB1	<u> </u>	0	269	W'dale MFM1
Mordaunt-Short VS-300	*	0	200	Heybrook Heylette		0	269	W'dale Modus Music Fo
Mordaunt-Short MS20i Pearl	0	0	200	Heybrook Optima	7	0	259	Visonik SUB5
Mordaunt-Short VS-200	9	0	150	GLL Imagio IC115	7	0	300	Visonik 7003
Mordaunt-Short MS10i Pearl	<u>=</u>	0	150	GLL Imagio IC110	+1	0	260	Tannov Precision P10
Mission 7311 Pro	<u> </u>	0	200	Faraday FS1 Gale 5i	±1	0	220	Tannoy Mercury M3
KLH Model 31 Mission 731i Pro	<u> </u>	0	185 140	Dali 150	<u> </u>	0	300 245	Solid HCM1 Sony SS-176EB
KLH Model 11	<u>=</u>	0	155	Dali 102B	<u> </u>	0	260	Sequence 300
KLH Model 21	9	0	155	Chario Syntar 100	9	0	250	Ruark Epilogue
Kenwood LS-200G	<u> </u>	0	200	Cerwin-Vega CT-330	± I	0	300	Royd Minstrel
KEF Model 60S	<u></u>	0	199	Cerwin-Vega VS-8	9	0	250	Royd The Envoy
KEF Q15	<u> </u>	0	199	Celestion 23i	9	0	299	Rogers GS3
KEF Coda 8	<u> </u>	0	189	Castle Isis	<u>P</u>	0	250	Rogers db101
JPW SS551	<u> </u>	0	200	Boston Voyager	<u> </u>	0	299	R Allen Dimension Five

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ž	0	230	Yamaha NS10M		0
ŝ	0	295	ZYP A1T	9	0
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î	0	300	Acoustic Energy AE109	±	0
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į	0	300	Allison Model 2A	<u>-</u>	0
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ğ	0	300	B&O Beovox CX100	9	0
ĕ	0	300	B&W CWM8i	→	0
	0	299	B&W DM305	±	0
į	0	299	B&W DS6	±	0
	0	205	B&W CDM2	<u></u>	0
	0	265	B&W DM603	₹ ±	0
	0	276	B&W Signature 7	±	0
	0	280	Bandor Pictures	→	0
	0	290	Blue Room Mini Pod	0	0
	0	250	Bose 301	0	0
	0	300	Bose 171	9	0
	0	275	Bose A'mass AM3 II	<u> </u>	0
	0	280	Boston Micro 90 Sat	<u> </u>	0
	0	300	Boston Micro 80 Sys	¥	0
	0	280	Boston VR20	¥	0
	0	218	Castle Tay	0	0
	0	220	Castle Kendal	¥	0
	0	230	Castle Eden	<u> </u>	0
	0	280	Celestion 25i	+	0
	0	300	Celestion 30i	+	0
	0	220	Celestion 35i	¥	0
	0	220	Cerwin-Vega VS-10	±	0
	0	250	Clements 300si	<u>-</u>	0
	0	300	Dali 104B	±!	0
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	0	299	Dali Royal	¥	0
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250	GLL Imagio IC130
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279	Heybrook Heylo
249	Infinity SM105
275	Infinity SM115
239	Infinity SM125
249	Jamo Classic 6
250	Jamo Cornet 75
250	Jamo BX-100A
230	Jamo 98
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325	JPW \$\$553
425	JPW ML1010
350	JPW Ruby 1
350	JPW Ruby 2
400	KEF Q35
400	KEF Q55
500	KEF RDM One
500	Keswick Aria II
352	KLH 283A
400	KLH 383A
380	KLH Model 51
386	KLH Model 71
500	KLH Model 62T
369	Linn Sekrit
369	Mission 733i
380	Mission 751f
350	Mission 734i
450	M-A Monitor 3
470	M-A Monitor 4
399	Mordaunt-Short MS25i Pearl
	Mordount Chart MC40i
449	Mordaunt-Short MS40i
499	Mus Tec Harrier
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499 350 395	Mus Tec Harrier NAD 804 Neat Critique
499 350 395 370	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne
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499 350 395 370 400 500	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duetto
499 350 395 370 400 500 395	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duetto Origin Live OL-1AS
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499 350 395 370 400 500 395 499 345	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duetto Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7
499 350 395 370 400 500 395 499 345 445	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duelto Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7 Paradigm Monitor 9
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499 350 395 370 400 500 395 499 345 445	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duetto Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7 Paradigm Monitor 9 Pentachord A Pioneer S-LC2
499 350 395 370 400 500 395 499 345 445	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duelto Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7 Paradigm Monitor 9 Pentachord A Pioneer S-LC2 Polik AB705
499 350 395 370 400 500 395 499 345 445	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duetto Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7 Paradigm Monitor 9 Pentachord A Pioneer S-LC2 Polk AB705 Polk RT8
499 350 395 370 400 500 395 499 345 445	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duetto Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7 Paradigm Monitor 9 Pentachord A Pioneer S-LC2 Polk AB705 Polk RT8 Polk RT10
499 350 395 370 400 500 395 499 345 445	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duetto Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7 Paradigm Monitor 9 Pentachord A Pioneer S-LC2 Polk AB705 Polk RT8 Polk RT10 Polk AB805
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499 350 395 370 400 500 395 499 345 445	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duetto Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7 Paradigm Monitor 9 Pentachord A Pioneer S-LC2 Polk AB705 Polk RT8 Polk RT10 Polk AB805 Prof Monitor Co TB1S Prof Monitor Co TB1S
499 350 395 370 400 500 395 499 345 445	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duelto Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7 Paradigm Monitor 9 Pentachord A Pioneer S-LC2 Polk AB705 Polk RT8 Polk RT10 Polk AB805 Prof Monitor Co TB1S Prof Monitor Co TB1S Prof Monitor Co TB1
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499 350 395 370 400 500 395 499 345 445	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duetto Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7 Paradigm Monitor 9 Pentachord A Pioneer S-LC2 Polik AB705 Polik RT8 Polik AB805 Prof Monitor Co TB1S Prof Monitor Co TB1SM Prof Monitor Co TB1SM Prof Monitor Co TB1M Prof Monitor Co TB1 Rega ELA MkII Revolver The 260 R Allen Dimension Five 3
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499 350 395 370 400 500 395 499 345 445	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duetto Origin Live OL-1AS Origin Live OL-1AS Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7 Paradigm Monitor 9 Pentachord A Pioneer S-LC2 Polk AB705 Polk RT8 Polk RT10 Polk AB805 Prof Monitor Co TB1S Prof Monitor Co TB1S Prof Monitor Co TB1S Prof Monitor Co TB1 M Prof Monitor Co TB1 Prof Monitor Co TB1 Revolver The 260 R Allen Dimension Five 3 R Allen Dimension Five 4
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499 350 395 370 400 500 395 499 345 445	Mus Tec Harrier NAD 804 Neat Critique NHT SuperOne NHT Model 1.5 Opera Duetto Origin Live OL-1AS Origin Live Monarch Paradigm Monitor 7 Paradigm Monitor 7 Paradigm Monitor 9 Pentachord A Pioneer S-LC2 Polk AB705 Polk RT8 Polk RT10 Polk AB805 Prof Monitor Co TB1S Prof Monitor Co TB1S Prof Monitor Co TB1SM Prof Monitor Co TB1M Prof Monitor Co XB1 Prof Monitor Co XB1 Prof Monitor Co XB1 Rega ELA MkII Revolver The 260 R Allen Dimension Five 3 R Allen Dimension Five 3 R Allen Dimension Five 4 Rogers GS5 Rogers GS6 Rogers GS6 Rogers GS6 Rogers GS7 Roy Missel Selection Royd Minstel SE Royd Mosutel SE Royd Mosutel SE Royd Doublet Ruark Icon Sequence 400 Solid Verticale



Alan Sircom, Hi-Fi Choice, July/August 1996. Call ☎ (01480) 451777 for more information or your nearest stockist.



£501 to £	800	EXPURE	54	KLH Model 82Ta	+	0	690	Tannoy Definition D100
Acoustic Energy AE1-II		0	795	Linn Tukan Passive	0	0	550	Tannoy Precision P40
Acoustic Precision Eikos FR1	<u>=</u>	0	800	Linn Keilidh Passive	±1	0	750	TDL Cotswold CF200
Illison Model 3A	9	0	525	Manticore Minaret	0	0	690	TDL RTL 4
ludio Gem Emerald	<u>+</u> 1	0	540	Meridian A500	± I	0	750	TDL T-Line 3
Audio Note AN-K/D	9	0	620	M&K S-85	0	0	700	Totem Rokk
Audio Note AN-J/B		0	799	Mission 752f	±1	0	578	Triangle Comete TZe
8&0 Beolab 2500		0	750	Mission 735i	+1	0	650	Triangle Zephyr
&W CDM1	<u>=</u>	0	600	Mission 753f	◆ I	0	798	W'dale MFM7
&W P4	→	0	675	M-A Studio 2SE	0	0	600	
lose 501	9	0	700	M-A 700 PMC	<u> </u>	0	600	£801
lose SE-5 Ser II System	+1	0	760	M-A 702PMC		0	700	Acoustic Energy AE505
lose A'mass AM5 II	9	0	800	M-A 703PMC	± 1	0	800	Acoustic Energy AE509
loston VR30	Ŧ	0	600	Mordaunt-Short MS50i	◆ I	0	550	Acoustic Energy AE2-II
Castle Severn 2	±	0	580	Mordaunt-Short MS30i Classic	0	0	600	Acoustic Energy AE520
Castle Avon	+1	0	730	Mus Tec Falcon	±	0	575	Acoustic Solutions Eight
Celestion 45i	±	0	599	Naim Intro	#1	0	660	Alon I Mk II
Cerwin-Vega VS-12	*I	0	550	Neat Mystique	#1	0	575	Ambience Mod. 4.0
Cerwin-Vega VS-15	∓ 1	0	700	Neat Petite II	9	0	745	Apertura Prima
Chario Syntar 100T	±1	0	550	Opera Seconda	<u> </u>	0	595	Apertura Nova
Clements 600si	±1 <u>∓</u> 1	0	595	Opera Operetta II	0	0	770	ATC SCM10
Pali 107	+1	0	600	Opera Platea	±	0	795	Audio Note AN-J/D
ali 350	.	0	600	Origin Live Resolution	<u> </u>	0	732	Audio Note AN-K/SPx
ali 450	+ 1	0	700	Origin Live Victory	+1	0	750	Audio Note AN-E/B
ali 109	+ 1	0	800	Paradigm Studio/60	¥		650	Audio Note AN-J/SPx
Def Tech BP6B	∓ 1	0	750	Pentachord B		0	519	Audio Physic Step
Diapason Micra II	<u> </u>	0	695	Pentachord Pentode	+1	0	729	AVI Positron
lynaudio Audience 50	<u> </u>	0	577	Polk RT12	<u>+</u> I	0	600	B&O Beolab 4000
pos ES14		0	675	Polk RT16	#1	0	799	B&W P5
araday FS10	±1	0	795	Polk LS50	<u>±</u>	0	800	B&W CDM7
larbeth BBC LS3/5A		0	699	Proac Tablette 50	0	0	599	B&W DM604
larbeth HL-P3ES	0	0	799	Proac Studio 100	<u> </u>	0	699	B&W P6
leybrook Ultima	±	0	649	Promenade SP4	±		650	B&W Matrix 805 V
leybrook Quartet	2	0	649	Quad 10L	0	0	600	Bandor Trident
nfinity SM155	±1	0	550	Rogers GS9	±1	0	579	Bandor Mora
amo BX-200A	±1 ▼	0	530	Rogers LS3/5A		0	699	Bandor Bandora
amo Classic 10	±1	0	600	Rogers C6/25	±	0	799	Bose A'mass AM7
amo 507A	<u>±</u> 1	0	700	Roksan ROKone 1	2	0	595	Bose 701
amo 707i	+1	0	800	Roksan Oian 3	<u>→</u>	0	795	Boston VR40
BL LX7	和	0	550	Royd The Sorcerer	0	0	595	Castle Harlech
BL TLX181	#1	0	600	Royd Abbot	Ŧ	0	695	Castle Howard S2
BL SVA1500	2	0	700	Ruark Templar II	+1	0	599	Celestion A1
BL L20		0	700	Ruark Sceptre	9	0	599	Celestion A2
BL PS12	<u>*</u>	0	750	Ruark Talisman II	<u>±</u> 1	0	749	Cerwin-Vega AL-1000
M Lab Profil 55	7	0	625	Ruark Prologue One	±1	0	799	Cerwin-Vega 1515
M Lab Opal 59 ti	₹	0	750	SD Acoustics SD3R	0	0	649	Chario Academy 1
ordan Watts JH200	3	0	510	Shinpy Polarys	<u></u>	0	595	Clements Reference 1
ordan Watts JH400	2	0	565	Silverado Raider	0	0	695	Dali 850
PW Ruby 3	<u>+</u>	0	800	Sonus Faber Concertino	9	0	599	Def Tech BP8B
(EF LS3/5a	9	0	649	Spendor 2030	±	0	599	Def Tech BP10B
(EF RDM Two	9	0	699	Spendor LS3/5A	0	0	630	Diapason Prelude II
(EF Q65	±1	0	799	Spendor SP3/1P	-	0	795	Dynaudio Contour 1.1
Kelly KT2	±1 ▼1	0	700	T+ A TB 100	<u>+</u>	0	690	Dynaudio Contour 1.3
Keswick Volante	∔ I	0	729	Tannoy Precision P30	→	0	600	Electrocompaniet EC-Qube

103.0			
''96-'97 KEF] ®	
Tannoy Definition D100 Tannoy Precision P40 TDL Cotswold CF200 TDL RTL 4 TDL T-Line 3 Totem Rokk Triangle Comete TZe Triangle Zephyr W'dale MFM7	000 000 000 000 000 000 000 000 000 00	00000000	689 800 650 700 699 529 650
Acoustic Energy AE505 Acoustic Energy AE509 Acoustic Energy AE21I Acoustic Energy AE520 Acoustic Energy AE520 Acoustic Energy AE520 Acoustic Solutions Eight Allon I Mk II Ambience Mod. 4.0 Apertura Prima Apertura Prima Apertura Prima Apertura Nova ATC SCM10 Audio Note AN-I/D Audio Note AN-I/SPx Audio Note	커 커 ai 커 ai 리 커 A ai ai ai 커 커 ai ai 커 커 커 ai ai ai		856 1,000 1,200 1,200 1,500 1,399 930 1,060 1,299 1,100 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,341 1,341 1,261 1,34

Electrocompaniet EC-Qube SE	<u> </u>	0	1,495 1,185
Harbeth HL-K6	<u>+</u>	0	1,049
Harbeth HL-Compact 7	0	0	1,499
Harbeth BBC LS5/12A	9	0	1,499
Heybrook Sextet	± I	0	1,299
mpulse Kora	¥		1,250
lamo Concert 8 IBL L40	<u>+</u>	0	1,300
BL PS15	±	0	1,000
BL L80	Ŧ	0	1,250
BL L90	<u>+</u> I	0	1,500
M Lab Profil 77	¥	0	1,050
IM Lab P.S 5.1 IM Lab Spectral 909.1	я.	0	1,250
ordan Watts JH1+1	±1 ±1	0	1,375 995
PW Ruby 4	±	0	1,000
KEF Q75	¥	0	999
KEF Ref. Model One	¥	•	1,199
Kelly KT3	<u>±</u> 1	0	1,200
Keswick Torino Keswick Figaro Evolution	<u>+</u>	0	999 1,099
(eswick Milano	±	0	1,199
Keswick Legato	¥	0	1,199
Keswick Amber	±	0	1,499
inn Tukan Aktiv inn Keilidh Aktiv	2	0	1,050
Linn Keilidh Aktiv	¥	0	1,250 1,500
Voice Auditorium Lowther Accolade 2	和		1,199
Lumley L/M3.5	Ŧ	0	1,050
Magneplanar SMG-C SE	¥	ō	990
Magneplanar MG-0,6 SE	±		1,370
Meridian Argent 1	<u> </u>	□	995
M&K S-125	<u>-</u>	•	1,150
Mission 754f M-A Studio 12	和	0	1,298
M-A 705PMC	¥	0	1,400
Mordaunt-Short Perf 820	¥	0	1,495
Mus Tec Condor	± I	•	1,000
Mus Tec Hawk	¥	0	1,250
Mus Tec Eagle Naim Credo	¥	0	1,500
NHT VT-1.2	和	0	999
NHT Model 2.5	Ŧ	0	1,299
Opera Callas II	2	0	950
Opera Terza	±	•	999
Opera Callas Gold	9	0	1,050
Opera Divina II Origin Live Soveriegn	±	0	1,500 975
Paradigm Studio/100	¥1	0	950
Polk LS70	±	0	1,200
Polk RT20p	¥	0	1,500
Proac Tablette 50 SIG	<u> </u>	•	899
Proac Response 1 SC Proac Studio 150	9	0	1,199
Prof Monitor Co LB1	<u>+</u>	0	935
Prof Monitor Co AB1	0	ō	1,496
Rega XEL	<u>±</u> 1	0	1,040
RMS Revelation S 1	<u>±</u> 1	0	1,299
Rogers C6/28	±	0	1,399
Roksan Ojan 3X Royd The Albion	<u>+</u>	0	995 985
Ruark Broadsword II	9	0	899
Ruark Paladin	±1	0	1,099
Shahinian Super Elf	9	0	875
Shahinian Compass	Ŧ	0	1,395
Shinpy Micraphonica Silverado Ryder	<u> </u>	0	1,099
Sonus Faber Minuetto	<u>≠</u>	0	898
Sonus Faber Concerto		0	1,098
Spendor 2040	±	0	899
Spendor SP2/3E	2	0	1,050
Spendor SP1/2E	<u> </u>	0	1,390
T + A TAS 1200E T + A TB 120	和	0	990 990
Tannoy Definition D300	+1	0	999
TDL Cheviot CF300	★	0	850
Technics SB-M1000	¥	0	1,500
Totem Model One	<u>B</u>	•	1,195
Triangle Antal /andersteen 2Ce	★	0	1,099
vandersteen 20e Visonik LB1	<u>+</u>	0	935
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	000		and the
Acoustic Energy AE1 Sig	0	0	1,695
Acoustic Energy AE2 Sig Alon II Mk II	± ±	0	2,695 2,300
Ambience Mod 3.2	1	0	1,780
Anertura Agora Signature	-	-	2 295

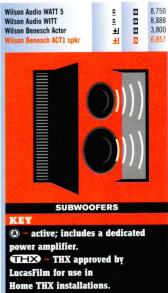
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£1501 to	£3000	H)	
Acoustic Energy AE1 Sig	<u> </u>	0	1,69
Acoustic Energy AE2 Sig	<u></u>	0	2,69
Alon II Mk II	¥	0	2,30
Ambience Mod 3.2	<u></u>	0	1,78
Apertura Agora Signature	<u> </u>	0	2,29
Apertura Tanagra	± I	0	2,39
Apertura Tanagra Sig.	±1	0	2,79
ATC SCM20	<u> </u>	0	1,59
ATC SCM20 Tower	#1	0	2,09
Audio Note AN-E/D	<u> </u>	0	1,52
Audio Note AN-E/SPx	<u> </u>	0	2,25
Audio Physic Spark 2	<u> </u>	0	1,74
Audio Physic Tempo	± 1	0	1.99
Avalon Monitor	<u> </u>	0	2,99
B&O Beolab 6000	± 1	0	1,55
B&O Beolab 8000	+1	0	2,10
B&O Beolab Penta 3	± I	0	2,65
B&W Matrix 804	业	0	1,69
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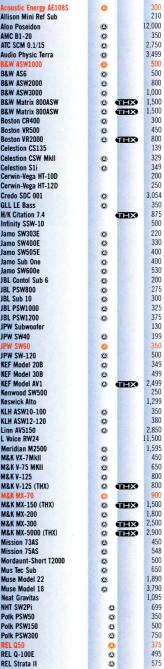
Base 901 V	B&W Matrix 803s2	Ŧ	0	2,495	Proac Response 2S	<u>=</u> .	0	2,00
Destion Lynfield 300L Destion Kingston Desti		±1	0	2,995	Proac Studio 250	± 1	0	2,70
			300 L -					2,09
Depart D			100				B000715	1,70
Delestion A3				1,999	Rogers LS5/9	<u>=</u>		1,54
	Cary SP-301	+1	0					1,59
Chord CEI. 201								1,84
Chord CEL 201								2,69
Chord CEL 202								2.99
Chord CEL 301								1.8
Clements Reference 7								2,69
Credo SPB 009					Shinpy Euritmica			1,99
Dali Grand Coupe □				1,820	Shinpy Altair			2,8
Def Tech BP2002 □ Def Tech BP2002 □ Diapason Adamantes II □ □ 1,895 Spendor SP7/1								1,99
Diapason Adamantes II								1,56
Dynaudio Contour 1.8								1.99
Dynaudio Crafft		1000	No.					2.09
Dynaudio Contour 3.0						Marie Control		1,68
CEA Servo A.2		-						1,99
ELS Res'ch Vision pos ES30 damma Epoch Ref Five di	ECA Servo A.2			2,450	Tannoy Stirling TW	±	0	2,20
Camma Epoch Ref Five	ELS Res'ch Vision	<u>+</u> 1						2,50
Harbeth HL-S8								2,75
Helius Syrius								2,79
Helius Syrius								1,75
Hi Q Sound SM108								2.95
Horning Aristophane								2,70
Amount A								
Bl. L100	Impulse Lali	+	D			The same of the sa		
MI Lab Spectral 913.1				100				7,99
Magneplanar MG-1,5 SE								3,49
Dordan Watts JH2K								3,49
KEF Ref. Model Two 4 0 1,599 Alon Circe 4 0 KEF Ref. Model Three 41 0 1,999 Alon Phalanx 41 0 Linn Kaber Passive 41 0 2,000 Ambience Mod 5.0 41 0 Linn Kaber Aktiv 41 0 2,640 Apertura Athena 41 0 Lowther Fidelio 41 0 1,999 Apertura Athante 41 0 Lowther Bel Canto 41 0 2,399 ATC SCM20A 0 0 Lumley L/M2 Mk3 41 0 2,995 ATC SCM50 41 0 Magneplanar MG-1,5 SE 41 1,1650 ATC SCM50A 41 0 Magneplanar MG-1,5 SE 41 1,180 ATC SCM100A 41 0 Magneplanar MG-1,5 SE 41 1,890 ATC SCM200A 41 0 Martin-Logan Aerius i 41 2,299 Audio Note AN-ISE Silver 0 0 0 Martin-Logan Aerius								8,50
KEF Ref. Model Three ±1 0 1,999 Alon Phalanx ±1 0 Linn Kaber Assive ±1 0 2,000 Ambience Mod 5.0 ±1 0 ±1 0 2,000 Ambience Mod 5.0 ±1 0 ±1 0 2,000 Apertura Athana ±1 0 2,000 Apertura Athana ±1 0 2,000 Apertura Athana ±1 0 2,000 Arc SCM20A ±1 0 2,000 Arc SCM20A ±1 0 2,000 Arc SCM50 ±1 0 2,000 Arc SCM50 ±1 0 2,000 Arc SCM50 ±1 0 2,000 Arc SCM100 ±1 0 2,000 Arc SCM100 ±1 0 4,000 4 0 4,000 4 0 4,000 4 0 4,000 4 0 4,000 4 0 4,000 4 0 4,000 4 0 4 0 4,000 4 0 4 0 4,000 4		30000						9,99
Linn Kaber Passive		363 - 3		No. of the last of				19,00
Lowther Fidelio	Linn Kaber Passive	40 mm	- C	2,000	Ambience Mod 5.0	± I	0	9,55
Lowther Academy		± 1	0					6,99
Description								8,99
Lumley L/M2 Mk3 ± □ 2,995 ATC SCM100 ± □ Magneplanar MG-10 SE ± □ 1,780 ATC SCM50A ± □ Magneplanar MG-1,5 SE ± □ 1,780 ATC SCM100A ± □ Magneplanar MG-2,7 SE ± □ 2,650 ATC SCM200A ± □ Martin-Logan Aerius i ± □ 2,299 Audio Note AN-JSE Silver □ □ Meridian M60 □ □ 2,2150 Audio Note AN-ESE Silver □ □ M-A Studio 20SE ± □ 2,200 Audio Physic Virgo 2 ± □ Mordaunt-Short Perf 880 ± □ 2,895 Audio Physic Caldera ± □ Naim SBL Passive ± □ 1,830 Audio Physic Galdera ± □ Naim SBL Passive ± □ 1,970 Avalon Avatar ± □ NHT YI-2 ± □ 1,600 Avalon Eclipse ±								3,04
Magneplanar MG-10 SE ± □ 1,650 ATC SCM500A ± □ Magneplanar MG-1,5 SE ± □ 2,650 ATC SCM100A ± □ Manticore Matisse ± □ 2,650 ATC SCM200A ± □ Martin-Logan Aerius i ± □ 2,299 Audio Note AN-ISE Silver □ □ Mr-1 Studio 20SE ± □ 2,200 Audio Note AN-ISE Silver □ □ Mordaunt-Short Perf 860 ± □ 1,895 Audio Physic Varati 2 ± □ Mordaunt-Short Perf 860 ± □ 2,795 Audio Physic Varati 2 ± □ Naim SBL Active ± □ 1,830 Audio Physic Caldera ± □ Naim SBL Passive ± □ 1,970 Avalon Avatar ± □ NHT Model 2-9 ± □ 2,999 Avalon Arcus ± □ NHT VT-2 ± □ □ 2,199 Avalon Radian			100					4.49
Magneplanar MG-1,5 SE ± □ 1,780 ATC SCM100A ± □ Magneplanar MG-1,7 SE ± □ 2,650 ATC SCM200A ± □ Martin-Logan Aerius i ± □ 1,890 ATC SCM300A ± □ Martin-Logan Aerius i ± □ 2,299 Audio Note AN-ISE Silver □ □ Meridian M60 □ □ 2,2150 Audio Note AN-ISE Silver □ □ M-A Studio 20SE ± □ 2,200 Audio Physic Vigo 2 ± □ Mordaunt-Short Perf 880 ± □ 2,795 Audio Physic Varuti 2 ± □ Maim SBL Active ± □ 1,830 Audio Physic Medea ± □ Naim SBL Passive ± □ 1,970 Avalon Avatar ± □ NHT VT-2 ± □ 1,600 Avalon Radian ± □ NHT VT-2 ± □ 2,199 Avalon Radian ± □								5.25
Magneplanar MG-2,7 SE ±1 □ 2,650 ATC SCM200A ±1 □ Manticore Matisse ±1 □ 1,890 ATC SCM300A ±1 □ Martin-Logan Aerius i ±1 □ 2,299 Audio Note AN-JSE Silver □ □ Meridian M60 □ □ 2,150 Audio Note AN-JSE Silver □ □ M-A Studio 20SE ±1 □ 2,200 Audio Physic Virgo 2 ±1 □ Mordaunt-Short Perf 880 ±1 □ 2,795 Audio Physic Caldera ±1 □ Naim SBL Active ±1 □ 1,830 Audio Physic Medea ±1 □ Naim SBL Passive ±1 □ 1,970 Avalon Avatar ±1 □ NHT VT-2 ±1 □ 1,600 Avalon Eclipse ±1 □ NHT VT-2 ±1 □ 2,199 Avalon Radian ±1 □ Opera Caruso II ±1 □ 2,350 Avalon Osiris ±1								5,99
Martin-Logan Aerius i → □ 2,299 Audio Note AN-JSE Silver □ □ Meridian M60 □ □ □ 2,150 Audio Note AN-JSE Silver □ □ M-A Studio 20SE → □ □ 2,200 Audio Physic Virgo 2 → □ Mordaunt-Short Perf 880 → □ 1,885 Audio Physic Caldera → □ Naim SBL Active → □ 1,830 Audio Physic Medea → □ Naim SBL Passive → □ □ 1,970 Avalon Avatar → □ Neolith NEO 1 □ □ □ 2,999 Avalon Arcus → □ NHT VT-2 → □ □ 1,600 Avalon Eclipse → □ NHT Wodel 2.9 → □ □ 2,199 Avalon Radian → □ Opera Caruso II → □ 2,650 B&W Matrix 801s3 → □				2,650			0	12,99
Meridian M60		±	0					14,99
M-A Studio 20SE								7,90
Mordaunt-Short Perf 860	Mary Control of the C	500 T	900					9,60
Mordaunt-Short Perf 880								3,39 6.69
Naim SBL Active								10.59
Naim SBL Passive								24,9
Neolith NEO 1								4,4
NHT Model 2.9				2,999	Avalon Arcus		0	6,00
Opera Caruso II	NHT VT-2	500000	0			Ŧ	0	6,4
Origin Live Conqueror 👤 🖸 1,650 B&W Matrix 801s3 👤 🖸								10,99
								72,00
Paragon Judilee 👢 🖸 1.990 B&W Silver Signature 🚇 🖸								3,9 5,5
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Pentachord P'column ★ □ 1,649 B&W Nautilus ★ □ Polk LS90 ★ □ 1,700 Bandor Bandoline ★ □								3,2
Posselt Albatross D 2,500 Bandor Bandora/Mora			200			80000000000000000000000000000000000000		3,2

Boston Lyntield 500L	
Bravura Virtuoso Gold Bravura Virtuoso Reference	
Bravura Accelerando	
Chario Academy 3 Junior	
Chario Academy 3	
Credo SPB 012	
Credo SDL 001	
Dali Grand	
Def Tech BP2000	
Dynaudio Contour 2.8	
Dynaudio Contour 3.3	
Dynaudio Confidence 3	
Dynaudio Confidence 5	
Dynaudio Consequence	
Electrofluidics Sonolith 2.2xi	
ELS Res'ch Vista	
ELS Res'ch Illusion MkII	
Fase Evoluzione Aria	
Genesis 400	
Genesis V	
Genesis 300	
Horning Agathon	
Impulse Ta'us	
Infinity Sigma	
Infinity Epsilon	
Jamo Oriel	
JBL \$2600	E
JBL S3100	
JM Lab Alcor JM Lab Utopia	
JM Lab Grande Utopia	
Jordan Watts JH5K	
Jordan Watts JH10K	
KEF Ref. Model Four	
Keswick Zero 2	
Linn Keltik Aktiv	
L Voice Air Scout	
L Voice Air Partner S	
Lowther Delphic	
Lowther Opus One	
Lumley L/M 2 Sig. Mk3	
Magneplanar MG-3.5SE	
Magneplanar MG-20 SE P	
Magneplanar MG-20 SE A	
Martin-Logan SL3	
Martin-Logan CLS IIz	
Martin-Logan Re-Quest	
Martin-Logan Monolith S	
Martin-Logan Monolith IIIP	
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Meridian DSP5000	
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Meridian DSP5500 Meridian DSP6000 M-A Studio 50 M-A Studio 60	
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Meridian DSP5500 Meridian DSP6000 M-A Studio 50 M-A Studio 50 M-A Studio 60 Naim DBL Active Neolith NEO 2 Neolith NEO 3 NHT Model 3.3 Paragon Regent Proac Response 3.5 Proac Response 5 Proac Response 4 Prof Monitor Co MBIP Prof Monitor Co BB5 A Quad ESL63 Rehdeko RK125 Rehdeko RK145	
Meridian DSP5500 Meridian DSP6500 M-A Studio 50 M-A Studio 50 M-A Studio 60 Naim DBL Active Neolith NEO 2 Neolith NEO 3 NHT Model 3.3 Paragon Regent Proac Response 3.5 Proac Response 5 Proac Response 4 Prof Monitor Co MB1P Prof Monitor Co MB1P Prof Monitor Co BB5 A Quad ESL63 Rehdeko RK125 Rehdeko RK125 Rehdeko RK145 Rehdeko RK145	
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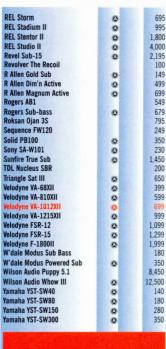
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Akai AT1200			170
AMC T7	P30		130
Arcam Alpha 7 Arcam Alpha 8	P24		230 280
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Ariston TX-510	P20		60
Audiolab 8000T	P39		800
Aura TU80 AVI S2000MT	P30 P16		350 599
AVI S2000MT2	P16	RDS	899
Carver TX-8R	P20	KDS	469
Creek T43	P68		399
Day Sequerra FM Ref Day Sequerra S B'dcast Mon			5,937 14,640
Denon TU-260L	P20		120
Denon TU-215RD	P40	RDS	150
Denon TU-425RD	P40	RDS	200
H/K TU930 H/K TU950	P30	RDS	150 200
Kenwood KT-2080	P20	RDS	130
Kenwood KT-3080	P30	RDS	180
Linn Kudos	P50		775
Linn Kremlin Magnum Dynalab FT11	P80		2,600 550
Magnum Dynalab FT-101A			825
Magnum Dynalab Etude			1,250
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Marantz ST-48	P30	RDS	119
Marantz ST-17 Meridian 504	P60	RDS	600 695
Michi RHT-10	P30 P16		895
Micromega Minium FM Mk2	P39		329
Micromega Tuner	P39		750
Mission Cyrus FM7 Musical Fidelity E50	P29		400 300
NAD 412	P20 P24		190
NAD 414RDS	P30	RDS	250
NAD 710	P24		270
NAD 712 Naim NAT03	P24		330 595
Naim NATO2			1,080
Naim NATO1			1,730
Onkyo T 4210RDS	P30	RDS	180
Onkyo T 409	P30		230
Onkyo T 411RDS Pioneer F-204RDS	P30 P30	RDS RDS	260 140
Pioneer F-504RDS	P40	RDS	250
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Quad 77FM	P25	RDS	700
Rega Radio Roksan Caspian	P24 P50		229 595
Rotel RT-935AX	P20		160
Rotel RT940AX	P20		200
Sansui AUX-310	P20		80
Sony ST-SE200 Sony ST-SE300	P30 P30	RDS	100 120
Sony ST-SE500	P30	RDS	140
Sony ST-SE700	P30	RDS	180
Sony ST-SA3ES	P30	RDS	250
T+A T1200R	DOO	RDS	745 120
TEAC T-R400 TEAC T-H500	P20 P30	RDS	170
TEAC TB-X10	P30 P20	RDS	400
Technics ST-GT350L	P30		130
Technics ST-GT550L	P39	RDS	180
Technics ST-GT650L Thorens TRT-2000	P39 P59	RDS RDS	230 499
Yamaha TX-480L	P40	RDS	100
		1000	





🗬 🖵 cartridge included.			
Up to £50	0	100	
Audio Note AN-TT 1			349
Dual CS435-1	0		150
Dual CS455	0		190
Dual 505-4 UK	⊙!		250
Eclipse TT430	0		70
Genexxa Lab-710	0		60
Genexxa Lab-810	0	•	70
Kenwood KD-492F	01		100 455
Michell Mycro	0.		199
Moth Alamo Moth Kanoot Mkl Arm	01		199 279
Moth Kanoot Mk3 Arm	01		329
NAD 533	0		220
N'ham Interspace	01		500
Pioneer PL-J2500-C	0		80
Pioneer PL-990	0	Ţ	130
Pro-Ject 0.5/0M10	0	-	160
Pro-Ject 1/510	01	-	200
Pro-Ject 2/520	⊙†	-	300
Pro-Ject 6/MC15	01		450
Rega Planar 78	0		214
Rega Planar 2	⊙†		214
Rega Planar 3	0		274
Roksan Radius			470
Sherwood PM8550	01		130
Sony PS-LX150H	01	-	90
Sony PS-LX300H	O !	-	150
Systemdek I/920			136
Systemdek IIX/900	01		230
Systemdek I/920/Moth	O 1		235
Systemdek IIXE/900Ap			388
Systemdek 960			500
Systemdek 2X2			500
Technics SL-J110D	0		120
Technics SL-BD20	⊙!		160
Technics SL-BD22	0	-	180
Technics SL-1210MkII	0		400
Technics SL-1200MkII	01		400
Thorens TD-180 AT91	0		190
Thorens TD-280 IV/UK	0		210
Thorens TD-166 VI/UK/RB	⊙ !		400
Thorens TD-318 III TP50	01		500
Over CEO		-	

O) Stollidon 000			000
Systemdek 2X2	100		500
Technics SL-J110D	⊙!		120
Technics SL-BD20	O!		160
Technics SL-BD22	01	-	180
Technics SL-1210MkII	0		400
Technics SL-1200MkII	01		400
Thorens TD-180 AT91	0		190
Thorens TD-280 IV/UK	01		210
Thorens TD-166 VI/UK/RB	⊙¹		400
Thorens TD-318 III TP50	01		500
morens 15 clo in ii co	O		500
Over £	500	376.89	100
Audio Note AN-TT 2			995
Audio Note AN-TT 3			1,995
Audiomeca Romance	01		1,895
Audiomeca J1			3,500
Basis 2001			2,750
Basis Ovation II			4,800
Basis Debut Gold Std III			7,200
Basis Debut Gold Vacuum			9.250
Chantry QT Level 2	01		705
Clearaudio Evolution	01		1,790
Clearaudio Reference	O		3.990
DNM-Reson Rota 1	O 1		3,900
DNM-Reson Rota 2	Of		5,600
Impulse Moskito	01		695
Kuzma Stabi			1,950
Kuzma Stabi Reference			3.750
	W-1		_,

N'ham Graphic 1,500 N'ham HyperSpacedeck N'ham Mento 2 600 N'ham Anna Log 5.500 1,100 Oracle Delphi Oracle Delphi 15th Anniv 3.370 3,800 Pink Triangle Tarantella 680 01000 Rega Planar 9 on RS1M -3,900 Rockport Capella II 7 000 01 50,000 Rockport Sirius III Roksan Xerxes 10 Roksan TMS 2,750 SME Model 20/2 01 SME Model 30/2 SME Model 30/2A Stratosphere ST1 0 12,135 6.500 Technics SL-1200LTD 01 Thorens TD-146 VI TP50 0 550 1.050 Thorens TD-520 SME mpered Record Player <u>⊙</u>† **Well Tempered Classic** 2,980 **Well Tempered Super** ⊙i ⊙i 3.900 Wilson Benesch Circle 795 Wilson Benesch Full Circle 0 1,995

Remember that all entries printed in **RED** refer to hi-fi products that we have reviewed. Turn to page 114 for a full summary of test results!

Do you want to choose your hifi in a comfortable and relaxing environment . .?

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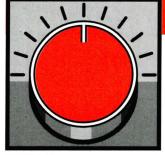
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Amplifiers Brought to you in association with

he amplifier sits at the heart of the system, processing the outputs from the various music sources as necessary and then driving the loudspeakers. These two (quite separate) functions are Please note: monoblok power amps are those in which the left and right integrated into a single box at the low-to-middle price points, but are separated in preamps and power amplifiers. Even separate power supplies become increasingly common as one moves upmarket.

Bear in mind that output power and sound quality are not necessarily related. Some of the finest amplifiers available have outputs as low as

12 Watts, but team them with high-efficiency loudspeakers and you can achieve loudness aplenty.

channels are handled by physically separate units.



KEY

LINE INPUTS: Number of input sockets for non-vinyl sources such as CD players, tuners and cassette decks.

MM PHONO INPUT: If an amp has an input for moving magnet

(normal output) phono pickup cartridges.

MC PHONO INPUT: If an amp has an input for moving coil (low output) phono pickup cartridges.

REMOTE CONTROL: If an amp is couch-potato ready. **HEADPHONE SOCKET:** If an amp is can friendly.

POWER OUTPUT (W): Lab-tested power output in Watts per

RECEIVER: If an amp has a built-in radio tuner. FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback information page elsewhere in this section.

ISSUE NUMBER: The issue of Hi-Fi Choice in which the origina

		AMPLIFIERS	MC PHO ONO INI		YEADPH TE CON PUT	-		,	.,,
Product	Price(£	Comments	V	V	V	V	ER OUTPLE DEKET	FACTSBACI RECEI WT(W)	ISSUE N NUMBER
Alchemist Maxim	319	Vivid and colourful-sounding amp that's just too bold and brassy	5	•				30	1737
Alchemist Kraken APD6A	579	Compact, with Darth Vader styling, yet sound quality is surprisingly meek and mild, despite strong midband dynamics	5	•				55	
Alchemist Nemesis	700	Good if ultimately undistinguished amplifier whose strengths include warmth, authority and distinctive aesthetics	6					80	
AMC 3025a	140	Surprisingly potent and easy on the ear, if not especially analytica — classic bargain basement material in fact	4	•	•	•	•	30	
AMC 3050a	170	Tremendous value for money, and a full, big, if rather uninformative sound	4	•	•	•	•	45	
AMC CVT3030a	400	Beer-budget valve amp, with quintessentially valve-like virtues (euphony with dynamics) and vices (system dependency, noise)	6	•			•	30	
Arcam Alpha 7	260	Decent, if slightly system-fussy amplifier that generally pulls all the right strings	5	•			•	40	
Arcam Alpha 8	360	Enjoyably soft-centred amp, won't frighten the animals. Upgradeable via preamp output, and optional remote control	5	•			•	50	1853
Arcam Alpha 9	500	Not quite a match for the Alpha 9/9P combo, the solo integrated is nevertheless colourful and explicitly detailed	7			•	•	70	
Audio Analogue Puccini	450	Superbly finished, the entry-level Audio Analogue performs way out of its class	5	•	•			40	
Audiogram MB1	493	The only flaws are the amateurish build, a number of technical problems and inconsistent sound quality. Other than that	4	•		•	•	40	
Audio Note Oto SE	1,200	Transparent, dynamic, clear and subtle, but offers limited power output	4					24	
Audiolab 8000LX	470	Well built, minimalist entry level model ultimately lacks bottle and pizzazz	6			80	•	60	
Audiolab 8000A	500	The 8000A remains a highly disciplined and mature-sounding amp	5	•	•		•	60	158
Audiolab 8000S	700	Informative in every sense, only a slight lack of bite detracts. Perhaps Audiolab's best yet!	6			•	•	60	1740
AVI S2000MI	999	Fine, detailed amplifier with excellent timing and strong control of a wide range of loudspeaker loads	5			•		100	
Bryston B60R	1,249	Build quality can't be faulted, but the lazy bass and opaque treble bracket an articulate midband. Comes with 20 year guarantee	5			•	•	60	
Cambridge Audio A3i	200	"Maximum information" design, with plenty of usable and reasonably refined power. A snip!	4	•				60	
Copland CSA8	945	Sophisticated yet transparent, this is one of those amplifiers that sounds good even when the gloss has worn off	5					60	
Copland CSA14	1,199	Great sound and looks, but watch out for high capacitance speaker cables	4	•				60	141
Credo IMP702	850	Old-fashioned looking, but bags of clarity and precision, though it can sound brash in the wrong system	5					70	
Cymbol CA1	499	Lacklustre amplifier tends to underperform with complex material. Best with straightforward compact loudspeakers	6					40	
Creek 4330	279	Compact, even pretty, but sounds dark and uninviting, with coarse treble and woompy bass	5					40	
Denon PMA-250SE	160	This amp can sound rough when extended, but within its limits it is open, detailed and likeable	5				•	30	
Denon PMA-350SE	200	Reinvented in the minimalist tradition, this SE model is a control freak, but can sound wonderful	5				•	50	1856
Denon PMA-425R	230	Well-equipped and generally enjoyable but slightly ragged performer	3	•		•	•	45	
Denon PMA-725R:	350	Warm, bold, up-front presentation, but musically unexciting	5	•	•	•	•	97	1802
Densen Beat B-100 Mkil	650	High 'air guitar' factor, and can punch above its weight, but check to ensure it will complement the rest of your system	5					60	
DPA Renaissance	595	DPA's first integrated amp is typically innovative, but a little too 'crisp 'n dry' for our tastes	5	•			•	40	1582
EMF Audio Sequel	450	Relaxed and restrained design from Mike Creek	5	•			•	50	
Exposure XX Super	700	Rather transistorised, unexciting sound. Good coherence and rhythm. Best played loud	6					55	1743
Electrocompaniet EC1-2	995	A 50 watt amplifier which sounds more powerful, and makes real sounding music in real sounding acoustic spaces	4					50	
Gamma Acoustics Gemini	699	Genuine single-ended triode design, but low power, mundane sound and poor build	3					12	1416
Goodmans Delta 900A	130	Coloured and raw sound offsets high power yield and remarkable pricing, but noisy fan cooling is a joy-killer	5	•		•	•	100	
Harman/Kardon HK610	180	Lively and friendly sound, but could prove too exciting for the faint hearted	6	•			•	30	1465
Harman/Kardon HK620	250	Capable and musical amplifier which is among the nicest available at the price. Optional add-in MM/MC board available	6			•	•	40	1858
JoLida 202	695	Well-built and technically accomplished, affordable valve integrated with subtle and refined, if not quite gripping sonic performance	4					40	
JVC AX-V4	200	Respectable performance for a Pro-Logic AV amplifier. Lacks resolution and sparkle, though	5	•		•	•	63	1805
IVC AX-R5	200	Versatile, and lots of even-handed, articulate detail; but let down by superficiality	5	•		•	•	45	1460
Kenwood KA-3020SE	200	Not a brilliant phono stage, but this is a lively, exuberant-sounding amp via CD	5	•			•	50	1130
Kenwood KA-5090R	300	Large, well equipped and high tech integrated, but TRAITR output still gives a harsh, unsubtle performance	5	•	•	•	•	65	
LFD Integrated Zero	549	Lively and brisk, but at the same time cold and unsympathetic	6					50	1584
Linn Majik (phono)	800	The cornerstone of Linn's modular hi-fi system is innovative, but sounds vague and confused	5	•	•		•	33	1013
Magnum IA120	265	Mirror finish amplifier with a bold, colourful delivery, but needs careful system matching to avoid loss of focus and clarity	6				•	65	
Magnum IA170	330	Gives a realistic sense of instruments playing within a very believable acoustic, preserves colour and dynamics well	6				•	96	1260
Magnum IA-200	599	Sweet, valve-flavoured solid state amplifier flatters where it doesn't cast light	7					160	1860
Magnum Class A	690	Lashings of rich and compelling music, but the Class A circuits trade lushness for accuracy	4	•	•			60	
Magnum Class A SE	795	A MOSFET amplifier drawing inspiration from the world of valves, this is an erratically refined, detailed amplifier	5	•				80	
Marantz PM-57	200	Well equipped but ultimately anodyne amplifier which lacks for nothing but star quality	5	•		•	•	50	
Marantz PM-66SE	230	A bit lush, and power output is limited, but it communicates well and gives airy, large-scale music. An excellent budget buy	5	•		•	•	50	
Marantz PM66 KI-Signatur	e 400	An amplifier that knows how to rock and roll with holographic detail and stereo, but prefers small/medium scale acoustic material	5	•		•	•	50	
Mission Cyrus IIIi	598	Beautifully presented, but mid-dominated balance and other anomalies were not liked. Upgradeable using PSX PSU unit	6	•		•		50	1854
Mission Cyrus SL	398	Sharp, articulate amplifier, and superb, outgoing midband with lean though well-extended bass — and build quality to die for	6					50	
Monrio ASTY	400	Engaging, but ill-disciplined, even OTT amplifier that responds less than predictably to system changes	5					55	
Musical Fidelity E11	299	Well built minimalist amp with a 5 year guarantee, but can sound congested when extended, and some colorations are evident		1				60	

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INTEGRA	ΓED	AMPLIFIERS MM FM	SINA	ינו מייני זמי	HEADPH DIE CON NPUT	TRO	WER OUT SOCKET	PUTW	PACK NUMBER SEIVER	MBEP
Product	Price(£	Comments	V	•/	4	- ₁	,, 	,,		11)
Musical Fidelity A2	500	Lucid, transparent midband and a full upper bass are provided by this highly proficient A1 replacement	5					25	1862	162
Musical Fidelity A220	700	Powerful, authoritative and well turned-out amplifier that is easy to match with comparably priced speakers and source components.	100000000000000000000000000000000000000					50	100 March	168
Musical Fidelity E1	199	Vivid, richly flavoured tonality and realistically scaled imagery distinguish this new entry-level Richer Sounds special	6			-		30	-	171
Myryad MI120	600	Well styled, well built and, well, a good, even tempered amplifier, though it can sound a bit brittle, and lacking in euphony	6					60000	1000	175
NAD 310 NAD 312	100	Fleet and sure of foot, it seems likely to set all appendages tapping with its blend of enthusiasm and artfulness	6			1		20	The same of the sa	171
NAD 314	200	Another great budget price NAD, and a worthy all-round successor to the 302 Lively if coloured presentation that is musically engaging and easy on the ear	6	100.00	1000	- 6		200	Marie Marie	157
Naim Nait 3	575	Distinctive and highly musical sounding integrated amp. Perhaps too distinctive for some tastes	5					30	B000 (80000)	154
Orelle SA-100	499	A musically rewarding amplifier that grows on you. Trace of coarseness in treble	5					50	-	154
relle SA-100RX	649	Fine, high resolution amplifier, but avoid very low impedance speakers, and check CD compatibility by ear	7					75		178
ioneer A-204R	160	The A-204R makes no special claims beyond being well equipped and cheap, but it displayed unexpected talent on test	5					25		171
ioneer A-300R	200	Its bright and breezy sound is a natural tonic to those of us worn down by the ongoing stress of life	5					50	1469	149
ioneer A-405R	250	Fully featured, open and dynamic sounding, more than makes up in enthusiasm what it occasionally lacks in refinement	5	•				Marin I	A STATE OF THE PARTY OF THE PAR	178
ioneer A-400X	300	On second audition, this amp was tonally unchanged but less compelling	6			900		-	B00000	138
Pioneer A-300R Precision	400	Sophisticated, breathed-on variant of the A-300R. Not an obvious winner, but will slowly win you over with its subtle charms	5			100		-	-	162
ioneer A-605R	400	Intriguing technology, but execution is certainly impeded by excessive gadget count	5	•	-	- 100		1000	-	168
ioneer A-07	999	Curious mix of high end attributes and inconsistent, though undeniably detailed sound	5	•	-			80 40	-	175
ro-ject Model 7	700	A minimalist amplifier brimming with good intent, but too quirky for its own good. Either MM or MC	3					84		168
uad 77 Integrated ega Elex	398	Compact and sophisticated Quad system amp, limited range of inputs when used with 'foreign' components (optional system remote) Minimalist amplifier, derived from Elicit, is a little uninspiring, though at least it is well behaved	4	•				50	-	162
oksan Caspian	695	Well-built, open and articulate amplifier, which is also consistent from system to system, and well built	6					70		168
ose Scion	615	Unique two-box integrated gives real subtlety and low level resolution, but the sound lacks scale and weight	5	•		- 5700		65	Contract Contract	168
otel RA-931	150	Rather dry and unforgiving sound from this internally well specified and attractively priced amplifier	4	•				35		171
ony TA-F448BE	250	Classic minimalist interface is matched to carefully considered circuit to broadly satisfactory effect - but keep the volume in check	5	•				55		171
ony TA-F3000ES	500	Champagne shoebox amp may lack power reserves, but is quick, polished and articulate. In every sense a knockout	5		•			35		178
alk Electronics Storm 1	500	Good soundstaging and strong detail are provided by this unassuming and not especially powerful model	6					50	1868	162
alk Electronics Storm 2	650	Crisp, clean, well defined sound, arguably lacking warmth, but a good midrange purchase overall	6			1000		50	COLUMN TO SERVICE STATE OF THE PARTY OF THE	175
EAC A-BX7R	700	Characterful balance mars an otherwise meticulously designed amplifier. Includes a balanced input, optional MM/MC stage	5					50	-	162
echnics SU-A700 Mk 3	250	Fully equipped, high-tech amplifier ultimately fails the authenticity test, and can sound messy and inarticulate	5	•	100		•	-	The second second	162
Technics SU-A800D Mk 2	300	Two-box amplifier looks great, has plenty of gadgets, and makes good, if slightly over-exuberant music	5		-	-		-	The second second	178
echnics SU-A900D Mk 2 loodside ISA230 Disc	400 1,249	Looks like a pre/power amplifier, but in effect it's an integrated, with a rather soft-centred sound to match Smooth and inoffensive valve amplifier, though it lacks the sparkle and euphony required for a truly entertaining sound	3	•	5500			70 30	-	175 116
amaha AX-492	220	Powerful, well equipped amplifier at an attractive price, offers powerful and engaging music-making	5		100			10000		178
amaha AX-592	280	Fine, middle ranking amplifier, with a detailed, dynamic midband but some performance falloff at the frequency extremes	5	Revision	- 5500	1000	-	1000000		171
reamplifiers										
udiolab 8000C	580	Distinctive, stark neutrality that will not appeal to all. Good value engineering	5				•			97
udiolab 8000Q	1,250	Tested with 8000M monoblock power amps	6				•		1301	145
opland CTA-301Mkll	1,399	Sweet sounding – but never gets bogged down in audio treacle	4	•					1630	151
AR 802MC	2,599	Tested with 509 Mk 2 power amp — see over leaf	4	•	•					63
CA Vista	760	Wind up the volume and blow a breath of fresh music into your system (tested with Lectern power amp — see over leaf)	5						1302	145
cposure XVII	850	Superbly rhythmical; maybe a bit overpowering in the midband. Tested in Sessions with XVIII Super	5	•	•					142
dis JP-30MC	5,978	French tubes, JP-30MC has beautiful build, nostalgic styling and delightful midrange. (Tested with JA 30 power amp)	5	•						60
FD Mistral Linestage	449	Strong ergonomics, generally decent sound, but a little lacking in detail	6						1202	165
eridian 501 eridian 562V	695	Tight, positive sound, but dispassionate; intense at high levels. Tested with 555 power amp	5				•	-	1303	2,600,000
eridian 502	995 1,295	Transparent and capable preamp, also features six digital inputs Extremely sophisticated analogue controller with tremendous flexibility and a fast and tidy presentation (Statements)	7							140 162
oth 30 Passive	1,233	Modular system gives cracking results. Passive preamp and power amp warrant Best Buy (tested with 30/Stereo 60)	4							109
oth 30 Active Line Stage	349	Excellent-sounding ultra-simple miniature preamp	4							165
use Model Three	1,990	Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power amp (tested in Statements)	5							166
usical Fidelity X-PRE	200	Cleverly configured preamp with many upgrade options, and open, lively and engaging sound. (Teasted with X-A50 monobloks)								175
ND 114	270	Beer-budget preamp, sounds focused, detailed and consistent	6	•	•		•			165
nim NAC92R	630	Upgradeable preamp uses proprietary socketry. (Tested with NAP90 power amp)	5			•				165
uad 77 Pre	850	Sophisticated design with 2-way remote control console; open colourful sound and very flexible	4	•	•	•				165
ga Hal	998	Dedicated to Exon power amps — passive line stages	6	•	•	•				165
ose RV-23	450	You can pay more to get a more transparent sound, but it's hard to criticise at the price	3	•						77
otel RC-971	150	Low price is offset by rather coarse sound quality with certain types of music. (Tested with RB-971)	5				•		1005	178
imo Athena IIB Ik Hurricane 2L	767 649	Big, natural and tidy-sounding with very natural reproduction of acoustic and electric instruments. (Tested with Polaris III) Design of integrity which gets to the heart, if not the soul, of the music	6						1305	165
orens TTP2000F	699	Glamorous, shoebox-format, minimalist pre with fine detail and some granularity	3		•					165
oodside SC26 Phono	2,233	Synergistic with STA35, with a cool, controlled sound, good focus and transparency. (Tested with STA35 power amp)	5	•						100
ower amplifiers	_,	, , ,	MACON			100				No.
chemist Kraken/Pwr	529	Hardly accurate, but entertaining nevertheless	1					60		124
cam Alpha 9P	400	Clear, colourful and well-disciplined, the Arcam is a strong all-rounder that can compete with conviction	1					60		165
t Audio Quintet	1,393	Switchable triode, ultralinear output stage. In triode mode, these are 15 of the sweetest Watts around. Surprisingly gutsy	1					15		109
diolab 8000M	1,600	Strong, controlled sound; confident bass, but colourless	1					125	1301	145
pland CTA-505	2,099	Grown-up amplifier with a refined, yet never over-civilised air	1					67	1630	1000
R 509 Mk II	3,699	Combining sonic strengths of transistors and valves, this amp warrants attention. (Tested with 802 pre)	1					100		63
CA Lectern	880	Tested with Vista. Wind up the volume and blow a breath of fresh music into your system	1					50	1302	200
D Mistral Power	449	Infectious upper band vitality, but LF dynamics lacking, and lacks 'grip' and transparency	1					60		165
eridian 555	750	By providing an open window on the music, this amp is wide open to RF and low level IM distortions	1					60	1303	100
chell Alecto	1,150	Open, well focused imagery with natural, refined textures	1		1	2000	200	50		165

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POWER A	Moth 30 Series Monobloks 879 Tested with Active Preamp. While demonstrating solid, even balance it proved adept at delivering vital musical qualities 1 Musical Fidelity FX2 800 Quality build and imposing presentation is married to strong power yield, tonal colour and finesse 1 Musical Fidelity X-A50 500 Cleverly configured and attractively packaged, open, lively and engaging sound. Reviewed with X-PRE 1 Myryad MA120 450 Based in MI120 integrated – see latter for comments, but sounds significantly better when bi-amped with MI120 1 NAD 214 370 A little lightweight, but detailed, consistent sound quality, and excellent value for money 1 Naim NAP90 450 Power amp from a Nait integrated with some improvements 1 Quad 77 Power 600 Open, bold and colourful, with mild compression 1 Rega Exon 1,196 Monoblock, priced each, dedicated for Hal preamp. Bold, outgoing, in-command kind of sound 1 Rotel RB-971 200 Somewhat better than the accompanying preamp - clean, mean and bridgeable. (Tested with RC-971) 1 Rotel RB-980BX 450 Tames enthusiastically recorded material with a laid-back and occasionally smeared sound 1 Sumo Polaris III 950 Tested with Athena IIB. Big, natural and tidy-sounding with very natural reproduction of acoustic and electric instruments 1		MM PHONO INPUTE CO	POWER OUTPUT RECEIVE WORE SOCKET OUTPUT (W)	ISSUE NUMBE
			-13, O7 O7		H CH C
Moth 30 Series Monobloks	879	Tested with Active Preamp. While demonstrating solid, even balance it proved adept at delivering vital musical qualities	1	100	155
Musical Fidelity FX2	800	Quality build and imposing presentation is married to strong power yield, tonal colour and finesse	I	100	165
Musical Fidelity X-A50	500	Cleverly configured and attractively packaged, open, lively and engaging sound. Reviewed with X-PRE	1	50	175
Myryad MA120	450	Based in MI120 integrated — see latter for comments, but sounds significantly better when bi-amped with MI120	1	60	165
NAD 214	370	A little lightweight, but detailed, consistent sound quality, and excellent value for money	1	80	165
Naim NAP90	450	Power amp from a Nait integrated with some improvements	1	30	165
Quad 77 Power	600	Open, bold and colourful, with mild compression	1	85	165
Rega Exon	1,196	Monoblock, priced each, dedicated for Hal preamp. Bold, outgoing, in-command kind of sound	1	125	165
Rotel RB-971	200	Somewhat better than the accompanying preamp - clean, mean and bridgeable. (Tested with RC-971)	1	70	178
Rotel RB-980BX	450	Tames enthusiastically recorded material with a laid-back and occasionally smeared sound	1	120	155
Sumo Polaris III	950	Tested with Athena IIB. Big, natural and tidy-sounding with very natural reproduction of acoustic and electric instrumen	ts 1	164	1305 145
Talk Tornado 2	600	Good, but slightly retiring sound which lacks the authority to stand out in a crowd	1	65	165
Thorens TTA2000	599	Low power shoe-box format, but gutsy and surprisingly subtle and articulate	1	30	165

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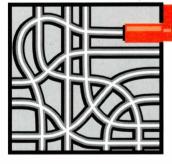


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Cables

SOLID CORE: Single or multiple, individually insulated strands.

ables — both to connect line-level devices to an amplifier, and to correct the latter to a speaker.— are not just accessories, but an integral part of a system. Though their prices may vary, the most expensive wires are not automatically the best. The best cable for your system will only be found through trial and error, but by combining our recommendations with those of a dealer, you will end up with something suitable. Generally speaking, budget to spend about 10 per cent of the total system cost on cables.

■ Analogue interconnects are the leads that connect between source components and amplifiers, and between pre and power amps. The cables in this section are priced for a one-metre terminated pair.

- Digital interconnects connect CD transports to DACs, and are traditionally coaxial with a 75 Ohm impedance. They come in optical and electrical varieties, the former being made of plastic or glass. The prices shown are for a terminated linear metre.
- Speaker cables are used between the amplifier and speaker. Our prices are per unterminated metre. Termination (plugs and soldering) costs vary with brands



SYMMETRICAL: A twisted pair of conductors. COAXIAL: A central 'hot' conductor and a shield that carries the

SILVER: Material used for conductor. DIG CABLE TYPE: 0 - optical digital, E - electrical digital. STRANDED: Multiple strands with no intervening insulation

COPPER: Material used for conductor.

FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback information page, elsewhere in this section.

ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

	CABLES			SYMME	TRICAL CO.	STRAI	SOLID	CORE	DIE SI	ACTSBAL CABLE LIVER	CK NUMBER TYPE	VMBER
	Product	Price(£)	Comments		V			V	V		\vee	
	Analogue Interconnect	s			26				45000			
9	Audio Note AN-A	18	Not especially impressive: warm but well-rounded balance that restricts 'air' but is quite clear		•		•		•			108
	Audio Note AN-C	35	Neutral but lacking in subtle texture and unable to distinguish fine detail					•	•		1687	131
1	Audio Note AN-S	99	Up-beat and enthusiastic sound with satisfyingly deep and grumbly bass					•	-	•	1687	131

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CABLES (CO	NTINUED)	AICA, COA	STRAK	SOLIDED	ORECO	DIG PPEP SI	CTSBAC CABLE VER	CK NUMBER	VUA
9.0		Comments	-A(·**(V	V	V	V	V	
Audio Note AN-V	179	15 individually insulated silver strands make up this very clean and dynamically unchallenged cable	•		•			•	1687	,
Audioquest Turquoise	40	A 'fit and forget' cable that sounds distinctly lazy	•		•		•			
Audioquest Topaz 2	60	Sounds flattened out, with poor imaging and grainy treble				•	•			
CableTalk Advanced 2	35	Slight roughness in loud music barely detracts from a well-balanced performance with good imaging			•		•			
Cable Talk Studio 2	65	A first-class performer from tonal, dynamic and rhythmic standpoints			•		•			
Cambridge Pacific	30	Lacks subtlety and bass impact but is otherwise quite serviceable for the price		•	•		•			
Cambridge Audio Studio Ref	40	Dynamic cable with strong soundstaging and only a slight lack of detail		•	•		•			
Chord Company Cobra 2	50	Good, strong sound with full-bodied music, less happy with smaller forces			•		•			
Connections Midas HD	39	Canary yellow cable with excellent plugs and an open sound. Slight treble glare			•		•			Ī
DNM TCC75	34	Price for 0.75m length. High resolution cable, but best in short runs due to higher than average series impedance					•		1690)
DPA Slink	41	Slightly bright and zingy sound with flat soundstaging and hollow sounding bass, vocals and strings sound convincing though				•	•		1690	
DPA White Slink	75	Bass recedes as the music gets complex; midrange and treble better with quite good detail and imaging					•		1030	
DPA Black Slink	245	Initially dark and meaty but becoming lucid and transparent with running in. Quad geometry, Gore-tex dielectric	•				•		1691	
Goertz M1 Interconnect	145	Soft sound lacking in bite, with excessive and plummy bass (NB sample used in review was only 0.5m)							1031	ŀ
Insert Audio IC100 MkII	47						•			
100000000000000000000000000000000000000		Mostly good sound is let down by pervasive dryness	-		•				1000	2
Ixos 104	20	Open and detailed presentation, full bass and silky if overly smooth treble		-			100		1692	
lxos Gamma 1002 lxos 103	39 45	Lumpy bass, grainy treble, and poor integration. Nice colour, though	•		•		•		1000	2
NAME OF TAXABLE PARTY O		Even-handed and generous sound, bass has a well-rounded, bouncy quality		-			•		1692	-
Ixos 102	60	A bit bright and undynamic, this cable is nevertheless a good all-rounder, whose faults are largely subtractive		-	•		•		1000	
xos 101	100	A cable with personality: its veiled and shut in quality bring an earthiness to vocals and rhythm guitar alike	- 80	•	•		100 P	•	1693	
Kimber Hero	110	Slight roughness detracts from some music; seems well suited to rock and jazz. Lively and detailed	•		•		•			
Moth Ley Line Black	100	Offers a full and big sound, neutral yet very solid and confident in delivery. Expansive imaging retains music's energy	•		•		•	•		_
Moth Ley Line Grey	200	Detailed enough but there's a sense of distance between the music and the listener: vocals are coarse rather than liquid	•		•		•	•		
Nordost Black Knight	60	Flat black cable that is distinctive but slightly coloured — but not in a wholly negative manner	•		•		•			
Nordost Blue Heaven	145	Very good bass and only slightly grainy treble add up to a well integrated, natural-sounding cable	•			•	•			
Prowire Silver	60	A good cable in every way, with just the occasional hint of coloration and coarseness			•			•		
PAD Elementa	145	A fat, heavy and frankly rather lazy-sounding cable; best with music for small forces	. •		•		•			
QED Qnect 2	30	Very well balanced, refined and detailed, this is eve thing a good cable should be, and excellent value					•			
Silvertone Ex-Static	35	Pleasantly unfatiguing and competitively priced cable that lacks detail and insight		•	•		•			
SonicLink Silver Pink	35	Dynamically sensitive and muddle-free. We're unsure about the flesh-coloured finish though	•		•			•		
Sonic Link Black	49	Nickel-plated copper with a slight dryness in the bass and a hint of treble roll-off don't compromise integration.	•		•		•			
Straight Wire Chorus	40	A very confident cable with good bass, though perhaps a shade of treble loss		•	•		•			
van den Hul The Storm	25	Price for 0.8m length. Rich and warm but bass is rolled off: however there's plenty of drive and high frequencies are clean		•		•	•		1701	
van den Hul Source HB	50	Price for 0.8m length. Hybrid carbon-fibre/copper cable that is a paragon of naturalness. Airy and well controlled		•	•		•			
van den Hul D102 MkIII	70	A cable with everything; good bass, treble, imaging and naturalness			•		•			
van de Hul The First	210	Using 12,000 carbon fibres, a gentle and subtle sounding cable that conveys oodles of information but lacks dynamic punch		•	•				1702	
van den Hu IT heSecond	240	Wonderfully open and relaxing but also intimately detailed, slightly softens percussive dynamics	•		•		•	•	1702	
(LO Type 150	50	A restrained but useful cable for taming lively CD players, dynamics lack freedom, treble lacks clarity		•	•		•		1703	
(LO Type 0.1	180	Unusual but highly expressive and detailed with a hint of graininess on powerful vocals				•	•		1703	
Digital Interconnects		the second secon								Ī
Audioquest Digital Pro	100	A silver cable with all the drive of Video Z but lacking its clear cut transparency		•	•				E	Ì
Chord Codac	36	A connection with a stranded inner core and a sound that lacks integration	100	•	•				E	
Chord Prodac	50	Price for 0.6m length. Lively detailed treble, drives music along confidently with no hint of fizz		•		•	•		E 1706	
PA Opti-link	20	Sound is lacklustre						100	0	
OPA Digi-link	28	Can seem slightly impassive but there's no avoiding its exceptionally detailed sound		•	•		•	30	E	
xos 105	25	Extended but soft-edged treble that's mercifully free of fatigueing colourations; plenty of weight, smooth vocals				•		- 6	E 1707	
(imber Kable Opti-link	50	Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most	-					-	0	



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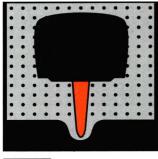
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CABLES (COI	NTINUED)	TRIDE	OAX	ANDED	O Con	COPPER	FACTSBI G CABLL SILVER	CKNU	WE NO	11
) Comments	-64/	~14 <u>[</u>	V	-OHE	TEA	FACTSBI G CABLL SILVER	· np _E	V	
Moth Leyline Datalink	140	A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive							E		Ī
QED Digiflex	20	A top performance, low-loss 75 Ohm coax with a very open, almost liquid quality							E		
Siltech HF-6	145	Sounds detailed, very clean and very extended, but bass is less well resolved — a treat for high-end systems though	- 8					•	70000	1709	
SonicLink Green	60	Spacious, positive and engaging if a bit over-crisp at times — very compelling however							800	1709	-
van den Hul The First	125	Exceptionally natural albeit slightly dark or cautious compared to some, plenty of subtle information and beautiful integration	ın						1000	1710	
Loudspeaker Cables		exceptionally natural about signify dark of observed to some, profity of observe information and observed integrated								7 10	
Audio Note AN-D	4.50	Supplied in linear, non-polarised lengths that should be twisted into stereo pairs. Sounds rather grippy and forward									
Audio Note AN-B	16.50	Well suited to valve systems, elastic bass, methodical but unintrusive and musical	-1							1711	
Audio Note AN-L	29.50	Fruity bass and expressive vocal rendition was appreciated by the panel which was happy to accept its foibles		•				•	100	1712	
Audio Note AN-SP	150	A calm and civilised presentation, very quiet in the way it reveals subtle low level detail. Great poise and clarity	- 24	•				•		712	
Audioquest F-14	2.2	Ideal for laying under carpets, F-14 encourages a slightly warm and vibrant sound					•				
Audioquest Type 4	5	Four 18-gauge OFHC copper conductors wound in a Litz-type fashion increases capacitance but restrains the cable's 'bite'		•			•				
Audioquest Crystal	25	Neutral balance is spoiled by some graininess and smearing	- 10	•			•				
Bandridge LC7409	4	Detailed and up-beat cable. A bit too steely for classical strings	- 1				•			1800	
Cable Talk Talk 3.1	2.25	Quite well-balanced but tends to lose bass lines in complex music	- 6	•						.000	
Cable Talk 4.1	4.25	Smooth and cultured sound that lacks fine detail and is a bit too restrained	- 1							1800	
DNM LSC350	6.95	Majors on midband and lower treble lucidity at the expense of bass and extreme treble extension		•						000	
DNM LSCB500	12	High impedance can influence the treble response, but this was a winner on sound per pound. Bi-wire	- 8							1716	
DPA Black Sixteen	100	Unflappable resolution of fine musical details, there's no dampening of dynamics, simply oodles of taut information		•				•	A	1717	
Gale XL189	1	Slightly bright and not too subtle, but a perfectly acceptable cable for any starter system	- 1							111	
Gale XL315	2	A little lacking in detail but plenty of life and excellent value	- 1		- 60			-		1800	
Gale XL160-2	2.50	Rhythmic and bouncy-sounding bi-wire cable. Can be slightly manipulative			- 20		•		1000	1800	-
Goertz M2	32	Remarkably detailed, smooth, neutral and with excellent bass; check amplifier compatibility	- 8	•			1000			.000	
leybrook Heywire	3.5	This well-meaning facsimile of earlier ribbon cables ends up sounding lumpy and uneven	- 8					-			
Cimber 4TC	19.6	A well-balanced cable with good performance in all areas		•				2			
Naim NACA 5	5.5	Described as a 'dinosaur of a cable', this stiff wire rod doesn't belong outside Naim systems. But it works a treat in them									
lordost Octava	3.3		-	•							
Ortofon SPK100	3	Fair bass but confused treble and some coloration									
	8	Grey-sounding and strips instruments of their natural richness and resonance, a bit bass shy too	-								
Ortofon SPK300	-	Tremendously open and atmospheric, with robust full blooded bass, and dynamic too — if slightly bright at times								1800	
Puresonic 7845	1.95	Big, weighty sound — but too messy and bloated for its own good	- 1	•			-		-	1800	
Puresonic 7891	2.85	Chunky cable design, shame about the sound quality	- 8	•	- 10				1000	1800	-
QED Qudos	9	Despite high-tech design and excellent Air-Loc plugs, the music failed to gel	- 1				-			.000	
QED Profile 4x4	15	Good midrange and treble balance, but bass is rather slack and detail not outstanding	- 8	•			•				
Silver Sounds 12 gauge	-	Basic 'homemade' construction gives fairly neutral sound, though not outstandingly competitive	- 8	_	- 8		-				
Sonic Link S300	1.95	Happiest with simple music; tends to smudge detail in complex pieces	- 8							1800	
SonicLink AST50	-	It may look like bell-wire, but AST50 sounds detailed, ordered and balanced	- 8					•		.000	
van den Hul The Clearwater	7	Despite its evocative title, the Clearwater turns out to be a disappointingly murky-sounding cable	- 8								
van den Hul The Magnum	38	Touted as vdH's most prestigious twin-lead cable, Magnum sounds soft and old fashioned					•	•			
van den Hul The Wind	40	'The Wind' kicks up a storm with its lush midrange and bone-crunching bass!	- 8							1720	-
van den Hul Revolution	76	Silver-plated OFC combined with carbon fibre prompts a sombre character with an easy and relaxed treble	- 8		- 10		-	•	B155 - 5	1726	
(LO Pro Type 625	4	Lively but natural and relaxed-sounding — a hint of congestion at frequency extremes					•	•		1726	



Cartridges

artridges fall into two groups: high output MM (moving magnet) models, capable of working directly into most phono inputs; and generally more expensive low and very low output MC (moving coil) models. MC cartridges usually have better mechanical integrity, tighter tolerances and give better performance. Many amplifiers are no longer equipped with the necessary phono input for a cartridge, and a separate phono stage

is necessary. Phono input equipped valve designs need a transformer to cope with MC cartridges.

■ Cartridge/amplifier interfacing can be very subtle, but even basic high output MM designs benefit in overall balance from optimised amplifier capacitance loading.



KEY

MM: Moving magnet carbridge with a normal output suitable for all vinyl disc amplifier inputs.

MC: Moving coil carbridge with a low output only suitable for high-

sensitivity vinyl disc amplifier inputs . **REPLACEABLE STYLUS:** Most MM cartridges have a stylus that can be removed and replaced. OUTPUT (MV): Cartridge output in millivolts.

MASS (g): Cartridge mass can affect arm choice.

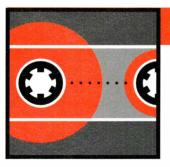
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FACTSBACK ISSUE NUMBER MASS COMBER REPLACEABLE STRUS (MASS (I)) MM MC TRUS CARTRIDGES Clear and dynamic, though richly balanced B Clearaudio Signature A great all-round performer with fine dynamic vitality and a seductive midband intimacy Denon DL110 A fine all-rounder, this high output MC model is likely to perform well 1.0 48 0.1 **Denon DL160** 90 Although listeners just preferred the 110, its brother here survived lab tests and is still 'thoroughly competent' . 6 43 Denon DL103 100 Good performance in bass and good 'life'. Is seriously let down by its spherical stylus which kills subtle detail • 0.1 6 103 Uncoloured, detailed, tracks superbly. Top notch altogether and a bargain too Dynavector Karat 17D2 mk2 450 0.15 5.3 158 Clean and controlled sound with taut, tuneful bass. Detailed and musically cogent . Dynavector Te-Kaitora 1,698 A real smoothie, but pricey. Worth checking out for its delicate laid-back transparency and low needle-talk 0.25 8.5

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CARTRID	GES	S (CONTINUED)	REPL)	CEABL.	E STYLO	FACTSB TPUT (MV)	PACK NUM ISS (9)	E NUM.
Product	Price(£	Comment		A			V	V
Dynavector XX-1L	998	Very clear, very detailed; a response lift around 20kHz seems to do no harm		•	•	0.25	- 12	8
Dynavector XX-1	998	Good, but not immensely competitive at the price, and not helped by comparison with the low output version		(•	2.0	12	8
Goldring Elan	19	A lightweight and frisky-sounding MM apparently based on Nagaoka MM4 body		•	•	5.0	7	
Goldring 1012GX	79	Slightly harsh but plenty of life and detail. Some high frequency colouration apparent			•	6.5	7	
Goldring 1022GX	99	As with 1012, a touch harsh; detail and transient purity improved			•	6.5	7	
Goldring Eroica LX	110	Not the most subtle cartridge in the world: can sound edgy at times, but lively and informative		(•	0.5	8	
Goldring 1042	120	Not terribly subtle, and not such good value alongside 1012 and 1022. Quite lively though		•		6.5	6	
Goldring Elite	220	The basics are right, and it will cheerfully tackle any source material, but its sound has a certain dirtiness		•	•	0.5	8	
Goldring Excel VX	525	Good bass drive but dull and imprecise higher up. An old-fashioned sound that falls short of the true high end		(•	0.45	8	
Grado Prestige Gold	149	Rich sounding with an unusually refined top-end for a moving magnet-type cartridge		9		4	6	
Grado Reference	995	Loads of tracking headroom but treble is limited. A prospect for mid-oriented valve amp users		•		1.7	6.5	
Linn K9	125	Linn improved this model by beefing up the Basik's bodywork and adding a super stylus				4.5	5	-
London Decca Maroon	259	Now manufactured under the London brand name, this Decca cartridge is as iconoclastic as ever		•		5.0	6	
London Decca S Gold	399	Immediate and detailed, but coloured, nonlinear with a questionable effect on records		•		5.0	6	
Lyra Lydian	649	Superbly capable all-round musical performer that improves markedly when its body cover is removed		•	•	0.3	7	
Lyra Clavis Da Capo	995	A stable tracker, and one of the finest cartridges we've heard		(0.1	7	
Lyra Parnassus D.C.t	1,895	A real little jewel of a cartridge, with many good qualities, but handicapped by a rather too obvious treble peak		•	•	0.22	10.5	
Ortofon 510/P	38	For the price, a good blend of virtues – weight, clarity and neutrality		•		3.0	5	
Ortofon 520/P	65	Sensitive to load capacitance, the 520/P has a lively, effervescent sound		•		3.0	5	
Ortofon MC3 Turbo	130	The 3 Turbo is bright, cheerful and bouncy, but unsubtle — take it as it comes		•	•	3.3	4	
Ortofon MC15 Super II	130	A good all-rounder, with outstanding resolution, if slightly bright and close up		(0.35	7	
Ortofon MC25E	180	An excellent upgrade for a mid-price turntable		•	•	0.5	11	
Ortofon MC25FL	250	A bit too stark and honest, but faithful to what's on the LP		(•	0.5	11	
Ortofon MC30 Supreme	525	Highly detailed and even-sounding cartridge that has a special affinity with female vocal recordings		(•	0.5	10.7	
Ortofon Rohmann	1,000	A class act in nearly every respect, with fine groove security and a very smooth and even-handed sound		•	•	0.25	8.5	
Ortofon MC3000II	1,100	A real eye-opener. Nothing to criticise anywhere, one of the very best		•		0.12	10	
Ortofon MC5000	1,500	Limited tracking ability, bright and forward sound, but good stereo		•	•	0.12	10	
Rega Bias	39	Difficult to mount in some arms due to its shallow build, the Bias offers a gentle, refined sound		•	•	5	4	
Rega Elys	85	Clearly superior to the Bias, the Elys is more detailed, accurate and convincing				5.0	5	
Roksan Corus Black	130	Recognisably related to the Corus Blue, but smoother and more civilised			•	6.5	5	
van den Hul MM-1	250	If woody midrange could be tamed, imaging and security would pull it through			•	5.5	6	
van den Hul DDT-II	600	Outstanding stereo imaging and neutral balance are appealing, but rhythmically the DDT-II is a bit lazy			•	0.35	7.6	
van den Hul MC-10	750	A neutral, balanced performer, gives fine depth and focus and a firm, extended bass				0.4	6	
van den Hul MC-One	900	This extended all the positive qualities of the 10, but added greater authority and scale — worth all the extra money		•		0.4	-6	
van den Hul MC-Two	1,200	MC-Two rewards with a highly detailed yet fluid and musically convincing portrayal				0.4	6	
van den Hul Frog	1,500	Seems to control/suppress surface noise better than its rivals, this delicate and subtle performer has great charm		(0.65	7	
van den Hul G' hopper IIIGLA	2,800	Undoubtedly one of the finest cartridges available, it has tremendous bandwidth, energy and finesse				0.4	6	
Wilson benesch Matrix	786	Extraordinarily well balanced cartridge: neutral and detailed yet lively and rhythmically assertive		(0.58	6	
Wilson benesch Carbon	1,573	Carbon fibre body contributes to a delightfully clean and open midrange, and a quick, lively and coherent sound				0.45	7	



Cassette Decks

ubiquitous music storage medium. Buffs may wrinkle their noses, but they all use it.

There should be no problems 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.) Twin decks offer the option to dub tapes and play two cassettes

he compact cassette is still the world's most versatile and sequentially. Autoreverse is a useful feature, but usually implies some mechanical compromise. Useful facilities include tape monitor switching and Dolby S.



DOLBY C: A rather extreme noise-reduction system not usually associated with high sound quality.

DOLBY S: A desirable derivative of the Dolby SR professional noise-reduction system

DOLBY HX-PRO: System designed by B&O to extend headroom

for cassette recording.

3-HEAD: If you want to monitor a recording while you are making it, a third head is essential.

TWIN DECK: Contains two decks for dubbing and continuous play. In most instances only one deck will record.

AUTOREVERSE: Automatically plays both sides of the cassette. AUTO CALIBRATION: The deck will automatically set up bias and

ADJUSTABLE BIAS: Bias can be manually set to suit the tape being used.

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ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared.

CASSETTE DECKS

	CASSET	ITE DE	CKS	DOLBY C	BY HX P	TWI. 3-HEAD	AUTO CA AUTOREVE W HEAD	ADJUSTA LIBRATIL	ACTSBAL BLE BIA	ISSUE NUM	MBER
P	roduct	Price(£)	Comments					V	VAL.		
Ai	wa AD-F450	120	Basic but well-designed budget deck, astonishing value; only the poor metering gives the game away	•		•				1513	136
Ai	wa AD-WX727	170	High-class twin for those who want bells, whistles - and music			•	•	•	. •	1377	146
De	enon DRM-550	160	There are some technical limitations, but this remains a fine sounding deck, and excellent value			•					158
De	enon DRW-580	200	Twin deck: OK for casual use, but will quickly pall with more quality critical applications	•	-	•	•	•			171



•	CASSETT	E DE	CKS (CONTINUED)	DOLBY S	HX PRO 3-HEA	AUTO CALIBRA VIN HEAD	FACTSBACK ISSUE NUMBER ISTABLE BLAS ATTON BLAS
	Product	Price(£)	Comments		\mathbf{V}	\vee	\vee \vee \vee
B	Denon DRS-640	200	Draw-loading deck, with simple facilities and smooth, well-adjusted sound	•	•	•	• 1591 140
4	Denon DRM-650S	230	An all-round improvement on predecessors, offers a wide-ranging, disciplined sound. Dolby S is not the best feature	•			• • 164
	Denon DRM-740	270	Breathed-on DRM-710, with good external treatment, offers good, if somewhat detached sonics	•	•	•	• 1514 136
	Denon DRS-810	310	Draw-loading deck, carefully designed yet lacking in subtlety on audition	•	•	•	127
	Harman/Kardon TD420	250	Minor inconsistencies detract from a well-conceived, minimum features design	•	•	•	1592 140
	Harman/Kardon TD450	350	Draw loader with poor tape navigation features; good midband but shallow bass	•	•	•	• 164
B	JVC TD-R472	200	Excellent auto-reverse deck which doesn't suffer the usual disadvantages and is very sharply priced	•	•	•	• 158
B	JVC TD-V662BK	270	Assured, clean and agile sounding recorder, if not quite the most refined in its class	•			1380 146
	JVC TD-W718	300	Twin deck. Good for creative live recording, but no timer standby. Respectable though not earth-shattering performance	e •	•	• •	171
A	Kenwood KX-W6080	200	Modestly decent sounding twin deck, with some transport instability and ragged bass. The features list is also strong	9	•	• •	• 171
	NAD 613	230	Rough and ready, but enjoyable sound, though marred by mechanical motor noise	•	•		• 158
	NAD 616	300	Primitive twin deck with basic features. No Dolby setting memory, transports are too unstable for serious quality first use		•	• •	171
4	Onkyo K-611	460	Cute drawer loading mini-size component with 3-heads and dual capstan transport	•	•		1384 146
4	Pioneer CT-S550S	250	Great features, good with cheap low bias tapes, but slightly synthetic sound quality	•	• •	•	• 164
	Pioneer CT-W806DR	300	Had it not been for the iffy transport quality, this ultra-sophisticated twin would have been recommended.	•	•	• •	• 171
A	Pioneer CT-S830S	500	High-class mechanism, if lacking in battleship externals, and superb sound	•	• •		1385 146
A	Sony TC-KE600S	300	Mild setting-up problems notwithstanding, this UK-tweaked design has a smooth, open and un-cassette-like sound	•	• •	•	• • 158
B	Technics RS-AZ6	200	For those who can't afford the RS-AZ7; exquisite clarity over the widest bandwidth thanks to AZ thin-film head		•	•	• 164
B	Technics RS-AZ7	270	Thin-film head gives a solid, almost CD-like bass and midrange. A clear advance in the state-of-the-art	•	•		158
4	Yamaha KX-490	200	Electrifyingly transparent and capable deck whose only flaw is a trace of audible wow and flutter	•	•		• • 158

250

CD/DVD Players in association with

Subtle, engaging and transparent sounding deck, with a lightweight tonality, but good stability and strong detail

II CD players offer a basic selection of facilities, and some can keep you entertained for hours as you programme in disc names and track orders. All but the excessively inexpensive feature remote control. Most CD players can be upgraded by adding an outboard DAC (see below). To do this the player needs a digital output of either electrical or optical persuasion; sonically the former is preferable. A 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.



review appeared.

KEY

Yamaha KX-580SE

ELECTRICAL DIGITAL OUTPUT: For electrical connection to an outboard DAC.

AES/EBU ELEC DIG OUTPUT: Balanced digital output to be used

with similarly equipped DACs.

OPTICAL DIGITAL OUTPUT: For optical connection to an outboard

AT&T OPT DIG OUTPUT: High-speed optical output to be th similarly equipped DACs.

BAL ANALOGUE OUTPUT: Balanced analogue output for amplifiers equipped with balanced inputs.

HEADPHONE SOCKET: For can users.

VARIABLE OUTPUT: Remotely adjustable, volume-

controlled output.

MULTI-DISC: Equipped with a carousel or multi-tray system for continuous play of multiple discs.

DAC TYPE: Digital to analogue convertor: BS - Philips Bitstream, MB - multibit. Hyb - hybrid of multibit and bitstream technologies, 1bit - single bit types such as MASH, bitstream, PWM, etc, CC- constant calibration FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback information page. ISSUE NUMBER: The issue of Hi-Fi Choice in which the original

CD/DVD I	PLA	YERS	DIGITOR DIGITOR	T BAL ANALOGUE OL TOPT DIG OUTPUT TAL OUTPUT UT	HONE SOCKET OUTPUT DISC	K NU	SSUE NU.	ME
Product	Price(£		V		V V V V	V	V	
Acurus ACD11	899	First-rate if costly player from the US, which combines a delightful transparency with an uncontrived naturalness	•		1	bit		1
Acoustic Precision Eikos	1,850	Seriously customised Pioneer with extraordinary resolution and world beating imaging and bass (Statements)	•		1	bit		1
Alchemist Nexus APD32A	597	Refined treble, constrained yet capable bass and attractive all-round presentation distinguish this player from the crowd	•		Н	yb		1
AMC CD8A	150	Has balanced output, but is otherwise rather grey and unremarkable		•		38		
AMC CD9/DAC8	200	Beer budget two box system (player + DAC) is smooth, attractive and easy on the ear.				CC		
Anthem CD1	1,595	Unusual combination of high-end player, complete with HDCD, and changer. Good, but serious mechanical noise	•	•	• 1	1B		1
Arcam Alpha 7	330	Mildly rehashed favourite comes up smelling of roses.	•			38		
Arcam Alpha MCD	450	Excellent bass and natural midband, but just a touch of treble dryness, from this very listenable changer	•		• 1	1B		1
Arcam Alpha 8	520	Refined, intricately detailed but a little cautious, this should be broadly compatible with a variety of amps	•			38	1873	1
Arcam 8SE	600	Excellent (and very reasonably priced) HDCD-compatible player is a strong all-rounder	•	•	1-	bit		
Audiolab 8000CD	1,000	Developed according to the Green Cross Code of digital audio with an elegant but safe musical presentation	•			38	1874	1
Audio Research CD1	3,290	Suspends disbelief with a frighteningly real yet obviously coloured sound. A rare proposition among CD players	•		•	38	1875	1
AVI S2000MC2	899	A chip off the old block, this model's in-yer-face balance obstructs an otherwise finely detailed and dynamic sound	•		1	ИΒ		1
AVI S2000MC Reference	1,399	Lean, dry, high resolution player, built to outlast most of us, and a fine performer in a sympathetic system	•		N N	1B		1
Cambridge Audio CD4	150	Basic appearance and sluggish track access/track search belies its up and at 'em sound quality	•		• H	yb	1268	1
Cambridge Audio CD4SE	200	Among the best players we have encountered at the price, considerably more refined and convincing than CD4				BS	1877	
Cambridge Audio CD6	250	A sharp, lively and articulate player, a real thoroughbred in fact, perhaps too sharp and lively for some systems			•	BS		
Copland CDA-266	1,199	Visually simple yet elegant design is unexpectedly sophisticated under the skin, and effective in execution	•		1	ИΒ		1
Copland CDA-288	2,199	A gentle giant of a player that errs in favour of pastel shades rather than bold daubs of colour, one for refined tastes	•	•	1	ИΒ	1880	1
Cymbol CDP12	1,299	Clean, detailed and airy HDCD-equipped player with minimalist trappings	•		Hyb	rid		1
Denon DCD-625	200	DCD-615 replacement is generously equipped but lacks sophisticated sound of its forebear	•		• N	1B	1269	1
Denon DCD-825	240	Despite extensive revisions, this latest player still sounds like a typical 18-bit Denon, which is no bad thing!		•	• N	1B	1531	1
Denon DCD-1550AR	350	Disappointing bland and ploddy sound from an immaculately constructed, high tech player	•	•	• • 1	ИΒ		1
Denon DCD-1015	350	Excellent, mid-range player – fast, fluid and lean	•	• •	•	ИΒ	1599	1
Denon DCD-3000	1,000	Sings with the temperament of a huge orchestra under the baton of a timid conductor, but very agreeable at that	•	•		ИΒ	1881	1
Denon DCD-635	180	Modest presentation gives little clue to the thoroughbred electronics ticking away inside			• 1	ΛB		

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	Price(£	YERS Comments	7 0	7 40	MEADE S OUTPUT	VARIABLI VIPUT	ירטיי די	FACTSB, UT-01SC	IVPE	SSUE NO MBER
Clipse CD101a	80	If you want to know the sound of high order distortion, this is probably as good a place to start as any				11			MB	
Harman/Kardon HD710	200	A player of integrity, but can sound a bit hard and rough when extended, and is somewhat amplifier fussy	•				•		1bit	
narman/Kardon HD730	300	Competitive at the price, with a coloured but dynamic and outgoing sound supported by a raft of user features	•				•		BS	
narmon/kardon FL8300	300	Generally capable changer with relaxed sound and firm bass. Just a hint of roughness on occasion	•		•		•	•	MB	
lelios Model 2	950	This player may not be to everyone's taste, but it is an individual, with some interesting things to say	•			100			1bit	
VC XL-V184BK	120	Excellent budget player, well presented, a tad opaque but its heart is in the right place.					•		1bit	
VC XL-V284BK	140	Featuring a new set of bitstream innards, this flexible player has a refined, if occasionally unpredictable sound	•		•		•	7 888000	1bit	127
VC XL-Z574	250	Strong resolving power and good midband and dynamics, but slightly raw and thin			•		•		1bit	
VC XL-Z674BK	300	Even-handed, but glosses over the most intimate moments	•		•		•		1bit	163
Cenwood DP-3080	170	Bold, dynamic and outgoing sound, though somewhat aggressive. Poor build quality and finish			•		•		1bit	
Cenwood DP-4090	250	Focuses a clear, wide aperture lens on the music - and has CD Test too							1bit	
enwood DP-5090	300	Disappointing senior brother to the excellent DP-4090, but surface interface is good	•		•				1-bit	
Cenwood DP-7090	400	A lively and compelling performer with an even-handed and coherent disposition	•						MB	188
inn Mimik	875	Useful multi-room features matched to strong bass, but poor imagery and transparency	•						Hyb	
Marantz CD63MkII KI Sig	500	It's the quintessential sound of Marantz – warm, open, and smooth almost to a fault	•		•		•	8000	Hyb	
Marantz CD-67SE	350	Refined, enjoyable player, though ultimately a little soft-centred	•		•		• •	-	BS	
Marantz CD-67 Mk II	250	The digital equivalent of a safe pair of hands. Smooooth	•		•		• •	-	BS	
Marantz CD-48	200	Somewhat inconsistent, middle ranking player which hints at better things	•				• •	-	1bit	
Marantz CD-17	800		100						1	170
larantz CD-17	100	Fabulous packaging and an excellent all round performer: smooth, detailed and consistent Micro OC archlome soids, this is a questly tyrand out mechine, but ultimately a little blood.	•		•				BS	176
	1,100	Minor QC problems aside, this is a superbly turned-out machine, but ultimately a little bland	•				•		BS	
leracus Tanto	1,395	Believable tonal colours and textures, refinement takes preference over dynamics – but it's not cheap	•						DS	
leridian 506	1,100	Revised 506 includes MSR remote and a new D/A chip, which makes it livelier and more detailed	-		•				l bit	100
leridian 508 (20-bit)	1,995	Combines a delicate mid and treble with rich, opulent bass and has impressive low-level resolution	•		•	•				1886
lission Cyrus dAD3	598	This front loader has a relaxed style of delivery that convinces with guile and subtlety rather than orchestral ordnance							BS	188
lission Cyrus dAD3Q	898	Lucid, transparent and uncontrived sound quality, superb build, and readily upgradeable			•				MB	
Ionrio Privilege	995	Costly and well-engineered, but ultimately rather heavy-handed and dull, if refined player	•						MB	
lusical Fidelity E60	300	This entry-level player lacks proper stereo localisation and clarity	•		•				BS	
lusical Fidelity A2	500	Warm (too warm), attractive and open player, a great improvement on (related) E60	•		•				BS	
usical Fidelity FCD	1,500	A forward disposition makes this perfect for Fenders but less appropriate to Guarneris	•			•			BS	
lyryad MC100	700	A little extra get-up-and-go wouldn't go amiss, but its sheer maturity and composure ensure listenability	•						BS	1889
lyryad MCD500	1,300	Well-built attractive player, which has much promise, some unrealised, and which can be a little hard going on audition	•						1bit	
AD 522	170	Crude, mechanical sounding player fails to tickle the music buds						1	bit	
AD 510	200	Pale version of NAD's senior CD players with a stripped down feature count						1000	1bit	
AD 512	250	Simple, well-focused presentation, and articulate with it, though hard-nosed quality is not everyone's cup of tea	•					- B	1bit	
AD 523	250	Nothing seriously amiss with this classic NAD 'no-frills' changer, but it lacks that vital spark						Name of the	Hyb	
AD 514	370	Boisterous sound, but undeniably attractive	•				•	2000 A	BS	1620
aim Audio CD3	1,000	· · · · · · · · · · · · · · · · · · ·						-	MB	
aim Audio CD2	2,000	The idiosyncratically packaged CD3 is solid and highly articulate. Always has its feet on the ground though						-	-	
	BO 10	Provides bags of detail with a solid stereo focus but not all the romanticism we know to be possible						- Table 1	1000	1890
nkyo DX-7210	260	Well-bred CD player features an unusual digital filter, is smooth and cultured without appearing grey or boring			•	-	•	- Barrier - Ba	10000	1273
nkyo DX-7510	400	Strongly flavoured, assertive sound	•		•		•	100	BS	1640
relle CD-100EA	649	Excellent imagery, timing and transparency, and readily upgraded or reconfigured	•		•			-	MB	
hilips CD-721	130	Surprisingly well-sorted, articulate if slightly glossy and attractively presented sound. Captive signal lead						500000000000000000000000000000000000000	1bit	
hilips CD751	150	Inconsistent and occasionally opaque and scrawny sounding cheapie	•				•	-	lbit	
oneer PD-S705	300	A dichotomy, this machine was loved by some for its articulacy and disliked by others for sounding too impressive!	•		•				BS	1891
oneer PD-F906	350	Interesting appearance and concept, but this changer's sound is seriously lacklustre and ergonomics frustrating			•		•	• 1	lbit	
oneer PD-S904	400	Too much legato – literally – in sound, but a very smooth performer	•		•			1	1bit	1641
ioneer PDS-06	550	Technologically sophisticated, Pioneer's first multi-bit player for years is polished and capable, if a tad laid back	•		•				MB	
oneer PD-S505 Precision	460	Assured, fluid-sounding player, with great spatial coherence	•					1	lbit	
uad 7 7	900	A true thoroughbred combining a penetrating insight into detail with poise rarely found at the price						500000	Hyb	1893
oksan DP3P	100	Dramatic and compelling, classical listeners should be ready to 'air conduct' when auditioning this player	•					200	190	1896
oksan Caspian	8 95	Solid, articulate, and fundamentally well-engineered player, but with some subtle low-level limitations	•					Beer St	lyb	
otel RCD-970BX	375	A combination of solid build, useful facilities and an attention grabbing sound make this a winner	•					\$5000 Day	92000	1897
nerwood CD-4030R	180	Easy on the ear, smooth-sounding player, with limits set by the slightly soft, compressed quality — and messy facia			•			Acres de la constante de la co	BS	207
erwood CD1	607 108	A very neutral, even handed sounding player, with initial set by the siignity sort, compressed quality — and messy facial.	•		•			- C	-	1899
ony CDP-XE310	- 10	Excellent value and bright as a button, but can sound OTT in some systems					•	100	-bit	
ACCOMPANIES OF THE PARIES OF T	977 108							March 197	bit	
ony CDP-XE510	5 -19	Souped up CDP-XE500 which tells a rather bland and unengaging story						STATE OF THE PARTY		
INV CDP-XE900E	100	Refined and analytical disc scavenging tool, but there are some distinctive colourations making auditioning vital						#350 BC	BS	
ny CDP-XA20ES	100	High tech, with a long list of gadgets, this is an oddly configured player that ultimately sounds less than compelling	1000		.•			BOWN BO	bit	
ony CDP-X3000ES	200	Shoebox format player, with looks to die for, and switchable digital filters to tweak the already excellent sound	•		•			100 No.	BS	
ac 3450SE	200	For once a budget player where the gadgets take second place to respectable, budget amplifier-friendly sonics			•	1000		- CO	bit	
ac CD-5	- 19	Bright, breezy and up-beat — but short in the trouser department	•		•		•	- Total	BS	
ac VRDS-7	100	Although bold and outgoing, this player can sound both intrusive yet lacking in fine detail	•		•			Section 1999	BS :	1769
ac VRDS-9	700	Well-presented, heavyweight midi, the Teac is crisp, yet shallow, and inconsistent in sound quality and partnering skills	•		•		•	W0000	bit	
ac VRDS-10SE	850	Superbly built and presented, but rather leaden bass, with an over-prominent and not ideally refined mid/top	•		•			(B)	BS	
ac VRDS-25	1,300	A solid player in all respects combining powerful sound with state-of-the-art technology	•		•			N	MB :	1903
chnics SL-PG480A	130	Full driving sound, but somewhat uneven in balance with a unsubtle, slightly harsh top end					•	1	bit	
chnics SL-PS670D	-	Fine, middle ranking player which sounds solid, sometimes even a little stolid.			•		•	- BO	bit	
chnics SL-PS770D	70	High tech and well built technology battleship which smoothes the rough edges off the music			•	-	•	-	BS	
chnics SL-MC410		If you fancy a CD player that holds 111 discs, this one's cheap, pretty capable, and easy to use						B00	lyb	
chord Genesis	1000	Breathed-on Pioneer is warm and mellifluous, but ultimately lacks drive and authority.	•				•	100	lyb	
	200					-		100 mm	-	
chord Revelation	799	Well-ordered and clean sound that may be a little too refined for some, images well		B000 - 1	Section 1987		B000000	CONTRACTOR DESCRIPTION	bit	

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CD/DVD PLAYERS



Product P) Comments	V		V .		V V	V		
TRANSPORTS										
Arcam Delta 250	800	This model is based on a Philips CDM9 transport. Specification includes Sync Lock facility			•		•	-	1491	13
Audiolab 8000CDM	1,400	Super-slick transport and basically very honest sound, but lacking the last degree of fine detail	•	•	•			-		16
Linn Karik	1,850	Based on early Linn transport, the Karik is dry but very positive, detailed and engrossing	•		•			-	1323	14
Meridian 500	1,245	Used with the 563 DAC, the combination is thin, brash and uncomfortable	•		•			-	1103	13
PS Audio Lambda	2,250	With Ultralink Two, sound positively sparkles with colour and resonant detail. (Tested with Ultralink 2 DAC)	•	•				- 10	1106	13
Roksan Attessa ATT-DP3	1,295	Not the most detailed or refined but capable of sounding exciting with the right material	•		•			1bit		16
Teac VRDS-T1	550	Superb quality engineering is mated to tidy and composed sound (tested with D-T1)	•	10	•			-	1325	14
Theta Data Basic II	2,397	Uses a Philips CDM9 Pro mechanism and works a treat with more lively DACs	•					-	1494	13
Thorens TCD2000	999	Lively presentation not helped by rather loose bass and splashy treble. (Tested with TDA 2000 DAC)	•		•			- 10	8	16
Trichord Digital Turntable	699	Very detailed, precise, controlled yet involving; a first-rank performer	•	8.	•			-		16
Wadia 8	3,195	Budget version of Teac's VRDS mechanism in a fancy case; but just too expensive for the performance on offer	•	•	•			-	1495	13
DACS										
Arcam Black Box 50	350	Measured and sophisticated sound from a DAC that leaves plenty in reserve for future upgrades						Hyb	1506	13
Arcam Black Box 500	500	Sophisticated unit with sync lock and discrete DAC						BS	1519	13
Audio Note DAC1	675	Oddball DAC with manual de-emphasis switch. Needs a high preamp input impedance or bass will suffer			1			MB		12
Linn Numerik	1,500	A new 20-bit DAC and revised Karik transport have cleaned up; but sounds a bit dry and humourless						MB	1323	1
PS Audio UltraLink 2 HDCD	2,590	The sound positively sparkles with colour and resonant detail. (Tested with Lambala transport)						MB	1106	13
PS Audio Reference Link	4,550	Consolidates reputation of PS Audio for high performance digital electronics				•	la la	MB	1069	13
Roksan Attessa ATT-DA2/DS5	1,145	Not the most detailed or refined but capable of good excitement with the right material						1bit		16
Teac D-T1	500	Teamed with VRDS-T1 for test, this superb quality unit is tidy and composed						BS	1325	14
Teac D-700	600	With P-700, the D-700 may lack the resolution, but is bubbly and entertaining						MB		12
Thorens TDA2000	700	Lively and up-front presentation not helped by rather loose bass and splashy treble						BS		10
Trichord Pulsar Series One	1,395	Very detailed, precise, controlled yet involving; a first-rank performer. Switchable phase, dither etc						Hyb		10
DVD PLAYERS										
Denon DVD-3000	700	Enjoyable rather than analytical, includes 24/96 and AC-3/MPEG-2 Audio			•		•	BS		18
Panasonic DVD-A350	700	24/96 converter and AC-3 & MPEG-2 Audio included, well balanced, if slightly blurred and shut in	•		•		•	BS		18
Pioneer DV-505	450	Plenty of analysis, with a slightly ragged edge. Rescued by the price & S/PDIF capabilities.	•		0			BS		18
Pioneer DVL-909	900	DVD and LD player: self-recommending to AV nuts; musically detailed but occasionally seems disjointed	•		•			BS	1	18
Sony DVP-S715	600	24/96 converter for DAD compatibility, sharp, forward, but slightly unsubtle sound	•		•		•	BS		18
Toshiba SD3107B	550	Dynamic sound and good stereo which lacks lowest stratum of detail.	•	1	•		•	BS		18

You must listen to For details of your nearest stockist, 201480 451777. Or visit the company's WorldWideWeb site – http://www.mission-cyrus.com



Digital Recorders

guises, but only Minidisc has had any impact on the domestic market. Even then, it's early days, and a new rewritable CD from Philips has upset the applecart. At present there are four types to choose from: DAT (digital audio tape), MD (MiniDisc), CD-R (CD Recordable) and CD-RW (CD Rewritable). MD's claim to fame is its optical disc format, which offers instant track access. DAT has been on the market for quite some time now, but has never really 'made it' as a

igital recorders have been available in a variety of different consumer medium due to the dearth of pre-recorded material. However it has begun to carve itself a niche in the top end of the market, replacing reel-to-reel as the audiophile's tape based medium. Home CD-R is coming into its own with Pioneer's two models and aggressively pitched new ranges from Philips.



KEY

FORMAT: Type of recorder, see above for descriptions DAC TYPE: Digital to analogue convertor: BS - Philips Bitstream, MB - multibit, Hyb - hybrid of multibit and bitstream technologies. 1bit - single bit types such as MASH, bitstream, PWM etc

ADC TYPE: Analogue to digital convertor types as per DACs. PORTABLE: Can be operated from batteries but is not necessarily

OPTICAL IN/OUTPUTS: Digital socketry for optical cable.

ELECTRICAL IN/OUTPUTS: Digital socketry for electrical cable. FACTSBACK NUMBER: The Factsback reference for ordering a fax copy of the review. Use the contents page to find the Factsback information page, elsewhere in this

ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review anneared

OFICAL MOUTPUTS ODERAL SELENDI ODERAL MOUTPUTS ODERAL E FORMAT TYPE TYPE TARE **DIGITAL RECORDERS** Denon DMD-1300 500 Sound sometimes lacks integration but tonal balance is good and it handles loud music with panache MD BS BS 177 Kenwood DM-9090 550 Slight sibilance and image vagueness do not detract from excellent balance and solid bass MD BS BS 177 1 . Onkyo MD-121 450 Midi-sized deck that sounds slightly coloured at times, though immediate and lively MD BS BS . 177 Philips CDR-870 500 The first re-writable CDR, but has jitter problems in direct digital dubbing CD-R BS BS . 174 . Pioneer PDR-04 700 Scaled down version of the PDR-05 (see below) with auto level setting but all the socketry and features you need to make CDs CD-R BS BS • • 171 Pioneer D-05 900 Second generation 96kHz DAT recorder can offer startling realism DAT BS BS 1652 152 . Pioneer PDR-05 1,000 The first domestic — excellent sound quality CD-R BS BS • 1652 152 Pioneer D-C88 2,000 State-of-the-art portable 96kHz DAT recorder, the size of a lap-top computer DAT BS BS • • 1431 150 MD BS BS Budget recorder that loses little or nothing in comparisons with much more expensive models — highly capable . .

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Headphones

here are a number of approaches to headphone design.

Among the more expensive models, electrostatic drivers are used in open-backed phones. Most models feature dynamic (moving coil) drivers in circular, open or closed-back designs. The advantage of open backs seems to be a correspondingly open sound, but one can also hear external noise, of course. Closed-back designs are useful in situations where it is necessary to block out noise. In recent

years, a number of manufacturers have started to offer cordless headphones using infrared or radio waves. For best results a separate headphone amplifier is recommended.



KEY

TYPE: Operating principle: D - dynamic, E - electrostatic.

SUPRA-AURAL: Style where a flat pad presses on the outer ear.

CIRCUMAURAL: Style which encloses the ear.

OPEN BACK: Offers an open sound but lets in noise.

CLOSED BACK: Keeps out external noise.

WEIGHT (G): Mass in grams

IMPEDANCE (CQ): Load offered to the headphone amplifier. All
things being equal, the lower the impedance the louder the sound for a

given amplifier output.

3.5MM JACK ADAPTOR: Can be used with mini-jack-equipped components such as personal stereos.

FACTSPACK NIMBER: The Factsback reference for order-

ing a fax copy of the review. Use the contents page to find the Factsback information page, elsewhere in this section ISSUE NUMBER: The issue of *Hi-Fi Choice* in which the original review appeared.

FACTSBACK NUMBER 3.5mm JACK ADAPTOR ISSUE NUMBER CIRCUM OPEN BACK BACK (1) **HEADPHONES AKG K1000** A 700 One of the best dynamics on the market, hooks directly into speaker outputs D 270 120 99 Audio Technica ATH910PR0 D 280 55 80 The closed back 910s are an improvement on the 909s, with a nice rhythmic quality rarely found in headphones 40 **Bever DT100** D 350 157 Rugged, modular professional design, but bass is woolly and treble lacks detail 600 Beyer DT311 50 D 124 40 Uncharacteristically tight, unrefined sound quality from this otherwise well engineered 'phone 1098 133 Beyer DT411 A reasonable but not very thrilling headphone that doesn't really offer enough at the price D 120 250 Beyer DT511 106 Superb midband clairy and speed slightly at odds with soft bass. High tingle factor even so D 200 250 4 **Beyer DT531** 135 A good buy for serious, heavy-duty music making D 245 250 144 Beyer DT911 170 D 275 Probably too revealing for many headphone amps, these are very subtle and fine, if expensive cans 250 111 Denon AH-D550 80 D 35 1801 A competent 'phone with integrity, but little panache or charisma. Hard headband causes brain strain 200 157 Denon AH-D750 Loud and gutsy, meaty bass, good with rock and dance. Can sound thick and clumsy 250 30 172 Grado SR-40 45 Cheap and nasty appearance largely redeemed by cheerful, up-beat sound. Very comfortable D . 120 32 172 Grado SR-80 100 Clear, open and dynamic with pedantically open mid-band. Crude physical design, rough frequency extremes D . 60 8 1801 157 Grado SR-225 Warn, darkly-coloured tonally and ultimately lacking in clarity, but true to the spirit of the music if not the letter D 200 32 1883 163 Jecklin Float Model 1 While very unusual in appearance, the Floats give remarkable sound quality and openness at a reasonable pric 400 **Jecklin Float Model 2** 99 Helmet shaped, but open sounding and comfortable in the long term, despite lack of adjustment D 400 200 63 IVC HA-D910 65 Broadly acceptable if unexciting design with low level losses and some colourations D . 220 32 121 JVC HA-W60 49 Remarkable lack of interference and hiss amelionates adequate sound of this cordless design D 165 I/R 172 Still has much of the spaciousness and detachment of the Float from which it is derived, but coarse mid/top Precide Ergo Model 2 140 380 100 D 1892 163 Philips SBC 3396 Remarkably airy for closed-back designs. Fine tonal balance, punchy delivery. Amazing for money Philips SBC HP900 Sharper, snappier midrange than 3396 initially impressive but blows the balance and listenability D 200 32 172 Sennheiser IS 380 55 As close as you'll get to real hi-fi with infrar-red phones at this price. Inevitable hiss spoils the illusion D . 192 I/R 172 Sennheiser HD 455 A 55 60 157 Inoffensive, if nondescript sound, modular, but can become dislodged from head D . 185 . 1801 ennheiser HD 475 80 Elegant, uncluttered sound and very comfortable but lean bass saps satisfaction D 120 60 172 4 Sennheiser HD 545 125 Fine all rounder that takes all styles of music in its stride. Ear-clamping headband n . . 255 150 172 Sennheiser HD 565 Ovation 1801 157 Wide bandwidth design which is refined, expressive and extremely comfortable Sennheiser HE 60/HEV70/UK 998 Very nearly a superb electrostatic, with a pure midband, but top end is sibilant and edgy E • 260 1898 163 Sony MDR-CD770 Neutrality and comfort make the Sony easy to live with. Technically correct-sounding too, yet musically unrewarding 1801 100 157 D Sony MDR-CD1700 Astonishingly detailed, uncoloured and free of the usual artefacts from a sealed back headphone. Tremer Sonv MDR-F1 D 100 Natural, easy-going sound teamed with great looks and comfort. Shame about the lightweight bass 300 12 172 **Technics RP-DJ1200** Functional design with head-pulping bass and muggy tonal balance. Good job they're sweat-proof D 230 32 172 Stax Lambda Nova Basic Refined, articulate, yet with real presence - and a notable bargain by electrostatic standards 3/17 Vivanco IR5800 Consistently musical infra-red design. Doesn't reach for sonic heights so hiss can be forgiven D 1/2 226 I/R 172 50 4 Vivanco SR650 50 Unusually comfortable 'phone with excellent detail resolution but aggressive, thanks to tweeter resonance D 175 1801 157 Vivanco SR750 Cossetting physical design, attractive sound an pricing, though suffers overhang and lacks ultimate dynam Vivanco Cyberwave FMH3000 80 The only cordless headphone to offer genuine walkabout freedom. Unfortunately, sounds like a cheap FM tuner





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Hi-Fi Loudspeakers

s the last link in the hi-fi chain, the loudspeaker is at the mercy of the signal it is called upon to reproduce. Nevertheless, the distortions introduced by loudspeakers (and rooms) tend to be the most obvious

The average loudspeaker consists of an enclosure plus a couple of drive units 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. 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 it goes), for the given box size.

Subwoofers augment the bass and are available as passive (unamplified) and self-amplified active form. Unlike regular speakers, they are not too fussy about their position in the listening room



KEY

SIZE WXHXD (cm): Width by height by depth in centimetres.
FLOORSTANDER: As opposed to requiring a dedicated stand.
SENSITIVITY (dB/W): Efficiency — how much sound you get for a given input. The higher the figure the louder the soeaker.

IMPEDANCE (Ω): Measured in Ohms, impedance is a measure of how hard a loudspeaker is to drive: the lower the number the more powerful the amplifier needs to be.

more powerful the amplifier needs to be. CLOSE TO W

BASS FROM (Hz): The lowest frequency that a speaker can placed close

reproduce, based on in-room measurements.

FREE SPACE: Speakers should be placed away from walls.

CLOSE TO WALL: it is recommended that these speakers be placed close (between 3 and 12cm) to the rear wall.

FACTSBACK NUMBER: The reference for ordering a fax copy of the review. Use the contents page to find the Factsback page. ISSUE NUMBER: The issue of Hi-Fi Choice in which the original review appeared

IMPEDANCE(Q) (Hz) FACTSBACK TO SUE NU CLOSE TO WALL COSE TO WALL SENSITIVITY(OB/W) SIZE WXHXD(CM) ISSUE NUMBER FLOORSTANDER FREE SPACE **HI-FI LOUDSPEAKERS** 250 18 5 30 25 87 6 40 177 **Acoustic Energy AE200** Metal cone miniature has a tendency to shout but is still lots of fun, and well built too 4 164 **Acoustic Energy AE109** 350 Lots of mass-loaded twin-driver speaker for the money, especially for loud, driving bass 88 25 1904 4 170 **Acoustic Energy AE120** 500 Attractive presentation and good sonic headroom, but a heavy, uneven overall balance, and a difficult amp load too 18.98 28 89 25 ATC SCM20 83 8 28 86 1.599 Massively built, invariably informative but the rather forward presentation can be uncomfortable 24.44.31 87 6 40 1905 164 **Audio Gem Emeralo** 540 Pretty compact floorstander with lively if lightweight sound 18 94 21 25 110 Audio Note AN-1/B 799 38.58.25 93 8 4 Light damping and local unevenness add some colouration, but don't spoil the speaker 94 8 106 Audio Note AN-E/B 1.299 Coherent, dynamic and transparent, with extended bass and high sensitivity - but ugly! 36.84.28 20 88 8 28 . 1344 143 Audio Physic Tempo 1 999 Tall and unusually-styled floorstander has stunning stereo but suspect bass tuning 22 107 47 1,399 High class, smooth and slightly laid back performer has driving bass. It's upgradeable too! 20,102,30 89 4 22 180 Audiovector M2 174 **AVI Positron** 899 Suited to smaller rooms, this 'mini-floorstander' is capable of great precision and delicacy, but in a rather small scale way 17.5,25,7784 85 6 40 45 **B&W DM302** Highly competent and neutral all rounder; clever Prism enclosure 19 32 22 6 • 1779 156 1 199 Great main driver for the price, entertaining dynamics 20.5.35.5.23 88 30 1654 152 4 **B&W DM602** 300 Prefers tall stands and space, but offers impressive midband dynamics and musical tension 24 49 31 90 8 30 89 4 40 1908 164 1 B&W DM305 350 Ridged paper cone gives lively sound, clever box, but a little uneven 22 87 31 45 Squat floorstander with decent dynamics and well-judged, restrained balance; bass could go deeper 23.5.88.29 600 A gorgeous looking stand-mount with one of the best midbands around, and a subtle blend of other qualities 22.37.29 88 5 40 . 177 B&W CDM1 SE 90 4 22 174 B&W CDM7 1.000 A combination of serious welly and physical elegance; a basic lack of midband smoothness rather let the side down 22.97.29 87 8 98 4 **B&W Matrix 805 V** 1 095 Stylish, remarkable imaging, good balance and low colouration 33 33 21 30 26.96.26 88 4 20 167 1 B&W Matrix 804 1.695 A great all-rounder which combines exceptional bass extension with fine sensitivity 44,100,56 . 87 8 20 81 4 B&W Matrix 801S3 3.995 Lacks transparency and the drama of the best dynamics, but acoustically a tour de force . 92 5 180 Exciting but very upfront-and-in-yer-face sound. High sensitivity, fine build and good dynamic drive 26.92.32 28 . 4 Cabasse Farella 400 950 250 A great miniature at a very competitive price. Sound is lightweight but very coherent, with a fine overall balance 17, 35,5,21 87 8 45 170 1 Castle Isis 177 500 A beautifully finished compact floorstander with a decidedly forward but communicative sound. Try before you buy 17.76.20 . 86 6 45 Castle Kendal Carbon fibre cone gives lovely, subtle midband but treble is a bit dull and bass a bit thumpy; lovely cabinet work 21.84.25 87 8 30 . 174 Castle Severn 2 539 Castle Avon 730 Lovely box and lovely voices from carbon-fibre composite cone 22.91.28 . 85 8 22 1909 164 20.96.33 Handsome big-sounding floorstander, great value and dynamic midrange 88 8 28 160 Castle Harlech Castle Howard S2 1.200 Ably fills the gap between Chester and Winchester; has a rich, laid-back balance 26.104.41 . 90 8 40 132 Celestion 12i 119 Not without virtue, but in the long run the relentless enthusiasm and mid-band colourations can become wearing 19,31,21 88 6 45 179 Celestion 23i 300 89 6 30 177 Cosmetically flawed, but the bottom end has fine get-up-and-go, and works well with dance tracks 24 86 27 Celestion A1 Rich, warm and laid-back, but a true quality sound; lovely build 24.41.35 Full scale, big sound from ultra-elegant floorstander. Smooth and slightly laid back presentation 89 6 Celestion A2 1500 24.93.39 . 22 180 Cerwin-Vega VS10 350 Not very refined but extremely ballsy; these rock boxes have no shortage of gung-ho 33 70 29 95 6 37 1758 155 Chario Syntar 100 249 Pretty with a pleasantly easygoing balance, but not the most communicative or exciting sound around 18.32.27 87 6 45 170 Chario Academie 25.40.31 84 40 180 1650 Pricev Italian stand-mount, has high class sound and appearance. Solid walnut enclosures 8 Dali 104B 370 Lively, rich sounding and communicative. Shame about bland styling and dull balance 22,86,27 93 4 28 1657 152 22,97 32 A big bruiser at a tempting price, Dali's 'no-frills' 606 sounds refined and polite, but also packs some punch 4 **Dynaudio Audience 5** 400 Follows the Dynaudio tradition for fine midband transparency, but the overall timbre is a bit thin and cold 20,31,26 85 4 40 177 Dynaudio Audience 50 This compact stand-mount doesn't look big, but sound quality can match many models at twice the price 4 30 174 **Dynaudio Contour 1.8** 1.842 21,95,29 4 Wonderful voice-band delicacy and loads of deep bass from a very elegant and compact box 85 20 167 . **Eltax Linear Response** 249 A curiously dumpy shape, this smooth and laid back performer is very easy on the ears, with fine tonal accuracy 25.35.32 85 4 177 40 . 499 85 Enos ES12 High quality luxury stand-mount has great midband and stereo imaging 20 38 25 8 45 1823 160 **Epos ES14** 675 Substantial stand-mount delivers delightful midrange focus and delicacy with good bass control 23,49,29 87 8 25 98 Epos ES25 1.655 Handsome floorstander with a rather uneven and bass heavy balance 24.90.35 . 88 6 22 . 1346 143 **Faraday Siren** 445 High mass concrete cabinet is let down by imbalance of ageing driver combination 25,27,46 90 4 48 94 Gale 2i 140 Unspectacular sound and appearance fail to help this solid little miniature stand out from the crowd 22,40,27 88 7 40 170 160 Terrific treble and upper-mid but coloured and cuppy lower-mid and bass. A mixture of genius and grot 86 90 Genexxa Pro 14.27.14 8 179 **GLL Imagio IC130** 500 Lots of speaker for the money, but sound is decidedly dull and shut in 22.112.29 88 4 20 1824 160 Heybrook Prima 2 159 Great openness, clarity, speed and timing. Sounds fresh and vital, though sometimes lacks scale and weight 6 20 29 18 87 50 179 **Heybrook Heylette** Attractive traditional-style near-miniature has fine bass-to-mid integrity, but dull and shut-in top end 19.5.30.20 89 6 45

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HI-FI LOU	DSF	PEAKERS (CONTINUED)	FLOORSTAND	TYGOR	EDANCE W)	FROM (SZ)	FREE (HZ)	OSE TO SPACE	CK NUMBE WALL	NUR
Product	Price(₤)			V	V	V	V	V	V	Z
Heybrook Heylios	389	Great all-round performance in a pretty package at a sharp price	24,36,27		87	6	25			
Heybrook Heylo	439	Good vocal reproduction, but sounds thin and bass seems an afterthought	23,73,19	•	88	8	30	•	165	58
Heybrook Quartet	649	Solid. large bookshelf model with good sensitivity and a lively, forward sound	24,41,22		90	8	48	•		
Heybrook Ultima	649	Has the bass wallop to justify its dual hi-fi/home cinema roles, but didn't get our listeners particularly excited	22,97,29	•	89	6	45	•		
Heybrook Sextet	1,299	Coherent and highly analytical, partly due to distinct upper-mid forwardness	27,90,20	•	88	8	25	•		
Heybrook Octet	1800	Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband	24,97,31	•	90	6	25		•	
Infinity Reference 1i	150	Although not to our tastes, this is a competent speaker, and decent material value	20,34,20		89	6	50	•	140	03
Jamo BX100A	350	Offering a cracking output for their size, these rock boxes can be a bit bright but have decent bass	31.5,54,28		91	8	40	•	175	-
Jamo Classic 8	400	A lot of speaker for the money; good when playing quietly, but boom 'n tizz character sounded crude	22,90,29	•	90	4	28	•	165	59
Jamo 477A	500	Very prettily styled, but build and sound quality are disappointing at the price	19,77,28	•	88	4	40	•	154	19
Jamo 507A	700	Exceptionally imaginative styling keeps the front view super slim yet still packs a punch. Glass top is a neat extra touch	22,94,37	•	88	3	40	•		
JBL LX2	250	Lively and invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm	22,40,27		87	8	40	•		
JBL L20	700	Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative	26,42,28		86	8	30	•	155	50
JBL SVA1500	700	A distictive Pro-style bi-radial horn tweeter, and the sound is quite a lot of fun, enlivened by a juicy bass thump	17.5,51,31		86	8	40	•		
JBL L40	1,000	Classic, large, stand-mount 3-way is full of vim and vigour, with a superb sense of balance	30,65,31		88	4	23	•		
JBL SVA 2100	1250	Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness	37,114,52	•	91	8	<20	•		
JBL L90	1,500	A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude	24,94,35	•	91	6	23	•	134	48
JM Lab Spectral 909.1	1,375	Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness	27,107,35	•	90	4	20	•		
Jordan Watts JH400	565	Piano-finish hexagon has controversial sound, with uneven balance but delightful mid	28,38,21		86	8	50		•	
JPW Mini Monitor	60	Ultra-cheap miniature works well in a limited way	18,27,17.5		86	8	50		• 178	81
JPW Gold Monitor	80	More informative than Mini Monitor — but fiercer too	18,27,17.5		86	8	50		• 178	82
JPW ML510	130	Lots of good-quality speaker for the price, but not an ideal match for cheap budget components	20,34,22		88	5	50	•		
JPW ML710	230	Good material value but disappointingly uneven bass — check out the 510s and a pair of proper stands instead	20,88,30	•	88	5	40	•		
JPW ML1010	400	A seriously substantial speaker for the price, and an obvious choice for those who like their music loud	22.5,115,40	•	91	6	25	•		
JPW Ruby 1	400	Very pretty but pricey luxury metal-cone miniature has good, if slightly edgy balance	19,32,21		87	6	55	•	157	2
JPW Ruby 4	1,000	Twin metal-cone main drivers improve the dynamic performance and bass extension, with little sacrifice in focus precision	22,94,26		88	8	25	•		
KEF Coda 7	129	Lovely open voice reproduction, but bass could be tauter; build tougher	18,30,23		88	6	50		• 178	33
KEF Coda 8	189	Outstandingly well-balanced, bass is deep but a little vague	20,32.5,29		86	6	28		178	34
KEF Coda 9	299	Uneven budget 3-way floorstander with poor bass definition	20,86,28		89	6	30	•	178	35
KEF RDM One	499	Cute and tiny, nice midband but lack of bass warmth and weight	23,30,24		88	6	70		•	
KEF Reference Model 2	1,599	Classy, large floorstander that has massive headroom and clean mid-to-treble, but limited deep bass for size	23,103,34	•	89	4	30	•		
Kelly KT3	1,200	Super high sensitivity, this hefty floorstander sacrifices smoothness to dynamic realism — to very good effect	25,95,36	•	95	4	28	•		
Keswick Audio Aria II	379	Confident and dynamic sound, if a little crude and shut in	21,42,24		89	8	20	•	140	15
Keswick Audio Torino	999	Good value, lively contender with distinctive shape and styling. Goes loud and deep but could be smoother	18-26, 93,28	•	90	4	20	•		
Linn Keilidh Passive	750	Stunning timing and coherence, and awesome bass drive	20,83,28	•	87	4	22		• 155	52
Linn Kaber Passive	2,000	Dry, bright balance emphasises dynamics and transients, but can sound unforgiving	20,90,28	•	87	4	25		•	-
Living Voice Auditorium	1,500	Pretty, compact floorstander has wonderful coherence, high sensitivity and fine dynamic integrity	21.5,98,29	•	91	4	25	•		_
Magnat Vintage 720	1200	Slightly crude in some respects but lots of heart, fine scale, decent dynamic coherence and integrity	29,113,32	•	88	4	20	•		_
Mission 700	130	Both in size and sound, a lot of speaker for the money. Good bass weight and extension and goes loud with ease	18,34,26		87	8	40		•	_
Mission 731 PRO	140	Cautious balance makes a fine match with budget equipment. A classy baby for smaller rooms	17.5.31.5.20		89	8	55		•	
Mission 750LE	250	Fabulous cosmetics and a great midband carry the day, though size will out and bass is inevitably limited	17,28,27		86	7	45		•	
Mission 733i	330	New tweeter gives this floorstander a more open sound; a good all-rounder that doesn't sound as big as it looks	20.5,88,30	•	88	8	45	•		
Mission 752 Freedom	578	A beautifully judged compromise in the art of combining presentation with a decent sound, and a lively midband	December 197	•	89	8	45	•		
Mission 752 Freedom	-	Great styling. New, more restrained tweeter reveals fine midband dynamics	21,90,31	•	89	4	40	•		-
	798	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s	-	88	4	40	•		H
Mission 754 Freedom 5	1,298	Tall but exceptionally elegant floorstander gives fine midband projection; goes loud but limited deep bass for size	22,111,31	•	88	Maria Control	30		•	-
Monitor Audio Monitor 3	400	An exceptionally discreet floorstander; sonically uneven, it's capable of fine results if used in a sympathetic system	16,91,21	•		5			-	
Monitor Audio Monitor 4	500	An oddball balance but a nonetheless entertaining sound, and a good looking real wood box at a realistic price	20,87,24	•	84	6	23	•	100	1
Monitor Audio MA700 PMC	700	Good-looking luxury compact with all-metal diaphragms, lovely midrange, but occasionally edgy	22,35,26		89	8	45	•	166	1
Monitor Audio 702PMC	700	A good all-round stand-mount with that intimate midband focus which seems the preserve of metal cone main drivers	Marie Control		87	8	30	•	* 100	00
Monitor Audio MA703 PMC	800	Lovely but pricey floorstander has up-front, coherent 'shiny' sound	20,89,27	•	88	8	50	•	182	
Monitor Audio Studio 12	1,000	A real looker, but sound and content are a bit on the small side for the price	17,92,20	•	90	8	28	•	1349	J
Monitor Audio 705PMC	1400	Beautifully finished compact floorstander with fine midband coherence, but limited bass and top end	20,94,28	•	89	4	25	- N	•	_
Mordaunt-Short MS10i	140	Up front, bouncy and a whole lot of fun	18.5,30.5,20		86	8	50		• 178	
Mordaunt-Short MS30i	275	Slightly shut-in and coloured quality is offset by fine bass and impressive communication	25,43,28		90	8	28	•	166	2
Musical Technology Kestrel SI	-	Brighter and drier-sounding than the standard Kestrel (and not the better for it)	20,84,19	•	84	5	50	•		_
Musical Technology Harrier	400	Very pretty package, good measured performance and even sound. Sensitivity is low, and dynamics limp	25,80,23	•	86	8	25	•	166	3
Musical Technology Condor	1,000	Lots of clever ideas in a compact floorstander, which places transparency and smoothness ahead of dynamic drama	25,91,23	•	85	4	28	•		_
Musical Technology Hawk	1250		0-36,93,24-38	-	87	5	23	•		
laim Intro	660	Great dynamic range and info retrieval, but thin, lacks warmth	24,89,27	•	89	6	30	•		
Naim Credo	1,060	Very involving but the sound is rather forward and cold. Good clarity, but some coloration and a lack of richness	24,89,30	•	88	8	28	•		_
Naim SBL Passive	1,970	Lively and punchy – smoother but more upfront than before	27,89,27	•	88	6	25	100	• 135	2
Neat Mystique Mk2	575	An elegant package which delivers a fine overall sound quality; some might find the top end too insistent	20,86,18	•	85	6	23	•		
leat Petite II/Gravitas	2,000	Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound	23,105,40	•	85	6	25	•		
Origin Live Conqueror	1,650	Chunky floorstanding 3-way has lovely cabinetwork and lively sound, but limited deep bass	24,94,27	•	88	8	30	•		
PMC TB1S	430	Pro-audio version of TBI	20,41,30		87	6	40	•		
PMC TB1	410	A classy , laid-back performer that likes going loud and loves the bass guitar	20,40,31		87	8	45	•	183	0
PMC LB1	935	Delightful smoothness and transparency, though bass and treble are both limited	18,53,25		89	4	33	•		
PMC AB1	1,496	Lovely panel-like transparency, slightly shut-in balance, needs a big room	26,79,43		89	6	22	•		
Polk LS50	800	No enthusiast tweaks here, but powerful and beautiful balance	27,83,29	•	89	8	25	•	115	5
									-	

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		0.1	PEAKERS (CONTINUED)	FLOORSTAN KO(CM)	-	OEDAN B/W)	_	PREE (HZ)		CK NUMBER WALL	-
į		Price(£)	Comments		_	-					4
ä	Polk LS70	1,200	High sensitivity, but balance has too much midbass boom; mid-top is laid back	31,94,37	•	000	- Direct		•	1084	-
÷	Proac Response 2.5	2,700	For aspirant high-enders looking for seriously good conventional boxes, this speaker should be first port of call	22,107,25	•	0000	- 100	-	•	145	1/
i	QLN Signature	1,000	Attractive pyramidal stand-mount with heavy, laid-back balance but remarkably unboxy sound; superb stereo	27,37,36	•	200	100	-	•		
÷	Quad ESL-63	3,450	Classic electrostatic lacks punch, but has strengths some can't live without	66,93,27	•	-	-	-	•		
t	Rega Kyte	198	Has splendid timing and coherence, sounds very explicit and informative	19,31,19		87	-	-		•	
	Rega EL8	298	Kyle drivers in compact floorstander gives more bass but less coherence	17,72,20	•	Better	- 100	5000		1576	,
Š	Rega ELA Mk II	498	Pretty and smooth, the latest incarnation has a superb midband and excellent communicative skills	30,80,20	•	-	1000	-	•	1578	-
	Rega XEL	1,040	Looks and sounds great: balance bright but even, with delightful coherence and timing	20,82,30	•	100	- paren	10000	•	1083	
ŧ	Rehdeko RK 115a	1,700	Single-driver system has limited bandwidth and obvious coloration, but wondrous dynamic and temporal coherence	34,42,27		95	1000	-		140	
ĕ	Revolver Colt	139	A good all-rounder, if a little bland, and excellent value for money	30,19,22		88	- 10-	-	•	1407	-
÷	Revolver 250	250	A nice price for a floorstander, but over-bright sound balance has potentially fatiguing consequences	21,85.5,25	•	-	- 500	-	•		
ĕ	RMS Revelation Series 1	1,299	Innovative metal-box compact with integral port/stand — clean with good timing but very laid-back balance	20,99,24	•	-	-	- Ministra	•		
ŝ	Rogers GS1	179	Classy looking small box with equally classy, if slightly over cautious sound	19,30,17		85	- 600	-	•		L
	Rogers dB101	250	Style par excellence, this shapely sub-miniature is fast and agile but lightweight and forward: great voices; lacks bass	20,26,20		88	- 100	-		•	
÷	Rogers LS3/5A	699	Clever AB1 stand/subwoofer helps the classic 3/5A monitor give its best shot	19,31,17	•	1000	100	-	•	1354	4
	Rogers C6/28	1,399	Large floorstander with carbon-fibre tweeter. Sounds much better than it looks, especially through the midband	25,103,29	•	190	-	-	•		
	Roksan ROKone	595	Large stand-mount is musically very communicative if a little coloured	21,45,33		89	-	2007		1834	-
	Roksan Ojan 3 Black	795	Squat, stylish and black, great bass extension and somewhat uneven balance	28,76,46	•	- 000	100	-	•	1082	1
	Roksan OJ3X Black	995	Innovative low-line, 2-way floorstander with decoupled tweeter; great bass and fine dynamic range	28,79,46	•	84	100	0.50	•		
	Royd Minstrel	275	Not much wellie or loudness but fine coherence and timing, a bit bright	18,69,12		86	1000	-	•	1167	i
	Royd Doublet	485	Great value compact floorstander; lively and very informative, if a little uneven	18,93,19	•	90	4	28	•	183	l
	Royd The Sorcerer	595	Extremely musical and communicative speaker that's fun to listen to. Aesthetics could be better, though	20,31,18		86	-	35	•		
	Royd Abbot	695	Dynamic and fine transient qualities are hampered by a rather coloured mid-forward balance	20,81,30	•	90	8	43	•		
	Ruark Sceptre	599	Graceful 'traditional' cabinetwork with classy veneer and shiny gilt fixings, hampered by a rather wayward sound balance	21,38,31		87	8	40	•		
	Ruark Talisman II	749	Less ideologically committed than some, strength lies in fine all-round coherence	23,84,32	•	88	8	30	•		
	Ruark Crusader	1,599	Elegant luxury 3-way with wonderfully even-handed, if rather laid-back balance	24,94,31	•	85	6	22	•		
	Ruark Equinox	1,849	The primary strength of this speaker is its ability to vanish behind the music	25,88,34	•	2000	1000	- Contract	•	122	,
	SD Acoustics SD3R	649	New SD3 has the agility and charm of a quality miniature, good bass and low sensitivity	20,38,30		87	100	0000	•		
	SD Acoustics SD5	1,549	Bass suspect but forward midband is delightfully smooth. Has ribbon tweeter	20,110,30	•	-	-	-	•	108	1
	Sequence 400	329	Clever hang-on-wall panel is well voiced, though bass isn't too great	25,100,7		86	100	2000		•	ĺ
	Shahinian Arc	1,875	Occasionally wonderful small floorstanding omni; bright but coherent and revealing	35,69,25	-	88	-	550000	•		į
į	Silverado Raider	695	Beautifully built audiophile compact, neutral if bright, tough work for amps	20,40,25	-	83	-	-		•	į
	Spendor 2030	599	Discreet slimline floorstander with delicately coherent, laid-back sound	18,89,27	•	200	1000	-	•	183	
	Tangent Monitor 5	80	An uneven performer best suited to small rooms and generous volume levels	17.5,27,18		83	100.0			•	2
		100		9.5,75.5,22	E .	-	-	000			
	Tangent Monitor 9	150		A CONTRACTOR OF THE PARTY OF TH	3	(0)	100	-			i
	Tannoy Mercury M1	120	Sounds much bigger and more expensive than it is. Solid, tuneful bass, wide open soundstage with excellent imaging	17,30,20		87	100	-	•	•	
t	Tannoy Mercury M2	140	A fine all-rounder with big box and deep bass for the price; could be sweeter and tighter	20.5,38,28		87	100	1000	•		
	Tannoy Mercury M3	230	Good-looking fine value floorstander is very neutral and evenhanded, with fine midband but weak dynamics and drive	No. of the last of	•	-	-	the state of the s	•		
	Tannoy Precision P20	400	A creative and attractive design with time-aligned drivers, but the sound lacks sufficient excitement.	21,80,30	•	- 1000	-	-	•		
	Tannoy D300	999	Gorgeous-looking compact floorstander. And a fine all-round performer too	16-24,85,23	-	2015	-		•		
	Tannoy D500	1,999	Plenty of muscle and stereo, but short of poise and delicacy. Hard work for amps	31,93,34	•	200	1000	90000	•	135)
	Tannoy Westminster TW	6,600	These awesome horn-loaded speakers are remarkably controlled and impressive	large	•	99	-			•	
	TDL RTL3SE	450	A touch of boom'n'tizz might be to taste, but this is a lot of box for the money, with floor-shaking bass capabilities	20,91,39	•	200	1000	-	•		
	TDL CF200 Cotswold	650	Fine midband tonality and dynamic range, but less happy towards the bandwidth extremes	22.5,78,23	•	900		-		•	
	TDL T-Line 3	700	Plenty of bass and treble, but broad midband is rather repressed	20,97,38	•	-	_	-	•		
	Technics SB-M20	200	Well-balanced with natural perspectives and fine midband coherence, but bass is a bit boxy and uneven	20,32,23		70	1000	0.000	•	1413	
	Technics SB-M500	450	This model offers a clean, open sound, offset by midbass, heavy balance and low sensitivity	25,78,37	•	85	8	25	•	166	,
	Totem Model One	1,195	Utterly delightful but exasperatingly expensive luxury miniature sets the benchmark for its size	17,31,23		87	4	28	•		
	Vandersteen 2Ce	1,395	Elegant staggered baffle contributes to a refreshing freedom from boxiness	41,101,27	•	-		-	•		
	Wharfedale Diamond 7.2	140	A good-hearted, lively and up-front performer that's a little lacking in subtlety and smoothness	19,29.5,23		88	- 200	45	•		
	Wharfedale Valdus 400	200	Goes very loud with a minimum of amplification, but the sound is very thick and uneven, with a heavy upper bass	25,80,26	•	880	100	-	•	141	
	Wharfedale Valdus 500	300	These rock boxes can move plenty of air, albeit not as subtly as alternatives	25,108,26.5		-	- 100	700	•	175	
	Wharfedale MFM-3	350	Smooth broad midband gives fine voice rendition; bass could be better	22,89,28	•	10000	1000	500	•		
	ZYP AI	199	Cute metal cased micro-miniature is quite coloured but great fun	14,22,12		88	-	-	•		
	SUBWOOFERS	8	0	, , ,		100					J
	Acoustic Energy AE108S	299	Lots of loud subwoofer for your money, though ultimately more film than music oriented	50,42,43				20		•	1
	B&W ASW1000	499	Very competently engineered all round, and goes (unnecessarily) very loud	54,47,48				20		•	
	B&W AS6	500	Good material value with a fair amount of low bass from 100W active design	45,51,45.5	•		-	30		173	į
	Celestion CS135	139	Compact hideaway passive sub lacks deep bass for high sensitivity speakers	52,19,34	•	100	8	600000		• 1/3	-
		100			•	-	Ó	507		- DOO	
	Jamo SW600	530	Has some neat styling touches and remote control but deep bass is limited (active)	38,41,53			-	30		173	
	JPW SW60	349	A real heavyweight for 349, sounds clean and transparent, if perhaps a little understated. Usefully flexible	55,47,39		8	-	20		1720	,
	KEF Model 30B	499	Commendably discreet with good sense of timing but limited extension (active)	38.5,37,43	•	-		45		1736	1
	KEF AV1	2,499	Works well, looks great, shakes the windows but costs a lot and is bulky	56,43,50	•	100	-	45		440	
	M&K VX-7B	450	Baby of a big range; this active design delivers deep, plenteous bass but lacks transparency	35,25,37	•			40		1736	(
	M&K MX70	900	Justifies its cost and belies its diminutive size, with an agility that makes sense of the toughest material	25.5,46,35		-	-	25		•	
	REL Q50	375	Genuinely deep, clean bass from an attractively compact and cost effective package	40,41,42				20		•	
	Rogers AB1	549	Subwoofer-cum-stand designed as partner for LS3/5a or similar miniatures	19,57,16		82	8		•	135	,

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Stands & Supports

i-fi furniture is more important than you might imagine. The effect it can have on the sound of your system is far from subtle. Hi-fi furniture can be split up into two categories equipment supports and loudspeaker stands.

Though this branch of hi-fi is less governed by vigourous science than, say, amps and CD players, extended listening has proved that stands and supports do sound different — and make a difference to the

sound of the components that are placed upon them! Speaker stands come in a variety of sizes and styles to suit different models. Use dealer or manufacturer recommendations to narrow down the choice, but as a rule you want the tweeter at ear height.



HEIGHT (CM): Height of stand or equipment shelf. TOP PLATE SIZE (CM): Dimensions of top plate on speaker stand or equipment support

FILLABLE: Some speaker stands can be filled with sand and/or

lead to increase mass, which affects sound. WELDED: The better stands and supports are welded rather than bolted toget

NUMBER OF SHELVES: The number of tiers on an equipment

SHELF TYPE: Material from which shelves are made. Wood

generally means MDF.

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STANDS & SUDDODTS

STANDS	& S	UPPORTS	DP PLATE SIZE SEIGHT (CM)	NUM (CM)	BER OF S WELDED	FACTS, SHELVES	BACK NUM	UE NUMBER
Product	Price(£	E) Comments	V		VV	V	V	VAL
Equipment Supports								
Fi-Rax R4	399	Lively, exuberant sound, slightly weak bass				5	Glass 1	1633 151
Frameworks H500/H175	404	Two-shelf stand and isolation platform combo in tubular steel that made a spectacular impression on audition	70	52,34	•	3	Glass	166
Mana Acoustics Ref. Table	350	King of its type, angle iron, chipboard and glass combine to make a significant difference to sound quality			•	1	Glass	147
Mana 5 Tier Sound Table	600	Infinitely upgradeable. Persuasive and thrilling glass and angle iron design that adds speed and bandwidth to components upon	it		•	5	Glass 1	1633 151
Optimum Int 2000 OPT490	299	25kg stand with shelves sandwiched between variable height tubular uprights. Sounds smooth and relaxed with sturdy bass	50	60,40		4	Glass	166
Quadraspire Q4	250	Easy to live with, and tonally neutral				4	MDF 1	1633 151
Sound Organisation Z038	135	Too lively and lacking order — but cheap	50	84,40	•	5	Wood 1	1633 151
Sound Organisation Z560	160	A mix of welded and bolted members gives good structural integrity. While performance is not up with the best, it's great value	90	46,36		5	Wood	166
Soundstyle Select 6105	300	Respectable sonics, structurally solid and smart				5	Glass 1	1633 151
Soundstyle Finewoods W10	320	Veneered shelves clamped between tubular uprights that delivers with classical material	82	48.27		4	Wood	166
Stands Unique Sound Tower	289	Wooden uprights combine with glass shelves to provide a fresh, forward sound, but bass could be quicker	81	72.42		5	Glass 1	1633 151
Target B5	175	Free of colorations, fine grip and good value			•	5	Wood 1	633 151
Speaker Stands								
Alphason NC I	45	Filled single-column design without threaded spike holes that's appropriate for non-critical applications	40-60	16.16			1	373 146
Alphason NCII	84	Tall, slim and elegant, though sound and value are unexceptional	40-60	17,17				159
Alphason Titan	125	Excels in the midband and allows voices to come across in a detailed and expressive fashion	40-60	16,16			1	373 146
Apollo AZ6	80	Fine engineering value, but sound is unexceptional and top-plate small	66	15,13				159
Atacama BD21	55	Good-looking and good value, but doesn't match the SE24's sound quality	56	15.17				159
Atacama SE24	70	Stands out from the budget crowd because of the consistency and overall quality of the performance	61	19.5.17				373 146
AVF Tower 400	35	Ridiculously cheap and much better than no stand at all	54	17,20				159
Kudos S50	100	Better sound than the budget stands, particularly at the bottom end	60	15.21				159
Kudos S100	270	The best all-round stand around Probably	63	15.21				159
Mana Soundframes	125	For use under floorstanders and equipment racks, these make music effortless and natural, can be stacked for greater effect	5		•		1	373 146
Revolver RS1	70	A good blend of performance and appearance for the price	53	18.18				159
RMS/Stands Unique Vivus	349	Pricey carbon fibres give ultra-clean sound with exceptional voices	50	N/A				159
Stands Unique HP	220	Real wood disguises high performance tuned technology	59	22,23				159
Target R1	280	Truly high-mass four-pillar design with superb weight and speed, giving music delicious attack and outstanding imagery	53	15,21			1	373 146
Target TR60	68	Lively, dynamic midrange and detailed treble from a less-than audiophile oriented twin column design	60	15.15			1	373 146

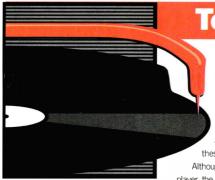
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Tonearms

be supplied with a matching tonearm, and often include a 'starter' cartridge. Still better quality is found at higher prices among the separate motor units and tonearms. Careful partnering and set-up is essential for these components.

Although the turntable is the most important part of a record player, the tonearm is the second most important, and the quality of



There are three basic types of arms listed in the key and each has its strengths, but pivoted designs are the most popular, for reasons both practical and economical.



EFFECTIVE MASS: This relates to cartridge compliance. Generally high mass arms are suitable for low compliance cartridges and

PARALLEL TRACKING: An arm which allows the cartridge to

track the disc in a linear fashion.

PIVOTED: Arms which allow the cartridge to describe an arc as

they traverse the record.

UNI-PIVOT: Pivoted arms with a bearing that allows movement in

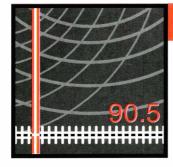
two planes.

EFFECTIVE LENGTH (cm): Length of arm from bearing to

ADJUSTABLE HEIGHT: Important for accurate cartridge set-up.

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	TONEAR	RMS		EFFECTIVE MASS	EFFECTIVE LA PIVOTED	SUSTABLE HE	K NUMB.	NUMBER
	Product	Price(£)	Comments		V	$\mathbf{V} = \mathbf{V}$	V	\mathbf{V}
4	Kuzma Stogi Ref	1,250	Large, solid and well-made arm, gives exceptionally clear sound with just a hint of brightness	High	•		•	79
4	Linn Ekos	1,500	Superb, state-of-the-art design which builds significantly on predecessor's strengths	Medium	•	229	•	67
B	Moth Arm	95	The ultimate budget arm? Refined, sweet, detailed and natural	Low		237		60
\boldsymbol{B}	Rega RB300	174	Despite its modest price it sets exceptional standards and could be used on many high-end turntables	Low	•	237		60
4	Roksan Tabriz Basic	275	Targeted at the Xerxes, this is a good alternative to the Rega arm in many cases — a touch bright though	Low	•	240	•	91
4	SME Series IV	983	Superb engineering and finish with a finely balanced sound, impressive stereo focus and low coloration	Low	•	233	•	60
4	SME Series V	1,461	Excellent in all respects, this arm arguably sets the standards for pivoted arms, regardless of price	Low	•	233	•	60



Tuners

he radio medium may have at a lower profile than TV, but in areas outside pop music the BBC service is the envy of the world. Live concerts rival all other sources from a hi-fi perspective. Though tuners might seem something of a hi-fi afterthought, the task they discharge is far from simple, since it requires the skills of RF (reception) and audio (signal processing) engineering. The importance of the former will depend on reception conditions, unless you get radio via cable, but a high-quality aerial system is well worth having. Tuners come in two basic

types. Analogue models tune gradually and can have analogue or digital displays; they are often preferred for sound quality. Digital tuners offer convenient automatic tuning facilities and pre-set memories.



WAVEBANDS: Only the FM (VHF) bands give stereo hi-fi sound, though AM (MW & LW) are useful for receiving certain transmissions in the UK.

PRESETS: Number of station frequencies that can be stored. RDS: (radio data system) was originally designed for in-car

applications. Basically RDS tuners can identify and display the name of the radio station being received, as well as prioritising traffic announcements

REMOTE CONTROL: Couch-potato friendly.

SIGNAL STRENGTH METER: Indicates strength of signal from

aerial, useful for aligning your 'twig' during installation ROTARY TUNING KNOB: Experience has shown that this analogue throwback is ergonomically far superior to the buttonbased approach

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Tuners			WAVEBANDS PRES	SIGN REM ETS	AL STRENGTH OTE CONTROL ROS	Y TUNING METER	BACK NU KNOB	SSUE NUMBER
Product	Price(£) Comments		∇	∇	V	V	\vee
AMC T7	130	Performance adequate but price is sharp, especially with remote control. Some hum	FM, M	30				166
Arcam Alpha 7	230	Indifferent RF performance but a touch of audiophile sound quality with clean, strong signals	FM,M,L	24				166
Arcam Delta 280	300	Fine sound quality marred by mild synthesiser whine; RF performance only average. Remote £60 extra	FM	20		•		120
Audiolab 8000T	800	Unusual combination of fine sound quality and RF performance (inc AM), and superb ergonomics	FM,M,L	39			•	1254 142
Denon TU-260L	120	Careful minimalist design promises a surprisingly open and vivacious sound	FM,M,L	20				93
Denon TU-425RD	200	A fine all-rounder with advanced RDS, good RF performance and decent sound. Remote extra	FM, M	40				166
Harman/Kardon TU950	200	Bulky but effective, delivering fine RF performance and good sound for the price	FM,M,L	30				166
Linn Kremlin	2,600	Controversially good sound at a very high price. The reviewer's saving up but you should check it out for yourself	FM	80	•	•		1254 142
Magnum Dynalab FT101	825	Although fairly expensive given its minimum set of facilities, its excellent sound provided ample compensation	FM					72
Micromega Tuner	750	Has digital output but even without the Micromega DAC, this provides exceptional sound quality. Looks good too	FM	39	•	•		1810 157
Mission Cyrus FM7	400	Open, generous soundstaging gives the music plenty of foundation, if a touch shut-in at the top	FM	29	•	•	•	1254 142
Musical Fidelity E50	300	Sounds involving if coloured and with a subjectively larger-than-life presentation	FM	20				1810 157
Naim NAT01	1,730	There may be better sounding tuners in the world, but we have yet to hear one	FM					1254 142
Pioneer F-504RDS	250	Cable-friendly with advanced RDS and excellent RF performance, slightly disappointing sound	FM,M	40	•	•	•	166
Rotel RT-935AX	160	Good ergonomics and sound quality at a realistic price, but limited features and RF selectivity	FM,M	20				166
Sony ST-SA3ES	250	Clean, lean presentation but needs a quality aerial to perform at its best	FM,M,L	30	•		•	1810 157
Technics ST-GT350L	130	Decent RF performance is offset by sound quality more typical of a mini/midi system	FM,M,L	30			•	1254 142
Thorens TRT2000	499	Not exactly neutral sounding, it nonetheless makes listening fun	FM,M	59		•	•	1810 157

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Turntables

pecialist turntables are what high fidelity sound is all about. CD players may offer silent backgrounds 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 tend to be supplied with a matching tonearm, and often include a 'starter' cartridge. Still better quality is found at higher prices among the separate motor units

and tonearms. Careful partnering and set-up is essential for these components, but many so-called 'sympathetic' combinations exist.

Because turntables are mechanical devices that are designed to retrieve modulations as small as a micron, engineering quality is of paramount importance. It is also the reason why turntables cost as much as they do, and require high quality support systems.



KEY

MANUAL: You do it all: put the needle on the record and take it off. AUTO: The record player does it all. SEMI-AUTO: Share the work: you put it on, it lifts it off. SPEEDS: In RPM to correspond with your platters. SUSPENDED SUBCHASSIS: Sprung suspension to minimise structural interference.

EXTERNAL PSU: Outboard power supply; generally indicative of higher-quality performance.

SUPPLIED WITH ARM: Many turntables require a separate arm to be fitted; if not, this tells you so.

SUPPLIED WITH CARTRIDGE: Most turntables do not come supplied with a needle.

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TURNTAB	LES		MANUAL	SUSPENDED WITH SUPPLIED WITH S	ACTSBACK ISSUE NUMBER Y CARTRIDGE H ARM
Product	Price(£	c) Comments	V		
Clearaudio Reference	3,990	Opulent beast tested with Souther TQ-1 arm. Tends to gloss over detail with a fizzy character but is quite bold	•	33/45	1328 144
DNM Rota 2	5,600	Tonally slightly bleached, but extracts detail like few others. Works well on its own table		33/45	1328 144
Dual 505-4 UK	250	Consistent sounding and well isolated turntable. It is slightly lacking in oomph		33/45	• • 103
Kuzma Stabi/PS	1,950	(Tested with Stogi Reference) Solid oak plinth; sound is very clear, detailed and extended		33/45	91
Linn LP12 Basik	1,100	Trails the full LP12 significantly, but pace, rhythm, timing etc still top rank		33	• 103
Linn LP12 Lingo	1,750	The classic reference is improved by the Lingo, but charming character remains		33/45	91
Michell Gyrodec	875	Sweet and natural-sounding player, well matched to Rega RB300 arm		33/45	55
Moth Kanoot	329	Rather coarse-sounding deck that requires decent isolation and comes with a Rega RB300 arm	•	33/45	• 164
Notts Analogue Spacedeck/A	rm750	No frills, just a first-rate, outstandingly natural-sounding deck that will last forever		33/45	159
Pink Triangle Anniversary	2,500	Possibly the most detailed, clear and neutral-sounding deck around. Likeness to master tape is uncanny		33/45	91
Pro-ject 2	300	Remarkably effective at the price with decent timing and a generally well defined sound		33/45	• • 164
Pro-ject 6/Sumiko	850	Don't think of this as a mid-price deck with a good arm, but as a scaled-down Oracle Delphi – it's that good		33/45	138
Rega Planar 2	214	A remarkable product at the price, surprisingly articulate and confident		33/45	• 48
Rega Planar 3	274	The '3 sounds musical in a balanced and coherent manner, needs decent isolation and suffers a little pitch instability		33/45	• 164
Reson RS1	600	Supplied set-up and ready-tuned, this unconventional deck is packed with mid-band detail		33/45	159
Roksan Radius 3/Tabriz zi	890	Elegant-looking turntable with a tidy, ordered sound. Bright and breezy if a shade lightweight		33/45	159
SME Model 20A	4,863	Supplied with Series V arm. Engineered to last a lifetime, giving excellent stereo and detail retrieval	•	33/45/78	• 118
Thorens TD166 VI/UK/RB	400	Refined and solid sound with well-focused imagery; suitable for use with good MM and budget MC cartridges		33/45	• • 103
Thorens TD2001	700	Balances convenience and sound well, but deck lacks detail and bass could be better controlled		● 33/45 ●	• 159
Well Tempered Record Player	!,850	Intriguing and challenging. Musically it is not ideal, but has a limpid quality and a lack of artificiality that sets standard	ds	33/45	1180 136

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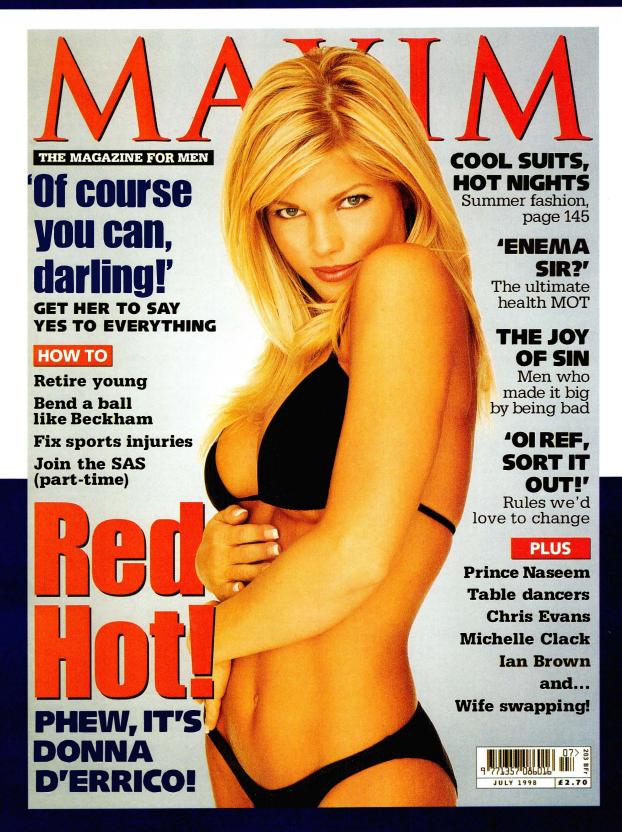
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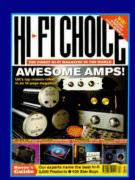


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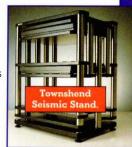
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While we've been having fun with prospective digital formats, HDCD has been making real progress where it counts: in software. We look at selection of players from Arcam, Copland, Krell, Classé and Anthem to see how different brands are using the technology.



STATEMENTS

It's high-end digital bonanza time next month. We're assessing both ends of the recording chain with the dCS Elgar

96kHz/24-bit ADC/DAC and an envelope stretching CD player from Naim, the new CDX. Plus: the return of Wadia with the high tech one-box 830 and the arrival of Meridian's modular 861 CD players. In the analogue corner is Kuzma's new budget turntable.

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THE SEPTEMBER 1998 EDITION OF HI-FI CHOICE WILL BE ON SALE JULY 23, 1998. DON'T MISS IT!

David Vivian picks out the best of British and puts together a system with a stiff upper lip. The competition had better watch out...

Vivian Scene

ower is nothing without control. Forget where I read that, but it seems an apt aphorism to use with Arcam's handsome new 100 Watts-per-channel, modular superamps, the Alpha 10 integrated and 10P power. I should mention straight away that this month's column is an unabashed Brit-fi rave. We still produce the best-value kit on the planet and with companies like Quad lining up mouth-

watering new product to blitz the global opposition, this isn't the time to be modest.

The beefy Arcam Alpha duo arrived while I was working my way through a tasty selection of new British speakers: the Castle Kendal. B&W CDM2SE and Kelly KT2. There didn't seem much point in keeping them apart. In fact, I could see a strong synergistic alliance forming between the muscular Arcams and super-sensitive Kellys. My regular Pioneer PD-S904/Musical Fidelity X-DAC CD set up would have been an interloper in this company. So under the pretext of aesthetic consistency

fine CD player and HFC Best Buy) I got Arcam to send me its top, single-box CD player, the Alpha 8SE.

It's fashionable to have a "kick-ass" product these days, not just a flagship that showcases technical merit but something with a sharply focused killer instinct; a predator that seeks confrontation with established quality benchmarks, then attempts to smack them silly. The Alpha 10 combo is just that. No exaggeration, there really does seem to be some kind of Armageddon vibe going down at Arcam's Waterbeach headquarters in Cambridge. You wouldn't be surprised if a little synth chip secreted in the binding of the publicity brochure played Land Of Hope And Glory as you opened the first page.

Some of the more rousing extracts: "We believe the Alpha 10 Series will change the way you think about your amplifier needs... the Alpha 10 and Alpha 10P amplifiers mark a significant point in the development of modern British hi-fi...these innovative, highperformance amplifiers can stand comparison with products costing significantly more." That's a gauntlet firmly flung earthward when you consider that the 10 integrated costs a cool £800 and the matching power amp a further £600. Throw in the £600 8SE CD player for good measure and you're looking at two grand before you've even considered speakers.

So let's consider the £700 Kelly KT2. They're 20 per cent smaller than the KT3s (Best Buy HFC 174) and give up some bass

Arcam Alpha 10/10P (but really because it's a damn A stunning double act with the right loudspeaker like the Kelly KT2.

extension. But they share the same tweeter, crossover and light-but-rigid Aerogel bass/mid driver cone material. Sensitivity is a stonking 95 dB/W/m, allegedly; and, naturally, there are twin binding posts round the back.

It's an ideal candidate for bi-amping, a technique in which one amp is used to drive the tweeter and the other the bass unit. As with the 8 and 9 Series amps, the 10/10P are configured with this in mind, and it's a move that, in this case, offers an unusually big boost in clarity and control. But that isn't the 10's unique selling proposition. A compelling mix of future-proofing, innovative design and user-friendliness is.

There's nothing unusual about the way the 10 and 10P, which share identical circuit architecture, develop so much brawn. Their massive toroidal transformers, rated at 800VA, are said to be able to swing current peaks of +/- 25 amps. Immediate future upgradability is served by three "smart modules" nearing the end of development now: a Dolby Digital or DTS Home Cinema processor, a five-zone multi-room distribution card and, for the power amp, a third 100 Watt amp channel to turn it into a pukka A/V powerhouse. Other options are in the pipeline.

Up to the mark?

The 10s are the best looking and most substantially-built Arcam amps to date, but the build doesn't quite measure up to the aspirational design values. If the 10 Series was a car it would be an Audi made by Renault.

> Not that you need to inspect the 10's uneven panel gaps very often: all the important functions (volume, inputs, CD basics) can be controlled from the handset. The integrated amp's alphanumeric LED display lets you know the score. Once you've heaved the black boxes onto your equipment standand plugged in the relevant cables, that's that. Sit back and enjoy.

> And enjoy you will with the Kelly at the business end. By itself, the 10 integrated is clean, refined and powerful but exceptional only in that it doesn't play music as romantically as the 9 or 8. Its presentation isn't cold but it is cool - tonally a little leaner

and brighter than Alphas usually sound, but with greater focus and resolution and oodles of poise. Nice but hardly nuclear.

The double act, though, has genuine entertainment value. With all 400 Watts pumping, everything seems to work better. Dynamic swings are more effortless, images gain solidity. Treble takes on brilliance but sheds grain and grit, bass not only has more slam and depth but greater speed and tonal colour. Rhythms are snappier, silences blacker, the big picture bigger. Startling.

The control and grip of these amps in biamped mode is remarkable. And that's just what you need with the Kellys. The KT2 has less bass output than the KT3 and sounds better balanced in small rooms, but its bottomend welly and extension are still prodigious. Small amps can make them go very loud but tend to lose the plot. The 10's grunt shines through but there isn't an ounce of flab.

Like it says in the ad: Power? Nothing without control. But power isn't everything. One of the other speakers gave the 10s a real fright. Tell you which next month.

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