

+ 100s of classified ads full of secondhand bargains!!!



The Klimax Twin is designed to match the Klimax Solo and sets new standards for single component stereo power amplification.

The Klimax Twin delivers unsurpassed signal pitch accuracy, thermal efficiency and reliability producing 125W into 80hms and 230W into 40hms of clean, silent power, all beautifully housed in a cool running unit that is only 2 inches thick and weighs less than 22 pounds.

The stunning compact casing protects, screens and stabilises the sensitive internal electronics and forms a heat exchanger with further diffusion being provided by a separate cooling

LOOKS CAN BE DECEIVING.

KLIMAX TWIN.

channel with back-up fan assist. Inside the Klimax Twin you'll find two isolated circuit boards, one the unique Linn Silent Power Switch Mode Power Supply and the second containing the board for the twin channel audio circuitry.

To experience the outstanding performance of the Klimax Twin in a stereo music

system or multi-channel audio-visual system visit your nearest Linn specialist, which can be found at www.linn.co.uk or call the Linn Helpline on 0500 888 909.





uthenticity has traditionally been important in the worlds of both hi-fi and music. These days, however, the inexorable rise of digital technology (specifically

digital signal processing) is challenging the old order. Aspiring Pete Townshends now practice their scales and chords using Fender guitars fed into 'digitally enhanced' amplifiers, with a host of different settings designed to emulate 'classic' amplification and effects pedals.

Surely there must be some kind of sonic sacrifices when changing from a fully valved Marshall to a Trace Eliot or Mesa Boogie at the flick of a switch? Well, according to my sources, not really. Whilst each of the classic emulated amps has its own sonic attributes that aren't completely recreated by these digital devices, they come pretty damn close. This makes me wonder whether we can soon expect a box of tricks that can reproduce the slam of a Krell muscle amp or the sweetness of a 4W directly heated triode valve amp - at the flick of a switch. You might think it sounds daft, but if you can store 24MB of information on a memory card the size of a postage stamp then why not?

In some respects we're already getting there. There are a number of Class D so-called 'digital amplifiers' on the market and the professional recording industry has been using quality digital effects units for many a year. Indeed, we've already got a raft of AV digital effects processors which recreate the acoustics of everything from Abbey Road Studio Two to your back garden. It's surely only a matter of time before some bright spark in the hi-fi industry makes a digital valve emulator!

The fact is that - as everything is done in the digital domain - the cost of loading audio systems with a multitude of effects and features is relatively low (after the initial development work has been done, of course). Take, for example, Pioneer's DVD-747A - despite being a relatively modest £950 machine (not much in the great, high spending scheme of 'real hi-fi'),

it plays DVD-As, SACDs, CDs, CD-Rs, MP3 CDs and probably croquet as well! In a couple of years' time the same money will buy you all this and digital recording too - and a FireWire port to interface with your PC.

The point is that - thanks to the joys of digital - anything is possible, and manufacturers are now falling over themselves to make it happen. All well and good, but isn't it losing sight of what listening to recorded music is all about? Staying in the digital domain until the last possible moment (i.e. the loudspeakers) can let you do just about anything - but do you really need to? Hi-fi, pro audio and AV is becoming wilfully complex - but to what end? Will eighteen different digitally recreated acoustics from your preamp do anything except make playing good old stereo vinyl far more fussy and complicated?

Of course we should embrace technology with open arms, but we shouldn't let it push us around. That's why a number of audiophiles are going back to basics. In one room they have their all-singing, all-dancing digital system for AV use, whilst in the other sit valves and vinyl. One does one job brilliantly, and the other another! Call it 'technological segregation' if you like, but for me at least, it means there's one system in the house I know how to switch on and off!



how we test the products

- Hi-Fi World has its own advanced test laboratory and acoustically treated listening room.
- Hi-Fi World has a dedicated in-house team of experienced listeners. We review thoroughly by extensive auditioning, rather than by quick-fire group listening tests.
- Hi-Fi World's engineering team designs a wide range of products in-house. No other hi-fi magazine is so expert and dedicated.

-	
£ ——— NICE PRICE -	Represents excellent value for money.
Excellent -	Superb sound, among the best available.
🗣 🕞 🕘 — VERY GOOD -	Well worth a listen.
ADEQUATE -	Room for improvement.
🖓 POOR 🔹	Seriously flawed. Forget It!
Half globes are that we feel a	e added for those products re between categories

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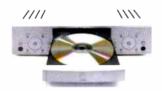
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reviews

systems

LINN CLASSIK MOVIE SYSTEM



This is the impressive AV answer to the superb Linn Classik audio system. Here is a one box, five channel amp and DVD player that also promises to deliver the goods with music.

digital players





The latest product from the new Exposure is this midrange CD player which Dominic Todd finds to be a bit of an eye opener!

MERIDIAN 507 CD PLAYER



David Price gets first crack at the latest entry level CD spinner from the digital experts.

amplifiers

PINK TRIANGLE INTEGRAL



Pink Triangle mark their return to the world of high end audio with this beautifully crafted integrated. Mani Sandher thinks Pink.

HEADPHONE AMPLIFIERS



Simon Pope gets his head round two audiophile headphone amps from Creek and Sugden.

UNISON RESEARCH P30K/C5P



This latest stylish combination from the Italian valve specialists attempts to marry transparency with power. Simon Pope discovers whether it succeeds or not.

loudspeakers

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Stirling floorstander comes under the stethoscope (or is that oscilloscope?) of audio doctor Noel Keywood. How will it fare?

TANNOY EYRIS 1 24

The Eyris I is the entry level model in the new 'wideband' series from Tannoy. Featuring an extended frequency tweeter it's intended to be ideal for the latest high resolution formats.

OPERA SP2

34

These slim and sophisticated floorstanders feature a beautiful solid hardwood cabinet with an unusual 'boat tail' curved back for extra rigidity. Simon Pope spends a night with the Operas...

MISSION m51

Check out these brand new, ultra stylish £300 standmounts from Mission in our exclusive review.

MJ ACOUSTICS PRO 50

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MJ Acoustics are the new kids on the bass block. How will their Pro 50 subwoofer compare with the competition?

ATC ACTIVE 10

Ever felt the urge to 'go active'? Find out what we think of ATC's latest powered loudspeaker.

tuners

TVOLI AUDIO MODEL ONE RADIO 58

Described as an audiophile quality portable radio, the Model One was designed by the late, great Henry Kloss. Find out what we think of it.

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accessories

ACCESS ALL AREAS 59

David Price and Simon Pope check out some of the latest gadgets and tweaks in the audiophile universe, including a 'plug in' sound enhancer, some magic film and a cardboard 'speaker!

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Noel Keywood hunts for the latest high res software and has to look harder than anticipated ...

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NEW ADVENTURES IN HI-FI



David Price cuts through the technobabble and scrutinises the latest 'high resolution' surround sound formats.



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SIMPLY SINGLE



Introducing World Audio Design's new integrated amplifier kit, using 2A3's in parallel single-ended configuration.

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85

David Price tries out Steinberg's brand new 'Get It On CD 3.0' CD authoring software.

INSPIRED THINKING? 86



David Price tries out Creative Labs' next big thing, the Inspire 5300 5.1 multimedia surround speaker system.

trade winds



AUDIO RESEARCH'S 'BUDGET' BULBS

In response to requests for Audio Research's renowned valve amps to be made available to a wider public, the company have launched two new products in the lower price bracket.

The new SP16 preamplifier is completely single-ended. It has five sets of inputs and is available as a line only (SP16L) or phono equipped version. There are two sets of main outputs and a tape out. The preamp also has a 12-volt trigger to switch on power amplifiers, plus full remote control of all functions.

Inside the SP16 there is the Audio Research construction quality found in their higher priced products. It uses six 12AX7 valves (three in each circuit). Other highlights are regulated power supplies consisting of eight high and low voltage regulators and a seventy-step, digitally controlled, analogue-switch volume control with precision tracking, represented by a horizontal row of twenty LEDs on the front panel.





The VS55 power amplifier, a sonic and economic match for the SP16, features a new open chassis design. Power is produced by two matched pairs of 6550EH beam-tetrodes and there are taps at the rear for both 4 and 80hms. Prices are £2199 for the SP16L (line-only input model), £2599 for the SP16 (inc. phono input) and £2699 for the VS55.

Absolute Sounds 58 Durham Road London SW20 0TW Tel: 020 8971 3909 www.absolute-sounds.com

ONCE MORE, IN UNISON!

This attractive new Unison Research product could be a valve amp bargain.The Unico hybrid



integrated amplifier, priced at £750, features a triode valve input stage, plus a solid-state Mosfet output stage producing a rated 80W per channel of continuous power into 8ohms. The power output Mosfets are fitted to a massive Ikilo heatsink for thermal stability and the amp is fully protected against overload by an automatic electronic circuit. There are five line inputs, an MM/MC switchable phono option and, like the rest of the Unison range, the remote control is a radiowave unit. The volume can therefore be adjusted from another room, should you so wish!

> UKD 23 Richings Way Iver, Bucks SLO 9DA Tel: 01753 652669 www.ukd.co.uk

ON ME HEAD, SON!

News reaches us of a new, affordable line up of hi-fi headphones from Sennheiser. The first two products in the series to be launched are both top models. The company claim the HD 497 at \pm 49.99 and HD477 at \pm 39.95 will perform equally well with both hi-fi and portable

applications. They feature neodymium iron magnets for efficiency, ultra-light diaphragms, and weigh just 130gms. There is a two year guarantee on the products. Two more models in the range, priced under £30, are to be launched soon.

> Sennheiser UK Ltd. 3 Century Point Halifax Road High Wycombe Bucks HP12 3SL Tel: 01494 551551 www.sennheiser.co.uk

ALL SINGING, ALL DANCING, ALL KNOWING!

A new monolithic, top of the range DVD player returns to the Denon line up. It has the same high quality build of the company's traditional flagship players like the monster DVD-5000, designed when battleship DVD players were a rarity Now Denon bring you an even more battleship-like DVD-A1 reference class DVD player. It weighs in at over 18kilos.

This beauty features DVD-Audio and THX-Ultra playback, as well as reading DVD-Video, CD/CD-R/CD-RVV, MP3 CD-R/RWs and JPEG photo discs. Although not bargain basement in price, with a list of features as long as a gibbon's arm, the DVD-A1 offers a lot for its £2,500 asking price.

New technology includes Denon's Digital Link digital output for 24/192 audio to a matching Denon amp making it apparently the first player available with a digital output for 24/192 stereo and 24/96 multichannel. Also new is its use of twin 14bit 108MHz video DACS with Noise Shaped Video.

For the audio side of things Denon's

AL24 Processing Plus uses no less than eight Burr-Brown 24bit 192 kHz PCM 1704 audio DACs and will also decode HDCD discs.There's also a "full and flexible" bass management system for DVD-Audio playback.

On paper, the construction is awesome, featuring multi layer casework, an alloy fascia and side panels, a sintered aluminium transport, internal use of copper and "organic" anti-vibration coatings!

Inside, the player has a three box, six block internal layout for isolating analogue, digital and video circuits and has multiple independent power supplies. It's available from the end of April - watch this space for a future review...

> Hayden Laboratories Hayden House Chiltern Hill Chalfont St. Peter Bucks SL9 9UG Tel: 01753 888447 www.denon.co.uk



trade winds

SIGN OF QUALITY



Those cable maestros, the Chord Company have a new top of the range interconnect on the retailers' shelves. The Signature RCA is described as a continuation of the process of development that led to the company's previous range topper, the Anthem.

Single runs of heavily silver-plated oxygenfree copper carry the Signal and Return. These are surrounded by Teflon insulation, which is wrapped as opposed to extruded. The Teflon can then be applied to the conductor at a lower temperature, which the company claim is a contributing factor to the tonal characteristic of the cable. There's an unusual screening system which uses a silver plated flat wire braid covered with an overlapped aluminium composite foil and surrounded by a conventional silver wire braid. The screen is not connected to the RCA plugs but is left 'fully floating'. Earthing connections are supplied with each cable and should be experimented with as the optimal configuration is said to vary from system to system. The Signature is available now with a retail price of £499.95.

> The Chord Company 30a Sarum Business Park Portway Salisbury Wilts SP4 6EA Tel: 01722 331674 www.chord.co.uk

next issue

here's a little taster of what we hope to bring you in July's issue

SUGDEN MASTERCLASS MONOBLOCKS

These top of the range amps from Sugden pump out 100W of pure Class A power. See what we make of them next month

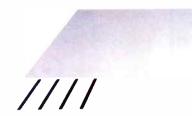
KEF REFERENCE 201 LOUDSPEAKERS

Next month sees the arrival at HFW of KEF's new entry level 'speaker in the flagship reference range. How will this much anticipated newcomer fare?

BUDGET INTEGRATED AMP GROUP TEST

Despite the market onslaught of AV there are still plenty of options for the two channel audiophile on a budget. We test out the class leading integrateds in the next issue.









David Price discovers Linn's brand new Classik Movie System is a brilliant marriage of high quality sound and vision.

t is to Linn's credit that it dared to make the original Classik. Looked at dispassionately, you may wonder what the big deal was - after all, it was just another 'one box' audio centre. But set in the context of a conservative audiophile separates market, and a tediously unimaginative 'lifestyle systems' scene, you can see why it caused such a stir. Here was a product with the performance of the former and the convenience of the latter, the result being greater than the sum of its parts. The Classik showed that you could have your audiophile cake and eat it, so to speak.

Still, I reckon the Classik Movie System is an even more important product. If the original bridged the gap between separates and lifestyle, so this brings the wider audio and 'home entertainment' gulfs together. Although the latter term doubtless induces shivers and vomiting in many hi-fi purists, the fact remains that there's a natural symmetry between sound and vision.

Retailing for £1,995 the CMS is a lot more expensive than the original Classik, but it does a lot more too. Its 80x320x325mm dimensions and 5kg weight are pretty similar, but inside you'll find a fully featured DVD player (which plays CDs too, obviously) and a 5.1 channel preamp with a host of facilities (which can also work in standard 2-channel stereo). There's also full Dolby Digital, Dolby Pro-Logic and DTS decoding, a high quality stereo radio tuner with 80 definable presets and a 5 channel power amp offering 40W (into 80hms) per speaker output.

All you need to do is add speakers, but you can also beef things up with the addition of external power amps (using the CMS as a preamp) or turn it into the centre of a fully fledged multi-room system. For example, this would let you play films in 5.1 channels in the main room, and feed a two-channel downmix of the soundtrack to other rooms around the house! Linn cater for all these possibilities, offering variously a new matching 5.1 Classik speaker system and the 5125 five channel power amp.

The unit itself is beautifully finished - and looks gorgeous even in its 1980s black! The control system is pretty intuitive, the left side ostensibly handling the disc transport, source and volume selection, while the other side takes care of DVD menu, set-up and track selection matters. The display is now an elegant bright blue fluorescent alphanumeric affair, and provides a useful addition to the onscreen display which handles all of the set-up menus. Via the remote you can get into the Speaker Setup page (which lets you specify small or large

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speakers, subwoofer operation, front, centre and rear position (a kind of 'surround sound balance control) and a test tone. There's also an Audio Setup option which, among other things, lets you output 96kHz PCM through the digital output and add dynamic compression for low level listening.

It's a veritable hornet's nest round the back. There's the usual preamp outs for front and rear left and right channels, plus centre and sub, plus matching speaker outputs from the power amp section, plus two SCARTs, S-video in and out, digital coaxial output (a welcome addition to the Classik!), RCA phono tape in and outs, AM and FM aerial connectors, a single auxiliary input and the usual Linn multi-room connectors. A front panel mounted headphone socket is a welcome feature.

Lauditioned the Classik Movie System in the context of a two channel hi-fi system. Its video capabilities are excellent, but what's the point if the sound is below par? To wit, I tried a range of audio CDs in its DVD drive and did some wave surfing with its AM/FM tuner. I used its internal preamp (in stereo mode) and front channel power amp outputs, driving my Mission 782

loudspeakers.

The CMS's CD sound is better than practically any separate DVD player I've heard (in 16/44 mode). Running its front channel preamp outs through my reference Cyrus 7/PSX-R amplifier gave an extremely natural, musical performance that - if anything - is slightly more full bodied than I remember the original Classik being. You won't get mind-blowing levels of detail or hallucinogenic imaging, but you'll still be amazed by its incredibly bouncy, enjoyable and bubbly sound. Better still, it's also very refined too.

Running through the CMS's own pre and power amps, things were no less impressive. Being a multi-channel amp in a small box, you wouldn't expect thunderous levels of power, but you do get a very taut, grippy and fast sound that retains the refinement of the source. There's a good deal of depth and space to the recorded acoustic, with strongly articulated stereo images and a fine sense of proportion. Dynamics are great given benign speaker loads this little box goes surprisingly loud with little sign of stress.

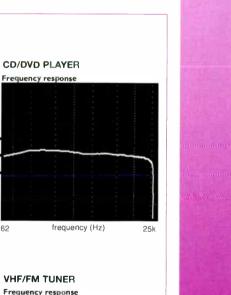
Like its audio-only little brother, the new Classik sounds far better than any budget hi-fi amplifier - you'd have to get into £500 plus territory

to really improve on it. In absolute terms, it's a little dry and lacking in tonal colour, and the addition of a separate power amp wouldn't hurt with less sensitive speakers, but considering what it does for the money - it's almost churlish to criticise. As you'd expect, FM and AM sound was excellent - streets ahead of the rubbish you get from your average one-boxers.

Without doubt, this is a genuinely important and special product - it will probably do more to bring audiophiles into the DVD fold than any other to date. I do have one question, however. Of course, the Classik Movie System plays DTS discs (with superb results), and it will also play the few 24bit/96kHz 'super audio' discs made to fit into the DVD video specification. It is not, however. DVD-Audio or SACD compatible yet. Rumours are rife that the CD12 will gain this functionality, so what of the Classik? Surely it wouldn't take a great deal of re-engineering to provide this feature?

Linn Classik Movie System £1,995

Linn Products Ltd. Eaglesham, Glasgow, G76 0EP Tel: 0141 307 7777 www.linn.co.uk



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World Verdict

> Another great crossover product from Linn, the CMS offers tremendously satisfying sound and vision.

MEASURED PERFORMANCE

The Classik produces a useful 40W per channel in stereo, rising to 64W into 40hms, so it handles modern low impedance loudspeakers quite well and will develop good volume.

The Auxilliary input had a peculiarly curtailed bass response that reached down to 145Hz (-1dB) before rolling off. Otherwise, distortion was satisfactorily low and input sensitivity usefully high.

The CD/DVD player had a subsonic roll off below 25Hz, but otherwise had a smooth frequency response that extended up to 20kHz (CD), our analysis shows. With a 24/96 DVD output that reached 48kHz, unlike so many players to date, the Classik produces extended bandwidth information and is a proper high definition player with potentially better-than-CD sound quality. Distortion levels were low, and all other figures normal, so this

section of the Classik worked well.

The VHF/FM tuner looked like a bit of an afterthought, with a treble peak and curtailed bass, meaning it will have a light and bright sound.

leve

(dB)

+0.5

0

-05

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World Radio History

The Classik falls quite a long way short of the performance of individual hi-fi separates, except for the main DVD player which was neat enough in all areas - but don't expect sledgehammer bass. It should sound fast and clean, all the same. NK

Power	40₩	
Frequency response Distortion (-30dB)	146Hz-54kHz 0.01%	leve (dB)
Sensitivity	270mV	+3
CD/DVD		0
Frequency response		-3
25Hz	z-20kHz/48kHz	
Distortion (-30dB)	0.1%	



frequency (Hz)







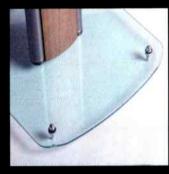




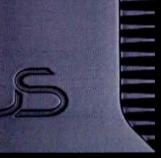






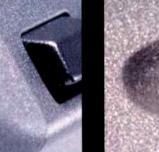




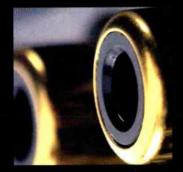












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Advanced Audio and Video Systems

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competition

HI-FI WORLD'S GREAT COMPETITION GREAT GIVEAWAY

WIN A SUPERB EXPOSURE ELECTRONICS 2010 CD PLAYER AND MATCHING 2010 INTEGRATED AMPLIFIER COMBINATION IN THIS MONTH'S COMPETITION

2

his month we've a real treat for our readers. The new line up of products from Exposure Electronics have taken the market by storm, offering superb sound and build quality. We've managed to procure a 2010 CD

0

player (reviewed in this very issue) and a matching 2010 integrated amplifier for this month's competition prize. Founded in

1977, Exposure Electronics will be a familiar name to many readers from their commitment to hi-fi over a period of twenty five years. For a company that have been in the industry this long it comes as little surprise that their new products meet the highest standards available at the price.

The first Exposure designs were amplifiers developed from the company's background in professional studio recording. Thereafter their philosophy had been to produce products that "combine class leading performance with exceptional value".

After a period competing with the best around with fast and powerful sounding amplifiers, Exposure trailed off production until Malaysian backing in March 2000 helped them relaunch into the audiophile limelight. The company started to design and produce a new range of products from scratch, including amplifiers, CD players and tuners.

First in this new wave came the impressive 2010 integrated amplifier, with its sleek no-nonsense look and high quality components, including use of the much admired Alps volume pot. The amp has six line inputs and the model we have to give away comes complete with a moving magnet phono stage. There's a pre out for future upgrading and a lateral MOSFET output stage ensuring a warm yet powerful sound.

The 2010 has a fast and exciting response, very much in keeping with the traditional Exposure sound, but with a nice, warm touch that is also very cohesive. Bass response is very tuneful, fast and deep and treble and midrange highly detailed. We summed up the amp thus: "Audiophilia at a sensible price. A big, generous sound that's cohesive and controlled. A rocking sound that's not for the faint hearted."

Exposure waited until 1997 before releasing their first CD player and the brand new 2010 builds on that first model. Using the same styling as the 2010 integrated amplifier, it features coaxial and digital outputs, an extinguishable display and remote control. Inside there's a brand spanking new 24bit/96kHz DAC mounted on a separate board and fed by a high quality toroidal power transformer. Good quality ancillary components are used throughout. As

CONGRATULATIONS!

4

...to Mr. Ian Smith of Frimley, Surrey, the winner of our April competition. An Audio Note Zero system is on its way to you!

far as sound is concerned Dominic Todd thinks it's a winner, having an immediate and deeply staged sound, saying "The 2010 has a very

exciting and forward sound that is totally involving."

And you, too, could be a winner! Entering couldn't be easier. Simply answer the questions below on a postcard and send it to the address below by May 31st. The first correct entry out of the bag will receive this cracking prize.

Hi-Fi & Computer Audio World Competition rules and conditions of entry

- 1. Only one entry per house hold.
- 2. Multiple entries will be automatically disqualified.
- Purchase of the magazine is not a pre-condition of entry.
 - No correspondence will be entered into.
- The Editor's decision is final.
- 6. No employees of Audio Publishing Limited, or of any companies associated with the production or distribution of the prizes may enter.

Competition Questions [1] In which year was Exposure

was Exposure originally founded?

- [a] 1997 [b] 1977
- [c] 2000
- [d] 1877

[2] The company's new backers are of which nationality?

- [a] Malaysian
- [b] Japanese
- [c] Chinese
- [d] Icelandic

[3] The 2010 integrated amplifier uses which type of volume potentiometer?

[a] Andes
[b] Alps
[c] Rockies
[d] Mendips

[4] In which year did Exposure make their first CD player

- [a] 1988 [b] 2002
- [c] 1998
- [d] 1997

June Competition Hi-Fi World Magazine Unit G4 Argo House The Park Business Centre Kilburn Park Rd. London NW6 5LF





After a short sabbatical Pink Triangle have returned with a new look, superbly built integrated amplifer. High-end addict Mani Sandher gives the Hi-Fi World verdict...

riginally founded in 1980, Pink Triangle quickly became established as a manufacturer of quirky high-end turntables (with pink platters no less!) and of the battery-powered 'Pip' preamp. Whilst the sound quality of these products was never in doubt, at times the build quality left a little to be desired and to a certain extent this reputation stuck with them.

Now, the re-launched and restructured company have hit back. Pink Triangle's latest and more conventional offering is the £3995 'Integral' amplifier. It will be followed soon by the matching 'Da Capo II' CD player.

The aesthetics and build-quality of the Integral are of a standard that earlier Pink Triangle products didn't match. It is housed in a gorgeous allaluminium extruded case, with a symmetrical array of source selector buttons either side of a centrally positioned volume control. When switched on, blue LEDs adorn the fascia, giving the Integral a decidedly fresh and interesting look. It's a shame then that the remote handset looks and feels so cheap. If Audio Analogue can deliver a stylish metal one with a amp costing £850...

At the rear of the Integral are a pair of balanced inputs, three pairs of phono inputs, two tape loops and one A/V loop. High-quality WBT speaker connectors complete the package.

Rated at 100W per channel into 80hms, the Integral is claimed to provide 200W into 40hms and 300W+ into 20hms. Remaining true to Pink Triangle's innovative and forward-looking design philosophy, the Integral sports a host of features: independent transformers, banked low-ESR reservoir capacitors, ultrafast soft-recovery rectification on each channel, full protection circuitry incorporating soft-clipping, and most interestingly, a parallel cascoded Darlington output stage. The latter allows the use of a faster, higher gain, more linear transistor, which should improve output stage non-linearity as well as reducing non-linear loading on the driver stage.

Eager to hear how all this innovation translates into sound quality, I connected the Integral to my reference system: Marantz SA-I (via Integral's balanced input), Wilson Benesch Chimeras, Analysis Plus Silver Oval interconnects and speaker cables and Kimber power cords. The Integral was placed on a Townshend Seismic Sink to reduce the affect of any external vibrations and was left playing music for a couple of days before any serious evaluation.

First impressions were very positive. The Integral has a gorgeously full-bodied mid-range and is especially mouth-watering playing vocals - being almost tube-like in this respect. On track 10 of Chesky's 'An Introduction to SACD', the Integral produced the full texture and tonal shading of Rebecca Pidgeon's voice without a hint of sibilance. Kim Cattrall sounded even sexier than usual reciting 'Little Dog's Day' on Hubby Levinson's 'Live at Red Rose Music Volume One' SACD. But not only vocals benefit from the Integral's fullbodied nature; instruments also



sound natural and smooth. The Integral reveled in the complex textures of Mike Oldfield's 'Tubular Bells II' CD, I've heard this music sounding muddled and confused through lesser equipment, but through the Integral, it was produced in an easy, non-fatiguing way that allowed me to focus on the music with no other distractions. Indeed, the Integral's mid-range performance is good enough to be compared to that of a single-ended Class-A amplifier, which is quite an achievement.

Tonally, the Integral is well balanced across the sonic spectrum, though perhaps slightly recessed in the treble. Certainly, it has no problem going low, it's massive power reserves obviously helping to drive my difficult Chimeras. The Integral took in its stride the low frequency rumblings that kick off 'A Thousand Years' on Sting's 'Brand New Day' CD. Sting's bass on 'Perfect Love... Gone Wrong', was produced in a full and deep way. My only slight criticism here is that it could have been tighter, adding more to the rhythm of the music. Not surprisingly though, Sting's voice sounded superb.

I could go on at length about the Integral's virtues. But how does it compare with my reference Pass Labs X1/X600s amplifier? Firstly, bear in mind that my reference amp's retail for some five times the cost of the Integral! In comparison, the Integral's main weaknesses lie in the areas of focus, depth and dynamics. The opening piano on Track 7 of the Chesky SACD should be placed to the far distant left of centre, with each note being clearly struck and slowly decaying thereafter. Through the Integral, the piano was more vaguely placed and each note less well defined, though the harmonic structure remained intact. Carla Lother's voice on this track was less focused at the front centre of the stage.

On 'Tubular Bells II', the numerous instruments should be spread out across the soundstage, each well focused from left to right and back to front. Again, through the Integral they were more vaguely placed and less clearly defined, especially front to back. Finally, Antonio Forcione and Sabina Sciubba's 'Meet Me In London' CD sounded flat and two-dimensional.

Track 6, 'Could You Believe?' starts with a complex and dynamic riff on Antonio's guitar. The Integral couldn't quite produce enough dynamic contrast between the leading edge of each plucked guitar string and the silent black background.

But I really like the Integral. It is a smooth and accomplished performer with a mid-range to die for and a tonally well balanced sound. If you will, it gives you an 'oil painting' of the music rather than a 'high-resolution photograph'. In terms of absolute sonic accuracy, your £4K may be better spent elsewhere. However, if you're after an amplifier that will lure you to sit down and listen to music for hours, I advise you to put the Integral high on your list. It excels sonically in many key areas, is aesthetically compact and pleasing, and is as well made as anything on this planet. 🔜 📥

Pink Triangle Integral £3995

Pink Triangle Partnership Ltd. Unit 226, Bizspace Lomond Grove London SE5 7HN Tel: 020 7703 5498

MEASURED PERFORMANCE

The Integral produces a useful 98W per channel into 80hms and nearly double into 40hms at 170W. It's enough to develop good volume levels in most rooms, with most loudspeakers. Since loudspeakers nowadays commonly use 40hm bass units it is the 170W figure that would be delivered in practice and the Integral can handle such current hungry loads easily enough.

Distortion levels were low, although not down at zero. However, this is not necessarily a bad thing; zero-distortion amplifiers were first designed in the late seventies, but they didn't sound any good. The Integral produces some odd-order

harmonics our analysis shows, but levels were low, reaching no higher than 0.04%. The amp should sound clean enough in practice.

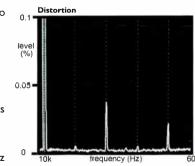
Frequency response was wide enough for SACD and DVD-A, running out to a high 150kHz. Down at the other end, subsonic response rolled down below 12Hz, enough to cover what is on CD.

With low noise and wide channel separation the Integral measured well in all areas. NK

Power	98watts
CD/tuner/aux.	
Frequency response	12Hz-150kHz

Separation	80dB
Noise	-92dB
Distortion	0.01%
Sensitivity	540mV
d.c. offset	37/17mV

World Radio History



HI-FI WORLD JUNE 2002

World Verdict

<u>କ୍ର</u>କ୍ରକ୍

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JUNE 2002 HI-FI WORLO

DINO

STIRLING WORK

Noel Keywood casts his eyes and ears over the latest version of the Stirling floorstander from the Yorkshire stalwarts, Castle Acoustics.

oudspeakers are both an art and a science. Castle consistently do a great job in balancing the two to produce loudspeakers that not only measure well but sound superb in a smooth, natural and unassuming manner. The artistry comes from balancing numerous subtle variables that affect a loudspeaker's sound, but cannot be measured. And one of the most important in Castle's case is their use of carbon fibre drive units. The floor standing Stirling has two of them to cover bass and midrange, with a tweeter sandwiched in-between. It's a compact floor stander that stands 870mm high, but is narrow at 200mm and not so deep either at just 230mm.

> Our review samples came in a dark teak veneer, making for a conservative, middle-England appearance designed to blend quietly into the home. Castle are known for the quality of their veneering and consequently offer no fewer than nine different finishes: Santos Rosewood, Teak, Walnut, Cheery Wood, Mahogany, Maple, Oak, Antique Oak and Black Oak.



It makes sense to get a small floor stander. You don't need a stand and they take up no more floor space. But the popularity of this slot in the market has attracted a sea of competitors and inevitably a price war has broken out, bringing prices spiralling down. Superficially, this looks great, but quality has been the victim. If you put a couple of cheap drivers in a flimsy box the result can be quite unpleasant. The product might look the part, but it isn't really in keeping with what's expected. Imagine buying a sports car with a weedy engine; one contradicts the

other. The Stirling is a quality product with a price to match. It isn't cheap, but I feel it isn't expensive for what you get.

The Stirling has a downward firing port that vents between cabinet and base plinth. After unpacking, the plinth must be screwed to the cabinet, the two held apart by spacers to create a resistive vent. It took me a few minutes with a screwdriver to do this, then attach spikes.

The speaker is bi-wirable and has links so single wire can also be used. I used single and double cables from





A large reflex port in the base of the cabinet exhausts onto a base plate. A small air gap between them provides resistive damping. Inside, Castle use high quality polypropylene capacitors in the crossover.

van den Hul, in short 2m runs. Castle describe the Stirlings as downward firing reflex and their quoted performance figures were verified by our tests. Each speaker weighs 14.9kgs or 33lbs - solid but liftable. They fitted into my 16ft x 12ft lounge easily enough and this sort of environment suits them.

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SMOOTH OPERATORS

In use the Stirlings were much as I expected, taking into account their engineering and Castle's desire and consistent ability to deliver loudspeakers that expertly balance all the various design trade-offs. Where floorstanding Missions will come at you with their upfront sound and vivid enthusiasm, the Stirlings tread a more refined path, seemingly taking a step back with a sound that's less ostentatious and immediately engaging, but arguably easier to live with in the long term. That's not to say the Stirling is soft or dull. It is right up with the best in having a tweeter that extends smoothly up to 20kHz and at all times and with all types of music I was constantly aware of the 'speakers smooth but extended bandwidth. Clean, fast edged transients from plucked guitar strings stabbed out from the speaker at the start of Toni Braxton's Spanish Guitar, short, subdued intakes of breath bringing an impression of detailing and atmosphere to the performance. Toni Braxton was

placed just forward of the 'speakers and well established depth perspectives let the sound stage appear to stretch far back. Like most modern Castle loudspeakers the Stirlings set up a deep sound stage and seem less forward and a little less forced than most rivals in this area.

The tweeter is smooth but not reticent, giving Spanish Guitar the sort of hard edged definition it truly has as a good, modern recording. I got much the same result from Jackie Leven's Extremely Violent Man from Fairly Tales from Hard Men. Leven's laconic but gritty delivery was very well resolved by the Stirlings; his lyrics and intonations were vividly portrayed, bringing both the threat and suspense of this song into the room with the sort of realism that a good hi-fi loudspeaker should achieve.

At the same time clearly recorded male vocals can also reveal colorations in the lower mid-band and this the Stirlings have. There's some boxiness in the sound and it tinged Leven's voice with a little woodeness, plus a bit of box echo. This was likely a return from the rear cabinet wall. It was an effect that also showed up with live Radio 2 studio chat, as another example. The 'thoracic thrum' (shall we call it!) of the male voice caught by microphone got a little bit of extra oomph from the Stirling. It wasn't great, but it did tug at the independence of the images, attempting to pull them back into the cabinet - always a problem with boxiness.

Spatial imaging was excellent. The d'Apollito arrangement of drivers gave a nicely balanced sound all round. Whilst there was extra focus and detail listening directly in front, on the axis of the tweeter, the Stirlings sounded much the same when walking around the room. This does make a loudspeaker easier to live with; it sounds good all the time, rather than just in one physical hot spot. Being forced to sit in one position to enjoy music can be tediously restrictive.

As Castle have engineered it, the Stirlings have a good, full sound. Vocalists have body and instruments in the lower octaves, such as plucked bass and bass guitar, have plenty of strength and presence in the scheme of things. The Stirlings go low, getting right down to the lowest strings on a string bass. Bass quality was generally good, with some bloom and a little bouncy boxiness - but that's how it usually is with compact floorstanders. They don't have the extreme depth or tight control of the larger Howards, which set standards in this area, even though Castle have tried to transfer these strengths, All the same, the Stirlings never sound short of bass power, largely through their voluminous upper bass. The walking bass line in Angelique Kidjo's Houngbati, from Aye, had a vibrant power, but in fact the lower fundamentals were kept in tight rein, rather than being allowed to billow and swamp things. Bigger loudspeakers have these bass lines shaking the building; the Stirlings don't let their limitations overcome them, which is where Castle show how deft they are at striking a cleverly engineered balance.

CLASSICAL PERFORMERS

Franck's intriguing Choral No2 sees the Organ at the Basilica of Saint-Sernin gliding downward with sombre majesty towards 'thunder' from its 16ft Contrabass pipes and although the Stirling doesn't reproduce them fully, it gives a good impression of their 32Hz output. Although the 32ft Principal Bass is in the recording, there are few speakers or rooms able to sustain its presence. Less extreme

pieces, like Chopin's well worked Opus 48, No I, showed the Stirlings reproduce piano convincingly, giving it body and a beautifully wrought sense of presence in the room. I was aware that the carbon fibre drive units, which do most of the work in a performance like this, deliver a deliciously natural tone that alludes other cone materials. I am a great lover of good carbon-fibre drive units; they do avoid the colour and character imposed by other materials.

With orchestra the Stirlings again showed how well Castle try to produce a fully capable all-rounder, rather than a Rock machine.Violins sounded smooth and detailed, although the tweeters could add a little sheen at times, depending upon the balance struck in the recording. Woodwind sounded woody, brass had a good rasp and plenty of tonal colour.Trumpets sounded as if they were of brass, not steel.

I started out listening to the Stirlings with my Cyrus 7 amplifier, which represents a good, modern solid-state design. The Cyrus is smooth and very capable, generally a delight to use. However, since the Stirlings are an efficient 80hm load I wheeled in my beloved 300B valve amp, with valve KLPPI pre-amp. This was like adding a Morton Thiokol booster to the little Stirlings; they got their act together fast and really showed what was possible. With amplification like this, aided by the usual sprinkling of Jensens and Black Gates, the speakers showed they could sound dramatic. They have a lot of innate ability and, if you happen to use valve amps or want to graduate to them, then these 'speakers make fine partners. They're affordable, domestically practicable and a nice, easy amplifier load.

In a nutshell, the Stirlings are an expertly wrought loudspeaker that deliver a full bodied but accurately balanced sound. They are easy to live with over a period, having an amenable sense of clarity that make them pleasant companions in the home. Castle have balanced them well to suit both Classical and Rock. I could easily live with them and would always be happy with their balance. which suits my tastes and expectations. If you're in the market for compact floor standers, I'd suggest you listen to them first and then last. They set a good standard for others to beat - and whether others beat them will be open to question. 🧮 📤

Castle Stirling 3 £729.90 (standard finish)

Castle Acoustics Ltd. Park Mill Shortbank Road, Skipton North Yorkshire BD23 2TT Tel: 01756 795333 www.castleacoustics.co.uk



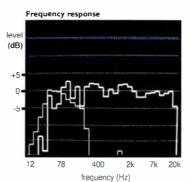
A fabric dome tweeter sits between two carbonfibre bass/midrange units in d'Appolito arrangement. This improves vertical dispersion.

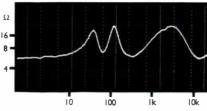
MEASURED PERFORMANCE

The Stirling's forward response stretches from 40Hz (-6dB) up to 20kHz in a usefully even manner, without dips or peaks. Our third-octave analysis shows the tweeter gives a few dB less output than the main drivers, just enough to give a smooth or warm balance. The drive units integrate well, absence of a crossover suckout ensuring the 'speaker will deliver plenty of detail. This is a nicely balanced performance that ensures the Stirling is both accurate but palatable to listen to.

The reflex port is tuned to 50Hz, providing well spread symmetrical damping for the bass driver, our analysis shows. Port output extends down to 25Hz, rolling down smoothly below **t**his. With an unusually high overall
impedance of 90hms, the Stirling was
surprisingly sensitive, producing no less
than 89dB SPL from one nominal watt
(2.8V) of input. To get this sort of
a 40hm bass unit, which draws far
more current. The Stirling is a light
load, and a reasonably non-reactive one
too. Its efficient conversion of energy
and high impedance make it more
suitable for (80hm) valve amps
than most rivals too.Impedance
Impedance

The Stirling is a nicely balanced design which is very amplifier friendly, much more so than usual. This is neat loudspeaker engineering.







An accurate and well balanced sound with good body and oodles of detail. Some slight coloration, but otherwise spot on the money. Good for solid-state and valves.

Walrus Systems

11 New Quebec St, London W1



FULL INFORMATION ON WEB SITE OR CONTACT Origin Live, Unit 5, 362b Spring Road, Sholing, Southampton, SO19 2PB U.K. Tel:- 023 80578877 / 80363249 Fax:- 023 80578877 e mail: originlive@originlive.com

web site: www.originlive.com

FULL FRONTAL



Revamped Exposure electronics are looking to worry the competition. Will their new 2010 CD player have them quaking in their boots? Dominic Todd investigates. . .

o much for SACD. Over the past few months there appears to have been an explosion of new mid-priced CD players. This is the very area where SACD was supposed to be making inroads, but if the recent non-SACD crop is anything to go by then the new technology has some way to go yet.

Last month Rotel's RCD 1070 showed great talent and put in a performance that one could have expected from a machine twice its price only a few years ago. This time it's the turn of amplifier experts, Exposure, to show off their latest entrant, the 2010.

At just short of £600 it stands just above its immediate opposition from Arcam, Roksan and the aforementioned Rotel. One area the extra money certainly hasn't gone is into features. The 2010 is just about as bare bones as you're going to get. although it is handy enough. There's BNC-coaxial and, unlike the Rotel, optical digital outputs, an extinguishable display and basic remote control. Of more importance to most potential buyers are the gubbins inside and it is here the Exposure shines. An up-to-the-minute 24bit/96kHz DAC is mounted on a separate board and fed via a decent quality toroidal power transformer. Construction is neat, layout thoughtful and good quality ancillary components are used throughout.

Leaving the technical specification aside, of even more importance here is the sound quality. With a Rotel RCD-1070 to hand for comparison, I began by listening to lan Shaw's 'Ruby'. Two aspects of the Exposure's performance were immediately apparent. The first was a vivid portrayal of percussion decay. There was detail and ambience here far beyond what you'd expect from a £600 machine. What there wasn't, however, was the vast staging of the Rotel. The bass response wasn't quite so lush and the whole performance sounded somewhat lean by comparison. Yet the bass that was presented was, as with the rest of the performance, beautifully controlled

and of very high quality. Timing was greatly improved and there was a sense of real interaction between the musicians. The electric guitar possessed a fine, sharp edged, definition that lent it an air of authority missing from other players.

It wasn't just the instruments that benefited from the 2010's insight into the music. Shaw's vocals had great texture and presence, and the tightly focused presentation ensured they appeared dead centre within the sound stage, with little blur. Overall then, a beguiling listen, despite perhaps a lack of weight at the bottom end of things.

O.T. Quarter's 'Hold That Sucker Down' provided a complete change of tempo that suited the Exposure well. During the build up of the track there's a rippling bassline in which the 2010 appeared to find an additional pulsating aspect. Furthermore, the complex synthesised rhythms were played to a tee, with the vivacious and fleet of foot Exposure injecting plenty of anticipation and excitement into the piece. Again, separation and

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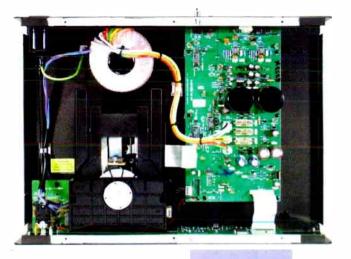
control were first rate, although I did occasionally feel there were times when perhaps the 2010 became slightly over exuberant. At higher volumes in particular, the balance could become just a little too edgy and forward. Despite this though, I felt the player got away with the occasional rough edge as it kept the performance engaging, thanks to first rate timing. By comparison the Rotel couldn't help but sound heavy handed even though it definitely possessed more impact through its stronger upper bass response.

Female vocalists, The Corrs, proved a tougher challenge. It came as quite a relief to find that the 2010 didn't emphasise sibilance as much as I thought it might. Furthermore, as with Shaw, there was texture and colour in the vocals that many a more expensive machine can simply gloss over. The violin was given a rare prominence too, and stood out as a solo instrument rather than merely being a part of the background mix.

More of a surprise was a certain softness towards some bass notes. It was here in particular that the Rotel scored over the Exposure in providing firmer and more expansive foundations to the music. It also had a touch more refinement to the vocals, although it didn't quite catch some of the subtler nuances of the 2010.

Pachelbel's Canon provided the Exposure with a Classical diet. Of key importance with this music is timbre and timing. Generally, there were few problems with either. The stringed instruments possessed a sweet timbre although subtle changes of bow stroke were sometimes hard to identify. In this respect though the 2010 still had the measure of the 1070, even though it didn't quite manage to extricate the same level of depth from the double bass. The upside of such a lightweight bass response though was that the timing was fast, breezy and as fluid as one could hope for.

In the final score the Exposure scores as a definite success. It has the sort of rhythm, balance and vibrant timing that you'd normally have to pay Naim money for. In addition, the 2010 manages, just, not to sound too harsh, cold or uninvolving. Exactly the opposite in fact is true. With most types of music, I found the Exposure thoroughly involving and offering great insight into the music. Yet this isn't to say that it will suit everyone or all systems. If your system is already on the bright side then this particular CD player could just tip the balance toward aggression. Furthermore, the 2010 doesn't have the best bass response around. Those who have just listened to the Rotel, or even Arcam CD72, could find the



Exposure too lean. For these reasons I'd recommend the 2010 highly, but wouldn't criticise anyone for choosing the Rotel over it. With choices like these, those in the mid-range CD market really have never had it so good.

Exposure CD 2010 £599

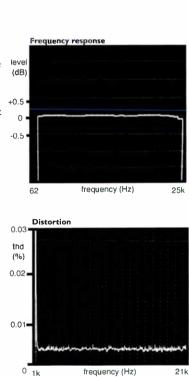
Exposure Electronics The Works 59 North Street Portslade E. Sussex BN41 IDH Tel: 01273 423877

MEASURED PERFORMANCE

The Exposure was one of a small bunch of players unable to reproduce our short test pulse. As a result we had to measure it with a gliding tone test signal and third-octave analysis. The amplitude resolution of this test method is equally high, however, even if the frequency resolution is not. This measurement shows the player gives a flat response from 20Hz to 20kHz within fractions of a dB, displaying just the slightest top end roll down, so it should sound tonally well balanced in use.

At higher signal levels the convertors were linear, producing little distortion or noise our -30dB analysis shows. As level decreased performance deteriorated a little compared to the best players but was respectable all the same. As a result the EIAJ dynamic range figure was a good 110dB.With output exactly at 2V and wide channel separation across the audio band the Exposure player measured well. **NK**

Frequency response	20Hz	20kHz
	left	right
Distortion		
-6dB	0.005	0.005
-30dB	0.016	0.017
-60dB	0.4	0.42
-90	29	30
Separation	left	right
lkHz	120	121
20kHz	90	90
Noise		-105dB
with emphasis		-105dB
Dynamic range		I I 0dB
Output		2V



World Verdict

Another great midpriced CD player with good or pound for sound value. The Exposure has a very exciting and, forward sound that is totally involving. feature



Noel Keywood tours the big stores looking for SACD and DVD-Audio.



s CD on its way out? Are the big stores now stocking SACD or DVD-A? I toured the Central London music megastores of HMV and Virgin in Oxford Street, and Tower Piccadilly to see how they were treating these new formats, to give you some idea of what to expect 'on the ground' in the near future. After all, there's not much point in getting a shiny new, high resolution audio player if no one is stocking the discs. And the big stores can help make or break a format by choosing to stock it - or otherwise. But as Genaro Castaldo of HMV put it, this is a "chicken or egg" situation over which comes first - discs in the stores or demand from the public.

The big music stores historically don't like 'multiple inventory', stocking of the same song on LP, cassette, CD and Minidisc. Happy about the current dominance of CD as a format, they are in no hurry to take on two more audio formats, I found. Counterbalancing this is the success of DVD Video. All the music stores have areas or departments for DVD Video.

That HMV are reticent about the

new formats was obvious from my visit to their Oxford Street store, where there was no special racking for the discs. High resolution discs are put in the racks under the artist's name, I was told by an assistant. The press office were not particularly aware of specific issues surrounding the new formats and it seemed to me that HMV were at present a bit unconcerned about SACD and DVD-A.

At the other end of Oxford Street Virgin have recently tidied up their megastore and the new layout gives some idea about their priorities. A big area has been devoted to the LP but MiniDisc has been moved down to a small rack in the basement. I couldn't help feeling this was the departure lounge for MD. But Virgin seems no more enthusiastic about the new formats because SACD, in its own rack. ominously sits alongside MiniDisc. There was a light sprinkling of titles, classical and Rock, but much of the Rock was re-release. I saw little modern material from major artists, where recording quality might do



Virgin place SACD beside MiniDisc - in the basement!

SACD justice. To make the rack look fuller TDK blank CD-Rs sat ten deep or more behind solitary SACDs. "We don't have much in that section", an assistant told me, in a slight understatement. And price? Mostly around £23.99, but there was some variation; SACD is expensive.

Upstairs in the DVD Video racks Virgin have a music section with a good selection of videos with audio soundtracks However, there were no DVD-Audio discs.

Tower Records were altogether more aware of the new formats and better stocked than Virgin or HMV. Whilst their Piccadilly Circus store doesn't have a large rack, it is situated in the busy entrance area and Colin Young, the floor manager, told me they get a useful volume of sales.

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feature



Tower mix SACD with DVD-Audio, knowing that buyers will be quality conscious and aware of the issues involved, at least to some extent. Colin told me they would be rolling this specialist rack out to other stores around the UK in the near future and he was quite enthusiastic about the formats. Prices were around the $\pounds 23-\pounds 24$, which appears to be the norm.

Downstairs in the DVD Video music section Tower were stocking some DVD Audio discs of the Doors, re-mixed to 24/96 surround-sound. These were in with the video discs, but being marked 'DVD Audio' should need a proper DVD Audio player to reproduce them. With a low price of £16 I wonder whether they were truly DVD-As, rather than DVD Video discs with 24/96, 5.1 surroundsound. Such fine distinctions are not made on the packaging of course and this is where DVD has become hopelessly confusing.

Tower has more confidence in SACD, because it is easier to understand. Prices for SACD are high, again up to £23 or so.

At present SACD and DVD-A sales are so low the British Phonographic Institute (BPI) don't record them, they told me. Because the discs are at present categorized as CDs or DVDs, they may never do so, so whether sales will rise may forever remain a mystery. Whilst prices remain so high demand is likely to remain limited, I feel, especially in the absence of chart topping artists.

UTION

In spite of all the confusion surrounding DVD, it may well be that DVD Video discs carrying high quality 24/96 audio could seep into the market. Priced around £16.99 they are compatible with all normal DVD (video) players and can give better sound quality than CD. Questioning Meridian Audio about DVD (it uses Meridian lossless packing) they told me that in their view 24/96 was all we need for perfect CD sound quality. That makes 24/192 technological overkill. Sony and Philips, developers of SACD, wouldn't agree with them of course.

Confused? So is everybody. As discs trickle into the stores it will be interesting to see how HMV, Virgin and Tower cope. At present though, high prices and limited selections will give them an easy time and buyers a headache. On the retail front SACD and DVD-A has made little progress.

SACD TECHNOLOGY

Super Audio Compact Disc is an audio-only format using a fixed standard, high rate DSD bitstream that offers 24-bit resolution and 96kHz analogue bandwidth (192kHz sampling rate). Programme is generally available is ech surroungsound, with a stereo mixdown for conventional systems.

Iwo types of disc are available. Dual layer types will play on CD players as well as SACD players, but they are more expensive to manufacture, since the twn layers must be physically bonded in a separate manufacturing process. Single layer discs are cheaper to make, although not necessarily obeaper to huy but will play only on SACD players. Both types are available in the shops, at present only identified by slickers.

Tower have a clearly identified SACD and DVD-Audio rack, Colin Young was happy with sales. Other stores will be getting these racks.

DVD TECHNOLOGY

Conceived as a video medium, DVD has neverifieless always been able to carry audio as a movie soundtrack. Bear this in mind. because it does tend to confuse matters DVD movie soundtrack is usually CD quality, meaning 16-bit at 44 1kHz sampling rate However, this sound track can come in supenor 24-bit. 96kHz resolution stereo or compressed multi-channel (Dolby 5.1). These are hasically DVD Video discs, but their audio is hetter quality than CD and they may not even have video on them, acting purely as audio CDs. Unfortunately, not many early video players fully reproduce 24/96, they truncate it to 20kHz. This is an early unpublicized problem with DVD

DVD-A (DVD Alinhi) is a pure alide termat with no video on the disc. It offers even higher sound quality 24-bit at 192kHz sampling rate, two channel (stareo), or 24/96 six channel. Attriough 24/192 will nive better sound quality than 24/96, stereo recordings in this format are rare. Even studios aren't commonly equipped to record to such high resolution, necessary 192kHz A/D convertors only recently coming to market. As a result 24/96 six channel is more common and may carry 5.1 format surround sound or other hifo, such as height information (periphony).

DVD gets even more confusing when discs carry both DVD-Audio and DVD-Video This makes them compatible with old DVD video players, as well as newer DVD-A players, but playing time will suffer, unless the disc has two layers or uses both sides.

THE EYE OF

The new Eyris series from Tannoy features their 'wideband' technology in the shape of a new titanium dome tweeter. Dominic Todd auditions the baby of the range, the Eyris 1.



here's been much talk of wide band of late. Due to the increased frequency response of formats such as DVD-A, amp and 'speaker manufacturers have been quick to cash in by offering products suitable for the 'new' expanded frequency products. Of course there's nothing really new here as analogue sources already offer a technically near unlimited frequency response. None the less, it hasn't done Tannoy any harm with their high end Dimension range. Now the technology has filtered down to the middle orders, and the specifications are truly impressive. The ultra thin titanium dome tweeter will stretch to a phenomenal 44kHz! It may be well outside the human hearing spectrum, but the effects of reduced top end compression can often be worth the effort.

In other respects the Eyris I is a fairly straightforward affair. The cabinet is solidly built with 18mm MDF and beautifully finished in a choice of real wood veneers. With such a high tech tweeter it comes as something of a surprise to find an ordinary looking 145mm fibre woofer in these days of woven Kevlar and alloy units. Yet many a 'speaker has sounded more than fine with just such a bass unit so there's no cause for undue concern.

One final unusual feature is the five binding posts.Yes, you read that right, five! There's four for conventional bi-wiring and a fifth to act as a ground.Attach this to your amp as you would a turntable earth.

In the best Tannoy tradition I found the Eyris a sensitive 'speaker to drive even though Tannoy themselves claim an average 88dB.

Listening to The Art Of Noise's 'On Being Blue' I found the claim of a wide band frequency response to be more than mere marketing hype. The operatic vocals fairly soared from the 'speakers, which could make even the most open of rivals seem compressed in comparison. The guitar's texture and depth was also most impressive, leading to great insight into the music. Not for nothing is Tannoy renowned for their studio monitors, it would appear.

With such a far reaching tweeter it came as a relief to find that integration with the woofer hadn't been overlooked. The paper cone melded seamlessly with the tweeter to form a cohesive balance. Further down the range though, the balance wasn't quite as impressive. Compared with the lucidity of the treble and mid band, I found the lower bass response just a tad soft and lazy. Bunging the front mounted ports with the supplied foam inserts helped to a degree but there still wasn't quite the firm control of rivals such as B&W's CDMINT or Neat's Critique. However this slight flaw didn't detract from the palpable sense of depth and fine imaging.

The Rip Chord's 'Just A Man' provided a starker, more grungy backdrop. If anything, the balance sounded just a little too polite, with the thrashed guitar in particular losing out on its coarser qualities. That having been said the timing couldn't be faulted and the Tannoys afforded excellent insight into the vocal characteristics of the lead singer. Overall though, I still felt that the whole performance seemed just a little tame. It appears that Tannoy were so concerned by the extra "hash" that the expanded frequency response might have introduced, that they've gone out of their way to engineer in more refinement than is

THE TIGER

strictly necessary.

Eagle-Eye Cherry's 'She Didn't Believe' can cause component problems. Vocals are often closely microphoned and the recording has a few rough edges. Yet, the Eyris 1s made a fine effort. Vocals were intimate and truthfully reproduced. The guitars showed good resolution too, although they did seem to miss the last degree of analysis, in that others would etch the notes slightly more precisely. Bass response proved fine, although it didn't quite have the weight and control needed to really drive the natural rhythm of the song. Otherwise, the 'speakers had little problem separating the various instruments and avoided the harsh compression that can set in with more exuberant rivals.

Tannoys have often excelled with high level Dance music, so I thought I'd try Mouse T Vs Hot N Juicy's 'Horny' and crank up the volume. The Eyris Is remained true to their heritage by offering a near faultless performance. The smooth refinement proved a blessing at ear piercing levels, and they remained clean and linear at volumes that would have the neighbours raising merry hell.At these higher levels the Tannoys showed a much greater sense of attack, and there was real presence from the vocals which helped create the impression of a 'wall of sound', rather than simply boxy compression. Detail remained excellent and the only aspect the committed club fan might miss would be a lack of truly deep bass. The up side of this though, was the decent timing and pace. As before, the baby Tannoys showed a real fluency between the frequencies.

It's hard to see how any Tannoy fan would be disappointed with these 'speakers. They have all the traditional Tannoy qualities of decent efficiency, broad sound staging and sustained high volume handling. Added to that, comes a real sense of openness in the treble, and excellent refinement thanks, in part, to the balanced frequency response. Yet they're not quite perfect. At lower levels the bass response can seem just a little lazy, and that high level of refinement also brings about disadvantages. Whilst allowing poorer recordings to sound listenable, other rivals will show greater insight into higher quality material.

For all that though, the Eyris Is are certainly worthy of an audition, and would particularly suit a great number of the many powerful transistor amps around that err on the side of brash. Recommended for Tannoy afficianados and those new to the brand alike.

Tannoy Eyris I £599.90

Tannoy Ltd. Rosehall Ind. Estate Coatbridge North Lanarkshire ML5 4TF Tel: 01236 420199 www.tannoy.co.uk

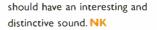
MEASURED PERFORMANCE

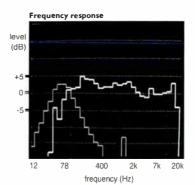
The Eyris is a little unusual in conception, having a paper coned bass/mid driver and a wideband tweeter capable of reaching above 20kHz. Since our measuring microphone reaches no higher than 20kHz we could not check this. The bass/mid driver doesn't have a particularly smooth response by current standards, our analysis shows, and tweeter level is set around -2dB low perhaps to soften the sound a little. I'd expect a lively sound from this 'speaker and good vocal projection, due to the presence of a peak at 1.6kHz. There's no crossover dip so detailing should be strong and the tweeter looks reasonably smooth.

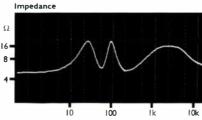
Low frequency output rolls down steadily below 80Hz. This suggests well damped and perhaps dry bass, aligned to suit near wall positioning. With a port tuned to 50Hz the bass end of things looks as if it was designed to be punchy and tight rather than deep.

The impedance curve sits unusually high and measurement showed an overall impedance of exactly 80hms. With little reactance too, the Eyris is a relatively light and unreactive amplifier load. The penalty for high impedance is low sensitivity and at 85dB SPL for one nominal watt of input the 'speaker was nothing special here, but not to bad either. Lower impedance rivals manage 86dB or so these days, but they are not so easy to drive.

The Eyris looks like it is meant to be a lively 'speaker that is amplifier friendly. It







World Verdict

Fine, open 'speakers in the traditional Tannoy mould. The fine detail and treble response is slightly marred by a slightly lazy bass, though.

ECONONY,



Most companies wouldn't call a twelve hundred pound CD player 'entry level', but then most aren't Meridian. David Price tries out the new 507.

eridian calls itself the 'inventor of audiophile CD'. Now, I know many analogue addicts who'd argue that there's no such thing, but even if you accept the premise, that's still an ambitious claim. The company's first silver disc spinner was little more than a lightly re-heated Philips CD100, and moreover, one of a number of similar reworkings from various companies. Still, there's no doubting Meridian's commitment to the format. Since that first 1984 machine they've produced twenty different models, none of which have sounded bad at all. Indeed - interestingly - they've all had quite a distinctive, warm and sweet, family sound!

I have to admit a soft spot for the 506.24 which I reviewed back in the summer of 2000. At £1,195 the new 507 is a direct replacement for this very capable machine and has much to live up to. Most of its predecessor's charm came from its very smooth, subtle and engaging nature - one that was far more finessed than its immediate rivals, if not quite so striking.

This formula is pure Meridian, carried through from the original MCD. Headbangers won't like it, but classical music aficionados with refined palettes do. To this end, you'd hardly expect the 507 to represent a dramatic break with tradition - and it doesn't.

New to the party are the 24bit, 192kHz DACs - running of course in 16/44 mode because this is a CD-only spinner - with a direct-coupled audiophile-standard output amplifier. The CD-ROM derived transport reads CD-Rs and CD-RWs in addition to standard pressed audio CDs, and has been carefully conceived to keep jitter to very low levels, achieved by double buffering techniques originally found in the 508. The digital output is precision re-clocked and 6-layer PCBs, 4 separate power supplies, the latest surface-mount technology and 'selected' components are all used for the best possible sound.

The 507 is built as befits any Meridian - it's heavy (6.4kg) for its diminutive dimensions (88mmx321x332mm) and beautifully finished to boot. Thanks to superb ergonomics it's a joy to use and all the commands (Open/Close, Play, Stop, Pause, Previous, Next and Off) are duplicated on the rather swanky 'Meridian System Remote' which is supplied. Combined with its built-in RS232 port, this can control an entire Meridian system - the fine 551 integrated amplifier (which I reviewed over 7 years ago and is still going strong) would be an ideal partner.

Round the back there's the usual coaxial and optical digital outputs, plus RCA stereo line outs and aforementioned connection port. My only lament is the lack of that wonderful chunky CD drawer of Meridians of yore - now it's the flimsy, plasticky computer CD drive type.

Now to the sound through my reference World Audio pre-power and Yamaha NS1000Ms. It's a Meridian CD player so we're talking - yes you've guessed it - warm and sweet and beguiling and smooth and musical. No surprises there, then. Indeed, I'd go so far to say that - with the onset of DVD-A etc. - this may be the last CD you'd need to buy. It does so much so well, and what it doesn't do frankly isn't easily do-able by Red Book CD without chucking vast sums at the problem. If you really want more then you might as well go for a 'high resolution digital' solution - or a turntable of at least the calibre of a Rega P2!



I kicked off with my favourite torture track, Mercury Rev's 'Goddess on a Highway', which can sound shrill with even quite pricey kit. The Meridian was unrelentingly civilised and sophisticated - but not, repeat not, bland. Soundstaging was excellent - it tends to hang instruments fairly well back, but still there's a great sense of perspective and wide, boldly carried left-to-right imaging. Image articulation wasn't quite as rock-solid as Naim's CD5 or Cyrus's CD7/PSX-R, but is wider and more 'capacious' nevertheless.

Tonally the 507 is as graceful as you'll get from 16/44. Bass is sumptuous and slightly over-warm (it's like what musos would call 'valve bass'), although not quite as extended as Cyrus CD7/PSX-R. Hall and Oates' 'I Can't Go for That' showed that its midband isn't as brightly lit as Naim's CD5 or even Arcam's new FMJ CD23. It's hardly recessed, but neither does it come out to shout hello. It's rather vinyl-like in this respect, and none the worse for it - vocals sound smooth and you can enjoy their timbre, whereas lesser players either screech them out at you or simply muffle them. Treble was deliciously sweet and satisfying, but you may get the feeling that just the tiniest bit has been lopped off the high end.

Kraftwerk's 'Expo 2000' proved an interesting challenge for the Meridian. Frankly I doubt most 507 users will be into electronic dance music (exquisite as this particular example of the breed is), but this player still made a great show of it. Despite its 'polite' tonality, the Meridian is actually very grippy (obviously more so than the 506.24) and duly held on very tight as the track's bassline energetically modulated up and down. True, Naim's CD5 and Cyrus's CD7/PSX-R are just that bit tighter, but they are lighter too, and lack the impactful 'grunt' of the Meridian.

Lee Morgan's 'The Rajah' on BlueNote proved the 507's mettle at recreating 'real' recorded acoustics. With plenty of air and space, and lots of low level ambient cues, you get a real sense of 'being there'. Dynamics are very good - but not quite up to the superlative standards of the Arcam FMJ CD23, Naim CD5 or Cyrus CD7/PSX-R. I always got the sense that the 507 was just 'rounding the edges' off transients, even if it proved excellent at the 'microdynamic' nuances and accents of the playing.

Overall it's thumbs skyward for this new Meridian. It's not the most riveting listen, but for yours truly at least, it's none the worse for it. Just as the fastest car isn't necessarily the most satisfying to live with on a dayto-day basis, the 507 more than makes up any ground it loses to excellent rivals with sheer grace and musicality. An excellent new product - and I'd imagine it would make quite a pairing with the oft-overlooked 551 integrated amplifier.

Meridian 507 £1,195

Meridian Audio Ltd. Stonehill, Huntingdon Cambs PE29 6EX Tel: 01480 445678 www.meridian-audio.com

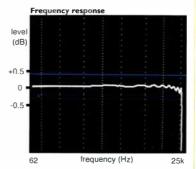
MEASURED PERFORMANCE

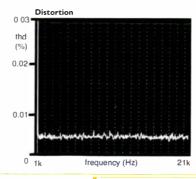
Although this is called a '24 Bit' player it plays 16-bit CDs to 16-bit resolution and it will not play 24-bit DVDs, for example. In this case the machine's internal processing is of 24-bit resolution and as a result it should be more linear than usual Tests showed this was the case, from maximum output right down to -90dB. Differences were slight, but they were there; the 507 produces a tad less distortion than just about any other CD player I have measured. In terms of sound quality it is probably not the distortion that matters, per se, but the general quality of the internal circuitry and this is an advanced player.

With a normal flat frequency response that extends to 21.25kHz (-1dB), and low noise, this player measures very well all round and is likely to deliver superb sound quality from CD. $\ensuremath{\mathsf{NK}}$

Frequency response	4Hz-2	21.25kHz
	left	right
Distortion		
-6dB	0.004	0.004
-30dB	0.016	0.016
-60dB	0.36	0.37
-90 29	30	31
Separation	left	right
IkHz	117	116
20kHz	92	91
Noise		-107dB
with emphasis		-107dB
Dynamic range		2 dB
Output		2.3∨

World Radio History





HI-FI WORLD JUNE 2002

World Verdict

99999

Another quintessentially

Meridian silver disc

spinner, the 507 is a

and engaging listen.

wondrously endearing



PRO-JECT Debut II Turntable £114.95

"The original Debut turntable romped away with a Product of the Year Award in 1999, and the MKII version continues the extremely good work. It's a simple affair, that's easy to set up, but don't let the price fool you - it sounds a whole



£1149.95

£139.95

£1949.95

£99.95

£449.95

£2999.95

£994.95

£544.95

Turntables & Tuners

Arcam DiVA T51 Tuner	£279.95
Denon TU260L MKII Tuner	£109.95
Linn LP12/Basik/Akito Turntable	£1749.95
Marantz ST4000 Tuner	£129.95
Michell Gyro SE/RB300 Turntable	£1017.95
Project Debut Phono Turntable	£144.95
Sony ST-D777ES FM/DAB Tuner	£429.95
Videologic DRX-601E DAB Tuner	£279.95

lot more expensive than that. This is a fine turntable, and it clearly reveals the benefits of listening to vinyl, with a rich and detailed soundstage, and a good dynamic response.

It's available in six funky colours, so you should find one to suit your decor, and at just a smidge over £100, you can have no excuse not to keep that old vinyl collection in employment for a good few years yet."

Selected outlets are Project Turntable Centres. Colour Options are available at additional cost

MUSICAL FIDELITY

A3 CD Player A3 Amplifier

A3 CD Player "OK, so not everyone will be drawn to the styling but when it comes to turning on the sonic fireworks, few players come even close at this price... A class act and a worthy winner."

A3 Amplifier "The A3 does a wonderful trick of conveying a great romantic sweep of music while at the same time delivering as much internal detail as anyone could possibly want. This is an amplifier capable of performing well beyond its price. We guarantee you won't be disappointed."



Arcam FMJ CD23T.

Marantz CD6000Ki Signature

Musical Fidelity NuVista 3D.

Roksan Caspian MKII

Roksan Kandy

Denon DCD485

Linn Genki

Linn Ikemi..... Marantz CD4000...



DM601S3 Speakers £249.95

"Ultimately it's the 601 S3s' lack of any weakness that makes them so special. Their talent is so widespread that most of the competition is left reeling. Detail, resolution, dynamics, insight... everything is present and

£799.95

£849.95

correct, and these speakers rate highly in every area.

What more can we say? These new B&Ws are a terrific buy. The price rise over their predecessors pits them against tougher rivals, but on this showing B&W has little to worry about. Unlike the competition.

***** What Hi Fi? January 2002

dia History

 Rotel RCD1070
 £499.95

 Sony CDPXE570
 £119.95

 Recorder
 Selection

Marantz DR6000 CD-RW	£349.95
Pioneer PDR609 CD-RW	£199.95
Sony MDS-JE770 MiniDisc	£229.95
Yamaha KX393 Cassette Deck.	£119.95
Yamaha KX580SE Cassette Deck	£199.95

Please Note: Some products may not be available at all outlets Advertisement valid until at least 8th May 2002, E&OE



more entertaining





Amplifier Selection

Arcam DiVA A65 Plus Amplifier	£349.95
Arcam DiVA A75 Plus Amplifier	£449.95
Arcam FMJ A32 Amplifier	£1099.95
Cyrus ACA7.5 Pre Amplifier	£699.95
Cyrus Smart Power Amplifier	£549.95
Denon PMA355 Amplifier	£229.95
Linn Kolector Pre Amplifier	£494.95
Linn LK85 Power Amplifier	£494.95
Marantz PM4200 Amplifier	£159.95
Musical Fidelity A300 Amplifier	£1399.95
Musical Fidelity NuVista Amplifier	£2974.95
Roksan Caspian MKII Amplifier	£894.95
Roksan Kandy Amplifier	£544.95
Rotel RA931/II Amplifier	£189.95



ARCAM DiVA CD72T CD Player **DiVA A85** Integrated Amplifier

£429.95 £749.95

Best Buy £601-£1000

DIVA CD72 "The CD72 will have you jumping out of your seat from the very first notes. Both powerful and punchy, it delivers every ounce of air and detail present from detailed midrange to smooth, singing treble. Sometimes a product comes along that sets new standards..."

DiVA A85 "You'll have realised by now that we rather like this amp. It took us completely by surprise, and further strengthens Arcam's already impressive product range... The A85 is superb, and we can't wait to put it up against its peer in a group test."

D MONITOR AUDIO Silver 8i Speakers £699.95

"No other speaker in this test can match the Monitor Audios when it comes to delivering seismic basslines with sofa rattling power and weight. That this part of the spectrum also enjoys plenty of speed and control confirms the Silver 8is' position as bass kings... A great speaker needs more than simply great bass, however, and the Silver 8is do far more than merely thump. With the likes of Curtis Mayfield's 'Move On Up', they produce a sound of such verve that it becomes hard to sit still... They produce music with plenty of excitement - but don't forget the subtleties too. Add excellent build and an easy load and these Monitor Audios make a formidable case for themselves."

VideoLogic DRX-601ES Digital Tuner £329.95

"New name, new format, new winner: the VideoLogic story is as simple as that. The £299 DRX-601E digital tuner came out of nowhere to establish the firm as

a major player in the digital tuner market. With this upgrade, VideoLogic goes one step further: it's still a DRX-601E at heart, but quite apart from the sleek silver styling and sexy blue LEDs it now has a better, white-on-blue display, and what the company calls 'Psycho-acoustic Compensation' - a form of signal processing designed to make the tuner sound less digital.

(11)

And it works: the DRX-601ES has a presentation that's

rich, clean and extremely informative. Bass is big and powerful, while the midband and treble are well controlled. The style alone would justify the slight price rise; the sound quality makes it a Product of the Year." ***** What Hi-Fi? Awards 2001





CD7 CD Player £799.95 7 Integrated Amplifier £699.95

Cyrus 7 CD "This player is just as convincing with thundering orchestral strings and brass, making a great job of Bernstein's recording of Mahler's Symphony No 5 and it has the definition to unravel the instrumental strands in the Kronos Quartet's disc of Phillip Glass string quartets... It's that that makes it special - and this is a very special player indeed."

Cyrus 7 Amplifier "This is a fabulous amplifier. It's fast, punchy and has bags of power on tap but crucially delivers huge sackfuls of subtlety when the music requires. Some of the other amplifiers in this group may be better with particular genres of music but as an all-rounder it takes some beating." ***** What Hi-Fi? November 1999

חםוצור

¥215

78 Series

782 bases its performance on a 165mm Nomex bass unit fitted to a reflex enclosure ensuring excellent low frequency extension from a graceful and compact cabinet. The **783** houses a larger 200mm bass unit with massive motor system, capable of floor shaking, yet tightly controlled low frequency extension. Both use Keraform midrange drivers for outstanding clarity and midrange detail coupled to superb dynamic range together with Mission's silk dome tweeter.

The **780** and **781** are the pinnacle of Mission's research into creating a three dimensional soundstage, extensive bandwidth and dynamic range from the smallest possible cabinet dimensions. The **780** is massive in its sonic capabilities. Its 130mm Keraform bass unit is carefully matched to a novel reflex enclosure for full bodied bass extension, the qualities of Keraform produce a dynamic and ultra detailed midrange. In the **781** a 165mm Keraform driver takes advantage of a larger cabinet to extend bass performance and increase efficiency whilst maintaining that superb midband transparency and finely detailed treble.

780 "Versatile and with a sound that works well with a wide variety of hi-fi kit, these speakers were worthy of this title last year, and this year have achieved the tough task of making it the double."

KEF

Q3 Speakers £399.95 Like its award-winning predecessor. the floorstanding Q3 offers exceptional value for money. With the new Ferrofluid-cooled metal dome neodymium tweeter derived from the Reference Series unit, the coincident source 160 mm (6.5) Uni-Q driver creates a spacious and intricate sound image throughout the room, and bass extension from the large front-firing port is accurately controlled to preserve the clarity of

the midrange. KEF's unique bracing system increases cabinet rigidity to minimize distortion, and the sophisticated crossovers are connected directly to the bi-wire terminals for optimum signal integrity.

***** What Hi Fi? Awards 2001



Speaker Selection

Acoustic Energy AE1 Series II	£699.95
B&W CDM INT	£749.95
B&W CDM 7NT	£1249.95
B&W DM303	£179.95
B&W DM603 S3	£599.95
Cyrus CLS70 (Black)	£799.95
KEF Cresta 2	£119.95
Linn Katan (Maple)	£634.95
Linn Ninka (Maple)	£894.95
Mission 780	£299.95
Mission M71	£119.95
Monitor Audio Gold Reference 10	£799.95
Monitor Audio Gold Reference 20	£1499.95
Ruark Epilogue II	£344.95
Wharfedale Diamond 8.1	£99.95



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System Selection

Cyrus Quattro Ex Power Amplifier & Speakers	£849.95
Denon 201 Ex Speakers	£649.95
Denon DM50 Ex Speakers	£279.95
Marantz Eclipse 19 Inc Speakers	£599.95
Marantz Eclipse 21 Inc Speakers	£699.95
Marantz Eclipse 22 Inc Speakers	£799.95
Marantz Eclipse 25 Inc Speakers	£899.95
Tag McLaren Aphrodite Ex Speakers	£2994.95
Teac Reference 100 Inc Speakers	£299.95
Teac Reference 500 Ex Speakers	£699.95
Yamaha Pianocraft E150 Inc Speakers	£249.95





LINN

The Classik Music System is an alternative to the sound and looks of mass market compact systems. Designed to be useful throughout the home, the Classik is simple and stylish with all the advanced features needed to satisfy the most demanding hi-fi enthusiast or discriminating music lover.

"Since the Scottish company added a tuner to the amp/CD player, mouths have gaped even wider in appreciation. The addition of colour options panders to the public's taste for kit to match their interior design, but it doesn't just look lovely in the lounge: the Classik sounds simply marvellous. Boasting fine impact and drive, it retains its grip even as it thumps out rock and dance tracks. Ask it to play quiet acoustic music and its smooth, liquid presentation impresses still further. The Classik offers the performance you d expect from high quality separates in one lovely package - this is a very superior product." ***** What Hi-Fi? Awards 2001

TEAC Reference 300 System £549.95

"Teac's Reference 300 system is an absolute belter. The company's Reference series has won lots of awards and many admirers in the past, and the 300 range at £200 less than the bigger 500 series, is no disappointment. Your £600 buys you everything but speakers: an amplifier, tuner, CD player and cassette deck... As beautifully built as we've come to expect from Teac, this system delivers the goods with style." ***** What Hi-Fi? Awards 2001

DENON D-M30 CD Receiver £229.95 SC-M50 Speakers



"Denon's gorgeous D-M30 has a fine pedigree - and a record of success. Its forebear the D-M3 kept impressing us with its balance of good looks and great sound, winning two What Hi-Fi? Awards on the trot. Now the latest generation takes home a Product of the Year gong two years in a row. On its own merits, too, as this is much more than a rehash of the D-M3. Upgraded audio circuitry improved power supply and the Mission-designed speakers all improve the package. The sound is superb, well-balanced and weighty ... It's a big system in a very cute box." ***** What Hi-Fi? Awards 2001

Optional Recorders:

CDR-M30 CD-RW Recorder • DMD-M30 MiniDisc Recorder • DRR-M30 Cassette Deck

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J A Michell Gyro SE Turntable £1017.95

Founded in Borehamwood by mechanical engineer John Michell. For over thirty years, Michell Engineering have been at the forefront of quality audio, with world-wide appreciated products like the GyroDec and Orbe Turntables.

In the early eighties, the revolutionary GyroDec Turntable, with its elegant and effective suspension system, was introduced. The Gyro SE is a smaller and cheaper package that retains the classy sound of the GyroDec and can be upgraded to the full GyroDec specification by adding a plinth and dustcover. Price includes Rega RB300 Tone Arm

LINN GENKI



clean and fluid sound.

LINN Genki CD Player £994.95 Majik Line Amplifier £694.95

"The beautifully engineered Gyro SE not only looks the part but has a wonderfully

**** What Hi-Fi? July 1999

Genki "Tempting though it is to think of Genki as a Glaswegian word, it's actually Japanese, and the nearest definitions we could find involve vitality, vigour and spirit. And used as adjectives, these words go a long way towards describing the sound of the Genki, which always manages to communicate the music first and foremost, and let the rest of the hi-fi thing look after itself.

It's a very well-thought-out player, too, from its clear and simple control layout to the provision of four sets of analogue outputs, two at fixed level, and two with level control. Completing the package is a 24-bit Burr-Brown DAC and Pacific Microsonics HDCD filter. Few owners will worry about all that stuff, however, as they'll be too busy enjoying the way Genki plays music, its purity of tone and sense of drama on Mozart's Don Giovanni being a fine example of its talent By any standards this is a superb player, and not just one for the army of Linn enthusiasts." What HirFi? March 2000

Majik The Linn Majik is a sophisticated control amplifier complete with on-board stereo power amplifiers. A core entry-level product for powerful and flexible control of hi-fi, video or multi-room installations. "Sneaky' add-on modules expand its functions. It can accommodate many source components. The Majik is available in two versions: The 'Phono' version has five line-level inputs and one Moving Magnet phono input and the 'Line-level' version has six line-level inputs.



A limited edition of 500

MUSICAL FIDELITY 3D CD Player

Nu vista

£2999.95

"It's hard to put your finger on exactly why and how the 3D CD Player turns in such a performance and to a certain extent it's a pointless exercise: it just does. OK, so at three grand it's a serious financial commitment, but if you're after a CD player to last 'til you take your final breath it could well fit the bill. Get a move on, though, numbers are limited to just five hundred and they'll sell, believe me. Simply get a listen to one and go back to your reference player - all will be revealed." HI-Fi World October 2001

Musical Fidelity has enough nuvistor tubes to build 500 Nu-Vista 3Ds and also to hold a spare set for every unit. (The limited edition Nu-Vista preamp, power amp and integrated are proving to be remarkably reliable, with a tube failure rate of about 0.1%). Music lovers don't need SACD technology, they just need a better CD player. Now a lucky few will be able to own the Nu-Vista 3D compact disc player. Out of the total production of 500, 265 are allocated for sale in England, and of these, 97 have already been reserved.

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review I

SECOND TIM

The SP2s from Opera are the latest version of their SuperPavarotti floorstander. Will Simon Pope find them in good voice?

ot so long ago in this very fine journal, I encountered a pair of slim floostanders from the Opera stable whose compact dimensions somewhat belied their name, the SuperPavarotti. Allegedly the great (in more ways than one) man even received a pair as a small gesture. What they did have in common with their namesake, though, was a full throated sound, rich tone and an unmistakably Italian style, as demonstrated in their fine hardwood cabinets. Unlike the man himself, the SuperPavarottis have now had a bit of a re-shape and a change to the vocal chords.

The gorgeous hardwood cabinet remains (a company trademark for twelve years) but we now have an elegantly rounded back in curved boat tail, or "marine" fashion, formed from a single piece of wood which is locked to the front baffle in the hallmark of time-honoured craftsmanship - tongue and groove fashion. Although time consuming, this method has found favour with Opera due to its extra rigidity and structural integrity. In addition to the fine cabinet work, the SP2 has an all round excellent finish, with Opera's high quality 24kt gold plated solid brass (albeit single wire) connectors.

The 'speakers are attached to a base plinth (again with quality adjustable brass cones fitted) with exact spacing for the downward firing port to operate correctly. This port signifies the overall design of the SP2 - the same as in the original versionwhich is known as a 'double asymmetric cavity loading' configuration. For the technically challenged, this basically means their are two separate, yet interconnected chambers within the cabinet which are of differing volume. The second

(larger) of these has the downward firing port. Drivers used are high quality; two SEAS I I cm mid/bass units. These two units operate together at frequencies below 100Hz, but above this frequency the lower unit is rolled off. The upper one takes over midrange duties up to 2.5 kHz, after which a ScanSpeak 26mm tweeter takes over - a unit rightly held in high regard throughout the business, incidentally.

The crossover

itself deliberately employs a minimum of components but what it does use are close tolerance for suitable matching.

Listening was carried out using a Meridian 506.24 CD player matched with Quad II-Forty valve power amps and a solid-state Meridian 557 200W power amp. Preamp duties were down to Creek's invaluable passive preamplifier, whilst Kimber and Chord Company cabling was put into action.

Take a stroll through any major (or minor) Italian city and you'll find a certain amount of Englishness in the appearance of certain individuals. It's a well known fact that continentals seem to carry off wearing traditional English attire far better than those who it was originally designed to enrobe. It seems that loudspeaker design is going this way, too. As the



likes of Tannoy and KEF aim for a wider ranging dynamic and more immediate sound, so the likes of Opera are harkening back to the days of the Leak sandwich and classic Wharfedale designs. Yes, there's perhaps more air and space here than we associate with these classic English models but the overall appeal is similar.

Knowing the general overall trademark sound of Opera I wasn't surprised to find the SP2s had a warm and smooth appeal, totally free from sterility. What this means is that you get a certain amount of coloration, but it's in the valve amp mould - pleasant as opposed to intrusive. What did surprise me though was the quality of the treble. The ScanSpeak is a change for the better when compared to the unit in the original model. What this open



ROUND

sounding treble does is inject a bit of life into the sound, putting more space and ambience into recordings. Playing an SACD hybrid disc of a fascinating collection of Sicilian medieval songs on the Fone label brought impressive results. A good sense of perspective and depth was created, with the resonant acoustics of the recording venue superbly recreated. The raw vibrancy of the period percussion (drums in particular) and instruments was well relayed, with an impressive amount of detail in the upper frequencies and midrange. John Coltrane's 'A Love Supreme' also demonstrated that the SP2s were comfortably at home with natural and well balanced acoustic material, giving an easy, warm performance.

Knowing that it wouldn't be a marriage made in heaven I put the SP2s through the trials of Underworld's "Push...Upstairs".The pumping electronic bass lines proved to be a little out of sorts here.Whilst ambient and acoustic bass is good, the dry, low rumblings of Underworld failed to materialise to their full effect - no real surprise when the slim cabinet dimensions are considered. What these slim cabinets do bring, though, is sharp imaging which is both impressive yet natural, with good depth of sound stage, too, as Paul Weller's brilliantly mixed 'Stanley Road' CD proved.

Those seeking impact above all else may not always appreciate the SP2s but they image almost perfectly and have an endearing musical quality that many manufacturers have sacrificed for sonic fireworks. The new choice of tweeter makes a big difference. Like the rest of the Opera range, and indeed Italian hi-fi in general, the SP2s aren't the type of 'speaker that will make you jump out of your seat and get you air guitaring, Spinal Tap style. Where they impress most is with the ease in which they produce music, with not a hint of edginess of scratch. Although ultimately they sacrifice a little excitement and bounce for

refinement this is no bad thing and they are consequently a good match for smooth, sweet sounding gear such as valve amps, or Meridian CD players!

As with the likes of say, an electrostatic design the attraction is in the subtle detail and imaging, as well as the sound as an organic whole, as opposed to hard-nosed dynamics. That is not to say they lack bass or drive, because they don't, especially when used in a smallish or mid-sized room, but those who require ultimate clout and depth may find the SP2s do not fit the bill. On the other hand, if you favour traditional smoothness and warmth these are well worth a listen as they are extremely easy to live with.

Opera SP2 £1100

UKD 23 Richings Way Iver Bucks SL9 Tel: 01753 652669

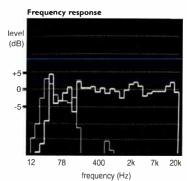
MEASURED PERFORMANCE

The Operas had surprisingly good vertical dispersion, meaning their drive units were well matched in terms of phase response. The result in practice is a consistent sound from a seated position to walking around the room, where the ear is much higher. It's a useful but uncommon property.

Our third-octave analysis of frequency response shows the 'speakers measured flat from 40Hz to 20kHz, fluctuations at the low end of our analysis being due to room effects. Otherwise the SP2s stay within a few dB of flatness right across the audio band, from 40Hz to 20kHz - an impressive result. However, perfect flatness points to the use of highly damped cone materials that in practice can sound a little lifeless, so there's a trade-off here. The SP2 will sound detailed though, and its port goes low, so it

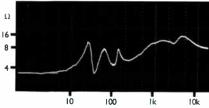
should also have quite good bass too. On this topic, the impedance curve suggests the floor positioned port has a broad bass spectrum and applies effective damping to the bass cones around resonance. This gives the 'speakers a flat-ish impedance curve that rises steadily from 40hms up to 10ohms, giving an overall figure of 60hms under measurement. There's virtually no reactance in the load, except around bass resonance, so the SP2 is an easy load. Sensitivity was mediocre, measuring 85dB SPL from one nominal watt of input. The Castles in this issue managed 89dB by way of comparison, with higher impedance, so were

more efficient. The Opera SP2s are well engineered. They will be easy enough as an amplifier load, although 60W or more is needed. They are likely to sound detailed and accurate, with good bass, but also a bit less lively than the best current designs. **NK**



Impedance

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HI-FI WORLD JUNE 2002

World Verdict

9999

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the fastest or lowest

bass around but the

stav clear.

midrange and treble is

excellent. Headbangers,

well balanced and user

friendly loudspeaker. Not



VINYL

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RETRO GRADE



The phrase 'traditional values in a modern setting' best describes AMC's remarkable CVT3030 valve amplifier, says David Price.

t's surprising that AMC should go the way of the dodo. Their £750 CVT3030 integrated valve amplifier was a cracking product, one that deserved to succeed more than most. The truth is that its concept was probably just a little too ahead of its time.

> If NAD had ever made a tube amp, then this would have been it. Designed by Peter Bath (who worked for Dolby, AR and indeed NAD), and manufactured by IEEE in Taipei (makers of Cambridge Audio, Luxman, Proton and indeed NAD products), it shared considerable DNA with the ubiquitous 3020. While the technical design was different, the concept was remarkably similar - an innovative, beautifully built, plainly styled, nononsense integrated amplifier with focus very much on sonics. This time though, valves were used to deliver the sonic goods.

In 1992 tubes were about as trendy as 1970s fashion. Despite the efforts of - among others - this magazine, the joys of the thermionic valve weren't as universally recognised back then as now. Many were mystified then when the CVT3030 appeared on the scene. It looked like a transistor amplifier, worked like a transistor amplifier (in terms of its reliability, low noise and user-friendliness) but certainly didn't sound like

one!

Its construction was a sublime mix of the old and the new. The boxy, dark grey 430x115x285mm case housed a sturdy metal chassis, explaining its considerable 12kg weight. Beautifully laid out inside, it featured separate pre and power amp sections. The latter was split into discrete left and right sides, each running two fixed bias EL34s complete with their own thermostatically controlled silent running cooling fans, plus seven high voltage MOSFETs. Each output transformer was a large, generously specified affair with both 4 and 80hm taps, while extensive attention was given to power supplies,

Despite its sparse aesthetics, the AMC was as generously specified as many early nineties midi systems. A phono stage was provided (and very good it was too), along with inputs for Phono, Tape, DAT, CD, Tuner, Video and Aux. A switchable Tape Monitor, Source Direct switch, headphone socket and even Bass and Treble controls were provided. Round the back, there was no less than three high quality gold plated speaker binding posts per channel.

The result was a convincing musical performer which sounded quite unlike any of its price rivals. Its warm, big hearted nature made the most of music from any source. Bass is strong (if a little loose) with a very fluid and supple feel, midband lacks the clarity of its transistor rivals, but is very smooth and even handed without the slightest hint of an edge. Treble is sweet and silky, but still spacious and detailed. The result is an amplifier which drives most modern loudspeakers as effortlessly as any solid-stater, yet invests the music with a delightfully natural, organic sound.

Of course, the AMC's sonics weren't perfect. Although nowhere near as coloured as the Quad IIs or Leak TL12s of yore, it certainly isn't as neutral as its (then) contemporary rivals like Cyrus's 3/PSX-R or Exposure's XX. Dyed-in-the-grain tube aficionados won't like it either. because it lacks the languid, rose tinted presentation of the likes of Leak's Stereo 20. In truth, it should be judged as an attempt to bring some of the musicality of valves together with the user-friendliness of solid-state and on those terms at least, it succeeds admirably. Although something rare these days, there are more CVT3030s around than you'd think. Look hard and you can pick one up for as little as £250, although you should expect to add another £100 to that for a mint, boxed example. Even at this price though, you've got yourself a timeless bargain. 🗖 📥

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London, NW6 6YR

A HEAD OF THE GAME

A decent headphone amp is just the thing when the rest of the family are settling down for Eastenders and all you want is audiophile entertainment. Simon Pope tests two top spec models. . .

SUGDEN HEADMASTER £599

rom the stalwarts of traditional high-end British hi-fi - a company that never pamper to whims or fads - comes one of the quirkiest little bits of kit on the market, with a witty name to boot! The Class A Headmaster is a headphone amp that also doubles as a basic but high quality preamp with three line inputs. It's style follows that of the new Sugden Bijou/Master Reference 'midi' size items, but with a different finish .The look is pure high-end, with a fantastic finish and high quality matching machined knobs. The fascia is simply furnished with a selector knob, volume control and a single socket for headphones, but a handy remote control for volume is also supplied, for those wish to stretch their headphone wire across the roomt

As both a headphone amp and indeed a simple powered preamp, the Headmaster has all the properties Sugden are famous for. Namely fluid and lyrical musicality and depth of sound. You'll get no hi- tech detail or over intricate sterility but a somewhat dry (in the best possible way) and organic sound that will have you reaching for the Jecklin Floats and not caring how daft you look in them! You'll also be reaching for the majority of your record collection as the sound is so easy going that listening to your

favourite tunes is never a chore or a bore. Main traits are smoothness, fullness and richness of sound married with a good sense of detail. It's a presentation you can enjoy even for prolonged listening. Add to this the fact that it also doubles as a damn fine line preamp which will pair up even with the company's top spec Masterclass power amps and you have a bit of an audiophile bargain. An unusual and highly recommended bit of kit.

Audio Synergy Tel: 01924 404088

CREEK OBH-11SE £230



he OBH-11SE is the more expensive of the two identical looking headphone amps in the OBH range and consequently has the higher specification and better quality components. It's a simple design and far more of an accessory

and less of a full scale product than the Sugden Headmaster. Don't let this sway your opinion, however, as this is a very finely crafted bit of gear; what's important here is what goes on in the inside. The OBH-11SE is a 'Class A' amplifier with zero feedback which, unlike the 'ordinary' version can drive two pairs of headphones at the same time. Compatible with any source at line level, the 11SE has just a single input and output and is powered by Creek's very fine separate OBH-1 or OBH-2 DC power supplies. When both headphone sockets are used, the output from each socket is identical; if only one pair of headphones is being used then the impedance on each socket differs to give a better match with the choice of 'phones.

Sound wise, the IISE is very good. With an excellent SACD hybrid disc of Sicilian Medieval songs on the Fone label there was good ambience and space and a high level of detail. Beyerdynamic and Sennheisers headphones provided fuller and rounder results than the Jecklins (from both headphone sockets), giving an enjoyable and involving listen. Intricacies such as bowing in chamber music were highlighted well and vocals had a natural and realistic presence bereft of any synthesis. More expensive headphone amps bring a touch more smoothness and subtlety but this is definitely one to consider carefully at the price and another little gem from the house of Creek!

Creek Audio Tel: 020 8361 4133 www.creekaudio.co.uk

HI-FI WORLD JUNE 2002

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ALL TOGETHER NOW

Unison Research P30K

P30K

Unison Research C5P

Unison Research have a knack of producing eye catching valve amplifiers with a nod to modern style and old technology. Their latest pre and power amps come under our microscope. Simon Pope reports.

C51

here are two schools of thought when it comes to amplification. Most prefer the drive, clout and trouble free practicality of solid-state. On the other side of the fence sit a small but ardent group that swear by the thermionic valve. The traditional valve sound is one of warmth and richness coupled with midrange transparency and musical insight.

Those who sit on the fence either plump for a Mosfet design or a valve/solid state hybrid, hoping for the best of both worlds, sometimes getting the worst.

The complications that come with valve amps such as tube wear and excessive heat are simply too much for some, who wish for a more hassle free option. But it needn't be so bad. Valve amps can be made that are user friendly, aesthetically attractive and able to bridge the gap between solid-state and esoteric tube designs. One company that takes this design approach is the Italian stable of Unison Research, famous for their lavish use of wood. These new tube amps from the company represent the top end of the scale as tube amps go, because



The P30K has taps for 2-16ohms for accomodating a variety of speakers

they are single-ended and pure Class A as a result. You can't get more pure than that. Yet their design and technology comes with a relatively humble price tag - one that's at least a half that of other similar valve designs.

The preamplifier half of the combination is the new C5P all-valve design, featuring four line inputs plus an all valve MM/MC switchable phono stage. The circuit board has been designed to keep intrusions to the signal path down to a minimum and special attention has been paid to layout, to minimise capacitance.

The phono stage employs three twin-triode valves in a pure Class A design and the phono board is mounted in the top section of the chassis, on rubber suspension to reduce microphony. The amplifier is finished with typical Italian flare and a fine eye for cosmetic detail. The usual hardwood Unison front panel is there, this time with a striking row of linked green LEDs. Attractive machined stainless steel input and volume knobs and the company's trademark radiowave remote volume control is included for those who wish to raise or lower the volume whilst rummaging in the garage.

The matching P30K power amplifier was designed to deliver the

highest possible output whilst retaining the openness and transparency of a pure Class A parallel single-ended (PSE) design. The P30K power amp uses KT88 valves in the output stage (accompanied by two twin-triode ECC883s) to deliver a quoted 30W of power. When used as a monoblock this can be doubled to 60W with the quick flip of a switch found on the rear panel. It's an extra touch of versatility.

Also at the rear are a selection of high quality 'speaker connections with taps on each channel ranging from 2-16ohms for detailed matching of all types of loudspeakers, including those with difficult impedance characteristics.

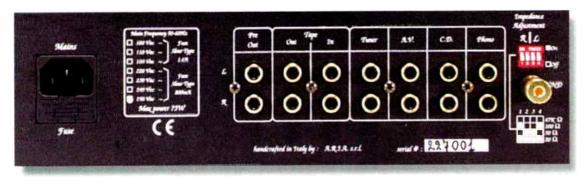
In keeping with a single ended design, the power supply and output transformers are key elements. Both of these are designed and, as always with the company, made in-house after "pain staking" research and development. It's an ideal amp for Bulgarian weight lifters, being built like the proverbial brick outhouse and weighing in at a not insubstantial 25kilos.

To assess sound quality I linked the amps to a pair of highly sensitive Living Voice Avatars. For a more difficult load I also used Jamo's Concert 8s (now D80!). Source material was courtesy of Meridian (206.24 CD player) and a Michell Gyro SE with RB300 with an Ortofon Kontrapunkt A moving coil cartridge.

Parallel single-ended amps bring out the best and worst in people. Some revel in their transparency and detail whilst others find the sound a little too fey and lacking in breadth. However, the first thing that struck me, sound wise, was the beefiness of bass and rhythmic grip - generally not characteristics of the breed. Here was a PSE design that also had bass extension - a veritable middle finger to all the cynics! Whilst not quite as tight as, say, a Krell monoblock the C5P/P30K combination still had plenty of life in the lower regions and never succumbed to flabbiness or sloth.

One thing to note, though, is that these amps do like a good recording. Ploughing through my collection of a few sonic nasties such as Dodgy's 'Greatest Hits' and Skunk Anansie's 'Weak' resulted in an overall 'squashing' of the sound as the amps highlighted the compressed nature of the recordings.

More refined fare, though, brought marvellously detailed yet powerful results. Paul Weller's ubiquitous but classic 'Stanley Road' CD saw the amps delivering a full



C5P has a range of line inputs and an optional phono stage

JUNE 2002 HI-FI WORLD

and involving sound with good emphasis on vocals and midrange guitar detail. There was also good drive and control to the sound, with the bass guitar and well utilised drum kit having a fine 'groove'.

The detail available was even more pronounced with Eric Bibb's 'Good Stuff' HDCD on Opus3 records. The simple yet natural nature of the recording saw the amps responding accordingly, with a pure sound - acoustic guitars and harmonica especially - having a genuinely 'see-though' quality.

Large scale classical works in the shape of Bruckner's ninth symphony on CD had breadth and depth with detailed and spacious woodwind and a good sense of scale. The only gripe here was a slight edge to the upper register of the violins when pushed but this is small fry when all is considered.

Another classical disc of Fauré and Ravel piano Trios (SACD hybrid on Hyperion) sounded effortless and typically 'acoustic' in a way that only the valve can deliver. Those with a large vinyl LP collection will be glad to know that the C5P has as sweet a phono stage as you could wish for. Switchable on the back panel, it gave a natural and highly detailed response with all types of music, even making the best of bad recordings (making it not quite as fussy as the line inputs, strangely). A good phono stage is a blessing, but a good valve phono stage is simply mana from heaven, and the C5P has one!

OK, so this combination may not have the ultimate see through appeal of the very best PSEs in the business but these can cost the price of a new Mercedes. No other company I can think of offers quite the combination of valve amp sound and build quality as this. The Quad combination comes close, but is a push-pull design and the overall sound is somewhat softer around the edges with less bass extension and speed, for example. The Unison Research pair may at times sound a little too pushed in the midrange with studio based recordings, with vocals a bit hard but this was more prominent with the harder sounding Jamos than with the Avatars.

The C5P and P30K are a fine buy and, all being relative, represent outstanding value for money, similar designs costing at least twice as much. Those looking to make the leap from transistor to valve and have three grand to blog should check these out first...

C5P preamplifier £1195 (with phono £1350)

P30K power amplifier £1750

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MEASURED PERFORMANCE

The P30K is a Single-Ended design using two 6550 beam-tetrodes working in parallel on each channel. The 6550 is a rugged American power valve, upon which GEC based their later KT-88. The two are very similar. Unison Research coax no less than 28W out of this pairing, much more than SE's usually provide. At these power levels the transformers, which must carry a large magnetizing direct current, have to be huge to resist magnetic saturation. The transformers used in this amplifier worked well, tests showed, but the amp was barely liftable. Full power was delivered at 10kHz and 40Hz, the latter being particularly impressive.

Single-ended amps can be as smooth as silk, but they are also a bit limp sounding in real life, because most manage a meagre 3W-9W. This amp should be an interesting and entertaining improvement on the herd.

Distortion levels look high, measuring around 0.4% at 1W right across the audio band. However, it was all innocuous sounding second harmonic. SEs, by their very nature, are pure Class A and do not have crossover distortion, so they measure and sound different. Unison have successfully capitalized upon this set of properties our tests show.

Bandwidth was wide, frequency response running from a low 4Hz to a high 60kHz, within 1dB limits. Where so many valve amplifiers roll down above 20kHz Unison get theirs up to 60kHz. Input sensitivity was high too, just 170mV giving full output (CD)

The disc stage was sensitive enough to take a high output moving coil cartridge, needing just 0.65mV for full output. This is enough for an Ortofon MC for example. Overload started gradually at 4mV. Since moving magnet cartridges actually rarely produce more than 5mV on peaks, for the most part this stage will seem fine for MM or MCs. It is however a bit hissy, with 0.91uV of input noise (IEC A wtd), something that would become apparent when low output cartridges are used.

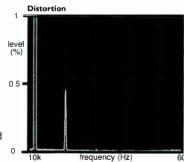
This amplifier was very well engineered. It is difficult to get an SE to deliver a clean and neatly balanced set of measurements, as provided by

the P30K. NK

29watts
4Hz-60kHz
86dB
-98dB
0.4%
mV
ImV

Disc

Frequency response	30Hz-40kHz
Separation	72 dB
Noise	0.91uV
Distortion	0.4%
Sensitivity	0.65mV
Overload	5mV



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LETTER OF THE MONTH

WALL OR NOTHING?

Dear Hi Fi WorldThanks for a refreshingly bull***t free magazine.You're

always reassuringly direct and honest and that's rare and extremely welcome in an otherwise cloudy hi-fi magazine market.

I've got a pretty cheap, but perfectly acceptable separates system running at the moment, which I'm looking to upgrade wholesale. I'm particularly keen on the Cyrus7/CD7 combo. The problem? At the moment the system is up the other end of a lengthy room, yards away from the only listening position and with speakers firing in the wrong direction. If I'm to spend a couple of grand on a new system and speakers I want to be able to sit in the thick of things. Why is that a problem? At the business end of my room (i.e. where the sofa is and, more importantly, the only place the sofa will fit), there is absolutely no floor-space left for floorstanders or stands - unless I sell the TV and fill in my nice open fire

So to my question: is there a wall-

mounted solution to my problem? Are there any speakers (or sub-sat systems) out there capable of being wallmounted that would do the Cyrus combo any justice at all? Budget for speakers: anything from £300 to £800. Again, thanks for a great mag. Best regards Tom Blakeson

You're not one to mince your words, are you Tom? Thanks anyway! As far as your query is concerned it brings up a number of interesting points. Firstly, most 'speakers that are put up on walls will sound OK as long as you're not a dedicated audiophile and merely want to have music filling your room. If you want to experience imaging, sound staging and all the rest of it and be really "in the thick of things", wall mounting may not be the answer. It's a matter of priorities. If you have to wall mount, pick up something like Wharfedale's Diamond 8.1s, which are as neutral sounding as you're going to get in a budget 'speaker, and front ported. Both of these factors will cut down on bass boom, which is the main problem of

wall mounting, especially with corner placement. Otherwise an infinite baffle (closed cabinet design) such as NHT's SuperOne could be equally well suited.

The best position on a wall is at 'stand height' where you'll benefit much more from imaging and staging than if mounted high up or, worse, in the corners.

As wall mounting isn't really the ideal option, don't shell out too much as the performance will be slightly compromised. Stick maybe to a £200 maximum - think of it thus: you wouldn't mix Coke with a malt whisky, would you?

There is one last option, that of the sub-woofer/satellite system. The best for you is perhaps Mission's fs2 system using NXT flat panels. Available in a stereo pair with matching (small) sub that can be chucked behind the sofa, these tiny panels give a good all-round sound and are designed for wall mounting. Being NXT there is no extreme directionality and the sound is better distributed through the listening room. SP







if you have to wall mount the Mission fs2 system could be the best option

II FINAL VINYL?

A while ago, I bought my first new set-up for many years. Being a novice, I went for a well-regarded same-brand system the TEAC Reference 500 - comprising multi-play CD mini-disc unit, integrated amp/tuner and cassette deck. My primary reasons for selecting it were threefold - it sounded good in the demo room, the build quality seemed superior to similar offerings from Denon and Pioneer and it had a phono stage. The speakers are B&W DM602. The most important element - the turntable is a Dual CS505-4, thanks to the name, easy speed change and reasonable sound. However, having got used to a half-decent system, I now want to upgrade, starting with the turntable.

The TEAC still seems as good as new but I will want to change in due course, possibly to a Cyrus - I am not confident enough to mix brands - and space is an issue. The next turntable I want is to be my last (we all say that, don't we?) and I am prepared to spend up to a grand so that the turntable is ready for my next level system. Therefore, I don't want the TEAC to restrict turntable selection. I want to switch speeds without dismantling the unit, something with a footprint that does not exceed 45cm in width, for the turntable to look the part and something that will not be embarrassed by connection to a higher level system than the TEAC. I don't know whether to go for MM or MC and the implications for my amp? What are the pros and cons?

Also, should I buy new or secondhand? Can I use MM or MC with a

turntable or are they designed with one or the other in mind? If I go for a unit without a tonearm, am I okay with a standard mid-range such as the RB250/RB300? What are the issues surrounding power supply, separate motors and such like? What about classic units such as the Technics SLIO? I have considered the Michell GyroDec SE, Project RPM4, Origin Live turntable kit, Thorens 166, Rega Planet, Pink Triangle Tarantella So, there you go - I am confused! Any advice would be appreciated for a less knowledgeable enthusiast. Many thanks,

Dominic.

Your shortlist is good, but I'd narrow it down to either the Michell or the Pro-ject RPM-9. Ultimately the Gyro is considerably more capable (and more upgradeable) than the RPM-9, but the latter is a great value package if you consider the deals available with Ortofon cartridges. Only you can choose between the two - I'd opt for the basic Michell with RB250 tonearm and a starter cartridge like **II>DEM DIFFICULTIES** the excellent (and oft overlooked ATIIOE). As you're a bit of a novice I'd rule out the OL deck, the Thorens is a fossil, and the PT is outclassed and badly built. However, you could always go for the £619 Rega P25, which would be a great improvement on the Dual (but not really up to Gyro standards). The main problem is that it isn't easily upgradeable, and you might find it wouldn't do well as a 'last' deck.

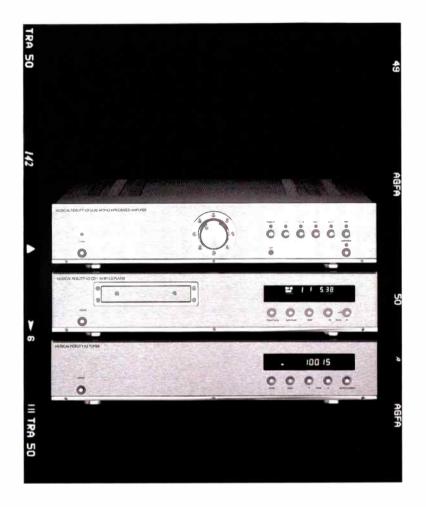
Turntables in this league will all work with MC cartridges, but some are better than others. Generally the Rega RB250 is the arm to have, especially with the Origin Live counterweight mod - it's a lot better than the Pro-ject arm, even in carbon-fibre RPM-9 guise. More important is your TEAC's phono stage - the amp itself is surprisingly good for its type, but the phono section is invariably a bit of an afterthought. My advice would be to buy a Creek OBH-8SE phono stage as soon as possible to use with the TEAC. This will stand you in good stead for future upgrades, too.

The new vs. second-hand dilemma is older than time itself, but generally it's far better to go for new (or nearly new) if it's turntables we're talking. They've come a long way in the past fifteen years, as many who migrated to CD in the eighties are surprised to find out! Much progress has been made in the area of power supplies (early nineties) and off-board motors (late nineties), and now it seems DC motors are in A classic Technics SLIO (do you mean SPIO?) is a beautiful thing to behold, but quite a way behind any Michell, high-end Pro-ject or Rega. Theoretically, independently sprung designs like the Gyro are superior to non-sprung decks like the Rega or Pro-ject, and the difference becomes more and more apparent the higher you go upmarket.

If possible, go for MC cartridges the upside is that they tend to have a much more lively, musical and sophisticated sound, but you'll need a decent phono stage, which is easier said than done. A great compromise at your price level is Dynavector's £199 DV10X4, which is a high output MC offering (something of) the best of both worlds. DP

Dear Mr Pope,

Following on from Mr. Keating's letter on LP12 upgrades, I have been banging on about the difficulty of deciding on and auditioning turntable upgrades to anyone who will listen for some time. No one listens by the way, but I'm not bitter. I have had so much vague, conflicting advice I don't know where I am. In particular the question of power upgrades is a very expensive one. I have an LP12 Valhalla/Ittok/Audio Technica



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MUSICAL FIDELITY

OC9 and I have worried over a Naim Armageddon or Origin Live DC motor. I am glad you suggest the latter. It was my view too, not least because it's less than half the price, but how could you ever compare them? I wondered about an Origin Live modded RB250 but was advised by a dealer that it did not give a good result on the LP12! What's a guy to think? My cartridge is a weakness and I thought of a Kontrapunkt B (I'm allowed to dream). Another dealer said Ortofons didn't sound musical on the Ittok and a Dynavector would sound better. I think I'll go back to my Dansette record player. You knew where you were with that!

Best Wishes

Dr David Wise

P.S. In the unlikely event you print this, I'll try and get you a can of John Smith's

Many thanks for your concern, Dr. Wise. I remember our meeting well on the staircase between floors 2 and 3 if I'm not mistaken. Anyway, being a magazine editor is a tough job, but someone's got to do it, as they say! For your little turntable problems I'll pass you over to 'in house' turntable tweak expert, Mr. Price. My personal favourite tipple, incidentally, is a chilled glass of Tio Pepe before bed! **SP**

Why thank you, Mr. Pope! I take your point - it's nigh on impossible to hear every permutation of turntable 'tackle' these days, but I suspect I've heard more than many. I'd go for OL DC motor too, on account of its superior sound (to the Naim) and far lower price. I'd also go for the OL modded RB250 - I had a standard RB300 on my LPI2 and it comfortably beat my lttok in every respect except bass. In particular, the Rega's midrange detail and imaging was a revelation. With this in mind, the latest tweaked RB250 should be a tremendous improvement and will also match your AT better.

Ultimately though, I'd go for an Ortofon Kontrapunkt B or Lyra Lydian Beta as soon as possible - the OC9 has always been an overrated cartridge and isn't really up to the standards set by your deck. Dynavectors are superb, but the DV17/2 (which falls into this bracket) is less price-competitive than the company's cheaper fare. Another approach would be to get Linn's own Ekos tonearm (which is still a superb arm and possibly even more musical than the OL RB250, if a little less tonally pure) with a starter cartridge like an Audio Technica AT I 10E, but that's probably taking the 'sourcefirst' philosophy to extremes. So, can I claim a glass of Jacob's Creek Chardonnay? DP

I have been pondering the next upgrade to my system, and have now narrowed it down to two items: a turntable and phonostage, or a new set of speakers. I have around £350-400 to spend. My system currently comprises an Alchemist Kraken Mkll integrated, a Marantz CD48 and Eltax Symphony 6.2 speakers. The interconnects are OED and the speaker cable is Naim NAC05. Until recently, I was certain that I needed a new source for my system. However, my friend recently purchased Proac Super Tablettes for his system and the sound difference was incredible! I have an idea of the speakers I would like which come within my budget with ATC SCM7s (which I can get for £375 with a trade-in) being the best I've heard at the price. As for turntable and phono stage, a Systemdek IIX and a Musical Fidelity X-LP would be the combination I would be most likely to buy.

I would appreciate it greatly if you could recommend any other speakers or turntables within my range. I listen to a wide range of music, so they must be good all-rounders. Detail, resolution and musicality are the main aspects I am looking for. Any help would be greatly appreciated!!

Thank you Nicolas Adie The most obvious option, it seems to me, to gain the best possible sound is to trade in those Eltax for another pair of transducers. If you're happy with the sound of the ATCs. then go for these; they're dry and a bit bass thin but very detailed. You'll certainly get a cleaner and more detailed presentation from these, as opposed to the Symphony 6.2s which will sound unfocussed and wooly in comparison. Other options could be Mission's 780s at £300 which will have more warmth and space than the ATCs, or pushing the boat out to £500, there's Epos's excellent MI2s, which have space. air and a good solid bass response.

After you've replaced the 'speakers you can then save up for your turntable. Perhaps your best bet would be to opt for Project's RPM4 - a stylish little spinner for £300 with a more than decent sound quality that makes it a true audiophile bargain. It's supplied with the reliable but not brilliant Ortofon 510 Mk2, which can either be changed for another option at a similar price or upgraded with trade-in at a later date. You could match this with Creek's OBH-8 (MM) or OBH-9 (MC) phono stages (£110 and £130 respectively), depending on final cartridge choice. If you want a cheaper phono stage option with the view to upgrade at a later date you could always consider the Project phono box which can take both MM and MC cartridges for a bargain £40.SP



The RPM4 is a bit of a bargain!

II> REFERENCE NEEDED FOR SYSTEM CALMING!

Firstly thanks for an excellent magazine. My system comprises an Arcam Delta 290 integrated and power amp, Delta 280 tuner and 100 cassette deck. CD replay is via a Linn Genki which has been a recent upgrade and has had me going through my CD collection listening with amazement.

Record playing is accomplished with a Thorens 160 with a Rega 300 arm and Goldring 1042 cartridge. I built my own plinth for the Thorens and have it sat on metal spikes which can be adjusted to get the deck exactly level. Sound quality does beat the Genki!

I am also very much into recording and have a Tascam DAT player (Da-PI) hooked up to Tape 2. This replaced a Tandberg reel to reel which my wife never got on with. Being a guitar player I also have a Tascam porta studio hooked up to the aux. and am impressed at the quality that can be achieved from cassette running at double speed and going through a DBX noise processor.

Speakers for my main room are Ruark Talismans and on the two B outputs of the amps I have Mission 70 speakers in the kitchen and conservatory.

I'll now get to the point of my letter. Even though I am very happy with the sound I feel the Talismans are a little too polite and am looking to upgrade them. What I have in mind is the Kef 1.2s which are a similar size and from your review will sound good in a small room (12 by 12). Do you think the rest of my system is good enough to warrant them? I don't want to change the amps as I need all the inputs and outputs. The only thing I'll probably upgrade is the Genki when DVD audio or SACD are finally settled. Your opinion will be greatly abbreciated

Rich Willerton.

Well, congratulations on a slightly bananas (in the nicest possible sense) system - a true Hi-Fi World set up! Not too sure about the double speed tape but each to their own. I used to own a couple of Revox reel-to-reels which, as much as I persuaded her that they were a style statement, my wife never got on with either, so they no longer grace the front room (or any other room, for that matter).

To get to the point: yes. The KEFs are a very good buy and give a taste of high-end smoothness and detail in the old school mould. The latest Reference models now employ a "hyper tweeter" ready for DVD-A and SACD information. The 'old' models have just one Uni-Q driver. They offer a sweet and full sound that never grates and will give many hours of enjoyment. They do indeed work well in smaller rooms (as my 14ft x12ft room confirmed) and won't overwhelm in the bass department, but still have enough to impress.

As for the Genki - it's a fine little player for the money and you'll probably hang onto it a lot longer than you ever imagined as the real growth of the new formats is still a bit of a twinkle in the record company bosses eyes! **SP**

II>HIGH RES RECORDING

After six years I am assembling a new computer with the intention of using it

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JUNE 2002 HI-FI WORLD

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for a wide range of audio options. However, I initially want to start archiving vinyl onto CD-ROM with the best possible sound. My card of choice until recently was the Guillemot Isis, with my main reservation being the lack of 96kHz, 20+ bit recording capability. However, just released with 24/96capability are both Creative's new Extigy card and the TerraTec EWS96M, Presumably after over two years, Guillemot also has a 24/96 successor waiting in the wings? So who offers the best ADC for under £250? I will have to decide in the next month or two, and no doubt live with the result for sometime.

By the way, I'm glad the cactus damping was a spoof, as some of the larger Echinocactus grusonii and relatives in the photo must be over 20 years old. If you really want to use cacti for damping, place many large cacti around the room and in corners. They come in columnar and spherical models for this purpose, the more spines the better. Unfortunately you need to return them to proper growing conditions fairly promptly, or your dampers will up and die! Is DP's Cactus Damping truly 'organic'? I suppose it would be, if doused with organic fertiliser (i.e. bull s***)! Richard

Cactus Damping is the way forward, a credo, a design for life, a call to arms for audiophiles everywhere. As you yourself say, they make great diffusers. Got a standing wave problem or an unwanted resonant mode - then get a cactus!

Now to the less rarefied climes of computer audio. Right now the answer for you is the aforementioned TerraTec. The Creative is a great package, but not as good for serious transcription use. The problem is that if you buy anything now you're shutting yourself off to a number of forthcoming 24/96 cards and converters which are currently in the pipeline - wait till Christmas and you'll get a far better choice. Watch this space! DP

II>IMAGE CONSCIOUS

I am a Brit living in Belgium and am currently planning to replace my hi-fi system. I do not have the possibility to audition widely as the opportunities here in Belgium appear to be very much more limited than in the UK, so some astute pre-selection is called for. My tastes in music are almost exclusively in the classical and jazz fields. I do not need an all singing, all dancing feature-laden set up, but rather a minimalist system that brings out the best in my CDs.

After much thought and comparison (so far limited to price and reviews). I am persuaded that I should really give Audio Analogue a listen. My preference would be for the following components: Audio Analogue Paganini CD/Bellini pre-amp/Donizetti power amp. Because of the severe limits on speaker placement I need speakers that can handle corner placement, I have read good reports of the Audio Note AZ Threes which are designed with corner placement in mind. However, they are not the most discrete of speakers (large and less than pretty!). My other consideration is a pair of Mission 782s. Provided they were placed a little out from the corner with the bass speaker directed inward (to avoid boom from the side wall) do you think these speakers would be able to handle corner placement? Just as importantly, which of these speakers in your view would more happily respond to the Audio Analogue set up? I look forward to hearing from you. **Reg Green**

I can almost answer this in real time, Reg. I've just nipped downstairs and fixed up my 782s with Audio Analogue amplification. This was just to refresh my mind as I once used the 782s with a Puccini SE as a mid price reference and found it to be a great match, with fine imaging and great insight into recordings. And so it remains. The other problem with the corners can be sorted by a little moving and tweaking. I find that the 782s will work in corners OK, even in my boomy room with wooden floorboards with at least 3" of empty space under them. They even work very well (unlike many other brands) firing straight down the room (ie. without any 'toe-in') and you'll lose no imaging properties due to the company's inherent mastery in this field.

If you're worried about bass boom, placed with the side firing bass units facing inward, you get a tighter bass sound, and that pristine imaging is highlighted further. The Audio Notes are by no means bad (aesthetic point, taken) but work better when matched to Audio Note valve equipment. They bring out the natural vibrancy in the design which would be somewhat lost with the solid-state Audio Analogue amps. Hopefully you'll find this a combination that will sound equally as good the morning after a session on the Trappist beers! SP

II>POWER PLAY

I'm thinking of upgrading the Basik power supply on my LP12 to either the Naim Armageddon or the Lingo. What sort of benefits might I expect? Will I think "wow" when I listen or will it be more subtle? Which one should I go for? This will be fed to a Naim 72/Hicap/180 to Shahinian superElf speakers. Might my money be better spent saving up for a new arm such as the ARO? I also have a Naim CD3. Bruce Rhodes Durban South Africa

This is a great question, Bruce - on a philosophical level if nothing else! Assuming you've got an Akito on the Linn, you'll get a big improvement going to the superb ARO. Likewise, an Armageddon or Lingo PSU will transform your sound, but in a very different way. First the arm - the ARO will give you a far more musically cohesive performance. You won't find massive gains at the frequency extremes (especially with a unipivot), but you'll find the LP12 suddenly 'gels' and 'coheres' and finds its true purpose in life, which is as we all know, to make sweet music.

The PSU mod (I'd go for the Lingo, or if you're DIY minded the OL DC motor) will bring real firmness and confidence to the sound. You'll find tighter, stronger bass, better stereo imaging and depth perspectives, less mush, more midband clarity and crisper treble. In a sense, the arm can't do its proper job without the PSU, and vice

versa, so specifying a preference is like comparing your eyes with your ears - both ultimately come in rather handy. Follow Ivor Tiefenbrun's much vaunted 'source first' credo and get the basics sorted ('scuse the pun) by starting with the power supply change. DP



The m51 heralds the start of Mission's new, sci-fi styled m5 series. Simon Pope auditions the baby of the range.

n the autumn of last year a press release was issued on behalf of Mission inviting audio scribes to the launch of their latest product in a posh (not to mention very expensive) London hotel. You can guess what the new product was - a stylish and very, very expensive new loudspeaker.

> Some hacks were surprised, not to say shocked, that a company who are undoubtedly one of the most consistently impressive budget/midrange manufacturers should release the £20,000 Pilastro. It's as fine a high-end loudspeaker as you'll get, with a striking appearance that's both modern yet beyond fad. The Pilastro has been a great success, silencing the sceptics. There are plenty of rich people there are out there it seems!

> It was inevitable that the influence of the Pilastro would filter down to Mission's new designs. The new replacement range for the classic 75 series, the m5 series, bears more than a striking resemblance to the Pilastro in terms of styling. Like the 78 series, the range will comprise three models - two sizes of floorstanders and a standmount (featured here), plus the ubiquitous centre 'speaker and subwoofer.

> In the entry level m51 we have, for a £300 standmount, a pretty hefty customer with a deep cabinet and a nice ergonomic look, the rounded corners and edges offering more then

just a passing

resemblance to the Pilastro. Mission's fourth generation Transverse Folded Cabinet Technology (TFCT) is employed in the m51, giving a solid cabinet with a 38mm thick front baffle and a 25mm MDF cabinet with real wood veneer.

MINON

The m51 makes use of a newly designed drive unit. Its bass/mid unit is a 150mm 'Paramid' driver, chosen for its midrange clarity and bass quality. Whilst the 78 series uses a Keraform 'porcelain' drive unit, the m51 employs a cone formed from a sandwich of Aramid fibres fitted with a highly pliant nitrile rubber surround, for superb bass response.

The 25mm microfibre dome tweeter found in the m7 range is unique to Mission and is mounted inside its distinctive silver moulded front plate. As is usual with all Mission 'full range' products, the drivers are configured in house style Inverted Drive Unit geometry where the treble unit sits below the bass/mid in direct opposition to the norm.

This has worked well in the past, providing good integration and balance. The silver moulded front panel continues the rounded theme, profiled edges used to ensure minimum interference from diffraction effects. At the rear there is a sizeable antiturbulence port and two pairs of connectors for single

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or bi-wiring. Inside the box, audiophile grade high power silicon steel inductors and polypropylene capacitors are used in the crossover.

The main sonic criteria for the M51 was for it to produce a sound that excels in both midrange and bass, delivering the kind of bass you'd normally expect from a floorstander. To see if it met these criteria I used a Cyrus 7 integrated and our own KiT6550 40W valve amp with NAD's top range Silverline CD player.

As far as immediate impressions were concerned the 51s gave a good, full sound with the trademark excellent Mission imaging in full operation. With Goldie's Saturn Returns CD, I gave the Missions a chance to see what they could do with some seriously low and powerful bass. To be truthful, at first there wasn't an awesome amount of depth, but what was there was fast and tight and after all, quality is always preferable to width (or rather, depth)! Moving the 'speakers slightly closer to the rear wall, within a foot, brought a more rounded response to the bass but the dexterity was still there, a very fine trait in a budget/midrange 'speaker.

Playing through a selection of my usual review discs highlighted the fact



that the Missions were a bit fussy when it comes to recordings. In this respect they are a true audiophile 'speaker. The well-produced Goldie disc had plenty of presence and breadth but the more 'compressed the music became, such as with modern 'indie' type rock recordings, the more the 51s tended to shout and spit out the notes, which was more pronounced than the difference found in the similarly priced stablemate, the 780.

The 'speakers midrange, which was nice and open with good recordings, became a trifle too hard with such fare. However, get a good acoustic or even electronic recording such as the Fone SACD sampler or Orbital's 'In Sides' and the m5 I s will really sing, loosening up in all the right ways.

Treble was smooth and well detailed and there was a very immediate sense of timing to the sound, which although fast, isn't too forward. With the Orbital disc nice nuances in the upper frequencies were highlighted and the overall wide frequency range of the music was well displayed - no mean feat from a £300 standmount.

The classical Fone disc showed that no matter what the style or genre, if the source is good then the 51s will perform to the best of their ability. Although perhaps a little too dry with this type of ambient recording, the Mission's nevertheless showed that when it comes to presence they have it in abundance. Instrumental timbre wasn't bad here and vocals were pleasantly natural, whilst earlier in a Soundgarden rock CD, they sounded synthetic and pushed.

Overall, the new m5 Is are a fine addition to the current crop of midrange/entry level standmounts, in which there are many strong contenders. There's a problem with the in-house competition of the 780s, which are a fine 'speaker in their own right. They offer slightly less coloration and a little more detail. However, they don't have the speed and depth of bass of the 5 ls - the choice is yours here.

One other thing to note is that the 51s only perform to the best of their ability with good equipment, recordings and even stands, so they are fussy. Any hard sounding source or disc will be accentuated. That said, if you're listening area is small to medium and you want a 'speaker that delivers a room filling and balanced sound, they are well worth an audition. Mission know what they are doing when it comes to 'speaker design and it shows.

Mission m51 £300

Symphonix Ltd. Stonehill Huntingdon Cambs PE29 6EY Tel: 01480 451777 www.mission.co.uk

MEASURED PERFORMANCE

Mission like their 'speakers to sound clean and fast (like ATC in this issue). They tend to response-tailor so that the top end is a little prominent, making for a detailed but bright sound.

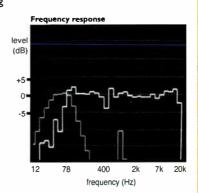
The new m51 sits very much in this mould . Not only does it have absolutely no sign of a crossover suckout, but it also has slightly rising treble. The tweeter's output is very smooth, suggesting it will be colouration free and quite amenable to listen to. Cymbals are likely to come across strongly though and violins may well seem prominent in contrast to the norm. However, the m51 is fundamentally an accurate loudspeaker, staying within about 1dB of perfect response flatness – quite an achievement.

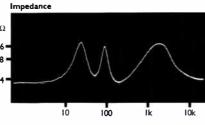
There's some sign of an internal rear wall box reflection around

500Hz that may be heard as a "whoomph" or a little boxy colouration. Otherwise, response runs flat down to 63Hz before rolling off. Below this the port, tuned to 48Hz, works to carry output down to about 25Hz. It has a broad flat output, suggesting it applies good acoustic damping. The impedance curve suggests likewise.

At 85dB, sensitivity wasn't high considering the impedance of the 'speaker is low at 5.3ohms. As usual it uses a 4ohm bass unit to keep voltage sensitivity up, but this means it demands quite a lot of current from an amplifier. It should, ideally, be used with a Ω beefy amplifier. I6=

The m51 will sound clean and fast. It will certainly have the characteristic Mission sound and should be fine for Rock in particular. As always with Mission, it is very well engineered. NK





CORC The m51s are very well

World Verdict

engineered and have a taut and tuneful bass rarely found at this price point. Can sound hard when III matched and fed bad recordings, though.

feature

NEW ADVENT



Bewitched, bothered and bewildered? David Price cuts through the techbabble and tells the story of multi-channel audio, and details the latest 'high resolution' surround sound formats.

he words 'home cinema' still send shivers down the spines of many self-respecting audiophiles. After all, big black boxes packed to the gunwales with digital signal processing trickery, serious graphic equalisers and just about every flavour-of-the-month gimmick are hardly the stuff of dyed-in-the-grain audiophile systems, are they? True enough, but don't use this as a reason to dismiss multi-channel audio out of hand.

Stereo, lest we forget, is just one particular take on the problem of recreating a recorded acoustic in the home. Ever since a squeak came out of the very first loudspeaker, audio engineers have been scratching their heads over this, and have come up with a variety of solutions. Of course, the film industry has driven most of the development of multi-channel - as far back as the 1940s, Walt Disney used 'Fantasound' surround sound technology to heighten the experience of his animations - but don't let that put you off. Creating a believable acoustic is just as important in the home!

BACK TO BASICS - THE EARLY DAYS OF ANALOGUE MULTI-CHANNEL

MONO

Hard as it is to imagine today, mono is what most audiophiles used until the sixties, and it was capable of incredible musicality when 'done properly'. Monophonic sound is single-channel, unidirectional reproduction using one amplifier and speaker combination. It has an abiding virtue - wherever you are in the listening room, you hear everything identically (room acoustics notwithstanding, obviously). Everything appears from a single 'point' in space and - fascinatingly - even if you use two mono channels, the sound still seems to come from a point equidistant between the two speakers, creating a 'phantom' channel.

STEREO

This was experimented with in various forms for many years before it made it into the home in 1958. Bell Laboratories' system used three channels, whereas the film industry used between four and as many as seven channels in early cinema installations. Two channel stereo in the home came about simply because it was all that LP records could realistically cope with. Then two channel stereo FM broadcasting arrived, further popularising the format and entrenching the idea that 'two channel' was 'stereo'. Now an entire generation of audiophiles has accepted it as the norm, although in truth it's just as arbitrary a way of recreating music as mono or multichannel.

Generally it offers a much more

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feature

URES IN HI-FI

open sound than mono with a real sense of a 'sound stage'. Still, the experience very much depends on the mix. For example, when a symphony orchestra is recorded then even a simple pair of crossed cardoid microphones will capture the space and proportion of the sound. However, studio recordings often follow a convention where, along with various instruments panned left and right, strong monophonic elements are included to give more substance. By mixing, say, vocals to both left and right channels, the singer seems to be in the centre 'phantom' channel. Done well, it can be extremely convincing, but still has its limitations. Earlier stereo mixes were pretty bad - as many Beatles aficionados will attest giving an extremely unnatural sound due to insufficient 'phantom' centre channel content.

techniques which folded the rear channels into the front channels by recording them with different relative phase, although there was also a 'Discrete' system that

used four separate channels. Quad - as it was known -

effectively carried four channels of information within a two channel recording, and could be read by a normal phono stylus and passed through to a receiver or amplifier with a quadraphonic decoder. Although it was never called 'surround sound', and shared nothing in common with the cinema systems, quadraphonic could be justifiably regarded as the forerunner of modern Dolby Surround technologies. Sadly though, the world wasn't ready for it thanks to turntable pick up cartridge (and record pressing) technology, Discrete quadraphonic wasn't practical, and the less adventurous matrixed systems proved a flop due to the high investment required. To cap it all, the systems proved largely incompatible with one another!

DOLBY SURROUND/ PRO LOGIC

Modern surround sound got its first breath of life in mid seventies cinemas with films such as Star Wars, Tommy, and Close Encounters of the Third Kind. A new format designed expressly for 35mm film prints, Dolby Surround used two tracks squeezed into the same space on the print occupied by the traditional mono soundtrack, made possible by the use

of Dolby A noise reduction. Of course, two channels weren't enough for cinema use (due to the wide gap between the left and right of the screen), but it was impossible to cram more than this on to the print, due to excessive noise. The answer was to use matrixing techniques developed for quadraphonic home stereo, where a centre and surround channel were 'extracted' from the two channel mix using clever signal processing.

Dolby Surround fast became the standard for cinemas all around the world and the advent of stereo video machines in 1978, and then Laser Disc in 1980 (extremely popular in Japan, much less so in Europe) added impetus to the surround project. The arrival of the 'music video' also ushered things along - for the first time people were using their TVs for the enjoyment of music. In 1987, domestic Dolby Pro Logic decoders arrived, making it possible to decode front left, front right, centre and rear channels (often via two speakers) from a standard two-channel stereo source. The main sounds came from the left and right channels, the vocal or dialogue emanating from the centre phantom channel, and the ambience or effects information coming from behind the listener.

Thanks to its limited bandwidth (the surround channel only went from 100-7,000Hz), Dolby Pro Logic wasn't much cop with music but was surprisingly effective with film soundtracks, able to convey the sensation of sounds moving from front to rear and left to right. This said, it has been used for music-only applications - record companies including Delos, RCA Victor, BMG Classics and Concord Jazz have all produced Dolby Surround-encoded audio releases, with little success.

FUTURE PERFECT - THE INEXORABLE RISE OF DIGITAL SURROUND: DOLBY DIGITAL

Dolby's much vaunted digital format arrived in cinemas in 1992. While the 35mm film prints used in cinemas retained analogue Dolby Stereo soundtracks for backwards compatibility, an additional new digital optical track was placed between the sprocket holes. This permitted the famous 5.1 configuration that has became the industry standard. Front



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As technology progressed and prices fell, various early nineteen seventies manufacturers began to think there was a market for multi-channel. Thus was born the ill-fated quadraphonic system, which required two extra speakers in the rear corners of the listening room to reproduce specially encoded program sources. Several variants were produced, most of which were based on 'matrixing'

feature

left and right, rear left and right, centre and LFE (low frequency effects) channels are provided, all offering the same quality. However, because the LFE channel only takes around one

tenth of the bandwidth, it's known as 'point one'.

Dolby digital offers a range of special features, such as downmixing from multi-channel discs for stereo listening or Dolby Surround decoding. It can provide dynamic compression to increase the level of quiet passages (making late night viewing/listening a reality) and even route low bass only to speakers capable of reproducing it.

This is all made possible by clever data reduction techniques, using perceptual coding to shave the digital datastream down to one twelfth of its original size. While the format's theoretical maximum bitrate is 640kbps, DVD discs allow only 448kbps in two channel and 384kbps in 5.1 modes. Dolby Labs argues that this, "provides sound quality that critical listening tests have consistently confirmed as on a par with original master tapes". Joseph Hull, Dolby Laboratories' Marketing Communications Manager, calls Dolby Digital, "the final link between the multichannel producer and home listener".



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DTS 5.1 SURROUND SOUND

ERICON

While Dolby Digital fast became de rigeur on the home and cinema surround scene, a renegade format arrived with the appearance of Stephen Spielberg's Jurassic Park in 1993. The famous Hollywood producer took the view that Dolby Digital simply didn't sound good enough for his purposes, and turned to Digital Theater Systems for the answer. There are two key differences: First, running bitrates of 1.5mbps, DTS runs at a compression ratio of just 1:3, which is dramatically lower than Dolby Digital. As any MP3 user will know, this has obvious sound quality benefits. The second advantage is the sound of the actual codec itself - even running at identical bitrates, most believe that DTS sounds superior.

DTS is an interesting point at which movie-driven surround sound crosses back into audio with real benefits. And much of the industry agrees - Pioneer's John Bamford says, "there's something very nice about this codec, everybody goes for it every time". So while DTS is a 5.1 surround system just like Dolby Digital, thanks to its better sonics, it has found itself being used for pure audio

purposes too. Indeed a range of DTS High Definition discs

crew about), fail this DTS disc is

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has sprung up, which because they're actually CD discs but not encoded in the Red Book format, can be played on most standard CD players if you take the digital output to a DTSequipped processor or preamp. As

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almost all DVD (and DVD-A) machines have built in DTS decoding, these should play DTS HD discs without an additional processor.

Right now, you can get DVD video discs encoded with both DTS and Dolby Digital soundtracks. Curiously, the format used doesn't depend on the title as much as the region it's destined for. Many Region 2 PAL (i.e. European spec) discs come with Dolby Digital soundtracks, whereas a surprising amount of new Region I NTSC releases (i.e. from the US) come with DTS sound. This is why multi-region compatibility is such an important issue for movie buffs and audiophiles alike - the former love the early movie release dates, the latter lust after the superior DTS coding used!

DVD-AUDIO

Although this new format has been much celebrated by the world's hi-fi press for 'pushing the envelope' to 24bit, 192kHz digital linear PCM audio, it's important to remember that it introduces a new audio surround format, namely six channel sound in uncompressed 24/96 PCM (using Meridian Lossless Packing which is a compaction, rather than a reduction, algorithm) too. This is arguably the highest theoretical sound quality that domestic multi-channel can achieve.

This offers interesting creative possibilities - not only will discs offer a straight analogue-to-digital conversion of the original stereo twotrack analogue masters (obviously digital recordings can only be upsampled, rather than converted), but a 5.1 mix too. This has to be made in the studio from the original multi-track tapes - essentially 'creating' a new interpretation of the musical work, in a way never previously heard.

It also gives space for the artists to get closer to how they wanted the original mix to sound. Queen's Bryan May, for example, is said to have taken the opportunity of the new release of 'A Night at the Opera' to 'correct mistakes in the original recording'. The repercussions of this are many - we may well be in for a raft of multichannel remixes and a whole new software sales boom as the world goes 'surround sound' on the back of the DVD movie boom. The SACD format growing fast - in s markets at least multichannel is an obvious allure. Thi hybrid release on the audio b label contains stereo CD, stereo DSD and surround

> can be played on any silver disc player as a result (in CD quality). The CD and DSD layers are physically separate, and within the DSD layer there are three individual partitions containing the two channel and multichannel mixes, along with an additional text and graphics area.

Acoustic Triangle is formed by the respective talents of Malcolm Creese (double basis), John Horler (grand plano) and Tim Gerland (soprano and tenor saxophones and bass clarinet). Interactions is an album of "melodic modern jazz with European classical influences", and very interesting it is too - I'd call it Debussy meets Dexter Gordon. Musically adventurous but loving all the same, the content quality is undeniable and the sound is utterly exquisite. In both 2-channel and 5.1 mixes, you get a cathedral-like acoustic in which you sit agnast and apop.

In truth, if your surround system is properly set up, it's quite a lot more impressive than the stereo mix - but either is quite stunning. That grand plano is beautifully deep and sonorous, while the double bass seems to go down to the centre of the earth itself. Saxes sound quite unlike anything you'll get from CD - smooth but raw and breathy. Best of all though is the sound of St. George's in Bristol - the recording venue - which is amazingly spacious, and all the more atmospheric in multichannel mode. Superb.

Title: Interactions Artist: Acoustic Triangle Formats: SACD Multichannel, SACD 2- channel, CD Catalogue: # SABCD 5012

SACD MULTICHANNEL

Another new surround sound format arrived with the advent of Super Audio Compact Disc.While unabashedly a music format (unlike DVD, of course), its co-creators Sony and Philips were enthusiastic enough about multichannel to make it a key part of the specification. It runs up to six channels at the full DSD bitrate, and accordingly the full sound quality is possible, and many discs also carry a standard Red Book layer readable by existing Compact Disc spinners. Like DVD-A, it offers a whole vista of possibilities for multichannel remixes and reissues, and unlike DVD-A is readable in a standard CD player (in two channel CD quality, of course).

Whether this is better than DVD-A 5.1 surround (using 24/96 packed

feature





PCM) is a contentious issue to say the least. Suffice to say that the two respective formats do have different technical specifications. While DVD-A multichannel runs out of bandwidth at 48kHz, SACD multi is claimed to stretch up to 100kHz thanks to its brickwall-filterless Direct Stream Digital (DSD) coding system. While this isn't the place to get into the relative merits of DSD vs. PCM, suffice to say that SACD multi is theoretically capable of superb sound. Right now, the real limiting factor is the quality of the recordings, SACD transfers and mixes, and of the SACD decoders and DACs themselves.

MULTI CHOICE - THE VERDICT

On a purely practical level, surroundsound is not for everyone, as more physical space is required for all the loudspeakers and in the modern world we need as much space as possible.

It's also still early days. Properly done, multichannel SACD and DVD-A can really enhance the musical enjoyment of your favourite albums there really is more to surround sound now than cheesy movie effects. The problem is the paucity of titles available (and the sometimes dubious mixing techniques). In this respect there's a real feeling of deja-vu echoing the early days of Compact Disc, Indeed, Vivante's Shaun Ormond says the worst thing about the software is the sheer conservatism of the titles being drip-fed to audiophiles (although a few specialist classical labels such as Hyperion and Fone are releasing imaginitive SACD titles). "It's all safe seventies rock music, like CD all over again". Quite so, but time is on our side.

Thanks to Vivante Music Ltd (01293 822186) for supplying the review discs. Check out their website at www.vivante.co.uk for the latest high resolution digital software.

review I

ACTIVE

ATC have made a name for themselves on the professional circuit. How will their active 'speakers sound in the home. Simon Pope reveals all with the Active 10s.



alk into many studios throughout the country, or indeed the world, be it recording or mastering and you're bound to come across a product from ATC. Over the years the company have made a fairly formidable name for themselves in the professional monitor market, delivering a well engineered and solidly constructed product that delivers the goods in a professional situation.

Any cynical engineer will tell you there' very little difference between professional audio gear and the stuff that you'd buy in your local specialist retailers. Good professional monitors excel in imaging, transparency and reliability. ATC have become well established in the pro field with their range of monitors and now hope to take a share of the domestic market, like PMC and Bryston for example, with their compatible range of both active and passive loudspeakers and amplifiers.

All the company's products are designed and constructed at its factory in Stroud, Gloucestershire, mixing the traditional arts of handcrafted products with modern computer-controlled production.

The Active 10s reviewed here were introduced towards the end of last year and feature the attractive curved design of the award winning SCM 70ASL system. The Active 10 is constructed from heavyweight, laminated, machined MDF composite with aluminium extrusions added to provide rigidity, as well as improve imaging properties and aesthetic appeal. The standard finish is two tone grey gloss, although other colours are available.

On board we have ATC's own proprietary twin channel amplifier with 'grounded source' output stages and multiple power supplies, which together deliver 200W to the bass/mid driver and 50W to the tweeter. They operate in "Class A" mode up to two thirds of maximum output.

The bass/mid drive unit is the latest version of founder Bill Woodman's 125mm design. Weighing over 3.5kilos, it features the company's "no compromise" handwound voice coil employing flat oxygen free copper wire to apparently help maximise the copper in the magnetic gap. What this drive unit excels in, though, is cone excursion, quoted as being in excess of 20mm, to deliver a healthy bass response. High frequency information is conveyed by way of a soft dome tweeter from VIFA, a nice change from the traditional metal dome of active 'speakers of the past.

For the review I used the Active 10s in conjunction with ATC's entry level preamplifier, the £750 CA2. This was linked to the Active 10s via the XLR connection. Also put into play was my trusty Creek passive preamp with phono to XLR adaptors. Source material was delivered by a Meridian 206.24 CD player.

Placed atop of a pair of sand filled stands the ATC's immediately displayed a fantastically quick and immediate response. Rock recordings in the form of Soundgarden's 'Superunknown' and The Smashing Pumpkin's 'Machina' showed the Active IOs in their best light. Plenty of fine detail was present, with ride cymbals and tom toms in the drum



kit easily discernable. Also apparent was smooth treble, a sign that ATC are turning their hand to audio in the home as opposed to the studio. The soft dome tweeter adds more sweetness to the sound than the more widely used metal domes of most active monitors.

Bass was incredibly fast and taut, with good extension. Bass guitars and kick drums were visceral and muscular, giving real presence and clout to the music - ideal for this kind of Rock, which is completely lost on valves and electrostatics, for

example.

Moving on to jazz with John Coltrane's 'A Love Supreme', the Active 10s showed a surprisingly good midrange, giving Coltrane's tenor sax plenty of room to breathe. Dispersion was impressive, the 10s creating a rare 'out of the box' sound. Again, detail was to the fore but to a certain extent the innate laid back character of the music was sacrificed for such traits, although the reproduction of the recording was fine.

ADVOCATE

With classical I found the ATCs reacted better to chamber music than full scale orchestral. A disc of Fauré and Ravel piano trios on the Hyperion label had good scale and realistic dynamics with superb detail in the bow work. This powerful dynamic capability benefits large scale classical, as does the good dispersion, but the forward sound of the 10s made the brass section in a Bruckner symphony sound a tad hard and synthetic and the violin section unrealistic in timbre.

These are mightily impressive with rock and dance music, where the full effect of their muscular power is best displayed, so if this type of music floats your boat, it might be a good bet to go active with the 10s and buy yourself a passive or cheap preamp to match.

Competition at this price is strong and whilst the ATCs may seem expensive it's worth remembering that power amplification is included! On the flip side, if you like to settle down with a single malt at the end of the night and chill out to some warm jazz or classical you may find their inherently 'active' and full-on nature a bit tiring after a while. All the same, their muscular, forward nature is more refined than that of active monitors using metal dome tweeters.

It's hard to pigeon hole the SCM10s. Many will find them exciting performers that excel in speed and dexterity. On the other hand they just may be a little too much for others.

ATC Active 10 £1299

ATC Loudspeaker Technology Ltd. Gypsy Lane Aston Down Stroud Gloucestershire GL6 8HR Tel: 012885 760561 www.atc-gb.net

MEASURED PERFORMANCE

The SCM10-2 is unusual in a few ways. Being an active loudspeaker it has an on-board amplifier, and the bass unit works into a sealed (Infinite Baffle) enclosure. Because an IB doesn't go as low as a ported reflex, volume for volume, most loudspeakers are the latter nowadays. Once upon a time, before computers were able to calculate the alignments needed to make a reflex work decently, most loudspeakers were sealed like this one – and they gave tighter, more tuneful bass than is usual with a reflex.

The SCM10-2 has a very tightly controlled frequency response that

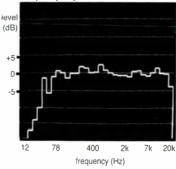
stays within about 2dB total variation right across the audio band, our analysis shows. It is academically flat in fact and 'speakers like this often sound bright in real life, unless used in a well damped room. The complete absence of a crossover suckout and very good driver integration/dispersion also means plenty of treble energy will be produced, providing high levels of detail and insight, but also a fairly remorseless delivery.

Bass should be tight, tuneful and deep, since it runs flat down to 40Hz, before rolling off more slowly than a reflex.

World Radio History

All in all, this is a very well engineered loudspeaker, but it must be auditioned, since it will be 'upfront' sounding. It should also sound unusually clean and fast. NK





HI-FI WORLD JUNE 2002

World Verdict

9996

Well engineered with a

sound. Good dispersion

and imaging but could

powerful muscular

be tiring during

prolonged listening

review I

BIG SOUND, SMALL SPACE

Like the idea of something small sounding big? Simon Pope encounters a poles apart pair with just one thing in common.



II TIVOLI AUDIO MODEL ONE £99

uestion: when does a tranny radio get praise from worldwide audiophile writers? Answer: when it's the American Tivoli Audio Model One! Distributed over here by Ruark, this smart little number is the brainchild of the late and highly respected US Audio Hall of Fame Member Henry Kloss, and it's a real treat.

There a re three main factors that make this product a good one. Firstly, the Tivoli has an attractive aesthetic appeal, nicely 'retro' in appearance (and available in three colours) without looking like a bit of cheapo reproduction furniture. The most striking feature is the large concentric tuning dial which is accompanied on the front by a couple of simple knobs for band selection and power. Secondly, it measures just 8"x4'x5" (w,h,d) and is designed to be placed on a work surface or desk, and last but not least, thirdly it's perhaps the best performing mono radio l've encountered.

Using a discrete technology developed for mobile phones, the Tivoli manages to pull in an impressive number of stations using its internal aerial, and pulls them in with as clear a signal as I've encountered with portable radio. It has a 5:1 gear ratio analogue dial which results in smaller and more precise movement of the mechanism for better tuning. The sound is detailed and warm with a truly surprising amount of bass and threedimensionality to the sound. It's by far the best sound I've heard from anything this size. It has a very natural way with voices, which are rounded and warm, and good BBC broadcasts sound realistically impressive. If you're a radio fan than wants the best from the airwaves in the kitchen you can do no better than this - it's a real eye opener.

Ruark Acoustics Ltd. Tel: 01702 601 410 www.tivoliaudio.com

MJ ACOUSTICS PRO 50 £299

ue to the nature of the market and the swift shift to AV. there are now more subwoofers around that you could shake a dirty stick at but from my experience there are only a few brands whose products really cut the mustard in this field. Specialists such as M&K, Velodyne and, of course, REL produce products that stand out from the crowd. Now there's another contender for the King of Bass crown. New boys MJ Acoustics have recently launched a range of subs that promise to give the big boys a run for their money.

At £299 the Pro50 is a serious bit of kit for the money. A 50W DCcoupled MOSFET amp is the muscle behind the 8" long throw woofer found in the sensibly proportioned chassis and a manageable weight of 8kilos - there's no hope (or fear) of doubling it up as a dining table. Connection, a la REL, is via a Neutrik Speakon and a set of unbalanced phono sockets. The crossover is between 40-240Hz in variable increments and there is a phase control adjustable between 0 and 180 degrees, as well a gain control for each type of input. Black finish is standard but there are attractive real wood veneer options available.

Sound wise it's a fine performer with both movies, and especially music. It has real depth and perspective and when used with an ambient acoustic recording, adds space and clarity to the midrange, really demonstrating its quality. For out and out clout, the sub's dimensions belie its powerful and taut sound. Underworld's pumping

bass line in 'Push, Upstairs'' had the Pro 50 delivering some really fast and powerful low frequencies, hitherto the sole traits of the likes of REL. Rarely do you get this quality of bass from such humble dimensions, and if this is anything to go by the larger models will be crackers. With a hoard of subwoofers out there hardly worth the effort I think the Pro 50 could well be responsible for a handout of P45s!

> MJ Acoustics Tel: 08707 44 50 80 www.mjacoustics.com



accessories

Simon Pope and David Price listen to the latest selection of goodies from the weird and wonderful world of the audio accessory.

ACCESS

from electromagnetic fields that would otherwise build

ALL AREAS

STATMAT STATFEET £20 EACH/£75 FOR SIX

ere's the latest product from the people that brought us the Statmat static eliminator and Ringmat support system. Like the Statmat, Statfeet are made from conductive polypropylene film,with specially formulated conductive ink applied to each side. As a consequence, the company claim, they form a powerful, passive, electrical device in which the size and geometric patterns cut out of them are an important factor.

Statfeet are designed to be placed under one foot of any component to reduce electromagnetic fields and consequently tighten up the sound. Their unique design, using Ringmat Developments' proprietary Statmat technology, claims to break up the interference

up around components from their surroundings. They can be used with digital source players, turntables, amps, televisions - you name it. Statfeet are recommended to be used under only one foot of any component, cone or other form of single point isolation support, where these are used in place of a component's own feet or where a component has no feet of its own. Placement is best at the rear of the component and the company have apparently found they work best on rear right, with the two cut out circles facing toward the centre of the component (except TVs where it should be placed at the front, with the two holes again facing the centre).

Now, perhaps this all sounds like hocus pocus. And you'd be right in thinking as much, except for one thing: the fact that they actually work!

World Radio History

Not a lot mind you - but they work. Just to make sure, a third party was called in to confirm that insanity wasn't to blame and he, too, found the same differences. Don't think these differences are the same as you'd find swapping 'speakers or cartridges, because they are not.

Subtlety is even perhaps too bold a word for the effect, but there is a discernable difference. The overall sound is given a little spring clean as such, so that details such as cymbals, snare drums and vocals are just that one smidgen cleaner and sharper. Also, the staging is extended a fraction to make a larger and better focussed picture. The manufacturer claims that using one Statfoot on top of another will create even further improvements but here, I fear, no significant results were found.

At £20 each or £75 for six the Statfeet are no real bargain but they definitely work, albeit in a subtle way. They are an unusual and in certain regards, a fun bit of kit as you really don't expect an 89mm square of film to change the sound of your hi-fi. Use them on a source player, where they deliver the best results and you could be pleasantly surprised, but don't expect miracles!

> Ringmat Developments Tel: 01277 200210 www.ringmat.com

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Jamo D6SURR Surround Speakers www Jamo D6SUB Subwoofer usen John Shearne Phase 2 D Player John Shearne Phase 3 Reference Amplifier John Shearne Phase 3 Reference Amplifier John Shearne Phase 6 Amplifier Marantz DV700 CD Recorder Marantz DV700 CD Recorder Marantz DV100 DVD Player Marantz DV100 DVD Player used Marantz DVD890 DVD Player Marantz SR7000 AV Receiver see Meridian DSP5000 24 Loudspeakers Marantz SR7000 AV Receiver set Meridian DSP5000 24 Loudspeakers Meridian 501 2 Pre Amplifier Meridian 502 Pre Amplifier Meridian 512 Pre Amplifier Meridian 581 Digital Processor Meridian 558 Power Amplifier Meridian 558 Power Amplifier Meridian 566 24 DAC Meridian 566 24 DAC Meridian ASOL Loudspeakers Meridian M60 Loudspeakers Meridian M60 Loudspeakers Meridian M50 Sutrooofer Mission 77DE Surround Speaker macwave Mission 77DE Loudspeakers maco Mission 77c1 Centre Speaker Inserved Mission 77c1 Centre Speaker Inserved Mission 773E Loudspeakers muss Mission 752E Loudspeakers Teams Monitor Audio Silver St Loudspeaker Monitor Audio Silver St Loudspeaker Monitor Audio Silver St Loudspeaker Monitor Audio Silver 12 Centre Spea Myryad T10 CD Player and Myryad T10 CD Player and Myryad T0 CD Player and Mission SV20 DVD Player and Mission CDVDRV40 DVD Player Panasonic DVDRV40 DVD Player Panasonic DVDRV40 DVD Player Philips CDR70 CD Recorder Philips CDR70 CD Recorder Philips SACD1000 SACD/DVD Player P akore Ploneer DV535 DVD Pla Ploneer DV636 DVD Pla Ploneer NSDV55 DVD 9 Plotieer NSUVSD UVD S) Quad 77 Amplifier Rotsan Caspian Tuner an Rotsan Caspian Tuner an Rotsan Kandy Tuner Rotel RAD'2 Amplifier Rotel RCD930AX CD Play Rotel RCD91 CD Player Rotel RCD91 CD Player Rotel RCD91 CD Player Rotel RCD91 CD Player Rotel RCD95 DVD Player Rotel RCD95 DVD Player Rotel RCD95 TA Placete Rotel RCD95 TA Placete Rotel RCD95 Ta Player Somy DVPS335 DVD Play Somy DVPS335 FVD Play Somy DVPS335 FVD Play Somy DVPS335 FVD Player Som Sony DVPS335 DVD Piay Sony DVPS335 DVD Piay Sony DVPS335 DVD Piay Sony DVPS3000 DVD Pia Sony MDSJ8940 Min Dis Sony MDSJ8940 Min Dis Sony SCD38470 SACD P Sony SCD38470 SACD P Sony SCD38470 SACD P Tag McLaren CD720R Cl Tag McLaren CD720R Cl Tag McLaren T20 Tuner Teac AVH500 D AV Amplifi Teac DVH500 DVD Piay Teach Status CD Project Tashiba SD500 E DVD Pia Toshiba SD500E DVD Piay Toshiba SD500E DVD Player v - n Yamaha CDRS1000 CD Recorder Yamaha DSPAX2 AV Amplifier Yamaha DVDS510 DVD Player awa Yamaha DVDS785 DVD Player awa Yamaha GX500 System Yamaha MX596 Mini Disc Player Yamaha NX596 Mini Disc Player Yamaha RX5200 Centre Speaker Yamaha RX420RDS AV Receiver Yamaha RXV400 AV Receiver Yamaha RXV1000 AV Receiver Toshiba SD500E DVD PI

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Plymouth

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Rotel RCD951 CD Player Base
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Sony STSB940 Tuner (Street)
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Arcam DiVA P85 Power Amplifier Back	£399
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Pioneer DV717 DVD Player Multi Region, Gold
Rotel RD960BX Cassette Deck
Rotel RDV985 DVD Player deck
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Arcam FMJ A22 Amplifier	£62	
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Celestion C2 Loudspeakers	£32	
Celestion C3 Loudspeakers	£46	
Celestion C4C Centre Speak		
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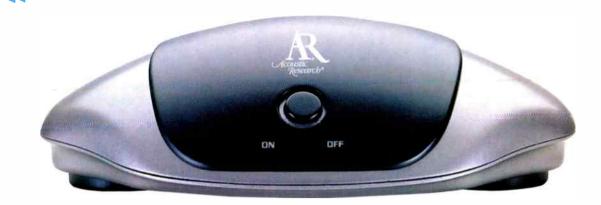
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accessories



AR TDS202 Sound Enhancer

AR TDS202 SOUND ENHANCER £69.99

ere's a little black box that promises to do great things for your system's sound almost by magic - never heard that before! The AR Sound Enhancer is claimed to transform lo-fi into hi-fi no less - and said to greatly enhance playback of CDs and DVDs. It's supposed to create a wider and more detailed sound field, "achieving greater aural balance and detailed imaging" according to Recoton Corporation. "The technology developed by TDS allows music enthusiasts to enjoy a much richer listening experience than previously thought possible" they say.

The technology is based on compensation for the human hearing system's inability to pick up certain audio frequencies. Its makers point out that our ears aren't as sensitive to lower and higher range sounds as they should be, thus removing the richness and sparkle of recorded music. AR's Sound Enhancer, "finds and unlocks these 'hidden' sounds, making them prominent so that you can enjoy music and movie soundtracks on a new level of perception". It works with any type of equipment, from mini systems to PlayStations to high-end home cinema surroundsound set-ups. It's the first AR product to incorporate this patented True Dimensional Sound technology, originally introduced to the audio market back in 1997. It has already been used in movie soundtracks such as Air Force One, U-571, The Mummy and Jerry Maguire.

This raises some interesting questions. We all know that the ear is less sensitive to low and high frequencies, especially at lower (domestic) volume levels. That's why every cheapo amp since the 1960s has featured a loudness control (or suchlike) to give it showroom credibility - one press of the button gets you an earful of impressive sounding boom-tizz. However, how can we miss something we can't hear anyway, and if we can't hear it, is it 'real' in the first place?

Anyway, the Sound Enhancer is a neat little gizmo. It's passive, so it doesn't introduce noise or interference during playback, and is easily hooked up to any receiver or preamplifier via RCA phono inputs and outputs. It's non-adjustable, so there's no capacity for tweaking - you just switch it in or out of circuit. Hooked up between a Cyrus CD7 CD player and Cyrus 7/PSX-R/Mission 782 and speaker system, it certainly made a difference!

The first thing you notice is that the music seems louder, which considering it's a passive device makes it a clever trick, alright. Just as it says on the box, you get a wider soundstage with greater perceived depth. Rather than simply acting as a 21st century 'loudness' button, there's quite a change in the midband as well as at the frequency extremes.Without a doubt, everything sounds a little crisper, a touch more defined and explicit. The sound is (apparently) a little more dynamic and punchy, and you do get the feeling you're listening to a different system.

Did we like it, then? No, not really. To be fair, the TDS202 will really pull up the socks of a slow, lazy, dull system. Indeed, it lost a deal of subtlety and poise - although it's nowhere near as malign as those



'stereo wide' buttons on eighties boom boxes, it still has a tendency to saturate music to the point where you end up listening to the Sound Enhancer rather than the music. For computer audio, portables, and even car use this could be good, but steer clear of it for serious hi-fi.

> Ara Accessories Ltd. Tel: 0161 702 5010 www.araccessories.com

SOUNDPAX £30

fi quality, ultra lightweight cardboard loudspeakers, my first reaction to these curious arti-

accessories

facts was "so what?" Why would anyone want to buy a set of cheapo speakers the height of a traffic cone and weighing the same as a bag of sugar?

Some might because they are 'miracles of modern technology', being state-of-the-art NXT designs from NXT themselves, rather than licensees. They generally turn out better NXT speakers than licensees thanks to the Huntingdon company's feel for its own intellectual property.

The product itself was conceived by innovative European packaging manufacturer DS Smith, which gives some clue of its intended application. Don't expect to chuck your Quad 988s in the skip after you've bought a pair; they're more 'cardboard' than 'hi-fi!' However, as far as corrugated paper pulp goes, they're also pretty amazing - simply by virtue of the fact



these pages - suffice to say that they use 'exciters' which vibrate the Acoustic Fluted Composite panels at an ideal position to introduce complex sets of bending waves in the panel structure. The advantages aside from compactness and low weight - include low directionality and room interactions.

As with all NXT panel speakers, the Soundpax showcase these advantages very convincingly. In this respect they're far better than practically any conventional design at any price! No, they're not quite in the Martin Logan class, but they certainly fill rooms with music very well.

They're surprisingly musical too the lack of any boxes to resonate makes for an engagingly direct listening experience. Of course, they lack the clarity, detail, frequency extremes or dynamics of hi-fi

> loudspeakers - but what do you expect for £30? If it's a cheap and cheerful way of getting music into the shed/ garage/ patio (etc.) you are after, I can't think of a more fun way, I've heard a lot worse in the 'multimedia speaker' department than these. My only reservation is the awful cartoon pictures of moving coil loudspeakers they carry - which is either post-modern irony or just rubbish marketing.

that no one's made an all-cardboard speaker before!

The benefits of cornflake-packet construction are lightness and portability (a fact not missed by Kellogg's, either!) - so if you're moving around all the time (students/kids?) then 'speakers like this may actually be useful. They can be pulled out of their packaging and set up in a matter of seconds. With an impedance of 80hms and a power handling of 6W they're ideal for portable applications. Vital statistics are 720x450x540mm and 0.9kg each. Their NXT SurfaceSound

technology has been well explained in

Tel: 0870 777 5555 www.soundpax.com

NXT Ltd.

SENNHEISER HD497 HEADPHONES £49.95

n a sense, the 497s continue the same formula as Sennheiser designs of some twenty years on. Right now, DJ phones are all the rage, but here's an unashamed stab at the budget audiophile market, complete with an up-to-the minute silver finish and an affordable price.

Developed to bring Sennheiser to a younger market, the 'new 400 Series' cans are nearly as well made as the old ones - which is really saying something. Basically, you can drop them, sit on them, tread on them, yank them by their cord and generally trash them and they'll still look and sound as good as new. Top quality materials are used throughout, from the strong single-sided OFC copper cable (3m long, with 3.5mm plug and quarter inch adapter) and durable plastic headband to the hypoallergenic, leather look earpads. Powerful neodymium-iron magnets and advanced ultra-light diaphragms are used for efficiency. By comparison, the likes of Vivanco pail.

They're also very light - 130g and comfortable to wear over long periods (as very few headphones are) with a claimed contact pressure of 2.5N.

Other vital statistics include a quoted frequency response of 24-22,000Hz, a nominal impedance of 32ohms, I 12dB maximum sound pressure level and a distortion figure of under 0.2%. As per usual Sennheiser practice (DJ range notwithstanding), they're of dynamic, open backed design. Replacement parts are easily available at audio retailers nation-wide, and the phones themselves are guaranteed for two years.

Sound is excellent - at the price. I've been less enamoured by Sennheiser budget phones of late but these rather buck the trend. You get a large, crisp, fast and open sound, with plenty of detail and grip. There's noticeably less roughness and 'fuzz' than previous Sennheiser cans at this price, with the result that they're less obviously biased to the boom-tizz of rock or dance. In fact, you can actually play soul or jazz music through them and enjoy the timbre and texture of the music, as well as the start-stop of the rhythms.

Bass is tight and taut in a characteristically Sennheiser way - although it's noticeably less extended than models further up the company range. Still, it's decently bouncy which - combined with fine midband dynamics - makes for a highly involving listen. Treble isn't a particular strong point - it does the job but lacks the sweetness and extension of only slightly more expensive designs. Still, these cans are beautifully made, musically engaging and offer a good degree of subtlety too. Top value.

> Sennheiser UK Ltd. Tel: 01494 551551 www.sennheiser.co.uk

HI-FI WORLD JUNE 2002

PROBABLY THE BEST

NEW DEMONSTRATION ROOM NOW OPEN AT 12A SPRING GARDENS, NEWPORT PAGNELL,

KIT6550 VALVE INTEGRATED AMPLIFIER KIT & KAT6550 VALVE POWER AMPLIFIER KIT



These are our new 6550 series amplifiers. A pure class A design providing 40 watts into a 8 ohm load.(available in a 4 ohm version if required) A truly high end design by Andy Grove, using 5vetlana 6550Cs in push-pull (any 6550 or KT88 tube can be used with this amp). It features valve rectification (5U4) a choke pi filter power supply and is hard wired. Weighs 19kg with dimensions $390mm(w) \times 330mm(d) \times 190mm(h)$

Kei84 VALVE INTEGRATED AMPLIFIER KIT

This is our brand new, low cost, beginner level amplifer kit. It features a pair of EL84 valves per channel in push-pull configuration. They give 15 watts into an 8 ohm load - plenty for medium sensitivity loudspeakers. The output transformers are Ultra Linear, keeping distortion down to a minimum. Up front the ECF80 input/phase splitter valve has an extremely smooth sound.

The Kel84 has very low hum, to solid-state standards. For simplicity the kit is built on a printed circuit board. A strong steel chassis is fronted by a 3mm anodised front panel and attractive chromed custom made knobs. There are five line level inputs, plus one monitor input, with a tape output included, all controlled from the front panel. The phono input sockets and 4mm banana socket speaker terminals are gold plated.

At rear is a mains switch, an IEC power input and an earth post. This kit is aimed at beginners. The instructions include pictures as well as diagrams, making them very easy to follow. At a UK price of $\pounds 278.00$ all inclusive you cannot ignore Kel84. Simon Pope says, "The quality that can be gleaned from this amp is a fine introduction to the joys of the valve sound. The Kel84 will highlight all the intricacies and depth of detail in your favourite recordings whilst retaining a warmth and fullness that is almost exclusive to pure valve amps and is rare at this price point."

Kel84 weighs 10kg. External dimensions with valves are $300mm(w) \times 270mm(d) \times 150mm(h)$.



mic grip, together with a smoothness of sound that's incredibly easy to live with, the

sound married to the attack and clout of a good quality solid state design".

KiT6550 could well be the kit amp for you. The 6550 is one for those who like a valve

2A3 PSE INTEGRATED AMPLIFIER KIT

The 2A3 PSE integrated amplifier offers a seriously hi-end sound, but without the cost usually associated with single-ended amplifiers. The stereo chassis houses, on the output, $2 \times 2A3$ in parallel single ended configuration and a single 65N7 as the driver tube per channel. The valve rectified power supply consists of a 5U4, with a combination of a hefty 10H chokes and 2 x 100uF 500V capacitor in a pi filter configuration, giving superb smoothing. This feedbackless design provides 8.5 watts into an 8 ohm load, so a good sensitivity speaker is required above 91dB. It can accept 6 line-level inputs fully controllable from the front panel. We provide the excellent Alps Blue potentiometer as standard. The amplifier is hard wired so plenty of scope for tweaking in the future. Simon Pope says, "The 2A3 PSE is extremely impressive piece of kit, good imaging, wide sound stage, nicely extended on the high frequency and tremendous bass thump - I want one".

weight - 20kg, external dimensions with valves fitted - $390mm(w) \times 360mm(d) \times 220mm(h)$





JUNE 2002 HI-FI WORLD

DIY KITS IN THE WORLD

MILTON KEYNES, BUCKS MK16 OEE - CALL FOR DETAILS ON 01908 218836

ALL NEW SERIES II MODULAR PRE-AMP KIT

The PRE-II is a valve pre-amplifier with six inputs, tape monitor and two sets of output sockets. It utilises a high quality line driver transformer and x5 gain. The PHONO-II is a dedicated valve phono stage that incorporates a step-up transformer for MC users. Finally, PSU-II is a power supply unit that feeds both the PRE-II and PHONO-II.

Power Supply Unit (PSU-II) Pre-amplifier (PRE-II) Phono Stage (PHONO-II) Moving coil step-up transformer Passive pre-amplifier (PAS-II)





Simon Pope says, This integrated bring together the best sonic virtues of

The highlights of the sound are a deep and taut bass response, together

with an open and highly detailed mid and high frequency response that

Weight 22kg, External dimensions with valves fitted - 390mm(w) x

only the best valve designs can achieve... a true valve classic'

360mm(d) x 210mm(h)

our KiT88, kel34 and top of the range 300B PSE in an affordable package.

£495

KAT34 VALVE POWER AMPLIFIER KIT & KIT34 VALVE INTEGRATED AMPLIFIER KIT

E480 NEW KITS NEW KITS NEW KITS

KiT34 is a 32 watt stereo valve integrated amplifier, featuring a pair of EL34s, in push-pull mode. per channel, plus an ECF80 pentode/triode as input/phase splitter. The power supply is valve rectified (2 x 5U4), using a heavy duty choke to achieve exceptional smoothing. The output transformers are 14% Ultra Linear tapped to keep distortion down to its lowest level and the kit is totally hard wired utilising three tag boards. It has five line level inputs, plus a tape-in and tape out, all controllable from the front.

300B PSE MONOBLOC KIT

Our Parallel Single Ended amplifiers offer ultimate sound quality Each monobloc has two of the beautfully linear 300B directly heated triode in its output stage, producing 20 watts into an 8 ohm load. At the front we have a 6AU6 pentode and an ECC82 as the driver valve. This design utilises a 5U4 rectifier valve in the power supply, in combination with a 10H choke, giving an extremely quiet supply. Both mains and output transformers we E/l pattern.

For purists, feedback is switchable and the kit is totally hard-wired. For those that require valves we provide the superb Tesla 300Bs, Russian 5U4s and European 6AU6s & ECC82. Simon Pope says, "Not to put too fine a point on it, the sound these monoblocs create is among the finest that can be encountered in hi-fi." Our 300B PSE kit bears an affordable price of £875.00 (UK price) excluding valves. Each monobloc weighs 23kgs., external dimensions with valves: $25cm(w) \times 38cm(h) \times 22cm(d)$ per monobloc.

KEL80 MONOBLOC AMPLIFIER KIT

Following the success of our budget KEL34 40watt kit amplifier, we have come up with a 'big brother' design. The output stage uses two pairs of TESLA EL34 pentodes in parallel-push-pull mode, allowing KEL80 to turn out 80 watts into an 80hm load. Heading up the Input stage we have the wonderfully linear Russian 6AU6 working into an American 5687 phase-splitter. KEL80's output transformers are 40hm and 80hm tapped. With an input sensitivity at around 380mV for full output, it will happily partner both passive and active pre-amplifiers. It is easy to assemble. Simon Pope says, "The proof of the pudding is in the eating and the KEL80 is a feast for the ears, with solid bass attack, lightning fast reactions, that emphasises musicality as well as power. At £649.00 a pair, a definite valve winner. Each monobloc weighs 12kgs., external dimensions with valves: 14cm(w) x 8cm(h) x 43.5cm(d).

HD83 VALVE HEADPHONE AMPLIFIER KIT

The HD83 headphone amplifier is a beautifully simple design using Mullard ECL83 valves, a triode and power pentode housed in the same envelope. It works directly from any source, be it CD, tape, tuner etc., or from an amplifier's tape out or pre-amp out sockets. The circuit uses high specification E/I output transformers that will drive any headphone load from 16 ohms to over 300 ohms depending on how the secondaries are wired up. The HD83 is a single-ended design with the power pentode wired up in triode configuration for added sonic purity, and it is as quiet as a mouse. For sound quality Jon Marks says," The bass is punchy and controlled without becoming artificial, while treble has the crispness of the best

solid-state, with the tonal purity, delicacy and speed associated with valves." External dimensions 18cm(w) x30cm(1) x 8cm (h) weight 4kg.

Dai



HI-FI WORLD JUNE 2002



Probably the best diy kits in the wor

NEW DEMONSTRATION ROOM NOW OPEN AT 12A SPRING GARDENS, NEWPORT PAGNELL, MILTON KEYNES, BUCKS MK16 OEE- CALL FOR DETAILS ON 01908 218836

KLS10

HIGH TECHNOLOGY COMPACT MONITOR

Our mini-marvel uses an Audax carbon fibre bass/midrange unit, married to the world's most advanced tweeter the piezo-electric gold dome HD3P from Audax. KLS10 offers high performance from a small package. The main 'speakers are designed to work alone, or with a dedicated subwoofer to extend their bass. Alone, they are suited to near-wall mounting and can be tuned by port adjustment to suit personal taste and location. They are easy to drive and need just 30-60watts. KLS10 is unique. Technically advanced, yet compact and relatively inexpensive, there is little to match it. Sensitivity 89dB 1W/1m, 15mm MDF, internal volume 9Ltrs, external dimensions 19cm(w) x 31cm(h) x 23cm(d).

Drive Unit & Crossover kit Drive Unit only

£433.00 £394.00



KLS10 GOLD SUBWOOFER

Designed to complement KLS10 Gold stand mounters by providing deep and open bass. The subwoofer is inexpensive, easy to build, comprising a simple crossover network with a high quality 8 inch Aerogel dual voice coil unit. A must for all KLS10 Gold customers. Sens. 89dB, volume 25 litres, external dimensions 28cm(w) x 43cm(h) x 34cm(d).

Drive Unit & Crossover kit Drive Unit only

£164.00 £78.00

KLS3 GOLD MK I ADVANCED TECHNOLOGY 3 WAY LOUDSPEAKE

KLS3 Gold uses the latest version of Audax's innovative oval gold dome piezo electric tweeter. giving it the sweetest and most extended treble. Married to a 4in. carbon fibre cone midrange driver for neutral and clear reproduction, and a powerful 8in, bass driver for superb depth, this is our top-ofthe-line reference 'speaker. Sensitivity 90dB at IW/Im, 25mm MDF, internal volume 60ltrs, external dimensions 26cm(w) x 100cm(h) x 35cm(d).

£633.00 Drive Unit & Crossover kit £495.00 Drive Unit Pack £164 £633





KIT6550/KAT6550 mains transformers 2 inch stack. 130mm(h)x120mm(w)x135mm(l) drop through fitting with zinc cap. Secondaries 425V-0V-425V, 350mA, 0V-5V, 6A, 3,15V-0V-3,15V, 9A. Suitable for 120V & 240Vac opeation

KEL84 mains transformer 1.5 inch stack, 90mm(h)x 80mm(w)x 95mm(d) drop through fitting with zinc cap. Secondaries: 0V-240V 300mA, 3.15V-0V-3.15V, 5.5A, suitable for 120/240V operation

KIT88/KAT88 mains toroidal transformer 120mm dia x 60mm(h). Secondaries: 195V-0V-95V.450mA/0V-27V. 100mA/3.15V-0V-3.15V,9A, suitable for 120/240V operation

KIT34/KAT34/KIT6550/KAT6550 choke 1.25 inch stack, 65mm(h)x105mm(w) with fitting holes x 60mm(d), clamp fitting, 2.5 H, 350mA

Output transformers

KARADKE

KIT6550/KAT6550 E/I 16% TAPPED UL push-pull output transformer 2 inch stack, 80mm (w) x 95mm(l) x 100mm(h), drop through fitting with zinc cap. Primary-secondary 4.5K, 16% UL tapped. Secondary 4 0r 8 ohm, pls specify on order, max output 45 watts, max current 180mA, valves, KT88, 6550 etc

KEL84 E/I Ultra Linear push-pull output transformer 1.25 inch stack, 76mm(h)x 65mm(w)x 76mm(d)Primary - seondary, 8K with 12.5% UL tap - 80hms, max o/p-15watts, max current 150mA valves EL84 etc

KIT88/KAT88 E/I push-pull output transformer 80mm(w)x95mm(I)x100mm(h). Primary-secondary 10K - 80hms. max o/p-40watts, max current-160mA valves-KT88,6550, EL34

anton 1.45

300B PSE mains E/I transformer 130mm(h) x 95mm(w) x 115mm(d). drop through fitting with zinc cap. Secondaries: 300-XV-380X/ 180mA/150-0V-150V, 25mA/0V-5V, 12A/0V-5V, 12A/0V-5V,3A/3,15V-0V-3,15V,0-4A suitable for 120240V operation

KEL80 mains toroidal transformer (encapsulated) 130mm dia. x 65mm(h). Secondaries: 195V-0V-195V,390mA/0V-27V. 100mA/3,15V-0V-3,15V,7.5A, suitable for 120/240V operation

HD83 mains toroidal transformer 80mm dia. x 35mm(h), Secondaries: 0V-165V,75mA/3, 15V-0V-3.15V,1A, suitable for 120/240V operation

PSU-II mains toroidal transformer 80mm dia x 35mm(h). Secondaries: 0V-270V,60mA/0V-10V.2A, suitable for 120/240V operation

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K1T34/KAT34 mains transformer 2.5 inch stack, 120mm(h)x115mm(w)x95mm(d), drop through fit-ting with zinc cap.Secondaries 365V - 0V - 365V.300mA/0V - 5V. 6AV3.15V - 0V - 3.15V,7.5A. Suitable for 120/240V operation.

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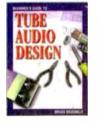
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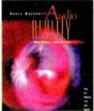
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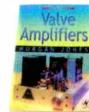


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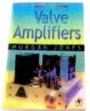
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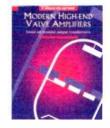
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ewer amplifiers

Krell KSA 250 Krell Kav 250a Krell 300i Integrated Audio Research M300 Monoblocks Naim Nap 90 Krell MDA 300 Oracle S3000 Integrated amplifier "new" Bryston 7 BST Monoblocks "new" Cary SLA 70 mk II Silver Linn LK 100 Boulder 500 AE Acuphase E203 Integrated Amp Melos 402 Monoblocks Krell FPB 300 Linn Klassik Boulder 1060 Power "new" Cary Audio 300 SE Sig. VE300B Primare 30.1 mk II Integrated Plinius SA100 "new" Krell 250 A/3 3 Chanel amp Graff GM200 Cary SLA 70 mk II Audio Research Ref 600 mk II YBA Passion Stereo "new" Krell FPB 300c Sunfire 300 Power Amp Plinius 250 mk IV "new Audio Note Kasi Cary SC Monoblocks "new" Krell FPB 600 c

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Pre amplifiers

Audio Research SP9 mk II Mark Levinson 380 S Audio Research LS3B (Black/ remote) Krell KRC 2 CAT SLI Sig Pre Amp Hovland HP100 Line Pre Audio Synthesis Passion 8M bal/ remote BAT VK50SE Krell KSL 2 Pre Cary SLP98L Remote Pre BAT VK5i + remote

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	Michell Orbe/QC	£795.00	£ -
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column

veryone knows that blue-laser technology exists," he said. "We've decided that it's best to announce our technology agreement early on, in order to avoid confusion and speculation." I had to smile at this comment, because since Jan Oosterveld of Philips made it there's been a torrent of speculation about Blu-ray. As for confusion, there's so much of that right now it couldn't get any worse. Or could it? With frightening predictions that Bluray could hit the market in 2003, just one year's time, one report I've seen has already accused the consumer elec-

tronics industry of cannibalism: "they're doing what they like to do – eat their young!" This is good, torrid journalism, but with Blu-ray the writer has

a point. Just as people around the world have decided DVD is for them the CE business suddenly announces its successor, suggesting it is all over for DVD just as it was gaining life. I know the CE business can get it a little wrong at times, but this wrong? I suspected Bluray was not about to appear in one year's time and soon found, after a few strategic telephone calls, that all sorts of complications and accusations lie behind this story.

Blu-ray is a new recordable video disc, the size of a CD and able to store a massive 27GB of information. That's way above CD's 0.6GB and DVD's 4.7GB. On paper it looks like Blu-ray is a potential successor to DVD - but I'm assured it is not, so let's take a look at this. Whilst the only person enthusiastic about digital TV in Britain is a monkey and his mate, there's little talk of trying to get people to watch anything more complex, especially digital HDTV. In America the picture is very different. There, the plan is to roll out digital TV progressively and switch off all analogue transmissions by 2006. This represents a bonanza for the world's TV makers, so understandably they're busy developing everything from TVs through to new video recorders to cope.

Recordable DVD as it stands can't readily cope with anything more demanding than conventional TV. It uses a single-layer, single-sided disc of 4.7GB capacity that can just manage 2hrs TV at a quality level that I have found to be pretty mediocre. Playback-only DVD discs can be stretched to 9GB of storage using a double layer disc, or even 18GB with a double-sided double layer disc, so they may well be satisfactory for high quality prerecorded movies, but this precludes them from home recording use.

The race is on for a recording system both more capable and less confusing than DVD. We now have three recordable DVD formats: DVD-RAM, DVD-RW and DVD+RW. They should all produce a playable (i.e. compatible) DVD disc, but they do not.

On paper it looks like Blu-ray is a potential successor to DVD.

The Japanese DVD forum, led by Toshiba, fouled up on this, which has muddied the waters no end. It has also encouraged speculation that Blu-ray is an attempt to launch a more advanced and compatible video recording system that eliminates the confusion surrounding recordable DVD. Nine manufacturers have formed an independent group outside the DVD forum to promote Blu-ray: Hitachi, LG Electronics, Matsushita (Panasonic, Technics), Pioneer, Philips, Samsung, Sharp, Sony and Thomson Multimedia. Meanwhile, the DVD forum continues to plan its own, new higher capacity formats. It was pointed out to me that it is not in the interests of companies developing Blu-ray to provide any sustenance to recordable DVD, hence the rumours of Blu-ray becoming available in just one year. The idea is to discourage people from buying recordable DVD of course, My source said it will be more like 4 years before Blu-ray recorders appear, although I wonder whether that might be a little pessimistic.

I somehow can't help feeling we'll see the technology before this, but there are some problems. The main one is cost. Blu-ray would require significant investment by disc pressing plants, because the system uses a blue-violet 405nm wavelength laser instead of DVD's 650nm red laser. Its shorter wavelength means the grooves and pits can be shrunk

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down, greatly increasing disc capacity. Disc pressing equipment would have to be updated and there's resistance to this from film companies. Also, the disc is protected by a caddy, which historically increases media cost. Both DVD-RAM and Minidisc have suffered because of this.

All in all, Blu-ray recorders and discs will be more expensive than DVDs, that's for sure, and traditionally the total ownership cost of a medium has been a key issue determining its acceptance.

What about audio? So far the audio soundtrack standard is a little odd, providing up to six channels of conventional surround-sound, sampled at 48kHz with up to 24-bit resolution. I am a bit surprised they didn't go for 24/96 here, to rival DVD. Using the full data capacity of the disc, audio of virtually any resolution could be recorded of course and a Blu-ray recorder may well be able to play back all audio formats, from CD through to DVD-A. I don't think Blu-ray is about to hit the streets tomorrow in any form you or I would find practical or affordable, but there's going to be plenty of speculation and confusion about it after February's announcement.

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	with latest spec. Excalibur arm The Source			with volume control	2500	12
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	The reference valve DAC	5995	1995	Mark Levinson 380 pre-amp	4495	PC
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	Unused, bought by speculator!!	2990	2750	Musical Fidelity X-A50 monoblock pair		
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OA	LOUDEDEAKERS		
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9 95	As new, virtually new	1400	
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5 50	Jamo Concert 8 (Cherry)		
530	Cherry, boxed, as new (2 years old)	14 0 0	700
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Column

he C.D player's there for when I'm doing the ironing". Not my words, but those of a customer of mine. Over the years I've seen him gradually upgrade his system. It began with the most basic NAD turntable in the form of the legendary "bouncy" 5120, a Cambridge P25 amplifier and Mission's classic 760 loudspeakers. All in all then an iconoclastic starter system of the early 1990s if ever there was one.

A decade later the system now comprises of a near range topping Nottingham Analogue turntable, Croft

and Musical Fidelity amplification and Celestion's mighty A3 floorstanders. He also has a Pioneer Precision CD player but, as he says, it's the vinyl that really gets the attention and bucks lavished upon it.

Chatting about his latest upgrade, he told me that he was starting to buy far more albums on vinyl. He was finding that the ideal way to relax to music wasn't via a CD - little surprise there really - but also he had, until quite recently, been very much a singles man when he began to discover the true allure of a decent vinyl album.

I won't even begin to rake over the embers of the CD versus vinyl sound quality debate but I must just say that, sound quality aside, there is something innately right about a record's structure and composition. It's split into two sides of course, and the length of each side seems to have been designed to perfection; time enough to captivate, but not so long as to bore the listener. The break in the middle is also ideal as it allows for a quick tea break, bladder release or a little silent contemplation.

Furthermore one can cue through various sections of a record far faster and with greater confidence than with any digital format, or for that matter, that other double-sided special, the compact cassette. For proof of this just look at how many DJs are reluctant to give up their decks in favour of digital.

This aside, the ultimate musical experience for most people is still a live concert, and it's not hard to see how the record apes many of the concert experiences. There are usually two halves to each concert or gig, for a start, plus there's always some sort of small distraction for the mind to filter out. It might be coughing, sneezing or chattering at the concert, and the odd pop, click and a touch of surface noise from the LP.

When it comes to relaxing to music, as an activity in itself rather than simply a background distraction, an LP takes some beating. Imagine my horror then as I read about HitClip (World editorial column March 2002). This is the total antithesis of the LP. The music is squeezed into mono and chopped

To see proof of this just look at how many DJs are still reluctant to give up their decks in favour of digital.

> down to the laughable length of 60 seconds. Well, it would be laughable were it not true. What possible sense of well being can be derived from 60 seconds of compressed music is truly beyond me. It's bad enough to have to endure it within a short lift journey, let alone being asked to pay for the irritating experience.

I suppose this shouldn't come as a surprise as Britain has always had a "singles" culture. Singles rather than albums are the prime format for promotion on radio and TV. Top Of The Pops and Top 40 shows across the land focus upon singles and not albums. As someone whose singles collection numbers approximately three, I've never really seen the point of them. Three to five minutes really isn't time to relax to music, and I have little desire to hear the "radio", "remix" and "X-rated" versions of exactly the same song in quick succession. I can see the point of twelve inch singles for DJs but, other than that, why not stick with the album? If I wanted to read a book I wouldn't simply buy a random chapter!

Of course there can be a delay between single and album releases, and the more cynical side of me can't help but feel it's a ploy by record companies to milk out every last penny from the music buying public. As has already been discussed in these pages, the

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advent of HitClip merely provides yet another spin off for the record producers.

Perhaps such comical measures shouldn't come as too much of a surprise with such a sense of desperation amongst parts of the music industry. EMI, who recently laid off 1800 employees, blamed their recent hard times upon increased piracy primarily, but not wholly, due to the Internet. HitClip is a means of clawing back revenue lost to the piracy Internet sites.

Whilst I have absolutely no qualms about EMI and others in the record industry attempting to do something about their predicament, I can't help but think that they may have become preoccupied to the point of distraction with copyright issues. Perhaps it's time they began to focus more upon the quality of their artists, and particularly the quality of their recordings. This way more of us may actually choose to take the time to listen to music, rather than it being something that's merely "on" as we do the ironing.



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Column

icture - if you can - the hi-fi world pre-Compact Disc, pre-Margaret Thatcher and preboom and bust. Remember the look and feel of the kit we used to play our seventies sounds on? With a few notable exceptions like the staunchly (small c) conservative A&R A60 amplifier, British separates varied from the plain bonkers to the merely 'characterful'.

Needless to say, Allen Boothroyd's pioneering industrial design work made a huge impact - from the madcap Lecson pre-power combo to

his 'less is more' Meridian 100 series components. Naim's early 42/110 was another classic, its shoebox sized cases tipped with a tasteful silver pinstripe and those trademark large control

knobs. Nytech, in the guise of the CTA 252XD, gave us the 'calculator tuner amplifier'. The spitting image of a 1973 Casio desktop calculator, it conferred a 'tech look' on what was still a relatively low technology business. And just for good measure, a nice tasteful sleeve of walnut was provided to keep the Missus happy!

The world of turntables was no saner, as the likes of early Regas, JBEs, Strathearns and Transcriptors proved. The nineteen seventies was, lest we forget, the 'decade of the podule', where ridiculously impractical platters were used because they, ermm, 'looked good'. A legion of British decks could be found sporting utterly unsupportive supports that variously wrecked the sound or ruined your stylus if you mls-cued it.

This was nothing compared to the Japanese, though. Generally, British designs sported some tenuous relationship between form and function but audio from the land of the rising sun had no such distinction. Essentially, Japanese designers and stylists saw the art of selling hi-fi as the practice of offerIng the highest number of facilities they were physically able to cram onto a 430mm long bright silver fascia.

The result was an orgy of knobs, buttons and switches, growing ever bigger year by year, to the point where it was actually impossible to use the equipment in question unless you'd committed every last line of the instruction manual to memory. Want to play your turntable through your 1978 Pioneer SA-9800 amplifier? First ensure the elaborate network of tape monitoring and dubbing options are disabled, find the source selector, specify your cartridge gain and loading, switch to PHONO, re-set the range of your power meters, pull your filters out, flatten your tone and kill the muting - and go. As easy as B&O not!

A new survey by MORI goes as far as stating that the British are actually gadget-mad.

After this excess, the eighties was a breath of fresh air. Suddenly amps started appearing without 95% of the purchase price devoted to useless fripperies you just knew you'd never use. Instead, sir could enjoy the 'tasteful, minimalist sparsity' of the amplifier's design. You got a black box - if it was British it invariably felt like it was hewn from pig iron - with a volume control, source selector and err, that's it! If it was truly politically incorrect, your amp might sport a front-mounted on-off switch and even - heaven forfend - a balance control. Anything more than this and it would justly be regarded as a 'seventies throwback' and go the way of the Space Hopper and Raleigh Chopper.

In a sense, this was a good thing - if the seventies had been the decade of the graphic equaliser then the eighties was the age of 'source direct'. The trouble was that its minimalist aesthetic has shackled 'dyedin-the-grain' audiophile purists ever since.

A new survey by MORI goes as far as stating that the British are actually gadget-mad. The poll, commissioned by Iomega in Great Britain, France and Germany shows that we use more technology than any of our cousins across the Channel. No less than 91% of us have a CD player (compared to 78% and 74% in France and Germany respectively).

We're also far ahead on games consoles (33%, 28%, 20%), DVD players (23&, 18%, 9%) and MP3 players (8%, 5%, 1% respectively).

It's amazing, isn't it, that only recently have we seen mass market hifi coming back to offering sensible real-world facilities? For most of the nineties, eighties orthodoxy was so omnipresent that only a handful of British amps (Audiolab 8000a and a few Arcams) actually had tone controls. Now though - in 2002 - the time seems right to get back to some kind of sense. Any manufacturer who can combine the usefulness of seventies-style facilities with purist 'sound-first' principles gets my vote.

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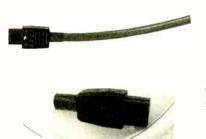
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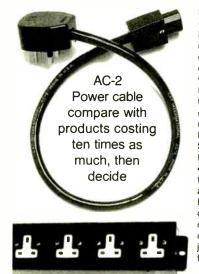
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David Price looks at the state of the post-Napster file sharing world.

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emember the BPI's (British Phonographic Industry) 'Home Taping is Killing Music' campaign back in the early eighties? Well, compared to today's online, music file-sharing world, the problems caused by cheap cassette decks twenty years ago amount to a big fat zero. It is estimated that world-wide CD sales were down around 10% last year thanks to computer audio -Napster and CD burners.

To wit, the RIAA (Recording Industry Association of America) is now on the warpath. Having litigated against a number of 'P2P' (peer-topeer) file sharing websites and enjoyed a major 'headline' victory against Napster (for the moment at least), it is now widening its purview to trade sanctions. The association says that the former Soviet Republic of the Ukraine is one of the leading manufacturers of pirated CDs, and has duly endorsed economic sanctions imposed by the USTR (Office of the United State Trade Representative).

Many music industry figures are more worried about domestic CD copying (now a ludicrously easy pursuit) than illicit MP3 swapping from Napster clones. Also, CD piracy, from Russia or China, is easier to police than 'dodgy' download sites. This is because the design of the new, post-Napster generation of P2P file swapping internet sites has made the RIAA's job more difficult. To stop Napster, pulling the plug on the central servers would cause them to disintegrate, but today's systems are more robust.

The pressure started with the RIAA's support of Metallica, the blockage of hundreds of thousands of Napster users, and then the piecemeal destruction of Napster. In a sense this was myopic, because rather than 'curing' the problem it just moved it. Millions of angry 'file swapping' music lovers simply went elsewhere to systems like Morpheus and Kazaa, for example, which automatically choose a few powerful computers with fast connections to act as temporary index and switching stations, making fast searches and downloads a reality. Another alternative is Gnutella, which works

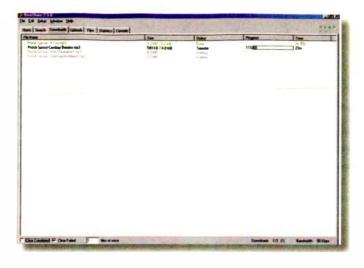


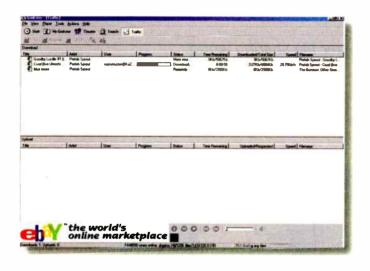
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by connecting every personal computer running the software in a vast, centreless web, with each computer relaying search requests and results to the next. Unlike Napster, Aimster, Scour et al, its network architecture is totally decentralised, working independently of the software used to perform the swapping. To understand it, you need to think of it more as a 'structure' than an object which performs an (illegal) function.

The clever bit is that Gnutella uses a number of independent 'clients', which are pieces of third party software that use the structure to do the file swapping, which in turn





makes litigation an even more problematic process! This has confounded the RIAA to the point where it's now hoping that computer manufacturers will incorporate copy protection into their hardware in a bid to stop the flow of copyrighted material off individual user's hard drives. The idea is that it will dry up the flow of swappable files like a dammed river.

This in itself is problematic. All previous hardware and softwarebased copy protection systems have failed, including the SDMI (Secure Digital Music Initiative), Microsoft's copy protection on their WMA music format and even the much-vaunted SCMS (Serial Copyright Management System) which simply isn't enabled when copying CDs on computers. It's a tough one, and perhaps the major factor limiting file sharing will be the 'ease-of-use' of the actual software itself.

When Napster was shut down last year, many smaller file sharing

networks, from OpenNap to eDonkey2000, began to boom and Gnutella, reputed to be the best P2P system, showed astonishing growth. Before Napster died, it had around 10,000 users, but soon Gnutella swelled to over 50,000 in August 2001. Then a cloud appeared on Gnutella's horizon in the shape of FastTrack, which grew so rapidly that it now claims nearly 1.5 million users.

To wit, Gnutella has now dwindled to around 20,000 and now the race is on to get users back. Both BearShare and LimeWire, the two top Gnutella 'client' developers, have been adding new features and trying new network configurations. So we decided to put BearShare (a Gnutella client) against Grokster (a FastTrack client), with the intention of discovering which offers the best fix for the music hungry file swapper.

BEARSHARE 2.5.0

www.bearshare.com A popular file-sharing program that uses the Gnutella network, BearShare works by connecting to the thousands of different servers integrated into the system, 'blindly' hoping for a hit. This obviously takes time, and so isn't really practical on a dial-up connection unless you really aren't in a hurry. All Gnutella clients share this characteristic - and it's this way purely so the RIAA can't close it down.

The program isn't the most userfriendly of things - but once you get the hang of it, it's easy enough. You get a choice of options - HOSTS displays the computers it's accessing, SEARCH lets you search for music files, DOWNLOADS lists the files you are currently downloading - or trying to download and UPLOADS does the same for files on your computer you're sharing with others. FILES lists the files you've downloaded, and gives a great scrolling display of the songs on the network it's searching through currently (which it does continuously). STATISTICS gives a dizzying array of stats on things such as bandwidth, transfer speeds and all sorts of server details. CONSOLE gives a progress report about error encountered.

Generally, BearShare is hard to criticise. This latest 2.5.0 version lets you choose between music, video, and any other types of media to be downloaded. Previous versions simply went looking for anything. It would be nice if it had an audio player or video player built in, but then again your Windows OS is bound to have one these days. It works pretty robustly downloads are decently fast and you can resume broken ones if need be. One quibble is that it's rumoured

computer audio

QUICK TEST:

A search was performed for a willully obscure eighties indie band, namely PREFAB SPROUT The name was enfored into the search engine of both programs. BearShare via Grutella found 18 tiles, of which only 3 successful downloads were made around 10pm on Sunday 24th March. Groketer via FastTrack found 13 files, of which 7 were successfully downloaded. BearShare had a wider variety of media (i.e. one wider was found), whereas Groketer found two interesting bootlegs, completely unavailable on commercial CD release. These downloaded without a hitch, and the quality was good for 128kbps. BearShare offered a wider variety of bitrates most were between 320kbps and 192kbps whereas Groketer's files were all between 192kbps and 128kbps





that BearShare contains spyware (software that monitors what you do when you are on the net). If you have a problem with this, it's best to investigate further.

GROKSTER 1.5.1

www.grokster.com

Based on the FastTrack system, Grokster claims to solve the three fundamental problems of file-sharing services: slow search speeds, limited search capabilities and failed downloads. It uses distributed, selforganising network where neither search requests nor actual downloads pass through any central server. It's multi-layered, so that more powerful computers get to be search hubs (or 'SuperNodes') which are automatically switched on and off as need be. It boasts an 'Intelligent Download system' to improve download speed and reliability -it searches for the fastest source of any particular file and duly selects it.

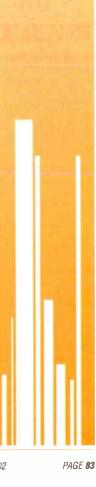
Interestingly it divides files into several chunks, each chunk being downloaded from a separate source. For example, users on fast cable modems can download simultaneously from 5 users, achieving a total download speed 5 times higher than a single modem. If a download fails from one source, the next source is tried until a new network search is performed to find more sources. Grokster also boasts Automatic Meta Data Assignment (AMDA) which automatically extracts all the file information. For MP3 files this comprises Title, Album, Artist, Length, and bitrate; for Video files it comprises Resolution, Colour Depth and Codec; for Word documents it comprises Author, Title and Version. This meta data is then automatically arranged in a personalised media library.

Using Grokster is also pretty easy, MY GROKSTER gives you Windows Explorer-style file menu with all the music you've downloaded, SEARCH lets you search for any files you wish to download, TRAFFIC shows what files are either being downloaded or trying to be downloaded. NEW SEARCH lets you search again (i.e. refresh the search) assuming you've drawn a blank. As with BearShare, there's a small amount of advertising popping up in various areas, but nothing that's big enough to obstruct what you're doing.

Again, Grokster is hard to criticise. Frankly both of these programs are much of a muchness. They're good, solid bits of code that get the job done, but don't have the beautiful look, slick navigation and high standards of presentation that, say, Microsoft's Window's Media Player 7 or Steinberg's GetltOn CD boast. Ultimately, Grokster is marginally more powerful (i.e. 'tweakable') and commensurately fiddly - but there's really not much in it.

THE VERDICT

The overall message is that whatever the politics of their respective systems - BearShare and Grokster are effective ways to get free music. Neither has the slick ergonomics of Napster, but frankly they're not that far off. So if you want free music, it's still readily available. Don't think that the end of Napster means the end of free downloads. Much to the chagrin of the RIAA it's still very much alive and kicking. But home taping never did kill music, and it seems unlikely file sharing will do so either, according to the music industry's own figures. Back in 1980 Britons bought 92.6m albums; twenty years later they bought a massive 216.5m albums. Perhaps copying or file sharing brings music to a wider audience and increases sales.



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David Price tries out Steinberg's brand new 'get it on CD 3.0' CD authoring software.

ust a couple of years ago, if you wanted to burn CDs on your PC, you could count the number of software options available to you on the fingers of one hand. There was the evergreen EzCD (then from Adaptec, not Roxio as now), Nero and err, that's it. Now though, barely a day goes by without another product joining the fray. Why should we be anything more than faintly disinterested in Steinberg's latest 'get it on CD? Well, I have to register my bias. Over the past few months, the company has released a stream of brilliant computer audio products from My MP3 Pro to Clean, For this reason alone, Steinberg's latest CD burning package deserves more than a cursory glance.

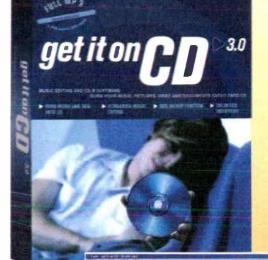
> As CD burning is more than just about audio, this package comes fully tooled up for burning a range of media to silver disc. To wit, you get MovieXone software from AIST which lets you view, edit and enhance your home videos, along with a Photo CD browser and a CD-Extra burner which creates mixed audio and data discs (letting you burn music CDs with enhanced videos for playing on your DVD). But Steinberg hasn't skimped on the audio, for this is just about the most comprehensive product I've come across for committing your choice tunes to Compact Disc.

For example, get it on CD combines several modules from its other software. When I first clicked on the icon on my desktop and the program loaded up, I was surprised to see WaveLab's effects tools pop up on the screen before me. These are permanently available should you decide any of the tracks you wish to burn are in need of additional volume, equalisation, stereo spread etc. and you can even add dither (what Sony call 'Super Bit Mapping') for better sound! Then there's WaveLab's audio editor - which lets you cut, paste, delete, crossfade or fade in or out your tracks.

Despite its complexity, GIOCD isn't hard to use. Once again, I'd cite Roxio's Easy CD Creator as a shining example of how to make the process easy (and Nero as the polar opposite), but Steinberg's product falls adroitly in the middle. If you follow the Wizard - which loads upon launching, it's almost as easy as EzCD. You get a choice of creating an audio CD, creating a data/mixed CD, backing up your data to CD, copying a CD (doing a direct bit-for-bit copy), grabbing audio from CD, designing CD labels or converting your files to MP3 or WMA.

Essentially, the 'grabbing audio from your CD' choice is the mainstay of the program, as it works around the idea of importing music (be it in MP3, WAV, WMA format from your hard drive or tracks from an audio CD) into the editing window, where it can be processed using the aforementioned digital effects or edited and then burned. In the process, the program will log into the net, go to the CDDB database and find all the relevant text information (i.e. artist, title etc.) for you, should you wish - and turn it into CD Text which it will write onto your disc (assuming your burner is thus equipped).It even translates MP3 ID tag data to CD Text too!

For a program of such incredible depth and diversity, get it on CD is impressively straightforward. Navigation is simple - a number of tool bars pop up giving direct access to Photo CD editing, CD transport, audio editing etc., so there's no need to click through an exhaustive set of menus and sub-menus to get where



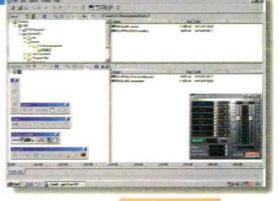
you want to go. Familiar Windows Explorer-style file menus are used for dragging and dropping the files you want to burn to the 'burn window', and then it's

simply a case of clicking on CD/WRITE CD, entering the disc label and sitting back to watch the action.

Steinberg's get it on CD is easily the most versatile CD authoring package I've seen. EzCD is a touch more user friendly but not as versatile, while Nero is more powerful (if you want complete control of every disc sector on your CD-R) yet much harder to use. The joy of this product is how impressively it bridges the gap between the two extremes, and adds a host of useful extra facilities too.

Steinberg get it on CD 3.0 £29.99

Steinberg Media Technologies AG Neuer Hoeltigbaum 22-32 22143 Hamburg Germany Tel: +49-40-21035-0 Info@steinberg.de



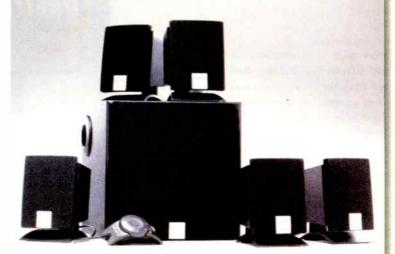


World Radio History

computer audio

INSPIRED THINKING?

David Price tries out Creative Labs' next big thing, the Inspire 5300 5.1 multimedia surround speaker system.



ow that two channel computer audio is firmly established, the race is on to capture the surround-sound market. As most new PCs have DVD drives built in - capable of reading 5.1 channel movie discs - there's been a dramatic rise in the number of multi-channel soundcards sold. According to Chart Track, 50% are now 5.1 thus equipped. To wit, there's a growing need of multi-channel speaker systems - right now 23% sold in the UK are of this type, and the number's growing fast.

Enter Creative Labs' Inspire 5.1, the company's entry level multi satellite and sub set-up which sells for £99.99. For £279.99 the company will sell you the same system with built in DTS decoding, or a cheaper alternative is the 'surround' kit which comprises the Inspire 5300 and Creative's own Audigy soundcard (complete with 5.1 DTS) for £149.99.

The package comprises five 6W RMS satellite speakers, the front three having 2m cables and the rear two coming with 5m. Five desktop stands are supplied, along with an additional monitor stand for the front centre speaker. The 18W RMS subwoofer comes complete with a wired master volume control, and an AC power adapter. The satellites have contoured face plates with colourcustomisable grilles should you tire of their boring black finish. Together, the system has a claimed frequency response of 47Hz-20kHz and a claimed signal-to-noise ratio of 75dB. For something of such modest cost,

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build quality is better than you'd expect. Heavily reminiscent of last year's Creative Labs' Cambridge SoundWorks Digital (a cracking twochannel system for just £60, complete with built-in DAC!), the 436g satellites are quite solid considering their dinky 92x96x112mm dimensions. The 3.6kg sub is made of black MDF and measures up at 240x220x222mm. With all the wires provided, connecting up is straightforward enough, and there's precious little hum or hiss from the internal amp even at high volumes.

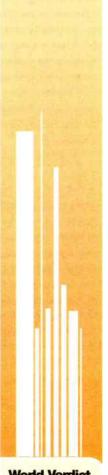
Connected up to Creative Labs' own Audigy soundcard, fed by a Pioneer DVD-ROM drive, the Inspire system didn't sound half bad. Indeed, considering that its rivals are little more than toys (at the end of the market), it was a star. You get a surprisingly clean and distortion-free midband. Thanks to those small drivers it's fast and tight, with practically no overhang. Moving up the frequency range, treble is crisp and clear, although frankly I doubt the claimed 20kHz frequency response it's hardly the most spacious and airy of high ends and simply sounds like it rolls off a lot lower. Bass isn't bad either. Through judicious twiddling of the sub level controls and some careful positioning, you can get the

sub and sats to crossover surprisingly smoothly. The bass unit isn't particularly boomy, and the whole shebang integrates quite well.

Thanks to those tiny cabinets, these things beam out of the box brilliantly - image projection is great and, in small rooms at least, they can really surround you with sound. Whether it's Pulp Fiction's Dolby Digital 5.1 soundtrack or indeed Pulp's decidedly two channel 'Disco 2000', they're uncannily tight, lithe and punchy. Indeed, for near field playback, this is a superb system for the money, and so much better than its price rivals that it's almost unfair to make comparisons.

The problem comes if you like high levels. At this stage you remember that the Inspire 5300 really is just a cheapie, and not something higher up the food chain. Even at relatively modest levels, it breaks up and starts to lose its brilliant sense of timing and impressive dynamics as the sub gets increasingly more asthmatic. Remember its £100 price tag though and you can't fail to be impressed - if you're PC is now 5.1 channel equipped, this is brilliant value.

> Creative Labs Inspire 5.1 5300 £99.95 www.europe.creative.com



World Verdict

Superb value if you want surround sound on a budget, and they also do two-channel pretty well too. Another quintessential Creative Labs budget blockbuster!

world favourites welcome to

Here's a list of products that are a good buy. We've tried to cater for a range of tastes, identifying strong products in every area. We're agnostic so you'll find a wide range of products, from valve pre-amps through to MiniDisc players. Products marked * are recently out of production but make a good second-hand buy.



Roksan Caspian CD player Solid as a ROK

COMPACT DISC

ARCAM FMJ CD23 £1100 This British-built player is extremely versatile. Controlled and detailed with a musical insight that few match. (Jul 2000)

CAMBRIDGE CD4SE* £200 A touch soft in the treble but outstanding in every other respect. (Feb 98)

KENWOOD DP-3080/II* £180 Has great clarity and presence for the price. Not as naturally expressive as the CD4SE though, (Feb 98)

LINN KARIK III* €1775 Under rated and overlooked, the final Karik was a gem. Superb transport gives a brilliantly tight, grippy dynamic sound, albeit tonally rather dry.

MARANTZ CD-17 KI-S £1100 The Marantz excels in all areas. Without doubt this is one of the most involving CD players on the planet. Build quality is also exemplary. (Sep 97)

MARANTZ CD-63

MKII KI-S* £400 Similar to the CD-63SE but more powerful bass and an all-round smoother sound. The famous KI tweaks pay off again. Whether or not it is still pre-eminent against the vastly improved competition is a matter of opinion.

MERIDIAN 506 20-BIT* £1100 Very detailed and revealing player. More cerebral than visceral sounding, however. (May 95)

MUSICAL FIDELITY X-RAY £800 Commonsense sturdy CD player of exceptional ability. Clear and detailed with high quality internal processing system. The X-Ray is inclined to show up poor recordings, but it's only doing its job! (Feb 99)

NAD S500 £1000 This dynamic top of the range Silverline spinner delights with any type of music. Exciting, sophisticated sounding and highly recommended.(Jun 2000)

ROKSAN CASPIAN £895 The Caspian has a smooth, slightly bright

sound with some of the clearest treble in the business. Very engaging, dynamic character. (Aug 97)

ROTEL RCD 951 £300 HDCD capability at a midrange price. Plain Jane looks but solid construction. There is some higher than average measured distortion which may take the edge off this otherwise tempting product. (Aug 99)

COMPACT DISC TRANSPORTS

SONIC FRONTIERS TRANSPORT £6999 Cutting-edge design and technology combine to make this one very desirable product. The only problem is the fantasy hi-fi price. (Sep 98)

TEAC P-30 £2500 Cheap it isn't, but then it sounds like a million digital dollars. Nothing short of superb. (Jun 97)

TEAC VRDS-TI £600 Excellent mid-price silver disc spinner with a powerful, expansive and warm sound, Easily beats most sub-£1000 designs. A good choice for the budget concious who want the best.(Feb 95)

DACs

CAMBRIDGE AUDIO DACMAGIC 3* 699 Superb value for money with extensive facilities and solid, detailed sonics. Upgrades any sub-£300 player.

DCS ELGAR £8500 Future-proof convertor which will handle 24/96 and 24/192. Extremely open and natural performer. (Nov 97)

DPA LITTLE BIT 3* £299 A taste of the high end on a budget. Rich, clean, punchy sound transforms budget CD players.

MIDIMAN FLYING COW £299 Excellent as a DAC and doubles as an ADC for archiving to CDR. (Jun 98) Great value, as is junior version Flying Calf at £109. (Feb 99)

MUSICAL FIDELITY X-DAC* £300 A bargain for normal CDs and even better with HDCDs. (Nov 97)

SONIC FRONTIERS PROCESSOR 3 £6999 Quality never comes cheap! This DAC oozes

class and when matched with the Transport 3 is certainly up with the best. (Sep 98)

TURNTABLES

LINN SONDEK LP12 BASIK £1100 Off the pace these days in many respects but still an extremely sweet and engaging listen with a quintessentially analogue sound.

MICHELL GYRODEC SE £775 Exquisitely built, infinitely upgradeable deck that gives true high end sound at mid-fi prices.

MICHELL ORBE £2000 Fantastically capable all rounder with commanding, powerful, detailed sound that gets the best from almost any arm and cartridge. Supreme build, brilliant value. (Apr 95)

ORIGIN LIVE

STANDARD (KIT) £145 Good in standard form with AC motor; frighteningly good with a DC motor and battery PSU.

PINK TRIANGLE TARANTELLA(680 Not only does the Tarantella have more style than a catwalk full of models, it also combines PT's usual clarity with real authority. (Oct 97)

PRO-JECT DEBUT £110 Straight out of the box and onto the shelf! Nothing short of a bargain. Vinyl's never had it so good, so cheaply!

£214 **REGA PLANAR 2** Brilliant starter deck with extremely polished manner. Better built £274 Planar 3 is a great all-in-one package that eats mid-price CD players for breakfast.

ROKSAN XERXES X £1295 DSU or XPS 3.5 power supply £150/170 extra. Excellent pitch stability from a new Swiss motor and outboard power supply. Very tight bass, fine dynamics and revealing clarity. (lan 97)

SYSTEMDEK IIX900*/RB250 €330 A fine all-rounder and easy to upgrade too. More depth and breadth than Rega Planar 3. (Sep 94)

VESTAX BDT-2000 £225 A stylish looking deck with infinitely variable speed 16-90 rpm, DC belt drive and built-in MM phono stage. Good value, with plenty of chassis room for alternative arms, if required. (Sep 99)

TONEARMS

HADCOCK 242 SE £649 Latest of a long line of unipivot arms. Added mass makes the 242 suitable for both low compliance MCs and straw-in-the-wind high compliance types. Revised geometry and chromium plating completes a first-class job. (Jun 2000)

NAIM ARO*

Truly endearing and charismatic performer wonderfully engaging mid-band makes up for softened frequency extremes

REGA RB300

Some may prefer the simpler RB250 at £130. Detailed, tight, rhythmic sound but tonally rather grey and cold-sounding. Still excellent value, though.

HI-FI WORLD JUNE 2002



£975

£180

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SONIC DESIGN[®] DAMPING FEET

www.sonicdesign.co.uk

Virtues of using Sonic Design Damping Feet

These feet will give a substantial decrease in loudspeaker cabinet movements. This is apparent when you put one finger softly against the top of the front baffle, as it vibrates much less after damping. The transmission of vibrations from the cabinet into the floor will also be reduced. The music will be cleaner, with a less coloured sound quality.

For Loudspeakers:

Audiophile Damping Feet provide the best possible isolation and damping but it is important that the feet are optimised to the weight of your loudspeakers. Both the stiffness and size of the feet are selected to achieve this. Speakers within the range 5 to 200 kg can be optimised. Let us know the mass of your loudpseakers and we can advise you the correct set to purchase.

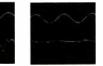
The Standard Loudspeaker Damping Feet have a large overload margin, and are lower priced than the Audiophile version. The resonance frequency is a few Hertz higher. The colour is nut brown, except for the stiffest feet which are grey. The standard feet are produced in four different weight classes and do not need to be fine tuned to specific loudspeaker models.

For CD/DVD Players:

The CD Damping Feet are made from the same material as the Standard Damping Feet. If the sound of your CD/DVD player is sensitive to vibrations, the CD Feet will be the way to go. The sensitivity to shock and the accompanying mistracking will be reduced with the use of the CD feet. They can also be used with any other audio product that you would like to isolate from vibrations. The set contains four small and one large foot. The large foot is used if the centre of gravity is off-centre or for those CD/DVD players that have five feet.

BEFORE >>: (top) 125 Hz sine signal to the speaker, (lower) floor movement, using spikes





<< AFTER: (top) 125Hz Sine signal to the speaker, (lower) floor movement, using soft feet (note floor signal magnified x2)

Damping Feet for CD players (pack of 5) - £9.99 Available in three sizes: 2-5kg, 5-10kg, 10-25kg

Damping Feet for Loudspeakers (pack of 8) - £19.99 Available in four sizes: upto 12kg, 12-28kg, 28-50kg, 50-100kg

Audiophile Damping Feet for Loudspeakers - £44.99 Available for most high-end loudspeakers from 5kg upto 200kg

Available from all good specialist hi-fi/accessory dealers (trade enquiries welcome - email sales@sonicdesign.co.uk or fax 01622 761560) Or, in case of difficulty, on the internet at: WWW.Sonicdesign.co.uk

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world favourites

£160

£575

£695

Prices shown are those at the time of the review



Musical Fidelity X-Cans2 Warm, sumptuous, sweet sound

SME 3009SII £309

Once state of the art, but no longer. Weak at frequency extremes and detail, but its legendary serviceability makes it a cult in Japan. Can be picked up for peanuts secondhand. (Jan 93)

SME 309

A down-market version of the IV and V with aluminium armtube and detachable headshell. Tight, neutral sound with good tonality, but lacks the IV's pace and precision. Like the older SME 3009 series, this arm is also available in 10" and 12" versions. (Jan 93)

£689

£74

£185

CARTRIDGES

AUDIO TECHNICA

AT-110E £30 Great starter cartridge that's refined, detailed and musical beyond its price. Best value MM under £50

GOLDRING 1012GX

An accomplished MM with a solid bass, slightly forward midband and clean transients. Very reasonable price for such an able performer. (Jul 93)

DNM MICA

Betters Goldring's 1042 and costs only £135 on trade-in. An assured and transparent MM. (Feb 98)

DYNAVECTOR DV20X-H £299

The best modern budget MC combines deliciously sweet sound with fantastic get-upand-go. High output version works a treat with valve phono stages too.

MUSIC MAKER

VVhen mated with a good quality arm, this hand finished high-output pick-up gives an ear-boggling account of itself. Very high compliance ensures maximum information retrieval. An absolute (grain orientated) gem. (Feb 99)

€575

ORTOFON MC 7500 £2000 Conclusive proof that there's hope for the

world. It's a long time ago now but this highpriced favourite still earns its niche - CD lovers would die if they heard it. (May 94)

ORTOFON MC 15 SUPER II

SUPER II £140 Not quite as good as the dearer Supremes but the Super II is a splendid introduction to the joys of moving-coil cartridges.

GOLDRING 1042 £130 One of the best Moving Magnet cartridges going, with beautiful treble and muscular bass. New low price makes it a bargain.

ORTOFON ROHMANN £1000 In a way it's MC 2000 meets MC 7500 with great tonal strengths and a dynamo sound. (Apr 96)

INTEGRATED AMPLIFIERS

AUDIO ANALOGUE

PUCCINI SE 2595 This superbly-built Italian integrated has a lucidity and control which leaves others nowhere. Sound stage a wow. (Dec 97)

AUDIOLAB 8000a * £495 Well rounded integrated with smooth and

detailed sound plus a huge feature count. Great build makes later versions a top used buy.

DENON PMA-250SE £160 It might not have bags of grunt but the

Denon can sound exceedingly natural and open. (Feb 97)

McINTOSH MA6800* £3735 The MA6800 not so much plays music as takes control of it, with effortless bass drive. (Sep 95)

MISSION CYRUS 2 * £299 Classic eighties minimalism combines arresting styling with clean, open, lively sound.

MUSICAL FIDELITY X-CANS2

Warm, sumptuous, sweet sound h/phone amp. gives startling results with a decent set of headphones.

NAIM NAIT 3 *

Superb rhythms and dynamics make for great music making, but tonally monochromatic. Super optional phono stage makes it ideal for vinyl junkies.

ROKSAN CASPIAN

Smooth, warm integrated with remote control that works happily into most 'speakers. (Dec 97)

SONNETEER ALABASTER £995

Builds on the strengths of the Campion with ample control, colour and drive. (Oct 97)

PHONO STAGES

CREEK OBH-8 SE £180

Punchy, rhythmic character with oodles of detail makes this a great budget audiophile product.

LFD MISTRAL

PHONO STAGE * £300 The Mistral has a warmth and involvement that make many pricier stages sound overoriced.

MICHELL DELPHINI

MONOBLOCS £1995 Analogue tour-de-force gives supremely clean, detailed and finely resolved sound with breathtaking dynamics. Great value, even at this price.

MUSICAL FIDELITY X-LP £125

One of the famous MF X series. Full marks throughout for clarity and detail. Switchable between MM and MC. Indestructible build! (May 99)

PRO-JECT PHONO BOX £39 Not the last word in many respects but a thoroughly honest piece of work. Inexpensive introduction to all that vinyl has to offer. MM and MC provision plus choice of two

impedances. **ROKSAN ARTAXERXES X** £950 With the Attessa PSU the Artaxerxes X MM//MC stage still shines. Great stage depth, neutrality and tonal colour. (Oct 97)



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arresting styling with clean, open, lively soun Further upgradable with PSX power supply.

world favourites

SONNETEER SEDLEY £399 Combines transparency and fine dynamics

with excellent rhythmic ability. (May 98)

PRE-AMPLIFIERS

AMC 1100 £150 Suffers from un-defeatable tone controls but an extremely good value piece of kit. Partners the similarly budget level AMC 2200 power amplifier, also at £1S0. Comfortable beginners' choice. (Mar 99)

AUDIO ANALOGUE

BELLINI £475 Showcases AA's characteristic mix of clarity and musicality and blasts the competition. (Apr 98)

CHORD CPA1800 £1800 Clarity, insight and control are second to none - an addictive mixture. (Mar 98)

CROFT VITALE	£350
A modestly priced valve pre-amp with	h
exceptionally transparent performance	e. MM
phono stage plus three line stages are	2
standard.Volume controls are separat	e for
each channel, thus giving balance adju	stment.
A remarkable item in all respects. (Fe	b 2000)

XTC PRE-1 * £1000 Almost valve-like in its smoothness, the linelevel Pre-1 is warm and seductively clear. (Nov 96)

POWER AMPLIFIERS

ARCAM 9 * £400 With 70W on tap, the 9P will drive most loudspeakers with a spacious and detailed sound. Good bass welly too. (Dec 96)

CHORD SPM400 £1400 There's a sense of effortless power to the Chord that gives music real scale and presence. (Mar 98)

MARANTZ MODEL 9 * 28000 Authentic reproduction monoblocs still more than cut the sonic mustard. Highly expensive and highly sought after.(Mar 97)

MICHELLALECTO £1989 Crisp, clean and beautifully controlled with gorgeous styling. Partnered with the £1650 Orca this is a superb winning combo. (Oct 98) MUSICAL FIDELITY X-A200£1000/pair 200W of high-end monobloc power in a grooved tube. (Aug 98)

NAIM NAP180 £1060 Partnered with a NAC82, this has classic Naim control, and a superbly rhythmic presentation.

TUNERS

CAMBRIDGE T500 £180 An extremely engaging tuner with a performance at odds with its low price. Not exactly a Troughline, but you may not notice... (Feb 99)

CREEK T43 £399 Excellent detail, separation and dynamics. A great little tuner and unbeatable at this price. (May 98)

MARANTZ STI7 £600 A positive dreadnought of a tuner. Sweet and refined but with a heavy punch when needed. A tuner of this quality demands a decent aerial. (Jul 99)

MISSION CYRUS FM7* £300 Clear and lucid sound puts it up with the best. Superb build too. (Apr 94)

NAIM NAT03 £595 The NAT03's warm, atmospheric sound is further proof of Naim's proficiency with tuners. (Sep 93)

SONY ST-SA3ES* £250 Beguiling RDS tuner for the sonically discerning. Good ergonomics and sensitive too. (Apr 97)

CASSETTE DECKS

AIWA AD-5750* £200 Sonically a very decent machine at the price. Comes fitted with Dolby B, C and the dead handy Dolby S. (Apr 96)

AIWA AD-S950* £300 A stable transport, superb head and Dolby S make the AD-S950 an excellent all-rounder. (Feb 95)

KENWOOD KX-3080* £160 A simple deck, but excellent-quality head and transport give top quality sound. (Oct 96) PIONEER CT-S740S £430 A great piece of engineering from Pioneer, with first-rate sound. (Jun 96)

YAMAHA KX-580SE* £250 The 'SE' tag is more than a marketing gimmick. Sound is solid and clear with Dolby S. (Sep 97)

LOUDSPEAKERS

CASTLE EDEN £469 Impressively vice-free 'speakers that offer great transparency and involvement. One of a select band that simply makes music regardless. (Mar 97)

EPOS ES12 * £495 Strong, punchy bass is allied to finely detailed, articulate midrange and sparkling treble. (Oct 96)



Kef Cresta I loudspeakers A very musical sound

 KEF CRESTA I
 £100

 Delightfully sophisticated presentation for the price. Won't blow the roof off, but will deliver a very musical sound. (April 2000)

KLIPSCH HERESY II £1100 An outstanding high sensitivity loudspeaker with midrange and treble horns coupled with infinite baffle 12" bass driver. Effortless, fast and accurate. (May 99)

MISSION 752 * £495 Cracking mid-price mini towers combined HDA drive units and metal dome tweeters with surprisingly warm results. Benign load characteristics makes them great for valves.

MISSION 771 £170 Characteristically fast, punchy Mission sound from the Aerogel mid/bass and silk-dome tweeter. (Jul 98)



The New Brio Amplifier

hear what we mean, you will never look back. Honest!

world favourites

450

OUAD ESL 63 * 13450 A reference against which all other loudspeakers are judged, the '63s have superb

imaging and genuine transparency.

TANNOY AMS8 * €2700 Bold sounding pro active monitor with solid bass, clear midrange and delicious treble. (Aug 96)

TANNOY MERCURY m2 * £140 A true audiophile bargain which embarrasses many more expensive boxes. Never mind the price, let your ears decide, (May 97)

MINIDISC PLAYERS

KENWOOD DM-9090 £500 One of the best MD players yet, ATRAC 4.5 gives clean and very musical recordings from this Kenwood, (lan 98)

SONY MDS-JB930Q £250 Great mid-price machine that adds better build and facilities to the '530's already excellent sonics.

SONY MDS-JA50ES * £1300 This Sony can put the wind up Nakamichi cassette decks when used with better blank MDs. (Apr 98)

SONY MDS-JE555ES

MiniDisc recorder £520 The best sounding MD deck made so far, thanks to awesome build and heroic ATRAC-DSP Type R coding.



A glimpse of the future

SONY MDS-IE510

An impressive sound and unmatched convenience make this MiniDisc player an excellent buy.

DIGITAL RECORDERS

ALESIS MASTERDISK £1400 A groundbreaking hard disc recorder with a built-in CD drive. An amazing bit of kit, and a glimpse of the future. (July 2000)

KENWOOD DME-9020 1500

An excellent tool for home recording, combines convenience, superb sound and a fair price.(Aug 99)

MARANTZ DR-17 £1100 Probably the best sounding CD recoder on the market. Built like a brick out house with a true audiophile sound. HDCD compatible.(July 2000)

PHILIPS CDR-765 1360 One of the first twin deck recorders/players that boasts high speed dub facility. Playback could be warmer, but still a bargain. (Oct 99)

PIONEER PDR-555RW £480 Excellent mid-priced CD recorder that both plays and records with equal panache. (Oct 99)

SONY TCD-8 DATMAN * 1599 Super clean and detailed sound makes this an amazing portable. Not as robust as it should be though.

DVD PLAYERS

DENON DVD-5000 £1600 Monster build, as you'd expect at this price. Facilites and gadgets galore and drop-dead high end looks. A very smooth and sophisticated sound, although not as good as similarly-priced CD players.(Mar 99)

PIONEER DV-717 €700 Well built and a solid performer, with a 'true' 24/96 digital output. Facilities in abundance and a controlled, exciting way with CD replay. Shame it lacks a Dolby Digital decoder!) (Sep 99)

SONY DVP-S725 £490 One of the best buys in the DVD market. Available in a dodgy white case, but the facilities and performance more than make up

and a whole host of up to the minute facilities to keep you occupied.(Mar 2000)

for this Excellent with both music and visuals.

HEADPHONES

IECKLIN ELOAT MODEL TWO 699

Wonderful panel-like and open sound from these esoteric-looking headclamps. Do not wear in public unless you like being made a fool of!

SENNHEISSER HD.490

Good value cans with an exciting and bassy sound. Everything one should look for in headphones at a sensible price.



Nordost Blue Heaven A simple and effective upgrade

INTERCONNECTS

CHORD COMPANY CHAMELEON 2 £90/m One of our favourite favourites, the Chameleons are musical performers with a smooth yet open sound.

DNM RESON £40/m Neutral and transparent, and a steal at forty auid!

NORDOST

BLUE HEAVEN £150/m Some of the fastest and most transparent cable around. A simple and effective upgrade.

VAN DEN HUL ULTIMATE THE FIRST £260/0.6m Carbon interconnects that help you forget the electronics and concentrate on the music Miraculous transparency.

LOUDSPEAKER CABLE

CHORD COMPANY

RUMOUR £9.95/m The Rumour is our reference at the price. Tight and tuneful bass mixed with air and space results in a cracking cable for the money.

DNM RESON £6.95/m This cable has a transparency of sound that's rarely heard at the price. Excellent value for money.

NORDOST

BLUE HEAVEN £375/3m pair This isn't cheap, but it sounds absolutely fab. An open and spacious sound that simply carries music.

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Elac CL82 Speakers	£199.00	Marantz DV7000 DVD Player (1Yr G/tee)(599.00) £329.00
Linn Karik/2 CD PlayerS/H (1Yr G/tee) (new 1850.00)	£895.00	Naim NAP 250 Power Amp S/H (1Yr G/tee) (1805.00) £1000.00
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Linn Ninka Cherry Spkrs (2Yr G/tee)	£725.00	Pioneer LCV10 Laptop Port/DVD (1Yr G/tee) (999.00) £499.00
Linn 5150 Subwoofer-Cherry (2Yr G/tee)(2999.00)	£1995.00	Rotel RCD 971 CD Player (2Yr G/tee) (450.00) £269.00
Linn Kairn Line Preamp (1Yr G/tee) (1400.00)	£799.00	Rotel RV 985 DVD Player (2Yr G/tee)(625.00) £399.00
Linn LP12/Lingo/Akito S/H (1YR G/tee)(2250.00)	£1250.00	Vision 42" Plasma Screen (1Yr G/tee)(5150.00) £2990.00
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Linn Keltik Speakers Wal (2Yr G/tee)	£3950.00	Yamaha KX493 Cassette Deck (2Yr G/tee) .(179.00) £129.00



welcome to welcome to world classics

CASSETTE

NAKAMICHI DR-2

A great machine with Nakamichi's legendary heads. The lowest cost 'true' Nakamichi at the time, retailing for £600.

NAKAMICHI CR-7

The last of the great ones, and definitely the best Nakamichi ever (yes, better than a Dragon)

YAMAHA TC-800G

Early classic in serious cassette. Its ski-slope looks got it a cult following once it had ceased to be simply ugly.

CD PLAYERS

MERIDIAN 207

Beautifully-built two-box with pre-amp stage. Very musical although not as refined as modern Bitstream gear. No digital output.

PIONEER PD-91

Built-to-last player with easy upgrade routes for modifiers. Not knockout as it stands but get one cheap and have a go!

CAMBRIDGE CDI

AUDIO

23 Langley Broom

LUSION

mailto: auidioillusion a btinternet.com

23 Langey Broom Langley, Berkshire SL3 8NB (2 mins. Junc. 5 off the M4) TEL: (01753) 542761 FAX: (01753) 772532

The first two box player with weighted mechanics and even an optional Dropout/error counter. Radical and effective at the time - a classic.

AMPLIFIERS

LEAK POINT ONE, TLI2 & TLI0

Ancestors of hi-fi, consequently expensive nowadays. As with all vintage valve stuff, overhauling is de rigueur before use, using original parts if possible.

LEAK PRE-AMPS

Line of 'good for their time' pre-amps. Use of EF86 pentode valve for high gain rules out ultra performance. Not the highest-fi.

LEAK STEREO 20

Excellent workaday classic valve amp. In good order the 20 will not disgrace itself. Various upgrades are available from specialist repairers.

LEAK TLI2+

Plentiful monobloc equivalent of Stereo 20. Reasonably inexpensive and a tweakers' dream. Genuine valve hi-fi on a budget.

NAD 3020

You can't argue with success! NAD's budget transistor integrated gave thousands their first taste of hi-fi and remains great value.

QUAD 33/303 PRE/POWER

Great style and construction, also bullet proof, Warm and wooly sound, but easy going, A good introduction to early transistor audio classics.



Garrard 401 A legendary turntable.

QUAD 22/II PRE/POWER One of the all-time classic valve amplifiers. Unusual circuit but it works beautifully. 22 pre-amp not up to today's standards.

SUGDEN A21

Seventies transistor integrated has an eminently likeable smoothness and musicality. Limited inputs via DIN sockets.

TECHNICS SE-A5 Mk2

Nice transformer and electronics, shame about the casework. With tweaking, this 150watter can sound sweet.

LOUDSPEAKERS

KLIPSCHORN

Not exactly plentiful or cheap but a splendid beast. For efficiency they have seldom been equalled. Space hungry!

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PERFECT SOUND

Whether it be Home Cinema or Audio - there should be no compromise -

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PIEGA

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AERIAL

"this is a Home Theatre experience of the highest order" - Stuart Robinson HCC



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PAGE **92**

JUNE 2002 HI-FI WORLD

World <u>Radio History</u>

LEAK SANDWICH

Rather warm sounding big infinite baffle but cheap with it. With a reasonably powerful amp can sound quite satisfying.

LOWTHER PM6A

High quality full-range driver; still manufactured. High sensitivity, as fitted to many classic horn designs.

MAGNEPLANAR SMGa

Touch dry in the bass but a technological loudspeaker with genuinely musical abilities.

MISSION 770

Father of the 77 range which continues to this day. Well mannered with a warm sound and a kind load to amplifiers.

QUAD ESL57

Unrivalled. Properly serviced there is nothing like them. Their natural presentation may make them caviar to the general.

YAMAHA NS1000M

Hi-tech favourites of the Japanese and Americans.Viewed more warily in the UK but can give excellent results.

TANNOY GRF & AUTOGRAPH

Folded horn monsters which certainly sound good if you have the space. For Tannoy vintage see HFW November 1998.

WHARFEDALE SUPER 8 RS DD

Ideal experimenters' driver. High sensitivity ~14,000 Gauss magnet and extended frequency range. Inexpensive too!

TANNOY YORK, LANCASTER

Many timilar models of infinite baffle or reflex design. Not the last word in tautness but the drivers work well in modern cabinets.

VINYL

ACOS LUSTRE

Very honest piece of kit, well made and easily adjusted. Vinyl beginners could do very much worse,

ALPHASON HRI00S

First class arm, up to present-day standards. Buy carefully, though, as there's no service available now.

ARISTON RDII

A one-time king of turntables very similar to the Linn LP12. Now deposed but worth a look at the right price.

LINN AXIS

Uncomplicated, lower-price version of the famous Sondek. Less expensive than some of its stablemates.

GARRARD 301 & 401

Legendary turntables, once fairly plentiful. Excellent back-up available; many different custom plinths available. High quality.

GOLDRING LENCO 88 & 99

Great deck for the kitchen table enthusiast. Garrard fans won't look at 'em but cheap and capable. Servicing available.

HADCOCK 228

Recently out-classed by Hadcock's updated 228 Special Edition but a proper hi-fi arm for all that. Makers still service.

MICHELL FOCUS ONE

20 years and still going strong. Early runner in the 'modern' turntable cycle with a first class arm. Factory servicing available.

SHURE M75

Recent line-contact improvements have left the M75 behind but the wide range of needles make it a handy tool.

SME 3009 IIS

Everlasting classic tone-arm. Spares permanently available from SME. No longer the last word but peanuts second-hand.

THORENS TD124 Best classic deck ever?

Judging by the prices they fetch it's possible -78rpm too!

THORENS TD150

Mid-price deck with a keen following. No real difficulty with servicing - novices may find the suspension system unnerving.

TRIO L-07D

Knockout heavyweight from 1980 with stainless bearing and 111b platter! Not a give-away and beware! - spares scarce.

TUNERS

LEAK TROUGHLINE (ORIGINAL) Interesting ornament but no longer hi-fi. Limited coverage of 88MHz to 100MHz only.

LEAK TROUGHLINE II & III MONO Arguably the best-sounding tuners ever. Adaptation for stereo easy via phono multiplex socket.

LEAK TROUGHLINE III STEREO

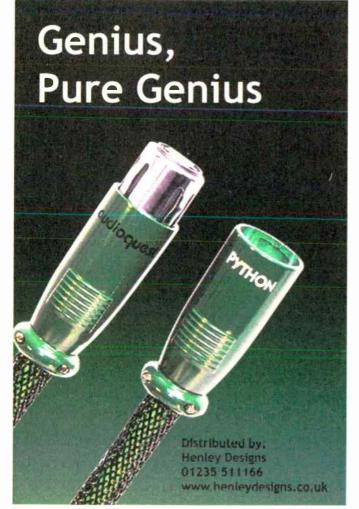
Excellent tuner with indifferent stereo decoding circuit. Best when adapted to use modern outboard decoder.

MARANTZ ST-8

Possibly the ultimate Tardis console, including an oscilloscope for checking the strength of signal. Expensive even now.



Leak Troughline II Mono Arguably the best sounding tuner ever



Goldring 1006 1012 GX 1022 GX 1042 Eroica LX/H Elite	276 295 £124 £143 £133 £232	252 GEX 267 GEX 286 GEX 2100 GEX 295 GEX 2163 GEX	£52 £67 £86 £100	ADC Akai Dual Goldring JVC	Ity Diamond S XLM Mk III AN 5, AN 60 AN2, AN 70 DN 145 E, DN G800 Super 8 DT 55, DT 60	165 E	£16.00 £12.00 £14.00 £16.00 £16.00 £12.00
GEX – Exchang Any make/mode				National Ortofon Pioneer		30 D, P 33 D AS 20 E 11, OM 20 20, PN 240	£12.00 £16.00 £12.00
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DL 110 DL 160	£79 £95	£62 EX £74 EX		Sony	ND 142 G, NO ND 143 G, NO	7 HE, VN 35 HE 0 155 G, CN234 0 150 G, ND 200 G	
irado Prestige Black Prestige Gold	£47 £142		£26		ONE SELE	Types Stocked	
httofon 510 Mk II MC 15 Super II MC 25 FL MC 10 Supreme MC 20 Supreme MC 30 Supreme Kontrapunkt B Rohmann	£34 £130 £227 £304 £382	£110 EX £193 EX £258 EX £323 EX £385 EX £548 EX £742 EX	£22	GRADO Prestige S Reference		SR-60 SR-80 SR-125 SR-225 SR-325 SR-325 RS-1 RS-2 (new)	£77 £95 £143 £190 £285 £626 £446
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HI-FI WORLD JUNE 2002

world classics



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PRE AMPLIFIERS AVI S2000 MP remote pre

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PLASMA MONITORS Panasonic TH-42 PWD4 "new"

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 Marantz ST17 Tuner
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Dplayers DACS

Micromega Duo CD 3 Wadia 860 x D.P.A. Enlightenment DAC Theta Pro Geny YBA CD I Delta "new" Audio Aero "new" Meridian 508 (24/96) Oracle CD1000 Transport "new" Tag Maclaren CD220R Audio Lab 8000 DAX Mark Levinson 30.5/ 31 Mark Levinson 31/35 Oracle CD2000 Transport "new" Sony CDPRI/ DAS R1 Krell KPS 25s 24/96 Audiomeca Kreatura Transport/ Elexir DAC Acuphase DP70V Acuphase 90/91 YBA CD Speciale Audio Refinement CD Complete Boulder 2020 dac Krell KPS 25sc Theta Data II Transport AT + link YBA CD Integre "new" £6,995.00 £3,698.00 £2,550.00 £12,000.00 £650.00

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AV COMPONENTS Krell HTS (AV Processor) Audio Refinement Pre 5 "new" Audio Refinement Multi 5 (Power)"new Lexicon MC1 "new"

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Pre amplifiers

Audio Research SP9 mk II Mark Levinson 380 S Audio Research LS3B (Black/ remote) Kreli KRC 2 CAT SLI Sig Pre Amp Hovland HP100 Line Pre Audio Synthesis Passion 8M bal/ remote BAT VK50SE Kreli KSL 2 Pre Cary SLP98L Remote Pre BAT VK51 + remote

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diy supplement/contents

JUNE 2002

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World Radio History

TECHNICAL & GENERAL

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diy news

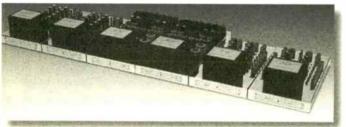
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KIT & COMPONENT NEWS

Horns to look at

Here's a site that might give DIYers a few ideas. Have a look at www.northstarleading.com, a showcase of hugely expensive loudspeaker and huge amplifiers. The amplifier shown here is the JA800 from Jadis a four channel amp that can be bridge to provide 2 channels at 800watts. Definitely, not a good amplifier to run these beautiful Jadis Eurythme horn loaded speakers at 103dB. The designs are perhaps inspirational for budding designers.





A Passion for Projects

Here's an excellent site that is worth visiting. It's a non-



commercial, English language site by a Dutch DIY hi-fi enthusiast/budding web designer/

amateur photographer that documents all the projects he has built. There's a fair few, and included are circuit diagrams, plus detailed pictures with accompanying text.

For the technically minded there are a lot of circuit diagrams. The site owner invites others to submit

their projects and he will even create



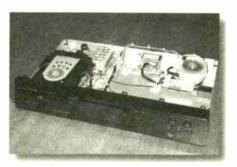
the necessary web pages for you free of charge. It's a good site for all DIYers, but more for valve heads. There is an excellent links page, which leads on to many other equally unusual sites. Go to http://vt52.com

Njoe Tjoeb

Following the article in DIY Supplement No. 64, inside April 2002 issue, detailing the Dutch Njoe Tjoeb 4000 valve output CD player, we have been inundated with requests for contact details. "New Tube" contact information is as follows -

www.hi-finotes.com e-mail herman.van.dendungen@tip.nl

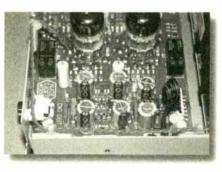
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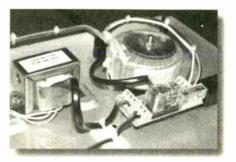
The Jjoe Tjoeb 4000 with top removed



Philips transport finds itself in unusal company



Valves in a modern Philips circuit board



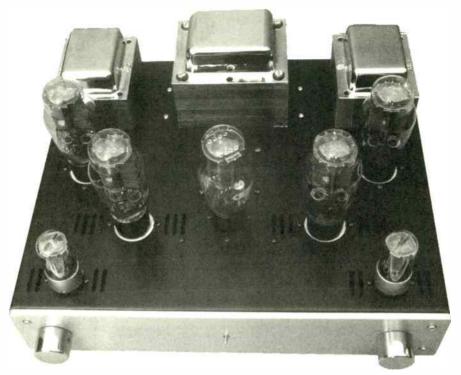
Mains transformer and power relay

World Radio History

review I



Single Ended amplifiers offer a hi-end sound, but often at a high price. Here is our budget 8.5W zero-feedback valve integrated amplifier.



I► INTRODUCTION

ou may think that World Audio Design have produced just about every type of valve amplifier kit under the sun, but you couldn't be further from the truth. Our latest project was inspired by the growing interest among our contributors and readers in low powered valve amplifiers driving high efficiency speakers. The Japanese have been reveling in this combination for many years. Pick up a copy of MJ, a Japanese hi-fi enthusiast magazine, and you will see numerous triode single-ended amplifiers in all shape and sizes.

Similarly, DIYers from the States are very into their single-ended amps. Here in England push-pull amplifiers have predominated, thanks to the legacy of Leak, Quad and Rogers to name a few, but tastes are changing. As awareness of the benefits of valve amplifiers has slowly risen over the past ten years or so, people have been slowly but surely exposed to esoteric singled-ended types. The limiting aspect of this genre is their low efficiency and lack of power: 4watts is not going to drive your ESL57s. In order to appreciate these low watters you need high efficiency speakers but not necessarily 110dB horn loaded speakers that look like a couple of caravans parked in the living room. Modern drive units in reasonably sized cabinets can easily achieve good sensitivity: look at Living Voice's Avatars reviewed in last month's Hi-Fi World.

As the sensitivity and efficiency of speakers rises, more and more people are turning to single-ended amplifiers for their unique properties. You will probably be aware that they come with a large price tag; a typical fully built commercial unit can cost well over $\pounds 1500$ - and that is at the lower end of the scale. This is where kits come to the fore, costing a quarter of the price.

2A3 PSE IS BORN

For this design we wanted a truly hi-end amplifier but it had to be affordable, use world renown valves and be a stereo integrated. The output power had to be reasonable - not too low, not too high. We strived for around 8 watts. To be totally esoteric you have to use a directly heated triode, an amplifying device in its simplest form. One would immediately think of a single 300B as an output tube and this would provide in the region of 8-9 watts. But 300Bs are too expensive at around £70.00 each for a JJ, the same type we use in our 300B PSE monobloc.

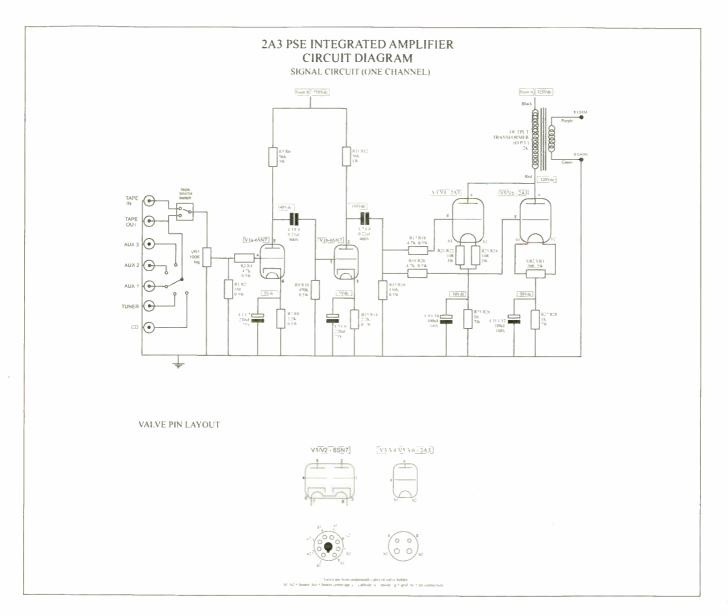
What about a 2A3? A single 2A3 would give you about 3.5 watts - a tad on the low side, but how about two of them? We calculated that 2 x 2A3 in parallel single ended mode would give around 7 - 8 watts, and they are not too expensive: £22.00 for a Sovtek. Now what to drive two 2A3s? The answer is a 6SN7, which looks funky and sounds great.

The 2A3 valve is a golden oldie the Japanese have been using for decades and they are quite a fad in America at the moment. These valves are also used for pushpull amplifiers. They appear in Moth Audio's Si2A3 monobloc, Welbourne Labs Moondag 2A3 and Cary Audio Designs 2A3-SE monobloc. There are numerous makes. New old stock (NOS) are quite expensive; RCAs go for \$300.00, whereas Sylvanias and Raytheons come in at \$80 (prices are taken from www.thetubestore.com). In current production you have Golden Dragon (Chinese), Sovtek and KR 2A3. The latter is made by KR Enterprises, a small manufacturer in the Czech Republic, risen from the old Tesla Company (before it became JJ). They began producing them in 1998 and are very specialised Although costing \$240.00 each they are very popular.

We went for the Sovtek as it has a very good reputation. For the 6SN7 my immediate choice from current production was Sovtek, but we ended up switching to Chinese manufacture.

review





Circuit description by Andy Grove

The 2A3 PSE is a straight forward design, simple and elegant. The 6SN7, an octal based, indirectly heated double triode, forms a two stage voltage amplifier. Each 6SN7 stage has a gain of approximately 13.5 generating the 50 volts peak-to-peak required to drive the output stage properly.

The output stage consists of two 2A3s in parallel; each has a separate cathode resistor to balance the anode current. The relatively high anode voltage, 285V (Va - Vc) and a load impedance of 2kohm for the primary of the output transformer provides an output of 8.5watts, a slightly higher output than one would expect from a 2A3 parallel single ended amplifier.

The power supply is valve rectified using a single 5U4, with a hefty 10H choke and two 100uF 500V capacitor in pi filter formation, giving a very clean HT supply. The 275Vdc needed for the anode resistors is achieved by a dropper resistor, R14, further smoothed by another 100uF, 500V capacitor, C15. The 2A3 filaments each require a 2.5V, 2A supply. We chose a dc supply to keep hum to a minimum. A 4Vac supply is rectified through a 15A bridge (always best to over spec. in these cases) BR2 - BR5. A small voltage is dropped across a 0.47R 5W resistor in series, R31 - R34, to limit the peak current in the rectifier circuit and to limit the surge current in the 2A3 filaments at switch on A hum-bucker potentiometer, VR2 and VR3 is used on one 2A3 per channel to balance out any remaining hum. The 6SN7 filaments required something a little more sophisticated, a regulated 6.3Vdc supply. Utilising a familiar circuit, used in our PSU II module, 9Vac is feed to a bridge rectifier and C16, then the raw dc onto the 'Volts in' of a 78\$05 (5V, 2A regulator chip) mounted on a heat sink and bolted onto the chassis for maximum heat dissipation. The common terminal is lifted by 1.3V through 2 diodes stacked to earth. The 'Volts out' is further smoothed by C17 and the resulting 6.3Vdc is incredibly clean, reducing the possible hum content further. M

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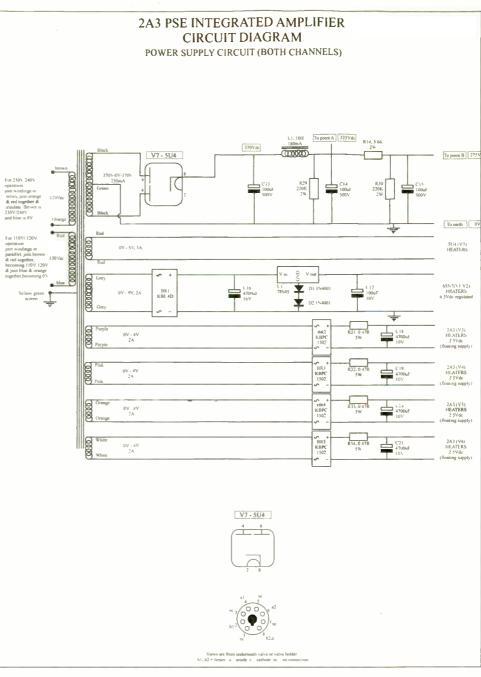
review

The development of this amplifier holds an interesting tale. Andy Grove's initial design used a 6AC7, a metal enveloped pentode, in the voltage amplifier stage. The idea of a metal valve made me a little uneasy, let alone the fact that it was a pentode, straying slightly from the triode aspect of the amp but, always up for something new, I let it go ahead. When the 6AC7 samples arrived, they were painted black with a few splurges of iron oxide as decoration; rust was never a problem with glass valves! Anyway, knowing that these guys had been around the world a few times and that there were other fresher tubes that were sitting in Russia, I kept going. On first switch on everything seemed okay, but looking at the scope I could see noise was going to be an issue as the trace danced around like a shore line on a windy day.

Okay, so they were a little noisy, but they were old. The amp sounded great apart from the odd whistle. With the Bristol 2002 show looming and my whistling friend potentially headlining, I ask for more 6AC7s to be sent over, even though, they had accompanied the originals in the same box on their world tour. Out of seven that came the next day, I found one that wasn't too bad. It joined the better of the original two. I was beginning to think that these guys hadn't been around the world at all and had fallen overboard 2 miles out of port. Anyway they performed well at the show and people showed a lot of interest, but being a slightly superstitious fellow who likes things to run reasonably smoothly from the outset I gave Andy a call and asked if we could use a 6SN7 instead of a 6AC7.

In came the circuit changes and the sample Russian 6SN7s. I carried out the mod. and Andy came in for a quick check. All seemed fine: the heaters of the 6SN7s were being fed by 6.3Vdc, a bridge rectifier and a 4700uF 10V cap for smoothing. Looking at the hum levels, a vital criteria for this breed of amplifier, it look like hum was about 2mV - a touch too high.

Andy had to rush off and I was left to mess about. I decided to connect up the 6.3Vdc regulated supply that sits on our PSU II module. This took the hum down to 0.5mV. When Andy returned he was armed with Chinese 6SN7s that achieved a hum level of 0.7mV with the unregulated supply. The long



and short of it is, I incorporated the same regulated 6.3Vdc supply for the heaters of the 6SN7 to make the 2A3 PSE ultra quiet, ideal for high efficiency speakers.

KIT DESCRIPTION

The kit has a 2mm mild steel chassis with a black powder coat finish, providing an extremely strong platform on which to mount all 15kg of iron; I speak here of the mains, two output transformers and the 10H choke, all of the E/I type. The externally mounted transformers are topped with chrome plated caps.

The chassis is fronted by an attractive 6mm thick anodized alloy plate that bolts in place. The front plate holds two custom made chrome plated knobs for operating the volume control and the input selector switch. The amplifier can receive six line level inputs and has a tape out. The phono sockets are high quality gold plated insulated sockets, the speaker terminals are a new heavy duty 60A, gold plated socket from Cliff Electronics that can receive 4mm bananas and spades.

All seven valves are exposed. The rear mounted IEC mains socket also carries the on-off switch, which is easily reached from the front because it is situated at the left corner of the amp. A rear panel location avoids an internal mains loom which in a valve amp in particular, with its high input impedance, is a bad idea. Hum pick up can occur, especially if the mains loom gets anywhere near the input valves, which is inevitable with front located on-off switches.

The mains transformer has been wound to accept 110V/120Vac or 220V/230Vac depending upon how you wire the primary, so it's suitable for all territories.

All components supplied are of a good quality, using carbon film for low 0.5watt resistors, metal oxide for the 3watt resistors and wirewound ceramic for 5watt and 7 watt.

World Radio History

review

All electrolytics are manufactured by Forever, the high voltage electrolytics are JJs, and the 0.22uF 400V capacitors are BC components type 368.As a bonus we are providing the Alps blue 100K volume pot for that touch of class.

Being a specialised design the unit is hardwired. Components are located on 18 way tag boards, that are fitted on 25mm stand-offs. There are 2.5 boards, one per channel and half a board for the regulated 6.3Vdc supply. All valve bases are chassis mount types. There is plenty of space inside should you want to fit bulkier upgrade components at a later date.

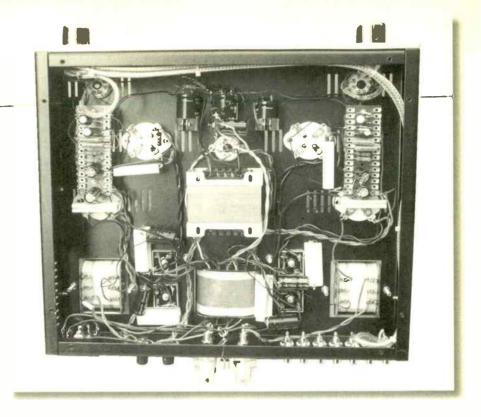
The kit is accompanied by a detailed instruction booklet to aid construction. The booklet runs through the build sequence, describing each step.

2A3 MEASURED PERFORMANCE

Output	8.5watts	into an	8 ohm load
Sensitivity			200mV
Noise			0.5mV
frequency respo	nse 101	Hz - 45	(Hz +/- 3dB

SOUND QUALITY

Not all valve amps - including World Audio design kits - sound the same. The 2A3 PSE is a prime example of this. Being an 8.5W per channel parallel single-ended design you may think it's a typical example of the breed highly detailed and transparent, but somewhat lacking in weight and depth. Detail and transparent - you bet, but lacking in weight and depth - no way! The 2A3 has an amazing amount of bass weight for its (on paper)



An internal view of 2A3 PSE integrated amplifier showing drop-through mains transformer (bottom centre), a huge 10A frame core choke (centre) and drop-though output transformers. Above are the tag boards.

humble power output. Matche with 'speakers of reasonably high sensitivity it has an amazing sound. Well recorded discs such as Paul Weller's 'Stanley Road' and Siouxsie and the Banshees' 'The Rapture' had a remarkable amount of rhythmic dexterity and bass slam and the detail present was exceptional, with particularly good imaging.

Classical music in the form of Dvorak's Slavonic Dances had a good sense of scale

and depth, with instruments well spaced and airy in true PSE fashion. Instrumental timbre was very natural and there was also a good balance of tonality.

The 2A3 delivers a full sounding, rich and rhythmic response that also happens to be highly transparent and detailed. In this respect it's one heck of an amp, and one of the finest PSE designs you'll come across. Essential gear for PSE-loving DIYers.



Rear view of the 2A3 PSE integrated amplifier showing heavy duty 'speaker terminals (centre), six inputs and tape out, plus mains switch (right).

World Radio History

		SE INTEGRATED AMPLIFIER		R33	0.47R, 5W	1	VALVES	
PARTS LIST			R34	0.47R, 5W	1	2A3 Sovtek	4	
							Chinese 6SN7	2
		STORS: SIGNAL CIRCUIT			ACITORS: SIGNAL CIRCUIT		5U4 Russian	1
	RI	IM, 0.5W	I	CI	220uF, 25V	1		
	R2	IM, 0.5W	1	C2	220uF, 25V	I	HARDWARE	
	R3	4.7K, 0.5₩	1	C3	0.22uF, 400∨		chassis, base plate and front panel	I
	R4	4.7K, 0.5₩	1	C4	0.22uF, 400V	1	chrome knob	2
	R5	56K, 3W	1	C5	220uF, 25V			3
	R6	56K, 3W	1	C6	220uF, 25V	1	chassis mount octal valve base	-
	R7	2.2K, 0.5W	1	C7	0.22uF, 400V	1	chassis mount UX4 valve base	4
	R8	2.2K, 0.5₩	1	C8	0.22uF, 400V	1	red insulated, gold plated phono sockets	7
	R9	470K, 0.5₩	1	C9	100uF, 100V		black insulated, gold plated phono sockets	s 7
	RIO	470K, 0.5₩	1	CIO	100uF, 100V	1	tape/source switch	T
	RII RI2	56K, 3W	I I	C11 C12	100uF, 100V	1	selector switch	L
	RI3	56K, 3W	1	CIZ	100uF, 100V	'	gold plated speaker terminal post (pair)	2
	RI4	2.2K, 0.5W 2.2K, 0.5W	1	CAR	ACITORS & SEMICONDUCTOR	DC.	earth post	Ι
	RI5	150K, 0.5W	1		VER SUPPLY CIRCUIT	1.3:	IEC mains input/switch	I
	RI6	150K, 0.5W	1	row	VER SOFFET CIRCOTT		IEC mains lead	I
	RI7	4.7K, 0.5W	1	CI3	100uF, 500V	1		2.5
	RI8	4.7K, 0.5W	ì	CI4	100uF, 500V	÷	0	
	R21	10R, 3W	1	CI5	100uF, 500V	ì	capacitor clip	3
	R22	10R, 3W	i	C16	4700uF, 16V	ì	knob for humbuckers	2
	R23	10R, 3W	1	C17	100uF, 10V	i	self adhesive feet	4
	R24	IOR, 3W	Ì	C18	4700uF, 10V	· ·	tie wraps	01
	R25	IK, 0.5W		C19	4700uF, 10V	i	M4 x 8mm hexangonal bolt	4
	R26	IK, 0.5W	1	C20	4700uF, 10V	i.	M4 nut	8
	R27	IK, 0.5W	1	C21	4700uF, 10V	I.	M4 x 8mm pozidrive screw	4
	R28	IK, 0.5W	1	BRI	KBU4D	L	M3 x 20mm pozidrive screw	4
	VRI	ALPS BLUE 100K	1	BR2-5	5 KBPC1502	4	M3 x 12mm pozidrive screw	25
	VR2	20R, 2VV POT.	an a	DI- 2	2 IN4001	2	M3 x 6mm pozidrive screw	9
	VR3	20R, 2W POT.	1	UI	78505 2amp 5V reg.	T	M3 x 6mm grub screw	2
				heat s	sink for UI		5	_
	RESIS	TORS: POWER SUPPLY CIRCUIT	POWER SUPPLY CIRCUIT			M3 nut	30	
	R29	220K, 2W	I	TRAI	NSFORMERS		M3 stand offs	6
	R30	220K, 2W	L	OUT	PUT E/I 78 lam with chrome top cap	2	wire vari	ous
	R31	0.47R, 5W	I	MAIN	NS E/I 120 lam with chrome top cap	Т	instructions	Ι

R32

0.47R, 5W

2A3 PSE integrated

2A3 PSE valve set

2A3 cage

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World Radio History

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Got a problem? Hi-Fi World's experts answer your DIY and kit queries

II > QUAD BEHAVING BADLY

Hello!

Suddenly one of my Quad IIs started to hum (constant) and the sound also became distorted and the output valve (6P3S) closest to the mains transformer goes really red.

The new 0.1 uF capacitors from Lithuania arrived so 1 changed all 0.1 uFs, switched on (sounded a bit clearer, actually), checked the grid voltages, 0.1 V and 1.2V respectively. Cathode voltage 26V.

After a while with the new capacitors, the same thing occurred: the grid voltage on one of the output tubes was 46V, the cathode voltage was also around 46V, but the voltage at L1 has sunk to about 320-330V. The humming appears at the end, when these voltages are reached. The process takes about 15-20 mins. The sound improves a short moment when I put the voltmeter probe on the grid of the red-hot output tube and the grids of the EF86. Help needed!

thanks Tom



I would be very suspicious of the 6P3s in this instance as the grids should sit at OV, although it is possible that the EF86 (V2) is faulty as well,

Quad II

as the three grids are all interconnected.

What you could do is remove the 0.1 uFs for a start and then measure the voltages. If the grids return to 0V then you have leaky capacitors. If the grids are still positive remove the EF86 (V2). If the grids return to 0V the EF86 is the likely culprit. If the grids are still positive I would definitely suspect the 6P3s.

It is also possible, however, that if you have changed any resistors you may have a dry joint on one of them or the associated wiring. In this case measure from the 6P3 grids to ground, where you should get approximately 680k. If not, there is either a poor joint or a resistor has gone open circuit or something like that.

I don't know where you live, but if you care to e-mail me 'off-board' with a tel. no. we could perhaps sort it out over the phone and then you can put comments on the bulletin board to help others. from Dr John

HÞSPEAKER WISE

Audua

(adding We as now looking on one out the safe and now with pairs will depen enough the fit is not empty of the to

Soliday PLEASE Complete to far mean

(J/2582) Sponse Waladay 3.04 has approved Interference Jinet

(1.01) Myothin 2 62 4

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The Assam Assam his bear modes of a supportunity of the Special Web-terp ands. Type 4 had it for proper Kyrelly of

Audua website

recommend building the 'wallin'

jig(http://www.gti.net/wallin/audio/audio.html) to

How about doing a write up on it and comparing

Also wondered if you might consider some

more speaker DIY projects? How about a home

cinema setup ? (uproar from the purists no doubt

...). Audax have a project on their website with a

design by Joe D'Appolito using their Aerogels. I've

recently started a new speaker project based on this Audax project, but one to produce better

results with music as well. My initial testing of the

use with it and also the electret mic preamp.

to other commercial testing software ?

Just like to share what I consider to be some excellent software for building and testing speakers for the princely sum of, well a couple minutes connection to the web. Check out Speaker Workshop from Audua(www.audua.com).

At the moment it's available as shareware to the web community to assist in it's development. I've been using it for sometime now. Initially it took some setting up with the calibration etc, but once there it's been great. I'd

to Audua

PRODUCY The new lower sequence year a read actions. Save, but for hand to read and poor parsmand effectives. On particle will be the proor a read for any papers where they have being with forcing excepted quantities.

Audax project found that while excellent for home cinema it just didn't do it for music for me, which was fair enough as it was designed for movies. So far, the modifications are working out



Parts Xpress website

not too bad. For the money in parts, nothing yet in the shops has compared....

The Aerogels and tweeters used are available from Maplin for very reasonable prices, and I've found Falcon acoustics very helpful for the crossover bits. Also, while I remember, parts express(www.partsexpress.com) have a subwoofer range that appears to be extremely good value for money. The only downside is the shipping cost to

the UK. In their Dayton 'dvc' range. (xmax on the I 2inch is I 5mm) do you know if there is anything available here with similar spec or any distributors that might be able to import the range?)

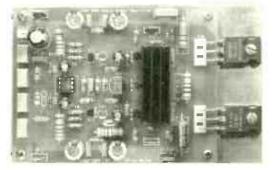
Well, that's my two cents for now. If you're able to check out any of the above let me know what you think, there's a lot of good stuff available out there via the web for us diy'ers, happy surfing and thanks for many years of decent hi-fi reading ! Adrian Stuart

Thanks for the information. NL

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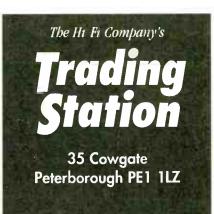
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1499	995	
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OPEN MON-SUN 10AM-6PM FOR FURTHER DETAILS: TEL 01726 74474 / FAX 01726 70387 MOBILE: 07973 233 380 E-MAIL HICAM1@FREENETNAME,CO.UK OR VISIT OUR WEBPAGE HICAM.CO.UK AUDIOMANIA SUNDAY 30 JUNE 2002 CASTLE SPORTS COMPLEX SPALDING, LINCOLNSHIRE 10.30a.m. - 4.00p.m. ADMISSION £2 EARLY ENTRY 9.30 a.m. £5 STALLS £20

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APPROACH SPALDING VIA A16, THEN TAKE A151 INTO SPALDING AT SPRINGFIELDS ROUNDABOUT, CROSS OVER BRIDGE, PAST CHURCH, PASS WESTONS GARDEN MACHINERY, KEEP ON TO TRAFFIC LIGHTS THEN CROSS OVER BRIDGE AND TURN HARD LEFT INTO ALBION STREET, CASTLE SPORTS COMPLEX IS ON YOUR RIGHT

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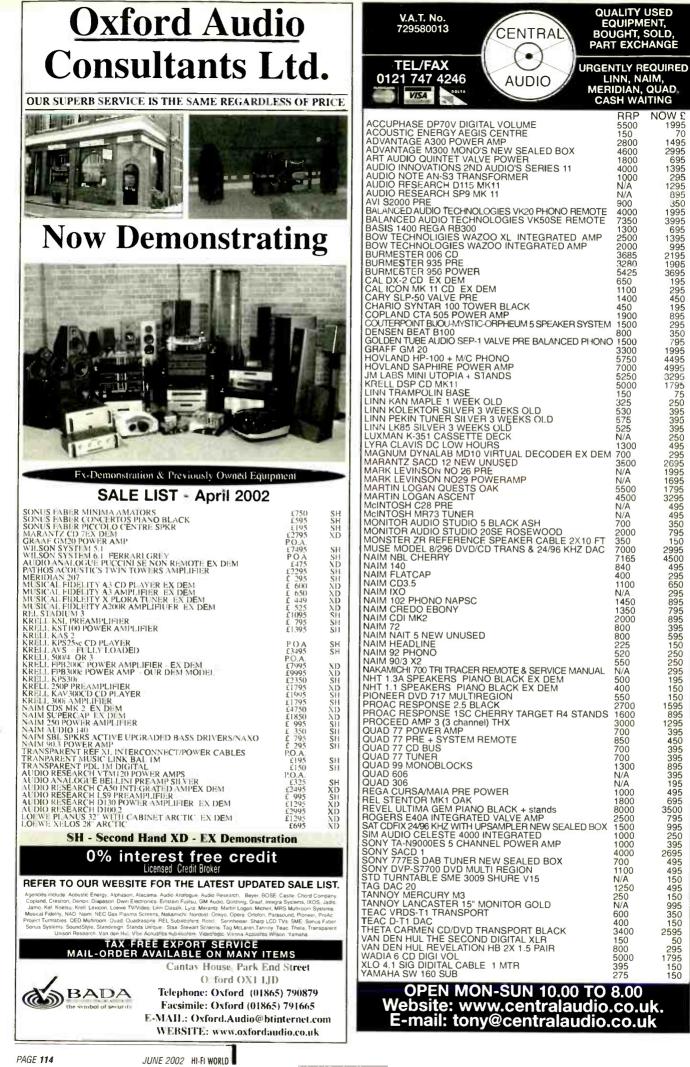
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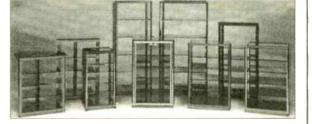
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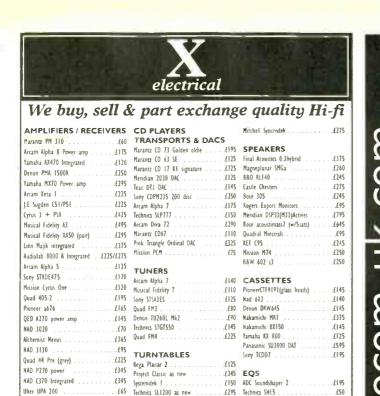
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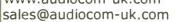
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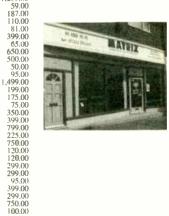
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01376 521132 07802 483698 CHELMSFORD, ESSEX e E-MAIL: soundstage@netlineuk.net 2nd User IIi-Fi & audio BY APPOINTMENT ONLY ARCAM DELTA 2NO TUNER BOXED AND IMMACULATE ADDIO INNOVATIONS SERIES JOIO MKII MONO'S WITH LI VALVE PRE AMP ADDIOLAB 80000A-GREY-PHONO-SOME SCRATCHES ADDIOLAB 8000A-GREY-PHONO-SOME SCRATCHES ADDION SILVER KNIGHTS 300B MONO'S NEW GOLDEN DRAGON VALVES DENON AVP AT GOLD BOXED AND IMMACULATE. (2000 NEW) DENON DVD-5000 GOLD WITH MULTI REGION CHIP FITTED SUPERB MACHINE DENON AVC-AI DOLBY DIGITAL AV AMP-GOLD (2000 NEW) EDNON AVC-AI DOLBY DIGITAL AV AMP-GOLD (2000 NEW) ENN KIELIDIH BLACK ASII LINN KOBARIKS DMS WALNUT I OVELY CONDITION BUYER COLLECTS MERIDIAN 500/566-20 BIT TRANSPORT/DAC BOXED AND IMMACULATE MICROMEGA DRIVE MOAC DASE DAND IMMACULATE MICROMEGA PRE AMP REMOLED AND IMMACULATE MICROMEGA PRE AMP REMOLED AND IMMACULATE MIXEM NAPI40 DUSTYLESUPERE CONDITION NAMI NAPI40 DUSTILESUPERE CONDITION NAMI NAP4003 BOXED AND IMMACULATE MIXEM NAC92/SNAPSTSIO LO TILESUPERE CONDITION MACHICASSETTE DECK 2 PONEER DAV17 MULTI REGION DVD PLAYER-GOLD PROAC TABLETTE 50 MARIGOAN JIMMACULATE MOXAMICHI CONSECTI CD PLAYER WAS EISON NEW LOVELY CONDITION AXAMICHI CONSECTI CD PLAYER (3500 NEW) MIXEM NAP903 BOXED AND IMMACULATE MIXEM NAP903 BOXED AND IMMACULATE MIXEM NAP903 BOXED AND MARACULATE MIXEM NAP903 BOXED AND MARACULATE MIXEM NAC900 SIDUE APRONON PUDELAPRONON PUDALAPROX 10000 SUBJERS CONDITION MARINAPHO DOLS SERVERS CONDITION MIXEM NA **PRE-OWNED EQUIPMENT** £1195 £149 £399 £995 £995 £895 £799 6349 £299 2090 1195 2595 2595 2495 £995 £595 £995 £199 £1895 £449 £995 E995 E479 E279 E399 E349 £399 £329 £179 £299 £395 £1695 £1295 £449 £849 £695 1595 £1895 PROFESSIONAL RECORD CLEANING SERVICE - KEITH MONKS MACHINE PLEASE RING FOR FURTHER DETAILS AND PRICES. THREE MONTH WARRANTY ON ALL ITEMS www.sound-stage.co.uk JUNE 2002 HI-FI WORLD PAGE 118

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Loewe, Project, Meridian, S.M.E., & Many Others.

Hi-Fi Consultants

Sale of Ex-Demo & P/E equipment	Approx New price	Sale price
Micromega Duo CD 3.1 transport plus Duo pro DAC	2800	1400
Ruark Solstice Reference monitors (new)	4000	2700
Triangle Zays (91 db) black/walnut	1200	700
ATC SCA-2/SPA2-150 pre-power	6800	3500
ATC SCM20-SL (antique oak)	2300	1200
ATC SIA2-150 integrated amp	2375	1200
PS Audio Lambda CD drive (AT&T)	2800	1400
Audiomeca JI turntable + SL5 parallel tracking arr	n	
+ benz micro	n/a	offers
Alon Lotus SE (outboard x-over)	3000	1400
Arcam Alpha 8R integrated amp	350	180

(Be happy to consider offers on some of above)

Not much to report on the HI-FI Frontier at the moment, as everyone seems to be switching over to Home Cinema, but I'm pleased to report that sales of the £9k Sim2 HT300 are exceeding expectations, but then it does produce a brilliant picture from such a small package. On demo now! In the meantime the new AVI S21 MC4 Refrence CD player is producing great sounds for £999, while for customers generally happy, a Trichord or PS Audio mains conditioner is well worth auditioning, to give your sound a spring clean. How about a Townsend Seismic Sink Stand? Do ring for a chat.

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Quad 77 pre-amplifier with large LCD remote.	£ 495	Richard Allen pure class A integrated amplifier	£175
Leak Stereo 20 valve power amplifiers from Single Leak TL10 and pre-amplifier. Super cond.£ F	E POA POA Pai	Harmon Kardon integrated valve amp.110V. V rare r Leak TL12+ valve amp. Rebuilt by us. As new	£ 299 £ 599
Obelisk 2 integrated amplifier. Good condition.	£ 150	Audiolab 8000C pre-amplifier. Boxed/instructions.	£ 299
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Nakamichi CA5 pre-amplifier. Ex cond. Cost £750	£ 375	Nakamichi PA5 100W/CH power amp. Cost £1300	£ 650
Leak TL10.1 single valve mono. Mint-original. NVA A80 mono power amplifiers X 2 Good cond.	£POA £ 799	A/R Cambridge A60 int amplifier. Unused, Boxed, NVA A60 stereo power amplifier. Good condition.	EPOA £295
AVI S2000 MI int amp & remote. Cost £999. Mint	£ 549	Linn LK100 power amplifier. Excellent condition.	£ 395
Musical Fidelity Pre-8 pre-amplifier, Mint, Boxed Nain Nac 42.5 pre-amplifier with MC boards.	£ 175 £ 150	Aream Alpha 3 amplifier, Mint Boxed/ Instructions Creek 4040 integrated amplifier, 5 pin din version.	£ 100 £ 79
Single Heathkit MA12 mono valve amplifier.	£ 100	Quad 34 pre-amplifier. 5 pin din.Boxed. Ex cond	£ 225
Musical Fidelity The Pre-amplifier with MM/MC		Technics SHGE70 Graphic Equaliser.12 presets	£ 80 £ 75
Arcam Zeta 1.Pro logic Cinema amp. Cost £999.00 Arcam Alpha 2 amplifier. Mint. Boxed/instr		Connossiur/Sugden stereo valve pre/power amp.mint	£ 249
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Revolver tumtable and Linn LVX basic arm. 33/45		Garrard 301 & 401 motor units all serviced from	£ 125
Linn Sondek with Valhalla and basik + tone arm. Revolver Rebel c/w Revolver arm & A/Technica.	£ 499 £ 125	NVA phono 2 MC pre-amp + 2 X PSU. Awesome Thorens TD125 Chassis only	£ 499 £ 59
Dual 505/4 record deck. Good condition/instr	£ 100	Tho KD550 Direct drive turntable.	£ 95
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Mirage OM6 loudspeakers. Built in active subwoofe	er. Goes	down to 18Hz. Cost new £2800. Bargain for only	£1299
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Dynalab 2.8 ref speakers. Cost \$1200 were £450.		Celestion Ditton 15 complete with stands. G/cond	£ 70
B&W DM220, slight cabinet marks, Boxed		Celestion Ditton 44	£ 80
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-	300	MUSICAL FIDELITYpre 3b/ MA50 monoblocks	-	600
	500	MUSICAL FIDELITY A 1000 integrated amp		750
1650	1000	MUSICAL FIDELITY original THE PREAMP & DR THOMAS		
600	250	classic shoebox style power amp		375
400	400 250	MUSICAL FIDELITY DR THOMAS totally rebuilt with mosfet output stage		350
	150	MUSICAL P173 pre		250
	150	MUSICAL FIDELITY P140 power amp		150
(000	350	NAD 1250/2700 pre/ power		275
6000	2750 500	NAIM NAIT TWO NAIM nap 90 slim style		250 225
1200	550	NAIM 140 new style		425
	400	NAIM 323 phono boards(for 42,32,62,72,nait 2) available		30/pair.
1200	200	523 boards NAIM NAC 62		60/pair
1200	400 1000	NAIM NAC 62 NAIM 62 HICAP 140 all old style excellent boxed		175 950
	350	PAS5 LABS ALEPH 5 stereo class A power amp	3150	1750
	1000	PASS LABS O monoblocks class A single ended 75 watts		
2500		top of the aleph range	8000	4000
3500 400	1000	Pink Triangle PIP one Preamp QUAD 33/303		500
780	450	QUAD405MK1 RUSTY BUT SERVICED		150
	275	QUAD	306	220
1650	750	QUAD 606 mkl power		350
1500 600	700 300	ROTEL RC 995/RB 991 pre power boxed SONU5 FABER MUSICA Integrated Amp	1200	600 1300
000	300	SPECTRAL DMA 200 power amp, 200 watts class A	6000	3000
600	250	SUGDEN A48 MK I with wooden sleeve very good condition		130
	3000	5UGDEN AUSIC/AUSIP pre /power , later class		
800	350		2700	1500
1200	700	SUGDEN C51/TS1/AS1 pre power and tuner SUMO Athena/Polaris pre/pwer		400 700
REEL		YAMAHA F2200 professional series power amp 200 watts		0.00
300	100	per channel		400
	100	TURNTABLES, ARMS, CARTRIDGES		200
	80 40	AR LEGEND rosewood with linn basik lvx APHELION PLINTHS FOR GARRARDS AND THORENS		200 200
	125	COUNTERPOINT VALVE MC to MM head amp boxed		500
er		DYNAVECTOR XXIL excellent light use	1000	400
	120	EMT 930ST with full trolley and phonostage		1700
650	250	GOLDMUND STUDIO with SOUTHER (now Clearaudio) arm	6000	
	150 400	KOETSU RO5EWOOD rebuik by Van den Hul! LINN LP12valhalla/ITTOK		700 550
	100	Linn KLYDE		350
	50	LINN EKOS seriat# 1975		700
	80	LUXMAN PD300/5ME III		400
	300 150	LYRA CLAVIS excellent light use MANTICORE MUSICIAN ARM internally silver wired		400
1000	400	MICHEL GYRO SE/m300		750
	200	MICHEL ORBE /modified rega, ortofon mc25		1850
	200	MICHEL ISO phonostage		225
phonos,	500	MICHEL ISO HR with HERA		500
	80	NAD PP1 phonostage NAIM prefix phonostage(MC)5 BOARDS wired for ARO		275
400	150	NOTTINGHAM ANALOGUE TRACER 2 & TRACER 3 mm		
ame out		cartridges now available for home dem strongly recommended t	hey oi	
ugh to fi		perform some expensive moving coils 310 and ORTOFON ROHMANN mc cartridge 1 owner boxed		475 550
nitted of	- 175 DIY 80	ORTOFON MC30 5UPREME new boxed, unwanted gift		400
		ORTOFON SPU MAESTER SILVER excellent boxed	1000	500
	o recently	PINK TRIANGLE early dc motor model, no arm		250
2500	900		3009	400
450 800	225 500	PINK TRIANGLE EXPORT/RB300 REGA PLANAR 2 nice early wooden example with rb200 arm		500 100
p 2400		REGA ARM rewired with silver plated cable throughout and		
	200	with counterweight modifications 225 or we'll do your arm for		120
	250	ROCKPORT TECHNOLOGY 6000 air bearing parallel tracking		
	700 325	arm with air pump ROKSAN XERXES 10 with xps3.5 and x /ARTEMIX MKII ARM	5000	2500
1500	600		2500	1350
	350	ROKSAN COGNOSCENTI.(PIANO BLACK XERXES)		
	120	WITH UPGRADED PSU ARTEMIZ 2 AND SHIRAZ		1700
	350 80	SONY PS 6750 turntable, carbon arm, oil filled mat, boxed THOREN5TD 124 MK2 with sme 3009 in attractive mahogany	alinet	150 425
	400	VOYD THE VOYD rosewood withincognito wired AUDIONOTE arm		1300
	250	VPI HW16.5 RECORD cleaning machine new/ex dem		450/420
1500	800	VPITNT MK3 with MK5 feet(airpod) heavy platter and		
1000	500	with linn ekos		3200
1000 900	500 450	VPI TNT FLYWHEEL and bek VPI TNT acrylic cover(lid)		400 100
	500	VPITNT bright star big rock sand filled support(little rock also		
	70	available for flywheel)		150
<e <="" pre="" td=""><td></td><td></td><td>6500</td><td>3700</td></e>			6500	3700
	400 250	WELL TEMPERED RECORD PLAYER WITH ARM mint boxed I year old	2200	1400
	50	CABLES	2200	1400
1000	400	Please note orig prices are approximate, I can't be bothered to	look	them up
700	350		3000	1 500
1800 750	800	AUDIONOTE AN 5P 3m bananas) 5	00
	350 350 each	GOERTZ M1/2 veracity with kimber plugs 2 m pair in packaging ELECTROFLUIDS monolith 1m speaker cable similar to		100
	325	goertz 4 bits	400	200
	650	PURIST AUDIO COLOSSUS 1.9M water filled spades		\$00
	200 each	QED silver spiral 3.5m bananas	280	140
c	300 200	XLO big thick speaker cable type 4? 3m pair		200
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() listening

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Arcam Alpha 10	£799.00	£549.00	D
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Arcam Alpha 7R Amp.	£280.00	£229.00	N+D
Copeland CDA277	£1,649.00	£795.00	S/H
Copeland CDA289	£1,985.00	£1,295.00	D
Cyrus SL Amp	£400.00	£250.00	D
Cyrus AV Master Processor		£200.00	D
Cyrus CLS50 speakers (mint)	£499.00	£379.00	D
Krell KAV 500i Int. Amp.	£5,498.00	£3,495.00	D
Linn Kaber	£1,995.00	£695.00	D
Linn Keosa	£499.00	£369.00	D
Meridian 500 Transport (mint)	£1,350.00	£849.00	D
 Meridian M33 Active speakers	£1495.00	£995.00	N+D
Mission 701 speakers	£160.00	£119.00	N
Musical Fidelity XP100 BARGAIN!!!!!	£799.00	£549.00	Ν
Musical Fidelity XA200R	£699.00	£559.00	D
Neate Mystique	£735.00	£499.00	D
ProAc 3.8	£3,990.00	£2,990.00	D
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When first launched, the 834P was the only valve phono stage von evolution to a power amplifier. When first launched, the 834P was the only valve phono stage von evolution by with facility of the test of the start of the star	Ear 869 single ended triode integrated amplifie Improved version of the classic 850 with revised ouput transformers modified input stage with the addition of a extra signal value which has allowed an increase to 15 wait of single ended power, also the 869 can be used as a power amp. Don't be tooled by its modest power ouput this amp drives real world speakers, price £2100.99
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JUNE 2002 HI-FI WORLD

classifieds



NAIM NAC 102 pre-amp £700. Naim Nap 180 power-amp £700, Hi-Cap (new style) £350, Hi-Cap (old style) £300. Tel: Matthew 01452 610 466 (Gloucester) (Jun(I)

AUDIO NOTE P4 monoblock amps excellent condition £1600 ono. Audio Innovations 800 Mk3 excellent condition £400 ono all with original boxes and instructions. Tel: 01642 482393 (Jun(I)

COPLAND CSA28 integrated amplifier excellent condition £500 ono. Rega P2 turntable mint £150 ono Tel: Richard 0774 8457 422 (West Sussex) (Jun(I)

NORDOST BLUE Heaven 3m pair bi-wire (£500) £265. Nordost Blue Heaven interconnect (£150) 2 x pairs £175. Nordost Red Dawn balanced interconnect (£330) £180. Transparent balanced Music Link Plus (£469). 2 x pairs £500 Tel: 07984 580389 (Jun(I)

WANTED: LEAK TL Point One monoblock, Pye Mozart, quality speakers, Tannoys Red, Silver, Black, Gold, good quality transcription deck, SME arm, Thorens TD224, multichanger, anything unusual or interesting. Tel: 01726 812966 (St Austell) (Jul(I)

WANTED SME 3009 improved, or 3012 arm in good condition. Tel: 07712 767142 Mobile: 01775 761880 (Jul(I)

WANTED SANSUI S-M77 speakers part of 1980's M77 Hi-Fi system. Might consider taking part of M77 system. Must be S-M77, Tel: Mr Ian 01463 791449 (Jul(I)

NAIM HI-FI SYSTEM SALE, CD2 CD player, NAC 82 pre-amp, Hi-Cap power supply, NAP 250 power amp, SBL loudspeakers (cherry), QLN Projekt equipment rack (cherry). Complete system purchased from and installed by Grahams Hi-Fi in December 1997. Mint condition, very low usage, with all boxes and manuals. Sell complete for £6500. Tel: Mark 01708 224319 (Essex) (Jun(I)

will be considered Trade advertising. The Publisher reserves the right to judge submissions. HALF PRICE Lowther drivers. DX45 mini-marvels complete with phase equalisers. Virtually unused (10 hours) - experimental use only. £330 the pair. Tel: 07000 78 28 31 or email: info@ hornutopialoudspeakers.co.uk (|ul(l)

A.V.I. S2000 MC CD player 1995 boxed first class machine £250. Tel: 01502 518938 (Jun(I)

SONY CDP-X303es high end CD player £195. Philips CD100 1st gen CD player - Rare! £195. Optonica 7200 high end direct drive turntable £95. Yamaha TC-800GL high end ski-slope cassette deck £145. Kenwood Car DAT player - ultra rare! £145. Sony PS-X55 high end auto direct drive turntable £95. All mint, boxed. Can arrange carriage. Tel: 07870 657 173 (lun(l)

MERIDIAN 518 £550. 562V £550. MSR £50. (£1000 the lot). KEF Concerto's £100. Ferrograph LSI loudspeakers £150. Originlive modified Pink Triangle PTT00 £450. Tel: 01926 747060 Mobile: 07740 635786 (Jun(I)

TANDBERG 621X R2R, 3 speed stereo tape recorder for sale. Mint condition. Recently overhauled. Carrying case. Collect SW Surrey. £300. Tel: 01428 684 III (Jun(I)

VALVE FM tuner Leak Troughline Mono, serviced, realigned, G P Muliplex for addition outboard decoder £95. Pye Mozart ditto £65. Quad FM2 stereo internal 'OneThing' decoder £175, Better than DAB. Tel: 01202 481 386 (lun(l)

NAIM NAC 82 pre-amp & NAPSC (both April 98) boxed, manual etc. £1450. Tel: 07713 000450 inc. voicemail (Jun(I)

LINN SONDEK LP12, Ittok. Cirkus, Trampolin, Audio Technica ATOC5 M/C, £850 ono. Tone deaf wife forces sale!! Tel: 0114 286 3889 or Email: hc.photo@virgin.net (Jun(I)

QUAD 2 amps, with pre-amp. Boxed as new, never used, absolutely original, £950 ono. Tel: 01179 311 633 or 07870 633 925 (Jun(I)

UNUSED - EXPORT Audio Innovations Series 300 with Border Patrol Supply, Living Voice Auditorium, not yet run in. Hitachi cable and XLO interconnect plus amp stand. £1700 ovno. Tel: 020 7204 8434 or 07736 781 544 (West Sussex) (Jun(I)

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LINN KABERS, latest specification, (active but X-overs available) 3x Linn LK100 power amps. Kaber active cards. All in excellent condition, can demo, £1625 ono. Tel: 01745 540 210 after 6.30pm (Jun(I)

BEAUHORN VIRTUOSO £1700 ono. Croft Vitale pre £200 ono. Ear phonostage chrome fascia MM/MC £350 ono. Audionote Kit One 300B amplifier £300, All good condition. Tel: 0141 357 0000 or Email: simon.smith24@ntlworld.com (Glasgow) (Jun(I)

MUSICAL FIDELITY 3D Nu Vista CD player £2400. Musical Fidelity M3 Nu Vista amplifier £2400. Thiel CS3.6 loudspeakers (£5495) £2800. Tel: 01508 499586 (Jun(I)

LINN MIMIK CD player £350. LK100 power amplifier £290. Both boxed with manuals. Please phone Mike 07711 363661 or 0115 910 9617 (Nottingham) (lun(l))

LEXICON CPI digital audio environment processor £200. Revox B760 digital synthesizer FM tuner with programmer for rotating aerial £200. Hi-Fi stand in black £20. Tel: 01353 778560 (Ely, Cambs area) (Jun(I)

GOLDRING LENCO GL75/P and cover £40. Leak Sandwich pair 18w £25. Armstrong 524 stereo tuner 521 stereo amplifier Akai GXC 46 D stereo cassette deck and cover. All boxed instructions, offers. Tel: 01252 783174 (Jun)

THIEL 2.3 cherrywood latest model, long guarantee, hardly used RRP £3.7k, no competition at £2.7k. Possible P/X for occassional listening (toddler permitting!) Offers, eloquent balanced, open presentation. Tel: 01245 251235 (Jun(I)

WORLD FAVOURITE Teac P30 CD transport (£2500) £1500. Classic Conrad Johnson D/A-2b DAC (£1500) £900. Delightful CI12L valve pre-amp (£2000) £1200. Tel: Tony Chessington 020 8397 4978 (lun(l)

Special Internet

offer see Page 130 for details

COPLAND CSA 14 hybrid valve/transistor integrated amp inc. owners manual and spare valves. Silver, mint condition (£1200) £450 Arcam Alpha 9 integrated amp. Boxed as new (£500) £200. Rogers ABI subs, black ash inc. owners manual, excellent condition (£550) £200. Tel: 01992 719 320 (Jun(I)

VOYD POINT Five with silver wired Orion two arm goldbug cartridge £1250. Thoren 125 Technica 1100 arm with plinth £250. AR Legend £200. Nakamichi 582 serviced £200. Tel: 01522 820179 (Lincs) (Jun(I)

MUSICAL FIDELITY E600 CD player £150. Tubalog valve DAC £150. Musical Fidelity X10D line valve amp £50. PSU £50. Acoustic Energy floor standing speakers AE120 black finish £125. Croft Super Micro pre amp £125. Croft Series V power amp £150. Townsend Seismic Sinks (2) £100 and £50. van den Hul 'The Wind' speaker cable. Five feet tri wired lengths £75, van den Hul 'The Second' interconnect 2 x 1 mtr £75 each and 2x 1/2 mtr £40 each. Francinstein Crosstalk unit £25. Target two tier table £25. Wall shelf £25. Tel: Malcolm 01483 275389 (Jun(I)

AUDIOLAB 8000P 100 watt x 2 power amp £285 ono. Marantz CD63 remote control cost £300+, £75 ono. Tel: 01492 516875 after 5pm (Jun(I) A.V.I. S2000 MC CD player 1995 boxed first class machine £250. Tel: 01502 518938 (lun(l)

TEAC P30 stunning! £1850. Audio Synthesis Dax (UA) £650. Sublime! Avant Garde active subs 150w.p.ch, feel the force! £750 the pair. Mana supports, various, ask. Tel: Geoff 01922 477682 (|u|(1)

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JNISON RESEARCH SIMPLY-4 UMLEY REFERENCE 120 MONOBLOCS TRIODE SWITCHABLE	MINT/BOXED		DPA DSP 200S-D MM/MC PHONO STAGE (VERY RARE)	MINT/BOXED	
UMLEY REFERENCE 120 MONOBLOCS TRIODE SWITCHABLE	MINT/BOXED		PS AUDIO IIb MM PHONO STAGE	GWC	
AUDIONOTE MI PRE AMP (WITH PHONO STAGE) AUDIONOTE ZERO REMOTE PRE AMP EX DEM	MINT/BOXED		NAD PP-1 PHONO STAGE	MINT/BOXED	D
	MINTBOALD				
NDIO RESEARCH LS7 PRE-AMP	MINT/BOXED		LOUDSPEAKERS		
CONRAD JOHNSON PV-10 (WITH PHONO STAGE)			SNELL TYPE A MK III (LEGENDRY TOP CLASS 2 BOX REFERENCE SPEAKER)	MINT/BOXED	D
CONRAD JOHNSON PV10-AL PRE AMP	MINT/BOXED			ING FOR DETAILS	
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			ROKSAN QJANS 3X (ROSEWOOD)	MINT/BOXEL	
SOLID STATE			AUDIONOTE ANE-SP SILVER WIRED BLACK ASH		
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AUSICAL FIDELITY XA-50 MONOBLOCS	EXCLT/BOXED	£375	SNELL TYPE E MK3 VERY RARE	MINT/BOXED	
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			PROAC-2 MONITORS (ONE OWNER)	MINT	
	AS NEW/BOXED		PROAC SUPER TABLETTES	VGC	30
	AS NEW BOXED MINT/BOXED		CASTLE EDENS	MINT/BOXED	D
AIRN EZO ARIA REMOTE INTEGRATED (VERY PRETTY) AS NEW- FEW HOURS USE			INFINITY REFERENCE STANDARD KAPPA 5 EMIT RIBBON TWEETER SANTOS ROSEWOOD		
UDIOLAB 8000-C PRE AMP	MINT/BOXED		ROYD EDEN'S	VGC	
UDIOLAB 8000-C PRE AMP	MINT/BOXED		HOYD EDEN'S MORDANT SHORT MS20/ PEARL (LIGHT FINISH)	MIN	
EGA CURA PRE-AMP				care of M	1
CA VISTA FILE AME (SOF CHO)	AS NEW/BOXED		TIMEDS /TADE		
AG MACLAREN 60-I INTEGRATED FEW HOURS USE ONLY	MINT BOXED		TUNERS /TAPE	MIN	ur.
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INSIGAL FIDELITT SA PRE AMP (CHOICE ETSOLITS)	,	RING	SOUNDSTYLE AV TABLE SILVER	EX DIS/NEV	W
INX STRATOS PRE AMP & 2X 120 WATT MONOBLOCS MM/MC ETC (VERT RARE/GOOD)	MINT/BOXED		SOUNDSTYLE X105 BLACK/BLACK MARBLE GLASS/GOLD TOPS & CONES		
AAGNUM REFERENCE MP 125 PRE & 2 X MF125 MONOBLOCS(140WATTS)		£695	SOUNDSTYLE TOP TABLES BLACKMARBLE 3 OFF	EAC	сн
INCOMENTAL PRETEXT FIL & 2 A MET22 MONUBLOG3 (1401/ATTS)	480	~~~~~	SOUND ORG 2540 NEW BLACK FINISH MIDI SIZE	EXDIS	
			KUDOS S502 18 INCH SPEAKER STANDS SAND FILLED		30
	MINTROUTE	pore	SOUNDSTYLE SELECT 4 PILLAR 22 INCH SPEAKER STANDS BLACK	NEW/BOXE	
EAC VRDS 25 (BALANCED AND PHONO OUTPUTS)	MINT/BOXED		ATTACAMA R724/ATTABITE (FEW WEEKS OLD WAS £250)	MIN	
REGA JUPITER TRANSPORT IO DAC	MINT/BOXED		AUDIONOTE HEAVY STANDS FOR ANJ/E ETC	VG	
ECHNICS SL-P2000 REFERENCE PLAYER		£575		VG	
IERIDIAN 563 DAC (BALANCED & PHONO OUTPUTS)	MINT/BOXED		TARGET 16 INCH VERY HEAVY 4 PILLAR	VG	~
OTEL RDP/980 DIGITAL PROCESSER (LOADS OF INPUTS)	MINT/BOXED				
RCAM 8 CD PLAYER		£250			
RCAM DELTA 70 2 CD PLAYER /VOLUME OUT/ETC	MINT/BOXED		CARDAS HEXLINK 2 METRE PAIR (FACTORY TERMINATED)		
IYRIAD T-10 CD PLAYER		£275	AUDIOQUEST CRYTAL HYPERLITZ 6 METRE PAIR (BI-WIREABLE TERMINATED)		
MC CD8A(BALANCED&PHONO OUTPUTS)	NEW/BOXED	£145	AUDIONOTE AN-L 2 METRES (2 PAIRS)	£	£7
ROKSAN DP 1.5 TOP LOADING TRANSPORT	MINT/BOXED	£495	SONICLINK SILVER AERO BI-WIRE 3 METRE PAIR (TERMINATED)		
RCAM DELTA 170 TRANSPORT	V.G.C.		LINN LK-400 BI-WIRE 2.5 METRE PAIR (TERMINATED)		
RCAM BLACK BOX 3 DAG	V.G.C.		DPA IS 19 4.5 METRE PAIR (TERMINATED)		
AUDIOLAB 6000 DAC	MINT/BOXED				
	AS NEW/BOXED				
IDDIONOTE DAG-TEX.DIS.	MINT/BOXED			EXCL	LT
		£275	MERIDIAN MCA COMPONENT SYSTEM (CHOICE OF TWO)	EXCL 8	62
PALITTLE BIT-2 DAC	ND NEW BOXED			EXCLT/BOXE	
		£250 £175		VG	
IERIDIAN 203 DAC					
DRELLE DA-186 DAC	MINTBOXED			EXCLT CONDITIO	лс
VOODSIDE DAC	MINT/BOXED	1:195	KEF 104 REFERENCE	EXCLT/BOXE	
				RIN	
INYL			B&W P2 IONOPHANE TWEETER	HIN	. •C
OTTINGHAM ANALOGUE MENTOR REFERENCE & ARM (APPROX 100 KILO'S WEIGHT")		£3500			2
		01050	MOST EQUIPMENT STOCKED IS ONE OWNER MINT/BOXED, SIMILAR QUALITY VIN	HAVE AND MODE	JE
	MINT/BOXED				
YOYD THE VOYD(TT-3 REFERENCE BEARING & PLATTER) ROSEWOOD BRAHAM MODEL 1 TONEARM (GOLD & BLACKS 2 ARMTUBES/LEAD OUT BOX)	MINT/BOXED MINT/BOXED				

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JUNE 2002 HI-FI WORLD

ACCESSORIES SOUNDSTYLE X058 rack W/X042 symphony grey £85. Trichord pulsewires I metre £60 pr. Digi-pulsewire I metre BNC £29. Moth Leyline black I metre £45. Kimber PBJ 0.6 metre £20. Philips PCD 865 player £60. Tel: 07811 440039 ([un(I)

FOR SALE: Magnum Dynalab FM tuner, FT101A, black, superb sound, manual and boxed £395. Tel: 01903 247779 (Sussex) (Jun(I)

YAMAHA CL10 separates system, amp, tuner, cass-deck, CD player, manuals, TDL2 speakers, Atacama stands, hl-fl cabinet, Russ Andrews power cords, QED cables, all mint condition £725 ono (£1725). Tel: Dave 01903 732 357 (Little Hampton, West Sussex) (Jun(I)

BAT VK3i mint with remote £1250 ono. Copland CTA401 mint £750. Z-Systems VP sampler £1000 ono. Tel: 020 8856 1047 (Jun)

TDL STUDIO '4' transmission line speakers. Very good condition, walnut veneer finish £425 ono. Tel: 07814 027030 (Jun(I)

AUDIOLAB 8000S used only as a standby for a valve based system, rarely used. Excellent boxed condition £325. Tel: 01446 792727 (Jul(I)

VAN DEN Hul The Third loudspeaker cable 4 x mono 2m strands absolute reference new £4000 accept £1900. Tel: 01904 705787 (Jun)

SONY CDPX 559ES clock 3 digoutput £295. Trichord pulsar HDCD DAC £695. P/supply £195. NAD C160 £250. NAD C270 power £295. Tascam 134 pro-cass deck £295. Wilmslow Kevlar I speakers £245. Tel: 07811 440039 (Jun(I)

B & W 801 Matrix Two loudspeakers. Black. Xovers, professionally re-configured and built into external cases. Professionally re-wired with Kelvin silver cable. £1500 for quick sale. Can demonstrate. Tel: 01429 274867 or Email: stephen.petch@ntlworld.com (Jun(I)

PHILIPS CD100, one of the first ever CD players, professionally cleaned, all original parts including de-interleave delay correction. Offers around £500. Tel: 07814 754206 (Brighton, Sussex) (Jun(I)

SCANSPEAK 8544 with

2905/9300 tweeter double chamber bass reflex floor standers. Limed oak finish twin bass drivers £345. Marantz CD320 3 head cass deck £70. Philips FR732 prologic receiver £80. Tel: 07811 440039 (Jun(I)

AVI/ATC – AVI S2000MM 150 watt monoblock amplifiers and ATC SCM10 speakers walnut with ATC stands together £1100. Separate £600 each. Upgrading to SCM50 Tel: 01428 661393 (Jun(I)

MERIDIAN 500 transport with latest trichord clock upgrade. Trichord Pulsar DAC with makers HDCD and Oscon transistor upgrade. Includes external power upply. Must be heard! £1500 the lot! Tel: 01243 773814 (Jun(I)

SONUS FABER Concertinas custom made stands excellent condition £275. Linn Sondek basic arm Ortofon MC15 all very good condition £300. Audio Technologies phono stage £75. Tel: 01253 724668 (Jun(I)

NAKAMICHI 680ZX auto azimuth adjustment two speed, three heads, instructions, £165 cash only sale, buyer collects. Luxman T34 tuner £45. Tel: 02380 737823 (Southampton area, all are cash only) (Jun(I)

CHORD DAC 64. Used only twice as new boxed. Retail £2000 offers over £1200 please to Steven 07774 703030 or 020 8203 9099 (Jun(I)

QUANTUM 202D power amp, needs slight attention and cosmetics £70. Quantum 207 DA cosmetics only £110. Crimson 510 pre amp needs attention £55. NAD C370 nearly new mint £350. Tel: 01704 563619 (Jun(1)

NAIM IBL speakers walnut, NAP 140 old style, Ittok LVII arm with boxes, excellent sound and condition. First £500 ono secures. Reasonable separate offers considered. Sale due to upgrading. Tel: 01404 891380 (East Devon) (Jun(I)

COMPLETE CYRUS system, excellent condition, fantastic sound, buyer collects, boxes included. Cyrus DAD3 CD, FM7 tuner, III amp. Mission 752F black floorstanding speakers. Package price £1100. Tel: 020 8852 2370 after 6pm (Jun(I)

QUAD PACKAGE, FM4 tuner, 34 pre amplifier, 606 amplifier £768. Bose 901 IV speakers £250. Pioneer PD91 compact disc player £290. Excellent condition, everything purchased from new. Tel: 01554 751972 (Jun (I)

AUDIO ALCHEMY DTI Pro 32 and DDE 3.0 with Power Station Three's £450 and £400 respectively. DTI 2.0 with Power Station Four £200. Audio-Pro Bi-45 subwoofer £75. Tel: 01642 559078 (Stockton) (Jun (I)

CONRAD JOHNSON PFR remote control FET pre-amp £1200 (£2600). EFI FET phono stage £1000 (£2000) or £2000 the pair PV-8 valve preamp £700 (£2000) Tel: 020 7774 6641 or 01245 283125 (Ēssex) (July(I)

PIONEER PL100 record deck 1974. Boxed with manual excellent condition, £35. Trio KR2120 receiver, vgc, boxed, manual £30. Philips 1970's GA212 record deck vgc, boxed, manual. Tel: 07831 111062 (Hertfordshire) (Jun (I)

MERIDIAN 200 transport reclocked £375. Vimak DAC Ken Kessler rave review £750. 4.8 metre OPC/silver biwire speaker cable £175. Tel: 029 2023 5881 day / 029 2077 7156 evening or Mobile: 07770 227998 (Jul(I)

TOTEM MODEL I Signature speakers £850. Transparent Musicwave plus bi-wire speaker cable 7.5m £650. Bryston pwr amp 4NRB (ST) £1350. Bryston BP 25 pre amp (inc. phono boards) £800. Serious saving, all boxed as new. Tel: 01636 830944 or 07979 536753 (Jun(I)

MERIDIAN 200 and 203 CD and DAC Meridian 201 – 205 pre amp and monoblocks, 204 tuner £1500. Meridian 518 digital processor £450. All in excellent condition, will split. Tel: 0117 944 6014 eves (Bristol) (Jun(I)

TUBE TECHNOLOGY Prophet pre-amp, two Unisis valve power amps. Fulcrum CD player, Vibex stand £3995. Proac Response 2.5 speakers £1150. Tube Technology integrated valve amp £895. Tel: 01491 628075 (Jun(I)

QUAD ELS63 brown, Aframosa, caps serviced four years ago (Quad) stands mint. Audio Synthesis Dax 2 boxed mint £995. Tel: 01277 211685 Mobile: 07966 267404 or Email: coomb@btinternet.com (Jun(I) MARK LEVINSON 28 (pre) 29 (pwr) PLS (power)s)manuals, leads, (£7500) VVow! £2495 Tel: 01277 211685 Mobile: 07966 267404 or Email: coomb@btinternet.com (Jun(I)

KRELL KAV250, 2 years old, manuals, boxed, mint £1595. KAV 3001 amplifier, boxed, mint, £1495. Roksan Attesa DP2 wonderful top loading transport £595. Tel: 01277 211685 Mobile: 07966 267404 or Email: coomb@btinternet.com (Jun (I)

MERIDIAN 200, 606 DAC, 201 pre, 205 monoblocs, Castle Chester rosewood rewired with V.D.H. The Wind, REL Q-Bass, The First Ultimate Digital, The Second and The Storm Interconnect.

Moving forces sale, hence £2395 o v n o. (£5500). Cannot split. Meridian 263 £220 (£650) Tel: 07753 569686 (East London) (Jun(I)

NAIM 102 pre-amp complete with MC boards £700. Hicap new style £400. Tel: 01708 760571 (Jun(I)

MUSICAL FIDELITY X-200 monoblocs as new boxed £600 ono. Contact iain@iakers.fsnet.co.uk or 01224 589471 after 6pm (Jun(I)

SONUS FABER stonewood stands. Bargain at £275. Tel: 020 8672 6181 (Jun(I)

LEAK 2075 speakers £350. Radford STA15 22 preamp £600. Quad 57, late pair £500. Roksan CD DP1 DAC1 power supply £650. Woodside STA50 26 preamp MC MM £1500. Garrard 301 grease bearing SME 12" just back from SME in new plinth, British racing green, must be seen £550. Hadcock G228E still in the box, offers. Tel: 01446 418 207 (Jun(I)

THETA PRO-PRIME DAC mint boxed (£1500 new) £400. Meridian 200 transport mint boxed £250. Will part-ex Exposure power amplifier. Tel: 01509 215230 ask for Mike (Jun(I)

REL STORM Three subwoofer. 15 months old but virtually unused. Brand new condition £450. Tel: 020 8994 2030 after 6pm (Jun(I)

ELECTROCOMPANIET EC3 MC pre amp, black front, gold handles, excellent condition, balanced input and output, £1250 ovno, Tel: 01884 253518 (evenings) (Jul(I)

Upgrade your turntable

"It's value is nothing short of tremendous" LISTENER MAGAZINE



"The single most important upgrade you can ever make to any record deckconcerns the motor drivenothing can compare you for the shock of going DC, in a word Gobsmacking" COMMON GROUND MAGAZINE

"if you are thinking of upgrading your system,the Origin Live dc-motor kit should be high on your list for consideration" TNT AUDIO internet magazine April 2000.

Whatever your current turntable, the results in upgrading to the Origin Live dc motor and power supply are simply astounding. Designed as a drop in replacement for almost all turntables, the Origin Live upgrade kit provides vast improvements to all versions of Linn turntables, as well as Ariston, Rega, Systemdeck, Roksan, Rock, Oracle, Thorens, Well Tempered etc. With only a 12 Volt power supply and a full set of illustrated instructions our upgrade is both easy and safe to install. The upgrade is also offered with a full money back guarantee if you are not satisfied. The kit consists of a high grade dc motor, soldered regulator board and power supply at only £262. This provides an extremely cost effective route to truly high end audio and is significantly superior in performance to other power supply upgrades costing 4 times the price. A larger purpose made transformer is also available as an optional extra at £175.

New breakthrough design -Laminar flow interconnect

A high end sound with a sensible look and price tag

HI-FI WORLD July 2001

The Ultra's are a deeply satisfying musical product and a supreme bargain STEREO TIMES Aug 2001

"The reference interconnects are a must listen...highly recommended and another winner ... STEREO TIMES Feb 2002

The new Laminar flow range of interconnects embody an all new groundbreaking design. The "Ultra" version is guaranteed to outperform all other interconnects up to 4 times it's price and the "Reference" is a cable that reviewers use to judge other cables due to it's incredible transparency and musicality.

Don't purchase a more expensive interconnect until you have heard new laminar flow cable. With a full 3 week, cast iron money back guarantee if not satisfied, arrange an audition with your local Origin Live dealer or place an order with us directly.



Advanced interconnect: £45 per stereo pair

Laminar flow Ultra Interconnect: £85 per stereo pair

Laminar flow Reference Interconnect: £159 per stereo pair

Origin live turntables In self assembly form

"this Vinyl front end had my jaw heading towards the floor with the solidity and transparency of the music it was making"..."the standard came up with crystal clear images set in a broad sound stage"..."with all these goodies in place the Standard would give turntables at the $\pounds1200 - \pounds1400$ mark a hard time"

HI FI WORLD SUPPLEMENT

"Overall a deeply impressive deck...Brilliant value for money ...component quality is superb and the build process is a doddle" HI FI WORLD March 2002

"the best sounding deck here...sounds fantastic" (5 stars symbols) WHAT HI-FI MAGAZINE group comparison test of 8 leading turntables



Now you can own a professionally built, high performance turntable at a fraction of the normal cost. Origin Live turntable kits are supplied in 3 different specifications:

- I. The complete standard kit offered with a non-suspended pre-drilled & finished plinth at £349.
- 2. The complete ultra kit offering a truly high end suspended sub-chassis turntable with beautifully finished solid cherry-wood plinth at £538
- 3. A standard kit of parts for a plinth of your own design at £282.

All kits are supplied with well illustrated instructions and are easier to assemble than many of today's pre-built turntables.

Optional parts are also offered to allow flexibility and upgrading.

Turbocharging your Rega arm

"Nothing less than total dynamite " HI-FI WORLD



If you are the proud owner of any rega tonerarm, you are now in the enviable position to catapult it's performance into the league of super arms with modifications offered by Origin Live - the structural modification at $\pounds 75$ will enable your Rega to perform at a level exceeding that of arms costing over $\pounds 1200$. High performance rewiring with high grade litz cable is also offered at an additional $\pounds 70$ and external rewiring is $\pounds 70$ - this further increases the performance.

"I have to say the Rega modifications turn this humble arm into a real Giant killer. Gone is the rather grey, sterile sound of the cooking Rega.Instead, tonal colour is fresh, dynamics have great speed and impact, and the sound stage is huge."

HI FI WORLD SUPPLEMENT NOV 97 (structural modification to an RB250)

r WHAT HI-FI MAGAZINE gave this modification a 5 star rating.

For arm modifications we normally return your arm in 2 - 3 days

FOR FULL INFORMATION SEE WEB SITE OR CONTACT Origin live, Unit 5, 362b Spring Road, Sholing, Southampton SO19 2PB Tel: 023 80578877 / 80363249 Fax: 023 80398905 E MAIL: originlive@originlive.com WEB SITE: http://www.originlive.com

KLIPSCH HERESY speakers £550. Dynaco ST70 new valves vgc £500. Totem Arro Mk2 speakers mint £600. Various cables and interconnects all 1/2 price. Tel: 01923 224404 or Mobile: 07930 524246 (Jun(I)

LINN LP12, Valhalla, Ittok, Grado £525, Naim 32.5, 110, hicap old style £550. Linn Kans, Naim cable, wall brkts £125. Rotel RCD 865 £20. Appollo speaker stands 600mm tall £50. Tripod table 4-shelf £50. All items good condition Tel: 01702 711817 (Jun)

SUGDEN AU41 Signature remote line pre, AU41 power £550. Power recent Sugden service. Marantz CD94 transport and DAC £450. Seperate ATW Modified DAC £350. Tannoy M3 floorstanders £160. Tel: 01733 810516 (Jun(I)

MICHELL ISO phono stage with Hera P.S.U. £325. XLO Reference interconnect £175. Tel: Andrew 01623 752036 work or 0115 964 1033 home (Jun(1)

TANNOY D700 speakers, as new £1350. KEL34 valve amplifier, upgrade kit fitted, built by electronics engineer £290. Leak Stereo 20, refurbished £250. Leak Troughline 3, mono, refurbished £60. Tannoy Devon speakers £85. Tel: 01276 503653 (Jun(I)

AEI MKI speakers with stands new drivers £500. Hi-Fi World KLSI 3- way speaker kit supplements 3/4 all parts. to complete. Cost £700 sell £500. Tel: 01444 239927 day or 01444 239927 evening. Email: leagraham@ pavilion.co.uk (July(I)

LINN EKOS arm excellent condition £595. Linn Lineo mint condition £425 Tel: 0121 422 4371 after 6pm (Jun(I)

MUSICAL FIDELITY A3CR preamplifier. New January 2002. Superb. One of two in dual system now dropped, £650. Tel: 01752 773369 (Jun(I)

LINN KEILIDHS cherrywood finish £350 ono. Audiolab 8000 DAC best offer. Each in good condition, boxes, receipts etc. Wanted Linn Numerik and Klout or LK140 recent SMP5 Axis turntable Tel: 01228 514966 (Carlisle) (Jun(I)

WANTED – DEAD or alive – B&W DM70 electrostatic loudspeakers parts considered – check your attic! Tel: John 02380 732024 (Jun(I) TOWNSEND ROCK turntable – Merlin power supply – Origin Live arm £600. Rega RB250 £60. Dynaco ST70 new valves ex.con £500. Totem Arro 2 speakers mint £600. Various interconnects all 1/2 price Tel: 01923 224404 (Jun(I)

WANTED: PRECISION devices 24 inch and 21 inch bass drive units. Please tel: Brian 01952 606403 anytime (Telford) (Jun(I)

AUDIO ANALOGUE prepower £750 ono. Sonus Faber Concertinos in rare piano black immaculate £400. Atacama SE24 stands £45. Wanted: Bryston P20/P25 preamp or Conrad Johnson PV14L. Call Martin 0208 800 6124 (North London) (Jun(I)

DECCA LONDON pair, Rogers A75 Ser II, Thorens TD 124 with SME 3012, Revox G36, Hi-Fi News from 1980 cash offers please Tel: Vimal 020 8689 9187 daytime (Jun(I)

ARCAM CD72 CD player £290. Arcam A75 and P75 integrated and power amps £425 for both. All 10 months old mint boxed Tel: 01788 844771 or Mobile: 07973 869193 (Jun(I)

EXPOSURE CD player with remote control mint boxed £490. Klipsch Heresy II's ex. con. £490. Sony TC 229 SD with remote, brushed silver, display meters absolute classic like new condition £85. Tel: 01923 224404 (Jun(I)

AUDION SILVER Knight valve mono blocks, new valve excellent condition vivid clarity 300B Golden Dragon tubes, Audion Premier 1.0 pre-amplifier with phono stage, mint, gold finish, boxed, £1450. Tel: lan 07779 945881 (Jun (I)

PINK TRIANGLE PTI turntable RB300 arm lid and acrylic platter £300. Call Ed on 01252 518220 (Jun(I)

MUSICAL FIDELITY EI amplifier boxed £80. Marantz CD 72 SE '2' remote £200. Alpha 9C pre amp remote boxed. Alpha 8P power amps x 2 vgc. Sell for £600 or split. Tel: 01752 555955 (work) (Jun(I)

NAIM CD2 player all boxed £850. Teac CD player converter D700 drive unit P700 £900. Tel: 01594 810567 (Jun(I)

classifieds

SONNETEER SEDLEY phono stage. Fully adjustable, very quiet, audiophile quality at a budget price. £300 ovno. Tel: Malcolm Lee (office]) 01274 582266 (home) 0161 284 8651 (Jun(I)

LINN NEXUS speakers £120. Rotel compact disc player RCD 9658X £100. Cyrus amp £100. Custom design stand five shelves £50. All very good condition Tel: 01325 465126 (Jun(1)

DAT RECORDER. Sony DTC-750. Barely used, boxed, excellent condition. Comes with 26 free tapes to record on £250 the lot. Tel: 01283 704227 (Burton area) (Jun(I)

GRADO 325 headphones mint £120. Audionote Spa 2.6 metre biwired speakers cables terminated with banana plugs £300. Tel: 01952 406759 Mobile: 07973 941910 (Jun (I)

MARANTZ PM17 KI Signature amplifier £650. Linn Axis + Linn Basik tonearm £250. Nakamichi DR3 cassette deck £200. Mission DAD 5 DAC 5 CD player £200. All mint, boxed. Tel: 01484 307096 (Jun(I)

ROGERS COMPACT monitor speakers excellent condition £110. Cyrus One amp brand new. Boxed. £120. NAD 3140 amp excellent condition £85. 4 Troughline III, tuners need service £90 all. Tel: 01372 467264 (Surrey) (Jun(I)

NAIM CDS2/XDS £3995. Naim Nac 52/Supercap £3995. Dynavector HX1.2 £3300. Naim NAT01/PSU £1200. Shahinian Obelisks light oak £2395. All in mint condition. Call Raphael 01256 819198 or 07767 235323 (Jun(I)

SPENDOR SP1 originals black boxed little used £325. Lynx Theta tuner boxed £150. Minim ambisonic decoder + leads for Quad (4 pin din) £50. Tel: 01983 297903 (Jun(I)

LINN LK280 stereo power amp. 80w/ch into 8 ohms, 140 w/ch into 4 ohms. With owners manual, excellent condition £280. Cassette decks Sony TC-K61 Yamaha K-320 £50 each. Speakers Mordaunt-Short MS-10 £60. Tel: 01743 891143 (Jun(I)

LINN ISOBARIKS late model seriel number 7699 7700 excellent condition will demonstrate £595. Tel: 01484 841482 (Jun(I) QUAD 405 power amplifier, 44 control unit, FM3 tuner. All in mint condition, in original boxes with manuals. Rare opportunity never used. £625. Tel: 01934 418124 (Jun(I)

RUSS ANDREWS purifier block £400. 8TC speaker cable 4.5m pr £300. Torlyte speaker platforms 275mm x 200mm x 32mm £120. Linn Ekos arm £800. Linn Klout power amp £980. Linn Kairn preamp £600. Mana Ref table £220. Tel: 020 8926 6916 Mobile: 07764 851339 (Jun)

ART AUDIO Quintet monoblocs 15 watts triode coupled Class A beautiful sound excellent condition (£2000) £800 Can demonstrate. Tel: Paul 01603 410828 (|un(l)

ARCAM ALPHA 6 CD £190. Denon DCD 825 £95. Royd Minstrel floorstanding speakers, black, rewired, £95. All in excellent condition, boxed, with manuals. Tel: Mark 01543 414936 or 07958 917576 (Staffordshire) (Jun(I)

ARCAM DELTA 250 transport, Black Box 5 DAC, Audioquest Video Z digital interconnect, excellent sound. DAC upgraded to Black Box 50 specification £375 cost £1250. Tel: 01642 604544 evenings (Teeside) (Jun(I)

GAMMA ACOUSTICS Aeon MkIII 211 silver s.ended poweramp monoblocs as new. Magical sound stunning looks and build, totaly transparent, mint condition, can use from linesource direct. Cost £5500 accept £1500 ovno. Tel: 07980 676071 (Jun(I)

TANNOY M20s £75. Target HJ20/2 stands £50. Dual CS704 £100. Nakamichi cassette deck 2 £140. Wanted: Klipsch speakers Heresy II Chorus II KG5.5 or KG4.5 in black ash. Tel: 01306 887554 (Jun)

MUSICAL FIDELITY A1 amp £100. Tannoy M20 gold speakers £125. Target 5 shelf rack £60. Akai GX95 tapedeck £60. Technics SLP33 CD £50. All items vgc. Tel: 01483 480212 or Email: rclutterbuck@yahoo.com (Jun(I)

ARCAM DELTA 290 amplifier unused since full Arcam service £190. Arcam Alpha 6 CD player £170. Arcam Alpha 5 tuner £90. Hugh Bolton (London) 0207 633 4695 or Email: hugh@hmbolton.freeserve.com

(|un(l)

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SUNFIRE CORPORATION

New for 2002 Sunfire True Sub Woofer MKIV 11 inch cube. Signature True Sub Woofer 13 inch cube and Junior Sub Woofer 9 inch cube -all with two drivers, to as low as 16hz, 116 SPL and 360 cu ins of air movement, 1200 or 2700 watt patented amp technology. Classic Tube Pre-amp, Solid state power amps 2 channel (300 x 2 or 600 x 2) and 5 channel (220 x 5 or 430 x 5 - yes total of 2150 watts into 8 ohms or 4300 watts into 4 ohms) patented amp technology (no heat sinks) and Theatre Grand II processor pre-amp.

AUDUSA EUPEN CSA 2.5 MAINS CABLE - HI FI CHOICE SEPT 2001 BEST BUY AWARD



AUDUSA-Eupen CSA 2.5





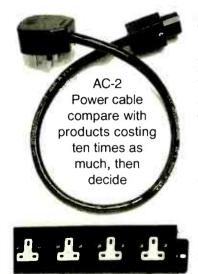
AUDUSA EUPEN GNLM 5.0 mains cable

CSA and GNLM Cable with FERRITE TECHNOLOGY - A polymer material mixed with a considerable quantity of homogeneously fine high quality ferrite powder. This compound is called EMC/COM and it can be extruded around copper conductors. The ferrite itself is a non-conducting material, but it has a very interesting magnetic behaviour. As a ferromagnetic material, it will go through hysteresis loops whenever it is under influence of an alternating magnetic field. Consecutively magnetizing and demagnetizing the material will cause considerable losses of high frequency energy. This energy is absorbed in the ferrite grains and converted into heat. This effect is more or less proportional to the field frequency. By coating conductors with a thin layer of ferrite compound, high frequencies will be strongly attenuated, because their energy will be absorbed by the ferrite powder. This applies to high frequency disturbances that are propagating on the conductor and which we don't want to disturb the environment, as well as to surrounding interferences, which we want to prevent from disturbing the signals on our cable. The CSA cable which in addition to the above described ferrite technology is further protected with a foil shield and a drain wire and specifically manufactured for High End audio use.

£48 for 1.0m £58 for 1.5m £68 for 2.0m off the reel £30 for 1st meter, £20 per m thereafter.

Fitted with IEC (Martin Kaiser) and MK Tough Plug. Figure of eight, 16 amp IEC, Bulgin etc also available as well as USA,European Schuko, and other mains plugs. Cable can be supplied fitted to our all steel 4, 6 and 8 way distribution blocks. We can rewire the distribution blocks with Eupen cable as an extra cost option. Refer to our webb site for details.

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PHILIPS CD850 MkII £100, NAD 3020i £60. Technics Cassette RS-B605 £60. Technics tuner ST-ZIL £30. JPW Sonatas £30. Tel: 0191 251 6297 or Mobile 07957 189 064 (Jun(I)



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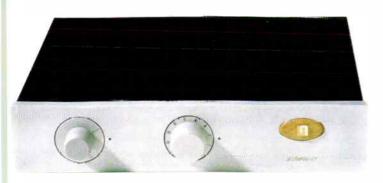
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