

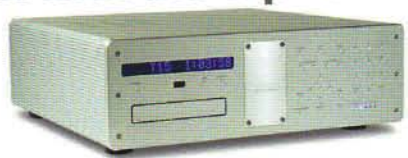


## Super-DACs tested: Six new models compared

Cyrus, Moon, NuForce, Lavry, Electrocompaniet and M2Tech go head-to-head from £1,000

## Can Krell excel with the Cipher?

World's first test: our verdict on the new flagship player



# Hi-Fi Choice

**PASSION FOR SOUND**

www.hifichoice.co.uk

Issue No. **350**

October 2011

**£3.99**

# The end for CD

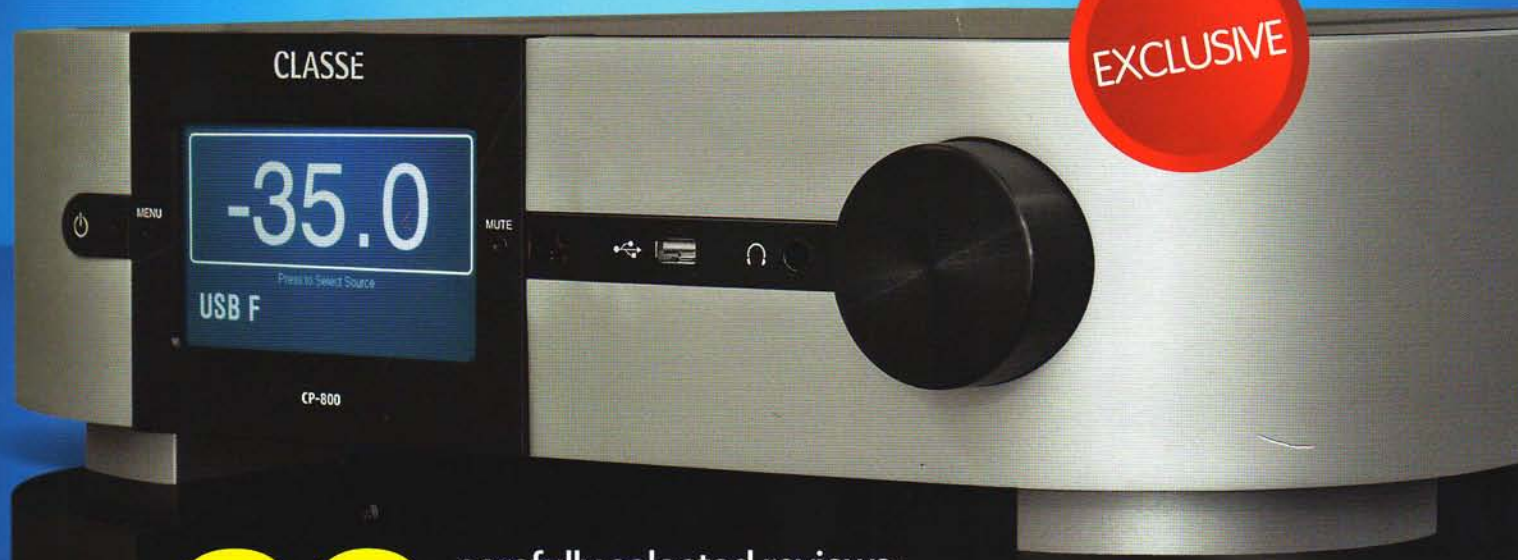
## Laptop beats CD player! Discover why Classé's ground-breaking preamp will change how we think about hi-fi

## Inside Rega

We reveal the secrets of one of Britain's best-loved brands

## 350th issue!

HFC celebrates 350 editions in our special anniversary feature



# 26

carefully selected reviews: NAD, Creek, Cambridge Audio, Quadral, Elipson and much more...

## Out of this world

Shanling's £2,000 player brings SACD sound quality from regular CD!



## COMPETITION WIN!

A Naim UnitiQute streamer worth

**£1,425!**

Future  
MEDIA WITH FUTURE

techradar.com

OCTOBER 2011

9 770955 111090

1.00

£3.99



# Silver Cipher



SACD may be a niche format, but to Krell it's still a serious business says **Jimmy Hughes** as he exclusively reveals its new flagship player

**A** new high-end SACD player from Krell is a welcome surprise. It shows there's still a

market for the medium. True, SACD software issues are somewhat limited and the format risks being superseded by high-res downloads, but many small classical and jazz labels still support SACD and issue new titles each month.

This is where the new Cipher comes in, replacing Krell's popular EV505 SACD player. It promises an improved performance – especially in terms of Red Book CD playback and while this is very welcome, it's as an

SACD player that the Cipher will stand or fall. Fortunately, Krell has spared no effort to make it as good as possible – with both formats.

## Disc accuracy

The Cipher is an advanced digital disc player offering users a choice of SACD and DVD-Audio playback in two channel and multichannel surround formats. The ability to play in surround is unusual – many purist audiophile SACD players dispense with this option, offering just two channel playback.

There's a choice of three fixed-level analogue outputs: RCA (unbalanced);

## DETAILS

**PRODUCT:** Krell Cipher

**ORIGIN:** USA

**TYPE:** CD/SACD player

**WEIGHT:** 13.2kg

**DIMENSIONS:** (WXHXD)  
440x150x440mm

### FEATURES:

- Independent power supplies for disc drive, digital and analogue sections
- Individual DACs for positive and negative signals in balanced operation
- Balanced XLR and CAST audio outputs
- Able to play DVD-R and Audio DVDs – though not DVD-A
- Surround Sound capability

**DISTRIBUTOR:** Absolute Sounds

**TELEPHONE:** 020 8971 3909

**WEBSITE:** krellonline.com

XLR (balanced) and – for those using Krell amplification with the appropriate inputs – a special four-pin CAST socket (CAST is claimed to offer a significant improvement in sound quality). An output for subwoofers is also included in the mix.

The Cipher's disc drive is mechanically isolated from the main chassis and the mount uses composite materials to minimise vibration-induced errors. Strategically placed damping is used to reduce mechanical resonance and Krell's customised disc-drive firmware is claimed to improve disc-reading accuracy.

SACD disc transports can be temperamental and some players gained a reputation for being mechanically noisy and unreliable. Fortunately, the transport used in the Cipher is very quiet and seems to play a wide range of discs without complaint. CDs that jump or suffer dropout on our other players, played perfectly on the Cipher.

Separate lasers for CD and SACD are employed and these are individually hand-calibrated for



**SACD NEVER QUITE** captured the public's imagination, so is it still worth taking seriously? Classical music has, by far, the greatest number of titles (just over 3,500), jazz titles number a little over 1,000, while rock/pop titles bring up the rear at about 700. If your taste in music is predominantly classical, SACD is well worth going for because many of the smaller independent labels are very committed to the cause.

On the rock front, many SACD releases are now out of print, and pre-owned examples often sell for inflated 'collector' prices on account of their rarity value.

Whether SACD titles will still be available to buy in (say) ten years time is harder to predict. But, stranger things have happened; look at the way vinyl has survived against all odds.

accuracy. All signals are fed into a custom-designed Krell anti-jitter module and this is said to reduce jitter to virtually unmeasurable levels, resulting in a perfectly clean digital signal.

D/A conversion is via a pair of balanced 24-bit/192kHz DACs. Most players use a single DAC for each channel, but Krell uses its DACs in pairs and configures them to operate in balanced mode. So, 'balanced' operation occurs throughout the signal chain – from digital through to analogue.

Usefully, the Cipher can play DVD-R data discs – though not, it seems, DVD-A discs. Prior to the launch of SACD, one or two small audiophile labels released audio-only DVDs with a sampling frequency of 48kHz. These provided better-than-CD sound quality and very long (over three hours) continuous playing time.

As an aside, EMI issued its 2005 three-CD set of Wagner's *Tristan und Isolde* as a special limited edition, with a bonus audio DVD containing the complete recording on a single disc lasting three hours and 47 minutes in 5.1 DTS Surround Sound. The Cipher proved able to play this disc and could even deliver the DTS information.

So, if you have any music DVDs, you'll be able to listen to them via the Cipher (most SACD players can't do this). Another slightly unusual feature is the provision of user-selectable output filters; two for CD, and four for SACD. These alter the

out-of-band frequency response and output gain – see Talking Point overleaf for more information.

**Confidence-building**

The Cipher features all-aluminium casework. Being non-magnetic, aluminium is a good material to use for hi-fi casing, reducing the effects of magnetic eddy-currents. It costs more than steel, but can be relied on to deliver a smoother, more open and natural sound. Finish is excellent, and the 'Cipher' centre panel looks very attractive.

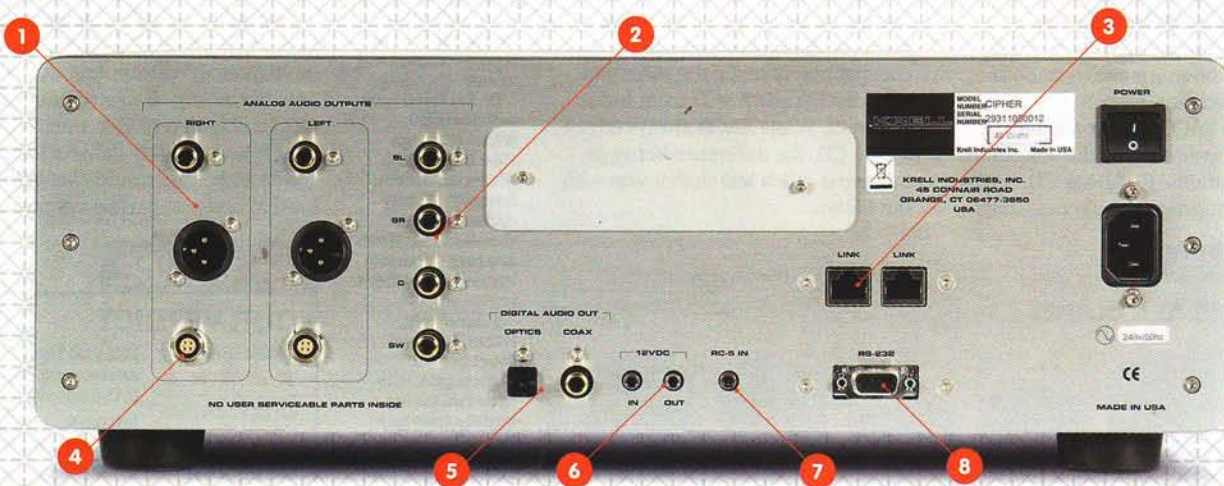
There are about thirty small press-buttons on the front panel – something that appeals to the inner geek in all of us – giving the Cipher a complex 'techy' look. Fortunately, the button layout is logical and intuitive,

**“On SACD you get a holographic, almost 3D effect with impressive width and depth.”**

so you instinctively find the right one. The buttons have a nice solid feel and operation is smooth and confidence-building.

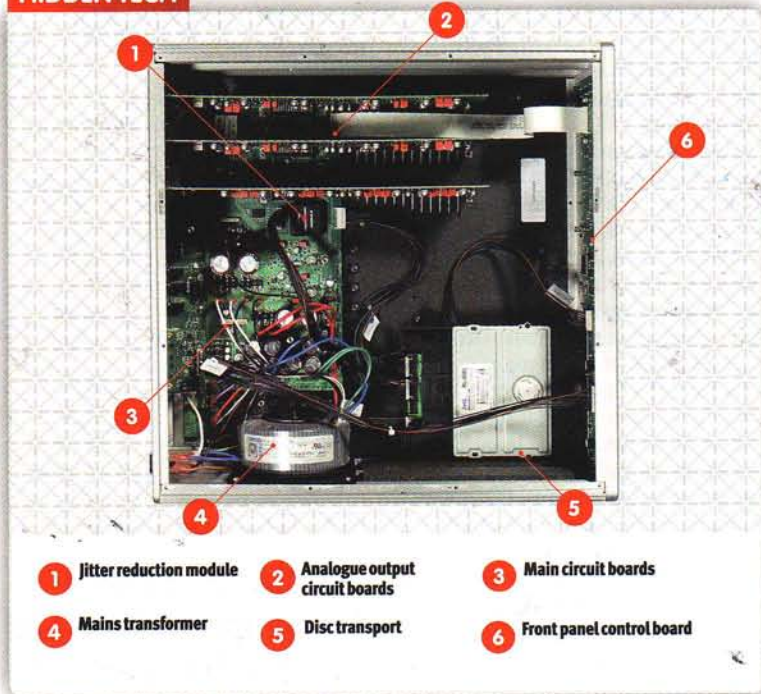
At a cool £12,255 (including VAT) the Cipher is not cheap. Although well made and beautifully finished, we'd not say it offers 'battleship' build quality. However, excessively heavy build is not always advantageous. From the standpoint of resonance and energy

**CONNECTIONS**



- 1 Analogue outputs: RCA (unbalanced) and XLR balanced
- 2 Surround outputs
- 3 Link sockets for system control
- 4 CAST analogue output sockets
- 5 Digital outputs RCA (S/PDIF), Optical (TOSLINK)
- 6 Remote links
- 7 RC-5 input
- 8 RS232 socket

HIDDEN TECH



storage, a light but solid case (as here) is often best.

Sound quality is likely to be the determining factor when it comes to deciding whether or not the Cipher justifies its hefty price tag. But give it a good SACD and it delivers a quality of sound that even the finest CD players cannot equal.

Smooth tonality

The Cipher's exceptionally lucid presentation is notable for amazing clarity and astonishing fine detail. Musically, the sound is open, lean, and crisp – not the least bit warm or romantic. At the same time, there's impressive refinement and (despite the sharpness) a smooth neutral tonality.

Playing SACDs on the Cipher forcibly demonstrates the limitations of conventional Red Book CD. SACD offers a transparent openness, plus a

wealth of fine detail that even the best CDs can't match. There's a predictable 'sameness' about CD that SACD eliminates – the latter has a far wider range of tone colours and dynamics.

If anything, the Cipher widens the sonic gap between SACD and CD. On difficult, demanding SACDs, the extra detail and information being delivered over CD is really apparent. Yet, despite this, CD via the Cipher proves very listenable – especially when judged on its own terms and not directly compared.

We had another SACD player on standby to provide a comparison point for the Cipher and this cheaper player made the sonic gap between CD and SACD seem less apparent. While SACD always edged it over CD, the difference between the two is much less than it was with the Cipher.



UNUSUALLY, THE Cipher has four user-selectable filters. CD has a choice of two settings, while SACD has four.

CD Filter One has a very steep roll-off characteristic above 20kHz, while Filter Two produces a gentler roll-off, delivering a slightly more open sound.

SACD users have a choice of four filters. Filter One has the same gain as the two CD filters and offers the widest bandwidth, having a response out to 180kHz and a gradual roll-off. Filter Two reduces the high-frequency bandwidth to 75kHz, with the steepest roll-off and an increase in gain of 3.5dB.

Filter Three limits bandwidth to 80kHz, with a slightly gentler roll-off and an increase in gain of 5.5dB, compared to Filter One. Filter Four limits bandwidth to 90kHz and has a slightly gentler roll-off than Three, with an increase in gain of 5.5dB compared to Filter One.

On CD, the two filters sound fairly close and there isn't a lot to choose between them. Filter Two sounds a shade more airy and open, while Filter One is a little more tightly-focussed and 'darker'-sounding.

On SACD you have a choice of four filters. Although Filter One has the widest bandwidth, it sounds slightly darker and more closed-in than Three and Four – probably because of the latter's increased gain.

Subjectively, Filters Three and Four offer the highest gain, with Filter Two having slightly more gain than Filter One, but less than Three and Four. Filter settings Three and Four sound slightly more 'alive' and impressive, but One and Two seem to offer greater focus and slightly better control. Got it?

Via the latter, we experienced levels of detail and clarity that no CD player could approach. The Cipher's ability to separate-out individual voices and instruments is almost uncanny, making CD sound 'closed-in', bland, and predictable by comparison. Impressive stuff!

Stereophonically, the Cipher images exceptionally well, creating a broad precisely defined soundstage notable for the solidity of individual voices and instruments. On the right SACD, you get a holographic, almost 3D effect, with impressive width and depth.

SACDs sound cleaner, too. Playing CD, the Cipher minimises that slightly 'furry' coarseness you tend to get on massed violins or heavy brass, delivering a very clean end result. But SACD sounds noticeably fresher and more alive, with crisper transients and a wider range of dynamic contrasts.

The top end is more open-sounding, without a trace of tonal hardness. In comparison, CD sounds a shade muted and not nearly as transparent. Despite these limitations, the Cipher makes a pretty good fist of playing CDs, so that – while never quite as good as SACD – you're still able to listen with pleasure and enjoy the music.

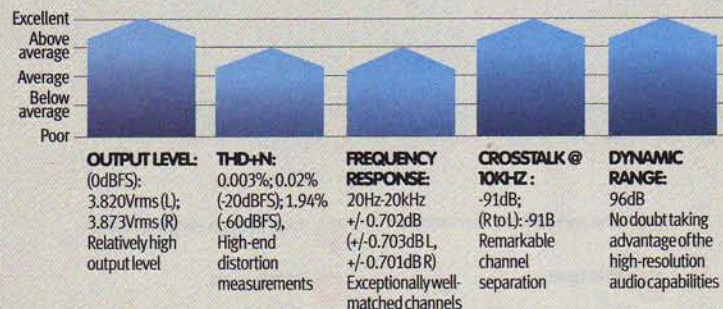
Well-heeled audiophiles

Krell's new Cipher is an exceptional digital front-end, giving state-of-the-art replay of conventional CD and SACD formats. It's via SACD that it really shows its mettle, delivering results that combine stunning clarity with amazing dynamics, plus impressive naturalness and refinement.

It would be equally at home in a purist twin channel system, or a multichannel surround set up. While only the most well-heeled audiophiles will be able to consider purchasing, the Cipher certainly delivers the goods and offers results that will be hard to better, regardless of price. ●

TECH LABS

RESULTS AT A GLANCE



Hi-Fi Choice

OUR VERDICT

**SOUND QUALITY** ★★★★★ **LIKE:** Vivid, highly detailed sound; plays DVDs (audio only)

**VALUE FOR MONEY** ★★★★★ **DISLIKE:** No digital input; 'Perfection' doesn't come cheap

**BUILD QUALITY** ★★★★★

**FEATURES** ★★★★★ **WE SAY:** An amazing, hugely versatile product – SACD has rarely sounded so good

OVERALL

