PRODUCT INFORMATION GUIDE

Cyrus CD Xt SE CD Player

Construction

Enclosure	*Cyrus* Inverted die-cast chassis
Material	Lightweight non-magnetic magnesium alloy

Electrical

Power Supply	Toroidal power transformer
Outputs	SPDIF (RCA), TOSlink optical digital
Transport	Isolated slot loading mechanism with high bandwidth optical pick-up
Disc Compatibility	CD, CD-R (closed session)
Communications	**MC-Bus**™ System Bus

Specifications

Digital output	TOSlink Optical 500mVp-p SPDIF
Clock Jitter	<70pS
Power Consumption	12W
Dimensions (H x W x D)	73 x 215 x 360 (mm), 2.8 x 8.4 x14.1 (inches)
Weight	3.1 kg
Finish	Quartz or Brushed Black

Features	Benefits
Servo Evolution CD engine	- Highest possible data read performance, improved resolution from your DAC
Cyrus developed custom servo software	- Unique 'Made-for-high-end audio' read accuracy
Precision slot-loading disc drive	- Quiet, low contact, high quality disc mechanism
Bespoke tuned main board	- Optimised as a digital source component
Dual Toroidal power transformers	- Oversized power supply capacity with excellent stage isolation
High precision anti jitter circuit	- High accuracy re-clocking minimises timing errors
Specially developed analogue output stage	- Low noise filter design provides a flat response across audio band with effective suppression of out of band digital images
High bandwidth LASER optical pick-up	- Reduced reading errors from the light path
Phase-invert facility	- For absolute phase correction
Dual programming mode	- CD Xt SE has additional programming mode to skip unwanted tracks
PSX-R upgradeability	- Enhancing performance by further isolation of power supply.
MC-Bus™ System Bus	- Integrated system control with the *Cyrus* range

Setting Up

- Run in for at least 48 Hours before serious listening.
- Use *Cyrus* Interconnects.
- Use *Cyrus PSX-R* for ultimate sound quality.

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Cyrus CD Xt SE Design Brief

The engineering brief for the Servo Evolution (SE) project was; 'to make the best CD platform possible'.

Our goal was to overcome our dependence on the mass produced OEM CD drive kits all hi-fi manufacturers have used since CD was invented. We know this to be the most limiting factor in CD player performance and so wanted to develop our own 'made for high-end audio' CD engine. This enormously complex project is beyond the financial and technical abilities of most hi-fi specialists and of limited value for large producers. However Cyrus has a uniquely qualified engineering team who have the experience and skills to develop optical drive systems. Even so, this took more than one year and has proven to be the most challenging engineering project we have ever undertaken.

Realistically, all engineering is a compromise and OEM CD kits will be designed for the biggest customers, never the specialist hi-fi industry. It is most likely that OEM kits have been engineered for in-car or low cost boom box markets. Obviously these kits will be engineered with a very wide production tolerance or for use in a variety of challenging environments and not for highest quality audio.

The new SE platform is quite different because it is specifically engineered to retreive data from an audio CD with the fewest errors. To provide the ideal data output for hi-fi Cyrus controls the whole electro mechanical servo system to provide much better quality audio than has previously been possible with conventional drives. The SE engine will form the core of all future Cyrus CD players starting with a dedicated CD transport, CD Xt, intended for partnership with high quality stand-alone DAC's such as the Cyrus DAC X or XP models. The state of the art data resolution from the SE platform enables the very finest DAC's to show just how good they really can be.

Two integrated CD players are available. The CD8 SE follows on from the design features established by the multi award-winning CD8 x. Powered by twin toroidal power transformers, an extensive array of selected reservoir capacitors and a bank of power regulators, the analogue filter stage takes the audio performance of the CD8 SE to a new level for a single box Cyrus CD player.

The CD8 SE and CD Xt SE models are PSX-R upgradeable.

- Clock stability is a key element in the signal processing chain in a player of this standard. The digital engineering of the *CD Xt SE* therefore includes a remote re-clocking circuit with close-tolerance crystal VCO located at the DAC threshold to maximise jitter rejection.

- Packed into the stylish, compact chassis of the *CD Xt SE* is a high quality toroidal power transformer. The transformer has two entirely separate secondary windings with one dedicated to feeding the digital electronics and the other supplying a completely separate feed to the current hungry motors. In true Cyrus style the PSX-R power supply may also be connected to further refine the power supply system and take over power supply to the motors.

- Cyrus products have always delivered sonic excellence hand-in-hand with state-of-the-art technical performance. The *CD Xt SE* is no exception and Cyrus are justifiably proud of the measured performance of the 'X' series transport and DAC combination. A *CD Xt SE* partnered with a DAC X or DAC XP will deliver ruler-flat linearity, vanishingly low background noise and superb jitter rejection, out-performing most two box players in their class.

- A natural upgrade path for the *CD Xt SE* owner is the acquisition of an optional *Cyrus PSX-R* external DC Power supply. This unique and intelligent component allows the *CD Xt SE* to tap into a massive reserve of highly regulated DC energy source. Providing a completely separate power feed for the high current demands of the mechanism motors, the *PSX-R* effectively removes the dynamically changing load of the motors from the internal power transformer.