



CD50 mk2



Creek's CD50 mk2 really gets the heart racing – it works faultlessly with a wide range of music, no matter how complex. The musical detail it exhibits is impressive.

The player now uses a ROM drive. Extracting the digital information from the ATAPI bus, similar to a computer, has enabled Creek to work with a virtually jitter free signal source. To convert the signal to a usable format, this player uses a digital buffer circuit (FPGA) that stores the signal for a short time and converts it into a suitable format for feeding to the Crystal Semiconductors CS4396 24 bit 192 kHz D to A converter. This creates shock immunity from the player, so that the disc is not playing exactly in real time, but slightly delayed through the dynamic buffer. It also converts the signal into a SPDIF signal to provide a high quality digital output, which is available via TOSLINK optical as well as co-axial sockets.

To enable the CD50 mk2 to be future-proofed, connection of the player to an RS232 bus system will allow remote control and serial connection of the CD50mk2 with next generation Creek equipment or proprietary room controllers. This feature will be available by plugging in the appropriate module into the motherboard and upgrading the software. Soft upgrades are made easy. The buffer and microcontroller are both programmed by separate EPROMs that contain all the code.

Two separate high current mains transformers are used in the CD50 mk2. The voltage to the digital and analogue circuitry, display and ROM drive are kept completely separate, for maximum interference immunity.

The CD50 mk2 has been designed to read all currently known 'Copy Protected Discs'.

#### SPECIFICATION

Power requirements	Supplied 220/240—50 Hz or 100/120—60Hz
Power consumption	20 W max 6 W standby
Frequency response	1 Hz - 20 kHz $\pm$ 0.25 dB
Output level	2.0 V RMS at 1kHz, 0 dB
Output impedance	50 $\Omega$ , min load 1 K $\Omega$
Laser type	Semiconductor ALGaAs
Wavelength	790 nm $\pm$ 25 nm
Light output (cw)	0.18 mW typical
THD + Noise	> -97dB
Dynamic range	> 117dB
Number of channels	2
Total harmonic distortion	< 0.0008% at 1 kHz, 0 dB
Weight	5 Kg
Dimensions CD50	430 x 62 x 250 mm