

# SCARLATTI

Master Clock



Our design philosophy in building Scarlatti was to use our 21 years of experience to deliver the best digital playback components in the business without compromise. For people who are serious about their music, the natural realism delivered by Scarlatti is like no other system on the planet.

Clocking is very important in an audio system because any timing errors that occur in the DAC will be converted directly into errors in the analogue output. Our DACs can act as the system master clock, but listening tests have shown that there is no substitute for a high-quality, dedicated master clock.

Scarlatti Master Clock is based on our professional master clocks and the highly successful Verona clock. All of our Master Clocks are subjected to rigorous in-house testing, the crystal oscillators being pre-aged and selected for long term stability.



*dCS* equipment is designed to generate and accept industry standard Word Clock on 75 ohm co-axial cable. Other manufacturers' equipment designed to accept standard Word Clock can be used with our clocks. Non-standard clock formats must be assumed to be proprietary to that manufacturer.

All of the Scarlatti products benefit from our 'soft' approach to programmable logic which allows new software to be loaded from a *dCS* update CD to add new features and adapt to changes in digital formats.



## Technical Specifications

Type	Class 1 Master Clock.
Clock Frequencies	44.1kHz or 48kHz.
Colour	Silver or Black.
Dimensions	(W) 465mm x (D) 405mm x (H) 75mm (W) 18.3" x (D) 16.0" x (H) 3.0" Allow extra depth for cable connectors.
Weight	9.8kg/21.6lbs.
Clock Accuracy	Better than +/- 1ppm when shipped (guaranteed for 12 months from shipping) Typically +/-0.1ppm when shipped and stabilised.
Word Clock Outputs	8 independently buffered outputs on 75Ω BNC connectors, all carry the same clock frequency.
Reference Inputs	External Reference Input on 1x 75Ω BNC connector. Accepts word clock (with the Coupling menu page set to TTL) or AC coupled signals (with the Coupling menu page set to Bipolar) at 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 1MHz, 5MHz & 10MHz. Lock range is +/-300ppm.
Start Up Time	Typically 1 minute to rated accuracy.
Software Updates	Loaded from CD.
Local Control	Phillips Pronto™ programmable remote control is supplied with the Transport, or RS232.
Power Supply	Factory set for 100, 115, 220 or 230 V AC, 49 – 62Hz.
Power Consumption	8 Watts typical/ 12 Watts maximum.

## Key Features

- Scarlatti Master Clock is a grade 1 master clock, featuring 8 word clock outputs.
- All dCS products use a sophisticated multi-mode phase locked loop (PLL), which significantly reduces clock jitter.
- Higher capacity FPGAs (Field Programmable Gate Arrays) give more logic capacity and increase the scope for additional features and enhancements.
- Improved power supplies give lower running temperature and increased tolerance to AC supply variations.
- 16-bit micro-controller for a generally improved control system.
- Aero grade aluminium chassis and laminated acoustic damping panels, reduce magnetic effects and vibration.
- The Scarlatti range features a low-power LCD display that makes the user interface easier to read, keeps the power requirements down and minimises electrical noise.
- Our 'soft' approach to programmable logic allows dCS products to adapt to changes in digital formats and add new features by loading new software from a CD.

## About dCS

Since 1987 dCS has been at the forefront of digital audio - creating products that are a unique synthesis of exact science and creative imagination. For people who are serious about music, dCS audiophile products offer an unrivalled ability to transform digital audio into real music that you can hear, feel and experience.

dCS products are designed and hand built in the UK to deliver a totally unique listening experience. The best materials combined with decades of experience and skilled manufacturing guarantee amazing performance.

## Contact dCS

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