

PAGANINI

Master Clock



Our design philosophy behind the Paganini range was to build a system as close as possible in performance to Scarlatti, but more accessible. The same high engineering standards and electronics are common throughout the *dCS* product ranges.

The Paganini range has a similar feature set to Scarlatti with the main differences being in the chassis, transport mechanism and the remote handset. These differences mean little is lost in the resulting musical performance and we think Paganini has a very special kind of magic.

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.

Paganini Master Clock is based on our professional studio master clocks and the highly successful Verona clock. All *dCS* Master Clocks are subjected to rigorous in-house testing, the crystal oscillators are 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 Paganini products benefit from our 'soft' approach to programmable logic, which allows new software to be loaded from a *dCS* update disc 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) 460mm x (D) 420mm x (H) 113mm (W) 18.0" x (D) 16.5" x (H) 4.4" 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	6 independently buffered outputs on 75Ω BNC connectors, all carry the same clock frequency.
Start Up Time	Typically 1 minute to rated accuracy.
Software Updates	Updates loaded by CD
Local Control	Starter IR remote control provided with Paganini Transport or RS232.
Power Supply	Factory set for 100, 115, 220 or 230 V AC, 49 – 62Hz.
Power Consumption	9Watts typical/ 15 Watts maximum.

Key Features

- Paganini Clock is a grade 1 master clock, featuring 6 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.
- High grade aluminium chassis and laminated acoustic damping panels, reduce magnetic effects and vibration.
- The Paganini 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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