

Puccini CD/SACD Player

Upsampling CD/SACD Player

dCS
ONLY THE MUSIC



Puccini is a revelation – a complete digital front end that combines the elegant aesthetics of Paganini with state of the art *dCS* upsampling, DAC, clocking and CD/SACD player technology. The result is a digital front end that offers everything a serious music lover needs.

Built to the highest specifications, Puccini features a sleek solid aluminium fascia, high grade aluminium casing, all metal buttons and a smooth transport mechanism. CD, SACD or in DAC mode, Puccini will extract every last bit of detail from your music, bringing a realism to the experience that you have never heard before.

In common with our Scarlatti and Paganini ranges, Puccini uses our proprietary DSD signal processing and *dCS* Ring DAC™. When playing a CD or accepting audio via the digital inputs, Puccini can upsample conventional PCM to DSD and offers the choice between PCM or DSD playback. A number of optimised DSP filter options elevate the performance further and allow listeners to use Puccini as a standalone DAC or the ultimate one box CD/SACD Player.

Puccini sets the performance standard for single box CD/SACD Players and DACs by optimising key *dCS* technologies in one stunning chassis. It also features a digital volume control (allowing you to connect directly to a power amplifier), as well as two digital inputs allowing other digital sources in your system to benefit from the onboard *dCS* Ring DAC™. A precision VCXO clock generator is housed in Puccini and this can also be synchronised to an external master clock to further reduce jitter and improve performance.

Puccini benefits from our ‘soft’ approach to programmable logic that allows new software to be loaded from a *dCS* update disc to add new features and adapt to changes in digital formats.

Matching the Puccini Player with a U-Clock reduces jitter to even lower levels, improves on an already spectacular sound by taking it into an entirely new domain. With a clock added to a *dCS* system images snap into sharper focus and the music displays a substantially greater sense of authority and power as well as, most importantly, offering noticeably higher resolution of detail. Puccini U-Clock also features a USB to SPDIF converter, which enables Puccini owners to present sound files from a PC to the legendary *dCS* Ring DAC™ inside the Puccini Player.

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TECHNICAL SPECIFICATIONS

Type	Upsampling CD/SACD Player.
Colour	Silver or Black.
Mechanism	Dual laser CD/SACD mechanism.
Dimensions (WxDxH)	460mm/18.0" x 400mm/16.1" x 110mm/4.0". Allow extra depth for cable connectors.
Weight	12.1kg/26.6lbs.
Converter Type	CD data may be upsampled to DSD before oversampling. Proprietary <i>dCS</i> Ring DAC™ topology. Upsampling of audio received on digital inputs to DSD is possible with activation of DSD upsampling.
Analogue Outputs	Output Levels: 2V rms or 6V rms on all outputs for a full-scale input, set in the menu. Balanced Outputs: 1 stereo pair on 2x 3-pin male XLR connectors (pin 2 = hot, pin 3 = cold). These outputs are electronically balanced and floating, the signal balance ratio at 1kHz is better than 40dB. Output impedance is 3Ω, maximum load is 600Ω (a 10kΩ load is recommended). Unbalanced Outputs: 1 stereo pair on 2x RCA Phono connectors. Output impedance is 52Ω, maximum load is 600Ω (a 10kΩ load is recommended).
Digital Inputs	2x SPDIF on 2x RCA Phono connectors. Each will accept up to 24 bit PCM at 32, 44.1, 48, 88.2, 96, 176.4 & 192kS/s or DSD in DOP format.
Word Clock I/O	Word Clock input on 1x 75Ω BNC connector. When playing a disc, accepts standard Word Clock at 44.1 or 88.2kHz. In DAC mode, accepts standard word clock at 44.1, 48, 88.2 or 96kHz. The data rate can be the same as the clock rate or an exact multiple. Sensitive to TTL levels. Word Clock output on 1x 75Ω BNC connector. When playing a disc and not locked to an external clock, a TTL-compatible 44.1kHz Word Clock derived from the internal crystal oscillator is available on this output.
Spurious Responses	Better than -100dB0 @ 20Hz – 20kHz.
Clock Accuracy	Better than +/-10 ppm when shipped (not temperature compensated).
Software Updates	Updates loaded by CD-R.
Local Control	<i>dCS</i> Premium Remote control supplied as standard or RS232.
Power Supply	Factory set for 100, 115, 220 or 230V AC, 49-62Hz.
Power Consumption	30 Watts typical/40 Watts maximum.

KEY FEATURES

- Puccini upsamples Red Book CDs to DSD and plays SACDs in their native format.
- Puccini uses the proprietary *dCS* Ring DAC™, which is a discrete balanced design that does not use any off-the-shelf DAC chips commonly found in other manufacturers' products.
- Our proprietary Ring DAC and oversampling topology produces exceptional linearity across the dynamic range.
- All *dCS* products use a sophisticated multi-mode Phase-Locked-Loop (PLL), which significantly reduces clock jitter.
- Faster, 100% accurate Digital Signal Processors (within the bounds of their resolution) give improved filters, revealing yet more fine detail.
- 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.
- 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.
- High grade aluminium chassis and laminated acoustic damping panels reduce magnetic effects and vibration.
- Puccini features a low-power LCD display that makes the user interface easier to read, keeps the power requirements down and minimises electrical noise.

ABOUT *dCS*

Since 1987 *dCS* has been at the forefront of digital audio – creating world beating, life-enhancing products that are a unique synthesis of exact science and creative imagination. Each of our award winning product ranges sets the standard within its class for technical excellence and musical performance. As a result our digital playback systems are unrivalled in their ability to make great music.

All *dCS* products are designed and manufactured in the UK using only materials and components that are of the highest quality. A carefully judged balance of our unique heritage and world class engineering ensures there is a rich history of groundbreaking innovation inside every *dCS* system.

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