

566 24-bit D to A Converter

Meridian has a strong history in stand-alone Digital/Analogue converters. The 566 is the latest in a long progression that began with the famous 203 DAC in 1988.

The 566 incorporates the best of Meridian's converter technology – including the lowest jitter and brand-new 24-bit conversion. This is without doubt the finest sounding converter to date.

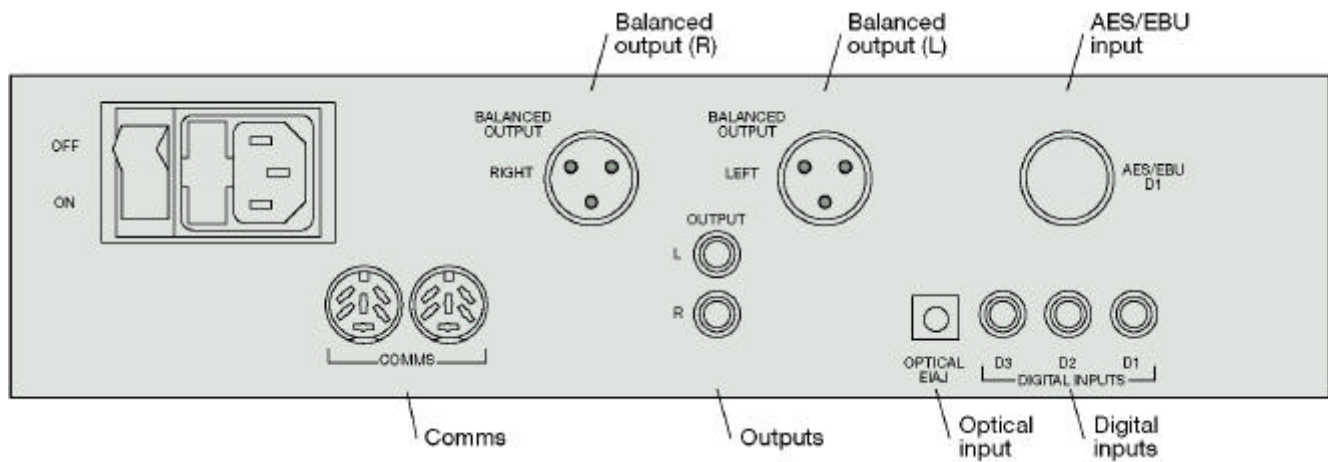


The Meridian 566 is a stand-alone two-channel Digital/Analogue converter for the 500 Series. Four inputs are provided including AES/EBU and Toslink optical. Inputs can be selected either from the front-panel switches or via the Meridian Comms network.

The selected input is stabilised via Meridian's proprietary twin phase-lock-loop (PLL) which yields the lowest jitter in the industry – around 1ps rms. This unique PLL system was pioneered in the 263, developed further in 563 and now has reached a new level of performance thanks to numerous detailed developments.

The conversion system in 566 is a new Delta-Sigma true 24-bit converter and is based on an IC developed by Crystal Semiconductor in consultation with Meridian. The combination of low-jitter clocking and this remarkable converter is a sound that sets new standards for transparency, sound stage and dynamics.

In the 566, for the first time a Meridian DAC has been given Comms capability. This feature allows the 566 to be remotely controlled in a complete Meridian setup.



Performance

24-bit dynamic range

Linearity: better than $>-96\text{dBFS}$

Jitter for 44.1kHz sampling, typically 1ps rms.

Inputs and outputs

3 phono digital inputs; 32kHz–48kHz

1 AES/EBU XLR digital input; 32kHz–48kHz (Parallel with D1)

1 Toslink optical input; 32kHz–48kHz

All digital inputs accept up to 24-bit precision

Audio outputs 4V nominal balanced (XLR) and 2V unbalanced (phono)

Construction

Twin PLL; word-aligned for lowest jitter

Absolute Phase control

Precision Class A discrete audio amplification

Analogue de-emphasis network

High quality construction including use of partitioned 4-layer PCB, and precision capacitors.

On-board control microprocessor with non-volatile memory.

Full 500 Comms for system integration with Meridian components.

Rear-panel control for: Power On/Off

Front-panel controls and indicators for: Inputs (D1, D2, D3, Optical), Phase, Emphasis

Dimensions 88mm (3.46in) H, 321 (12.64) W, 332 (13.07) D – Weight 5kg (10lbs)