

D / A Converter DAC3

LFD Audio is now offering a Digital to Analogue Converter utilising a custom made Ultra Analog 20 bit converter.

Extensive research into the design and execution of the power supplies has been carried out with the following results: 5 separate supplies using two high isolation transformers for the Digital section, and 4 separate supplies utilising a large 325 VA transformer for the Analogue section. Careful attention to earthing and the layout of both the Digital and Analogue circuitry to minimise track length is also a very important consideration.

To prevent ground loop contamination from the CD transport to the DAC, a very high bandwidth digital isolation transformer has been employed. This is then followed by an ultra fast comparator to optimally condition the data sent to the interface receiver.

A very advanced output buffer has been designed to provide the reconstruction filter characteristic and to possess a very low output impedance. This circuit is completely discrete, feedback-free and does not use DC correction. Although very tightly matched components must be used, it does have the advantage of eliminating the detrimental effects of coupling capacitors and DC servo circuit.

Please compare the DAC3 to the very best Digital to Analogue converter, and we are sure you will not be disappointed with its performance.

Technical Specification

Inputs (3)	BNC, Phono (75 ohm) AES/EBU (110 ohm)
Channel balance	<0.1dB (1Hz-20kHz)
Bandwidth	DC-20kHz (-1dB)
Crosstalk	>100dB
Output Imp	24R
Output (max)	3V rms
THD (0dB)	< -90dB
IMD (0dB)	< -90dB
Signal to Noise	110dB (typical)