

TROISI

Digital Companion 12 Channel Digital to Analog Converter



DC-1224-DAC

Designed for Professional Quality Audio applications

The Digital Companion series eight channel converters are designed for professional multi-channel audio applications requiring the highest quality conversion performance. The compact design provides twelve audio channels into a 1U rack space allowing 24 channels to be deployed in just 3.5 inches.

24 bit Quantization 96K Sample Rate AES/EBU Digital Inputs

The DC-1224-DAC supports six, transformer isolated AES/EBU digital inputs connected through a 25 pin Dsub connector. These independent inputs are received by a dual phased locked loop to provide excellent jitter attenuation for improved aural quality. Digital signals are over sampled 128 times and fed to a state of the art Sigma-Delta DEM style 24 bit digital to analog converters. Each digital input will support sample rates from 32kHz to 100kHz.

24dBu differential Output

Precision analog circuitry provides the platform to support 24 bit performance. Analog signal paths operate with a dynamic range in excess of 130dB with THD performance levels below .0005%. Analog output levels, relative to digital full scale can be adjusted between +8dBV (nominal -10dB) and +24dBu (nominal +4dB). Analog outputs are designed to operate in either balanced or un-balanced mode without level shift or the need to change internal jumpers.

The DC-1224-DAC Digital to Analog Converter makes a perfect companion for all multi-channel applications, providing the highest quality conversion with professional, easy to use interface in a compact, high density package.

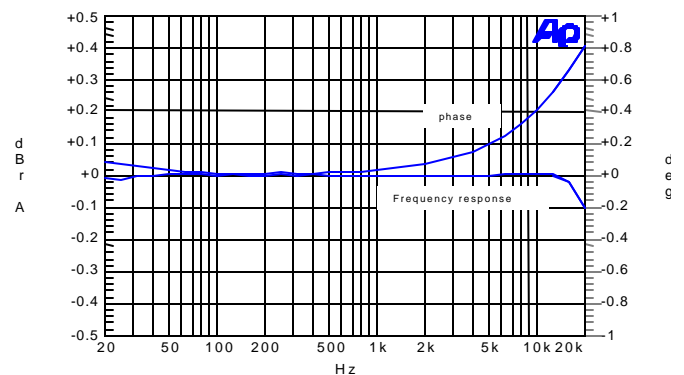
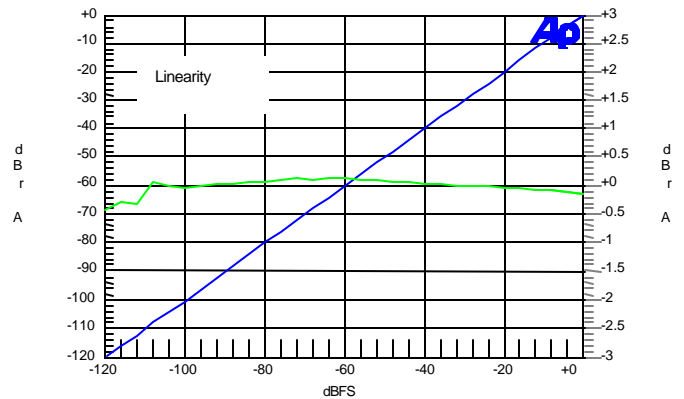
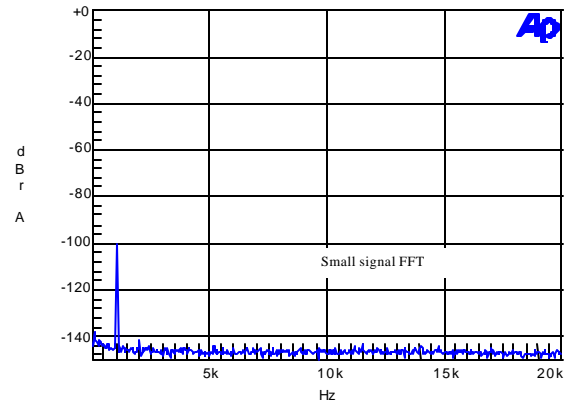
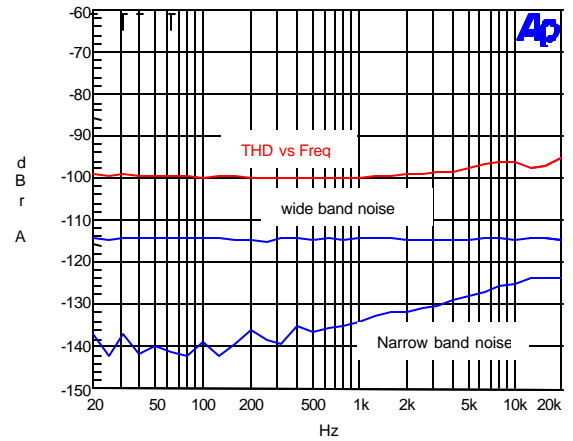
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Digital to Analog Conversion

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Specifications

Digital Inputs:	6 AES, DB25 pin, gold 110Ohm AES/EBU Transformer Isolated
Sample Rate:	Auto sensing 32kHz to 100kHz
Digital Input Display:	Input Lock indicator
Digital Filtering:	128 times over sampling .00005dB passband ripple >120dB stopband attn. 45.125/Fs filter delay
D-A Conversion:	24 bit Sigma-Delta
Dynamic Range:	>112dB RMS,
THD + Noise:	< -100dB .997kHz, 0dBFS
Cross Talk:	>-110dB (20Hz to 20kHz)
Frequency Response:	10Hz to 20kHz, +/- 0.2dB
Phase Deviation:	< 0.1 degree (10Hz-20kHz)
Small Signal Spuriae:	<-140dBFS
Analog Outputs:	Eight XLR male, gold +24dBv Maximum Output 80 Ohm floating Balanced transformerless pin 3 -, pin 2 +, pin 1 gnd
Dimensions:	1.75" (H) x 19" (W) x 9" (D) 1U Rack mount, 8lb
Power:	120VAC, 60Hz, 100Watts
Max Operating Temp:	35 degrees C



Specifications subject to change without notice
Test conducted with 0dBFS = +24dBu, 44.1kHz