

FEATURES... *Analogue to Digital & Digital to Analog Converter*

DAAD-4

- Adjustable Analog Gain ± 10 dB
- 24 bit capability
- Digital Gain control ± 20 dB
- Selectable Sample Rate up to 96K
- Short Circuit Protected
- Ultra Low Noise
- Excellent Frequency Response
- Extremely Low Distortion
- Stabilized Power Supply
- Digital signal analysis
- High signal isolation (transformers)
- LCD display
- Bar graph display analog levels
- Interactive controls



DAAD-4

DIGI-SYS DAAD-4 is a combined 24 bit AD & DA converter 1U rack-mount which produces an AES/EBU or S/PDIF digital audio output from a balanced XLR or unbalanced BNC input. It simultaneously produces a stereo balanced XLR or unbalanced BNC output from an incoming AES/EBU or S/PDIF digital input signal.

The analog inputs have left and right front panel fine analog level controls using pre-set potentiometer and additional digital control from -20dBu to +20dBu through interactive controls. The Interactive controls provide superb flexibility in selecting balanced or unbalanced signal inputs. Out puts are always available in balanced and unbalanced both formats. The output bit depth can be selected from 16 or 24 bits. The large dynamic range is optimized by microcontroller with full scale resolution.

DIGI-SYS DAAD-4 has excellent Digital to Analog converter. The Sampling Frequency range from 16 to 192 KHz. This unit has excellent signal to noise ratio and provide all coding errors in the incoming Digital signals.

DIGI-SYS DAAD-4 can also be field configured for 24 Bit Dual ADC Function.

DIGI-SYS DAAD-4 has excellent overall frequency response and very low distortion, which has been achieved by selective mixing integrated circuits and discrete devices. Extremely low noise levels achieved also allow perfect recovery from weak digital signals in the range of 100 mV. There is an individual gain control to give ± 10 db level adjustment.

Unique user interface through a graphical LCD and navigation controls provide unlimited configurations and fine level controls. The LCD display in conjunction with built in error analysis provide all critical parameter display. The unit is housed in a 19" rack mount chassis with power connections as per **IEC** recommendation.

Technical Specifications

Digital to Analogue converter

Digital input	1x AES/EBU XLR F 3 pin, 2x S/PDIF BNC
Digital input sample rate	16 KHz to 216 KHz auto detect and display
Input lock accuracy	±2% of standard sample rates.
Digital input signal resolution	16-24 bit
Digital input amplitude	200 mV min. (90 mV typical), 5 V PP max.
Digital input Impedance	110Ω balanced, 75Ω unbalanced
Analog output	2x XLR M 3 pin (balanced), 2x BNC (unbalanced)
Max output level	24dBu active balanced, 18dBu active unbalanced
Output impedance	<50Ω (min load 600Ω)
Frequency Response	±0.25dB (20Hz to 20KHz)
Signal to noise ratio	105 dB (0dBFS)
Total Harmonic Distortion	<0.005
Channel matching	±0.25dB (20Hz to 20KHz)
Dynamic range	>100dB

Analogue to Digital converter

Analog input	2x XLR F (balanced), 2x BNC (unbalanced)
Level reference +4dBu	= (-9dBFS) nominal
Input level	0dBu nom. +20dBu max.
Input impedance	>10kΩ balanced
Dynamic range	>100dB
Gain range	±10 dB analog, ±20 dB digital
Digital output	1x AES/EBU XLR M, 1x SPDIF BNC
Output Impedance	110Ω Bal transformer isolated, 75W Unbal active
Sampling Frequency	44.1KHz, 48KHz, 88.2KHz and 96KHz
Sampling Resolution	16 or 24 Bits
Frequency Response	±0.25dB (20Hz to 20KHz)
Signal to Noise Ratio	90 dB
T.H.D.	<0.005

Mechanical

Power	230 V ±10%, 50 Hz, 20VAMax 110 /230 V ±10%, 50/60Hz 20VA Max (optional)
Size - HxWxD	44.5mm x 483mm x 203mm(1.75"X19"X8") Standard 19" rack mounts.