

ALLEN & HEATH

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PRIME Technical Datasheet

Technical Specification

Inputs

ADC	96kHz, 32-bit Delta-Sigma
Mic/Line XLR Inputs	Balanced XLR, +48V phantom power
Mic/Line Preamp	Fully recallable
Input Sensitivity (dLive)	-60 to +15dBu
Input Sensitivity (SQ)	-60 to +20dBu
Analogue Gain (dLive)	+5 to +60dB, 1dB steps
Analogue Gain (SQ)	0 to +60dB, 1dB steps
Pad	-20dB Active PAD
Maximum Input Level	+38dBu (PAD in)
Input Impedance	>4k Ω (Pad out), >10k Ω (Pad in)
Mic EIN	-127.5dBu with 150 Ω source
Phantom Power indication	Per socket, internal or external phantom power sensing, triggered at 24V
Measured Prime in to AES out, 20-20kHz, minimum Gain, Pad out.	
Full Signal Dynamic Range	114.8dB
Noise at 0dB gain	-96.8dBu
Frequency Response to AES output	
At 0dB gain	10Hz - 20kHz +0/-0.3dB
At 30dB gain	10Hz - 20kHz +0/-0.3dB
At 60dB gain	10Hz - 20kHz +0/-0.25dB
THD+N (analogue in to AES out)	0.0009% @ +10dBu out 0dB gain 0.0009% @ +10dBu out 10dB gain 0.001% @ +10dBu out 20dB gain 0.0011% @ +10dBu out 30dB gain

Outputs

DAC	96kHz, 32-bit Delta-Sigma
Analogue XLR Outputs	
Output Impedance	<60 Ω
Nominal Output	+4dBu = 0dB meter reading
Maximum Output Level	+22dBu
Residual Output Noise	-94dBu (22-22kHz)
THD+N	-105dB (22-22kHz) @1kHz
Crosstalk separation	-94dBu (22-22kHz) @1kHz