

iD14

SPECIFICATIONS

audient



▷ D.I / INSTRUMENT INPUT: (Channel 1)

D.I GAIN:	0 to 66dB (incl. +10dB software boost)
MAXIMUM INPUT LEVEL:	+9 dBu (0.6% THD typical)
INPUT IMPEDANCE:	>500k Ω unbalanced
FREQUENCY RESPONSE:	± 0.1 dB 20Hz to 22kHz
THD+N @ 0dBu (1kHz):	<0.04% all musical 2nd and 3rd harmonic
SNR:	95 dB un-weighted, 98 dB A-weighted
1/4" TS JACK:	Tip (Hot) & Sleeve (Shield)

▷ ANALOGUE TO DIGITAL CONVERTER (ADC 1 & 2): (Measured sans microphone preamplifier under AES-17)

MAXIMUM INPUT LEVEL:	+12 dBu (0 dBFS digital maximum)
DIGITAL REFERENCE LEVEL:	+12 dBu = 0 dBFS
FREQUENCY RESPONSE:	± 0.1 dB 10Hz to $F_s/2$ (flat to nyquist)
CROSSTALK:	-100 dBu @ 1kHz & 10kHz
THD+N @ -1dBFS (1kHz):	<0.002% (-94 dB)
THD+N @ -6dBFS (1kHz):	<0.0015% (-96.5 dB)
DYNAMIC RANGE:	113 dB un-weighted, 116 dB A-weighted

▷ DIGITAL TO ANALOGUE CONVERTER (DAC 1 & 2): (Measured under AES-17 at line outputs 1 & 2)

MAXIMUM OUTPUT LEVEL:	+12 dBu (0 dBFS digital maximum)
DIGITAL REFERENCE LEVEL:	+12 dBu = 0 dBFS
OUTPUT IMPEDANCE:	<100 Ω
FREQUENCY RESPONSE:	± 0.1 dB 10Hz to $F_s/2$ (flat to nyquist)
CROSSTALK:	<105 dBu @ 1kHz & 10kHz
THD+N @ -1dBFS (1kHz):	<0.003% (-90.5 dB)
DYNAMIC RANGE:	114 dB un-weighted, 117 dB A-weighted
1/4" TRS JACK:	Tip (Hot), Ring (Cold) & Sleeve (Shield)

▷ POWER SUPPLY:

12VDC Centre Positive - 1.25A (required for full 48V Phantom Power)

iD14 requires a lot of power for class leading converters and class-A microphone preamplifiers. We could not beat the laws of physics so an external supply is required for 48V phantom power. Your microphones will thank you when they get enough voltage!

▷ MICROPHONE PREAMPLIFIER: (measurement includes ADC signal path)

MIC GAIN:	0 to 66 dB (incl. +10 dB software boost)
LINE GAIN:	-10 to 56 dB (-10dB hardwired line pad)
PHANTOM POWER:	48V ± 4 V @ 10mA channel (12VDC only)
MIC EIN:	<-127.0 dBu
CMRR:	>80 dB @ 1kHz
MAXIMUM INPUT LEVEL:	+12 dBu (0 dBFS digital maximum)
INPUT IMPEDANCE (Mic):	2.8k Ω balanced
INPUT IMPEDANCE (Line):	>8k Ω balanced
FREQUENCY RESPONSE:	± 0.1 dB 20Hz to 22kHz @ min. gain ± 1.0 dB 20Hz to 22kHz @ max. gain
CROSSTALK:	<-90 dBu
THD+N @ 0dBu (1kHz):	<0.0025% (-92 dBu)
SNR:	96 dB un-weighted, 99 dB A-weighted
XLR COMBI FEMALE:	Pin 2 (Hot), Pin 3 (Cold) & Pin 1 (Shield)
1/4" TRS JACK:	Tip (Hot), Ring (Cold) & Sleeve (Shield)

▷ HEADPHONE OUTPUT / DAC 3 & 4: (Measured under AES-17 at phones output)

MAXIMUM OUTPUT LEVEL:	+12 dBu (0 dBFS digital maximum)
DIGITAL REFERENCE LEVEL:	+12 dBu = 0 dBFS
OUTPUT IMPEDANCE:	<30 Ω unbalanced
VOLTAGE GAIN:	+6 dB (optimised for loudness)
FREQUENCY RESPONSE:	± 1.0 dB 10Hz to $F_s/2$ (load dependent)
CROSSTALK:	<-100 dBu @ 1kHz & 10kHz
THD+N @ -1dBFS (1kHz):	<0.002% (-94 dB)
DYNAMIC RANGE:	108 dB un-weighted, 111 dB A-weighted
MAXIMUM LEVEL into 30 Ω :	+4 dBu 0.005% THD+N Power: 101mW
MAXIMUM LEVEL into 60 Ω :	+5 dBu 0.004% THD+N Power: 64mW
MAXIMUM LEVEL into 600 Ω :	+13 dBu 0.0025% THD+N Power: 39mW
1/4" TRS JACK:	Tip (Left), Ring (Right) & Sleeve (Shield)

▷ DIGITAL INPUT:

8-CHANNEL ADAT:	44.1kHz to 48.0kHz
4-CHANNEL ADAT:	88.2kHz to 96.0kHz SMUX
STEREO S/PDIF / TOSLINK:	44.1kHz to 96.0kHz (Stereo)

▷ USB2.0 HIGH SPEED:

BUS POWER:	500mA @ 5V System Limit 425mA @ 5V Maximum (No 48V) (Phantom power only available on 12VDC)
No. of INPUT CHANNELS:	10 (2 Analogue, 8 Digital)
No. of OUTPUT CHANNELS:	4 (4 Analogue)
DSP MIXER LATENCY:	ROUND TRIP (in-to-out) 44.1kHz 1.660ms 48.0kHz 1.531ms 88.2kHz 0.844ms 96.0kHz 0.771ms

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