

Technical Specifications



Line Inputs:

LINE GAIN:	-10 to +48dB
MAXIMUM INPUT LEVEL:	+22dBu
THD+N @ 0dBu 1kHz:	0.0013%, -97dB

D.I / Instrument Input:

D.I GAIN:	0 to +68dB (with 10dB Gain Boost)
MAXIMUM INPUT LEVEL:	+15dBu
INPUT IMPEDANCE:	500k Ω unbalanced
FREQUENCY RESPONSE:	± 0.5 dB 10Hz to 40kHz
THD+N @ 0dBu (1kHz):	<0.06%
SNR:	96dB A-weighted
1/4" JACK:	TIP (Hot), RING (Cold) & SLEEVE (Shield)

Analogue to Digital Converter:

MAXIMUM INPUT LEVEL:	+18dBu (0dBFS digital maximum)
DIGITAL REFERENCE LEVEL:	+18dBu = 0dBFS
INPUT IMPEDANCE:	>10k Ω Balanced
CROSSTALK:	<-118dB @ 1kHz, <-115dB @ 10kHz
FREQUENCY RESPONSE:	± 0.5 dB 10Hz to Fs/2 (Nyquist)
THD+N @ -1dBFS (1kHz):	<0.0003% (-110dB)
DYNAMIC RANGE:	120dB A-weighted
1/4" JACK:	TIP (Hot), RING (Cold) & SLEEVE (Shield)

Digital to Analogue Converter

MAXIMUM OUTPUT LEVEL:	+18dBu (0dBFS digital maximum)
OUTPUT IMPEDANCE:	<100 Ω
CROSSTALK:	<-120dB @ 1kHz, <-115 @ 10kHz
FREQUENCY RESPONSE:	± 0.5 dB 10Hz to Fs/2 (Nyquist)
THD+N @ -1dBFS (1kHz):	<0.00026% (-111.5dB)
DYNAMIC RANGE:	124dB un-weighted, 126.5dB A-weighted
1/4" TRS JACK:	TIP (Hot), RING (Cold) & SLEEVE (Shield)

Word Clock Input/Output:

WORD CLOCK:	44.1kHz to 96kHz
WORD CLOCK INPUT TERMINATION:	75R

Microphone Preamplifier:

MIC GAIN:	0 to +68dB (with 10dB Gain Boost)
LINE GAIN:	-10 to +58dB (with 10dB Gain Boost)
PHANTOM POWER:	48v +/-4v @ 10mA/Channel
MIC EIN:	-127dBu
CMRR:	>80dB @ 1kHz
MAXIMUM INPUT LEVEL:	+18dBu
INPUT IMPEDANCE (Mic)	3k Ω balanced
INPUT IMPEDANCE (Line)	10k Ω balanced
FREQUENCY RESPONSE:	± 0.5 dB 10Hz to 65kHz
CROSSTALK:	<-115dB @ 1kHz & 10kHz
THD+N @ 0dBu (1kHz):	0.0016% (-96dB)
SNR:	99dB A-Weighted
XLR:	Pin 2 (Hot), Pin 3 (Cold) & Pin 1 (Shield)
1/4" JACK:	TIP (Hot), RING (Cold) & SLEEVE (Shield)
PAD:	-10dB
HPF:	-3dB @ 100Hz, 2nd Order (12dB/Octave)

Headphone Outputs:

MAXIMUM OUTPUT LEVEL:	+18dBu (0dBFS digital maximum)
OUTPUT IMPEDANCE:	<50 Ω unbalanced
CROSSTALK:	<-117dB @ 1kHz, -112 @ 10kHz
FREQUENCY RESPONSE:	± 0.5 dB 10Hz to Fs/2
THD+N @ -1dBFS (1kHz):	<0.00023% (-112dB)
DYNAMIC RANGE:	121dB un-weighted, 124dB A-weighted
MAX LEVEL INTO 30R:	4V Peak, 2.85V RMS, 530mW
MAX LEVEL INTO 60R:	5.82V Peak, 4.12V RMS, 565mW
MAX LEVEL INTO 600R:	8.71V Peak, 6.16V RMS, 126mW
1/4" JACK:	TIP (Hot), RING (Cold) & SLEEVE (Shield)

USB 2.0 High Speed:

NO. OF INPUT CHANNELS:	24 (8 Analogue, 16 Digital)
NO. OF OUTPUT CHANNELS:	32 (16 Analogue, 16 Digital)*
CONNECTOR:	USB Type-C
INCLUDED CABLES:	1m USB 2.0 Type-C to Type-C

*Maximum of 24 unique channels at one time. See page 36 of this manual for more information.

Digital Input:

2 x 8-CHANNEL ADAT:	44.1kHz to 48kHz
2 x 4-CHANNEL ADAT:	88.2kHz to 96kHz (SMUX)
STEREO S/PDIF:	44.1kHz to 96kHz (Stereo)

Digital Output:

2 x 8-CHANNEL ADAT:	44.1kHz to 48kHz
2 x 4-CHANNEL ADAT:	88.2kHz to 96kHz (SMUX)
STEREO S/PDIF:	44.1kHz to 96kHz (Stereo)

DSP Mixer Latency

Round Trip (in-to-out)

44.1kHz	0.344ms
48kHz	0.312ms
88.2kHz	0.188ms
96kHz	0.177ms