

# SPECIFICATIONS & PERFORMANCE



## MICROPHONE PREAMPLIFIERS: (measured to insert send)

MIC GAIN:	-10 to +60 dB (-10dB Pad)
LINE GAIN:	-20 to +40 dB (-10dB Pad)
PHANTOM POWER:	48v +/-4v @ 10mA/Channel
MIC EIN:	<-125dBu
CMRR:	>80dB @ 1kHz
MAXIMUM INPUT LEVEL:	+22dBu (+32dBu with Pad)
INPUT IMPEDANCE (Mic):	>3kΩ Balanced
INPUT IMPEDANCE (Line):	>10kΩ Balanced
FREQUENCY RESPONSE:	+/-0.5dB 10Hz to 100kHz
CROSSTALK:	<90dBu @ 1kHz & 10kHz
THD+N @ 0dBu (1kHz):	0.0015% [-96dBu]
SNR:	96dB
HPF:	-3dB @ 100Hz, 2nd Order (12dB/Octave)

XLR: Pin 2 (Hot), Pin 3 (Cold) & Pin 1 (Shield)  
1/4" JACK: TIP (Hot), RING (Cold) & SLEEVE (Shield)

## D.I (Channel 2): (measured to insert send)

D.I GAIN:	-16 to +54 dB (-10dB Pad)
MAXIMUM INPUT LEVEL:	+16dBu (typical), +22dBu
INPUT IMPEDANCE:	1MegΩ Unbalanced
FREQUENCY RESPONSE:	+/-0.5dB 10Hz to 50kHz
THD+N @ 0dBu (1kHz):	<0.03% [-70dBu]
SNR:	93dB

1/4" JACK: TIP (Hot) & SLEEVE (Shield)

## INSERT SENDS (Mic Pre Out):

MAXIMUM OUTPUT LEVEL:	+22dBu
OUTPUT IMPEDANCE:	<100Ω Balanced

1/4" JACK: TIP (Hot), RING (Cold) & SLEEVE (Shield)

## POWER SUPPLY

12VDC Centre Positive DC Adapter ->1.5Amps  
Internally conditioned to provide +48VDC, +/-15VDC & low voltage rails for digital processing core & converters.  
iD22 cannot be bus powered for quality reasons.

## ADC LINE INPUTS (Insert Returns): (measured at optical output under AES-17)

MAXIMUM INPUT LEVEL:	+18dBu
DIGITAL REFERENCE LEVEL:	0dBFS = +18dBu
INPUT IMPEDANCE:	>10kΩ Balanced
FREQUENCY RESPONSE:	+/-0.5dB 10Hz to $F_s/2$
CROSSTALK:	-100dBu @ 1kHz & 10kHz
THD+N @ -1dBFS (1kHz):	<0.002% [-94dB]
THD+N @ -6dBFS (1kHz):	<0.0015% [-97dB]
DYNAMIC RANGE:	117dB un-weighted 120dB A-weighted

1/4" JACK: TIP (Hot), RING (Cold) & SLEEVE (Shield)

## DAC OUTPUTS (1-4): (measured from optical input under AES-17)

MAXIMUM OUTPUT LEVEL:	+18dBu
DIGITAL REFERENCE LEVEL:	0dBFS = +18dBu
OUTPUT IMPEDANCE:	<100Ω Balanced
FREQUENCY RESPONSE:	+/-0.5dB 5Hz to $F_s/2$
CROSSTALK:	-110dBu @ 1kHz & 10kHz
THD+N @ -1dBFS (1kHz):	<0.0008% [-101dB]
DYNAMIC RANGE:	110dB un-weighted 114dB A-weighted

1/4" JACK: TIP (Hot), RING (Cold) & SLEEVE (Shield)

## HEADPHONE OUTPUT (5&6): (measured from optical input under AES-17)

MAXIMUM OUTPUT LEVEL:	+18dBu
DIGITAL REFERENCE LEVEL:	0dBFS = +18dBu
OUTPUT IMPEDANCE:	<100Ω Balanced
FREQUENCY RESPONSE:	+/-0.5dB 5Hz to $F_s/2$
CROSSTALK:	-110dBu @ 1kHz & 10kHz
THD+N @ -1dBFS (1kHz):	<0.0008% [-101dB]
DYNAMIC RANGE:	110dB un-weighted 114dB A-weighted

1/4" JACK: TIP (Hot), RING (Cold) & SLEEVE (Shield)

## DIGITAL i/o

ADAT 8 CHANNELS	44.1 - 48kHz
ADAT 4 CHANNELS	88.2 - 96kHz
STEREO S/PDIF	44.1 - 96kHz

## USB2.0 HIGH SPEED

No. of INPUT CHANNELS 10  
(2 Analogue, 8 Digital)

No. of OUTPUT CHANNELS 14  
(6 Analogue, 8 Digital)