

asp 800

SPECIFICATIONS



MICROPHONE PREAMPLIFIER: (measured to balanced DB25 analogue outputs)

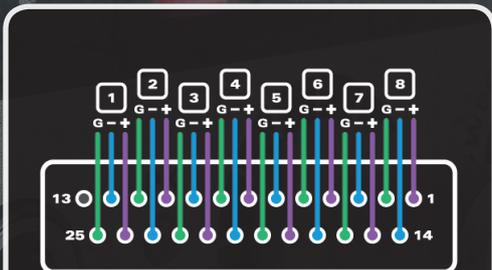
MIC GAIN:	0 to 70 dB (extra gain stage for more!)
SWITCHABLE PAD:	-15 dB (all channels front panel switchable)
LINE GAIN:	-10 to 60 dB [-25 to 45 dB inc. PAD]
PHANTOM POWER:	48V \pm 4V @ 10mA / channel
MIC EIN:	<-127.0 dBu
CMRR:	>80 dB @ 100Hz to 2kHz
MAXIMUM INPUT LEVEL:	+20 dBu (+35 dBu with PAD)
INPUT IMPEDANCE (Mic):	>2k Ω balanced (approx. 2.2k Ω)
INPUT IMPEDANCE (Line):	>8k Ω balanced (approx. 8.6k Ω)
FREQUENCY RESPONSE:	\pm 0.5 dB 10Hz to 100kHz @ min. gain
CROSSTALK:	<-90 dBu 10Hz to 10kHz
THD+N @ 0dBu (1kHz):	<0.003% [-90.5 dBu] mostly 3rd harmonic
SNR:	>90 dB @ min. gain
XLR COMBI FEMALE:	Pin 2 (Hot), Pin 3 (Cold) & Pin 1 (Shield)
1/4" TRS JACK:	Tip (Hot), Ring (Cold) & Sleeve (Shield)

DISCRETE JFET D.I.: (measured via microphone preamplifier circuitry)

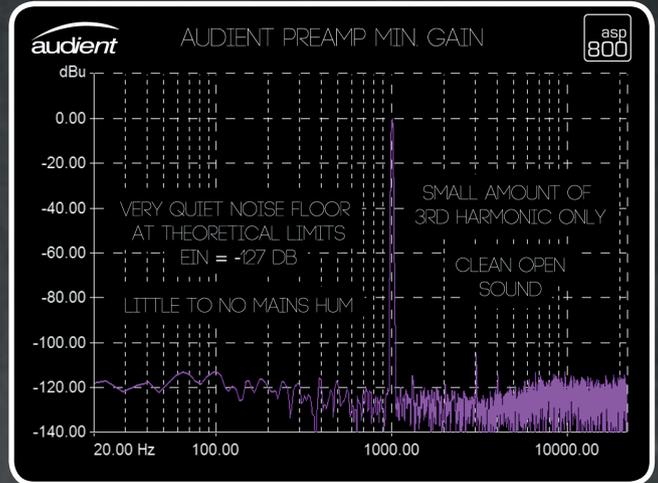
D.I. GAIN:	0 dB unity gain (0 to 70 dB)
MAXIMUM INPUT LEVEL:	+17 dBu
INPUT IMPEDANCE (D.I.):	1Meg Ω unbalanced
FREQUENCY RESPONSE:	\pm 0.5 dB 10Hz to 50kHz
THD+N @ 0dBu (1kHz):	<0.01% [-80 dBu] mostly 2nd & 3rd
SNR:	>85 dB @ min. gain
1/4" TS JACK:	Tip (Hot) & Sleeve (Shield)

BALANCED ANALOGUE LINE OUTPUTS: (ground sensing compensation scheme)

MAXIMUM OUTPUT LEVEL:	+22 dBu
OUTPUT IMPEDANCE:	<200 Ω ground sensing <100 Ω unbalanced
8-CHANNEL DB25:	25-Pin Tascam Format



ASP800 ANALOGUE OUTPUTS
TASCAM FORMAT DB25



A-D CONVERTER: (measured under AES-17 sans microphone preamplifiers)

CHIPSET:	Burr-Brown PCM4204 24-bit PCM
DIGITAL REFERENCE LEVEL:	Selectable via Rear Panel 0 dBFS = +18 dBu (iD22 Professional) 0 dBFS = +12 dBu (iD14 Prosumer)
FREQUENCY RESPONSE:	\pm 0.1 dB 20Hz to $F_s/2$ (Nyquist)
CROSSTALK:	<-110 dBFS @ 1kHz & <-90 dBFS @ 10kHz
THD+N @ -1 dBFS (1kHz):	0.0015% [-96.5 dB]
THD+N @ -6 dBFS (1kHz):	0.0009% [-101 dB]
DYNAMIC RANGE:	113.5 dB un-weighted 116.0 dB A-weighted
PEAK LED LINEUP:	-2 dBFS (moves with reference level)
SIGNAL LED LINEUP:	-38 dBFS (moves with reference level)

DIGITAL OUTPUT:	
ADAT 8 CHANNEL SMUX:	44.1 to 96.0 kHz
CLOCK:	Internal Crystal or External Source
WORDCLOCK INPUT:	75 Ω BNC - switchable 75 Ω termination

POWER SUPPLY:	
LOW NOISE SHIELDED LINEAR PSU	CUSTOM TRANSFORMERS
FANLESS, QUIET OPERATION:	35W Maximum Consumption
INTERNAL D.C POWER RAILS:	\pm 15V, +48, +30V & +9V
SWITCHABLE MAINS VOLTAGE:	100, 120, 220 or 230V.a.c
FUSE:	200mA (UK) or 315mA (US) Time Delay (T) Slow-Blow Type

WEIGHT:	4.5 kg
DIMENSIONS:	1RU 482mm x 286.5mm x 44mm

