



HEAR BACK PRO SPECIFICATIONS

PRELIMINARY DATA

Mixer Aux Input

Line Input Configuration / Impedance:	1/8" Stereo, unbalanced, 10K ohms typical
Line Input Level:	0 dBu optimal, +18 dBu max
Mic Input Configuration/Impedance:	XLR Mono, balanced, 150 ohms typical, 150 Hz high pass
Mic Input Level:	-42 dBu optimal, -30 dBu max

Mixer Headphone Power

Load Impedance:	THD less than 0.01%*	THD less than 0.1%
8 Ohms:	1.2 W*	1.5 W
	*THD AT 8 Ohms = 0.015% typical	
16 Ohms:	1.6 W	1.8 W
25 Ohms:	2.0 W	2.2 W
32 Ohms:	1.8 W	2.0 W
50 Ohms:	1.5 W	1.6 W
100 Ohms:	1.1 W	1.2 mW
200 Ohms:	500 mW	650 mW
600 Ohms:	220 mW	250 mW

IMD: Typically less than 0.03%

Mixer Line Output

Freq Response:	20 Hz to 20 kHz, +/-0.15 dB
THD+N:	0.004% typical at 1 kHz, +15 dBu
	0.008% typical, 20 Hz – 20 kHz, +4 dBu
IMD:	0.02% typical at +4 dBu, 60 Hz / 7 kHz
Crosstalk:	Less than -93 dB @ 1 kHz
Propagation Delay:	Less than 0.25 mSec @ 192 kHz sample rate

System Noise Performance

Noise, A-Weighted:	-93 dBu @ 192 kHz sample rate
Dynamic Range:	117 dB typical

System I/O

Hub Line In, 2x Analog Input Cards:	16 Balanced inputs on 2x DB-25 female (DA-88 pinout)
Hub Maximum Input Level, Analog:	+18 dBu
Hub HBus In, Out::	8-pin RJ45 jack (standard Ethernet pinout)
Hub USB Port:	USB 2.0 (for firmware updates)
Hub Card Slots (4x):	Each slot can accept an analog or digital input card, output card, or 8 port Mixer network card
Mixer to Hub Connection:	8-pin RJ45 jack (8x Mixer connections per network card)
Mixer Headphone Out:	TRS 1/4" and 1/8" unbalanced stereo
Mixer Line Out:	TRS 1/4" balanced (2 connections: left/mono and right)
Mixer Max Output Level, Analog:	+24 dBu (mixed output)
Mixer Aux Input:	TRS 1/8" unbalanced stereo and XLR balanced mono (with 15 volts phantom power)
Mixer Card Slot:	For future digital or analog input/output expansion capabilities or side-car add-on

Physical, Mixer

Size:	9.5" (241 mm) H x 5.95" (152 mm) W x 2.71" (68.8 mm) D
Unit Weight:	1.6 lb. (0.72 kg)
Mounting:	Standard mic stand (5/8" 27 threads per inch) or desk mounted

Physical, Hub

Size:	1.75" (44.5 mm) H x 19" (483 mm) W x 8.5" (216 mm) D
Unit Weight:	6.3 lb. (2.8 kg)
Mounting:	Standard rack mount, 1 RU

Power

Hub Power Requirements:	48VDC, 150 Watts (each external power supply powers up to 16 Mixers)**
Mixer Power Requirements:	Power over Ethernet (PoE) 36-52 volts DC, 15 Watts max provided by Hub through Cat5e/6 network cabling
External Power Supply Requirements:	Input Voltage: 90VAC to 264VAC 50/60 Hz

Note: 0 dBu = 0.775 Vrms. Specifications and features subject to change without notice.

**Hub is capable of powering up to 32 Mixers with an additional power supply.