



hear
TECHNOLOGIES®



hear back OCTO
®™

The next evolution of the Hear Back 8-channel personal monitoring system has arrived – introducing **Hear Back OCTO**. With improved audio quality, system performance, and overall ease of use, it revolutionizes monitor mixing on stage or in the studio. Imagine getting your mix exactly the way you want it. With the **Hear Back OCTO**, you save time and get the sound just right, the first time. This affordable system is perfect for headphones, wired and wireless in-ear monitors, and/or conventional floor monitors.

The Hear Back OCTO System: Hub & Mixers

A basic **Hear Back OCTO** system consists of a Hub and personal Mixers connected using standard CAT5e cables. A single Hub supplies signal and power to a maximum of eight Mixers. To expand your system, the Hubs can be daisy-chained using the **HearBus In/Out** for virtually unlimited system size. The Hub accepts analog input signals from an audio mixer such as auxiliaries, matrix outs, sub outs, monitor outs, and/or direct outputs. The ADAT input can come from digital audio workstations, digital recorders, or digital mixers.

For front of house or remotely located digital mixers, we also have the **Extreme Extender ADAT In/Out** that converts ADAT optical (which has very limited distance) to HearBus for transmission of up to 500 feet.

NEW FEATURES

- Improved ease of use
- Enhanced sound quality
- Inspired by Hear Back PRO system
- More compact size
- Capacitive touch link buttons
- Easier labeling with flat-top surface
- 8 mono channels with up to 4 stereo pairs
- 100% backwards compatible with the original Hear Back system
- Compatible with the Hear Back PRO system via optional PRO Hub ADAT Card
- All connectors conveniently located on one end for easy access
- Includes 1/8" and 1/4" headphone jacks

System Standouts:

- Virtually unlimited system size
- Affordable solution
- Excellent audio fidelity
- Very long digital cables possible without loss of audio quality
- Audio inputs ADAT, analog, and the HearBus are switch selectable from the front panel
- Local control of up to 10 channels of audio (eight inputs plus a stereo AUX input). Master Volume controls the level of headphones, line outs, and AUX input.
- Headphone amplifier fault indicator: In case of overheating or a short, the red LED illuminates to alert the user of a problem
- Bus Status Indicator: Confirms proper connection to the Hub
- Link Indicators: Whenever two pairs of mono inputs are linked for stereo operation, the link LED is illuminated
- Standard CAT5e power and signal connection - a cost effective, simple, unobtrusive way to connect eight channels of audio. The cable is held in place with a built-in cable strain relief.
- Balanced line-outs, mono/stereo
- Stereo AUX In
- Mixer has a built-in mic stand mount for attaching to a standard mic stand or clipping onto a stand extension bar or clip
- High power - low distortion headphone amplifiers

Hub Features:

- Three switch selectable input sources:
 - ADAT® Optical
 - Analog
 - HearBus
- 24-bit A/D converters
- 44.1KHz and 48KHz sample rates
- Multi-color, four-level metering
- Daisy-chain for expanded systems
- Internal universal input power supply
- 1 RU chassis

Mixer Features:

- Local control up to 10 channels of audio
- Master volume
- Built-in standard mic stand mount
- 24-bit D/A converters
- Bus status indicator
- Headphone amplifier fault indicator
- Mono/stereo link indicators
- Balanced line outs, mono/stereo
- Stereo AUX in:
 - Expand numbers of mixers
 - Drum module/metronome input



Designed, Engineered & Assembled
IN THE U.S.A.

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Technical Specifications

Mixer Aux Input

Line Input Configuration/Impedance: Stereo, unbalanced, 10 Kohms typical

Line Input Level: +4 dBu optimal, +22 dBu max

Mixer Headphone Power (Per Channel)

Load Impedance:	THD less than 0.01%*	THD less than 0.1%
8 Ohms:	342 mW	412 mW
16 Ohms:	731 mW	783 mW
25 Ohms:	1.07 W	1.25 W
32 Ohms:	1.37 W	1.6 W
50 Ohms:	1.26 W	1.88 W
100 Ohms:	971 mW	1.03 W
200 Ohms:	512 mW	537 mW
600 Ohms:	185 mW	190 mW
Inter Modulation Distortion:	Typically less than 0.02%	

Mixer Line Output

Frequency Response: 20 Hz to 20 KHz, +/-0.16 dB

THD+N: 0.004% typical at 1 kHz, +18 dBu
0.008% typical, 20 Hz - 20 kHz, +4 dBu

Inter Modulation Distortion: 0.02% typical at +4 dBu, 60 Hz / 7 kHz

Crosstalk: Less than -85 dB @ 1 kHz

Latency: Less than 1.5 mSec

System Noise Performance

Noise, A-Weighted: -94 dBu @ analog, -97 dBu optical

Dynamic Range: 122 dB typical

System I/O

Hub Line In, Analog: 8 Balanced inputs on DB-25 female (DA-88 pinout)

Hub Max Input Level, Analog: +18 dBu

Hub Light Pipe In: Industry standard fiber optic connector, shuttered

Hub HearBus In, Out: 2x 8-pin RJ45 jack

Mixer Headphone Out: 1x TRS 1/8" and 1x 1/4" unbalanced stereo

Mixer Line Out: 2x TRS 1/4" balanced (left/mono or stereo)

Mixer Max Output Level, Analog: +28 dBu (mixed output)

Mixer Aux Input: TRS 1/8" unbalanced stereo

Physical, Mixer

Size: 5.1" H x 9.3" W x 2.519" D
(12.95 cm H x 23.62 cm W x 6.40 cm D)

Unit Weight: 15.8 oz. (0.45 kg)

Mounting: Standard mic stand (5/8" 27 threads per inch) or desk mounted

Physical, Hub

Size: 1.75" H x 19.0" W x 5.0" D
(4.45 cm H x 48.26 cm W x 12.7 cm D)

Unit Weight: 3.9375 lb. (1.79 kg)

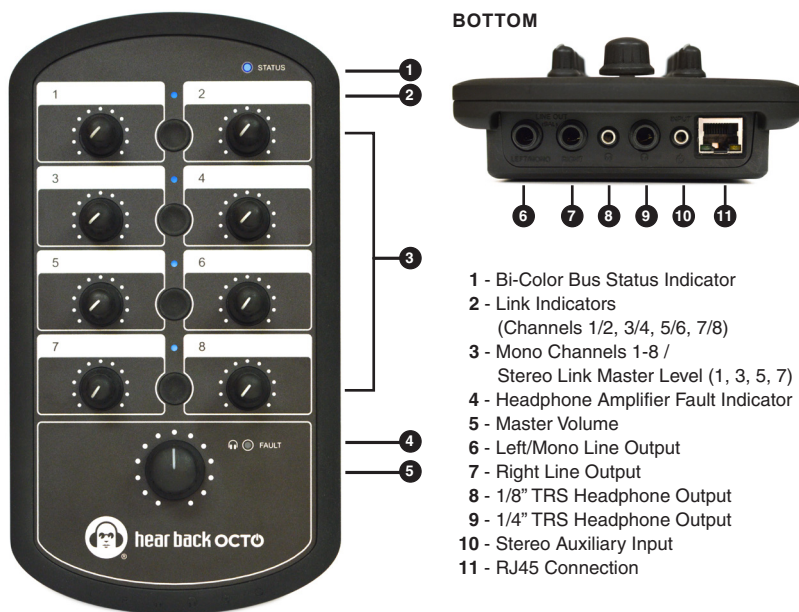
Mounting: Standard rack mount, 1 RU

Power

Hub Power Requirements: ~100-240VAC 125W 50/60Hz

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

Hear Back OCTO | Mixer



BOTTOM

- 1 - Bi-Color Bus Status Indicator
- 2 - Link Indicators (Channels 1/2, 3/4, 5/6, 7/8)
- 3 - Mono Channels 1-8 / Stereo Link Master Level (1, 3, 5, 7)
- 4 - Headphone Amplifier Fault Indicator
- 5 - Master Volume
- 6 - Left/Mono Line Output
- 7 - Right Line Output
- 8 - 1/8" TRS Headphone Output
- 9 - 1/4" TRS Headphone Output
- 10 - Stereo Auxiliary Input
- 11 - RJ45 Connection

Hear Back OCTO | Hub

FRONT PANEL



REAR PANEL



- 1 - Audio Input Channels 1-8 Level LED Metering
- 2 - HearBus Clock Status Indicator
- 3 - Input Selector Switch
- 4 - AC Power Input
- 5 - ADAT Optical Input
- 6 - HearBus Input
- 7 - HearBus Output
- 8 - Hear Back OCTO Mixer Outputs
- 9 - Analog Inputs

Example Hook-up

