

switch back M8RX

With intuitive design and robust capabilities, the Switch Back M8RX[™] is actually two products in one. This gives the musician a choice to play live, record, or monitor their mix all in one single tool.

The M8RX is a personal interface to be used for live sound or recording, and also a multi-channel headphone monitoring system. While compact in size, the M8RX gives individuals options to use it in multiple ways, such as a mini recording studio setup or a simple communication system.

The research and design of the M8RX is what sets it apart. Our engineers created the sleek look and feel making it perfect for clipping to a belt, mounting on a mic stand, or sitting on a table. The M8RX features a total of eight channels of audio mixing – two channels with studio-quality microphone preamps, two channels of line-level inputs, and four Dante network audio inputs/outputs. The M8RX's two mic preamps have a distortion spec below 0.001% along with zero-latency analog mixing and monitoring of the four analog inputs. With Ethernet capability becoming standard in most pro audio gear today, the M8RX includes a total of four channels of Dante network audio inputs.

Along with the same high quality headphone amplifier as in the Hear Back PRO and OCTO systems, the M8RX has 5 watts of headphone power and can be connected to a computer via the Ethernet port using an external power injector. The M8RX utilizes PoE+ (Power-over-Ethernet+), which allows the unit to be powered over the same unshielded CAT6 cable used to transmit data.

System Standouts:

- Two ultra-low noise studio-quality discrete microphone preamplifiers
- Locally adjustable microphone gain, in selectable increments between 30 and 54 dB
- Local volume control of up to 8 channels of audio (4 local analog inputs and 4 Dante digital inputs)
- 1/8" Stereo Input (input 3/4)
- Ultra-low distortion of 0.001% THD+N (even with 60 dB of gain on the microphone preamp!)
- PoE+ power guarantees ground isolation between M8RX interfaces
- Standard unshielded CAT6 cabling delivers power and Dante digital audio to each M8RX

- Zero latency headphone monitoring of the local analog inputs
- All 4 local analog input channels are made available on the Dante network as sources
- Small enough to be clipped on your belt (with the included belt clip) or mount on a stand using the built-in standard camera-tripod mount (1/4"-20 thread)
- Can use stand-alone (without a Dante network connection) as a small microphone preamp, analog mixer, and headphone amplifier (great as a more-me system)

Features:

- 4x4 Dante I/O (4 Dante Inputs and 4 Dante Outputs)
- Easy access to all volume controls on face of unit
- Compact, concentric volume knobs allow volume control of local inputs using the tip, and Dante inputs using the rings
- Master volume control for headphones
- True 48-volt phantom power locally selectable on each microphone input
- Burr-Brown 24-bit Delta-Sigma (ΔΣ) A/D converters
- Burr-Brown 24-bit enhanced multilevel delta-sigma (ΔΣ) D/A conversion
- Dual-color signal and peak indicators on each input channel
- Gain, phantom power, and Dante status indicators tucked away on rear of unit
- Streamlined cable connections on rear of unit
- Combo XLR & 1/4" TRS balanced inputs on channels 1 & 2 for connecting microphones or instruments
- Balanced 1/4" inputs automatically have 18dB of padding over XLR inputs
- 1/8" unbalanced stereo input for auxiliary sources such as metronome, iPod, external microphone preamp, etc.
- 100 BaseT Ethernet
- Powered by PoE+
- Locally selectable LED color on top for easy color-coding and identification



MADE IN THE U.S.A.

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Technical Specifications

Inputs A & B (available on Dante r	network as channels 1&2)
Mic Input Configuration:	Mono, Balanced XLR
Mic Input Frequency Response:	10Hz - 120kHz +/-0.5dB (analog input to headphone output)
Mic Input THD+N:	0.001% @ 150mV input
Mic Input IMD:	0.004% @ 150mV input
Vic Input X-TALK:	-86dBu @ 150mV input
Vic Input Sensitivity:	-64dBu (gain at max), -30dBu (gain at min)
ine Input Frequency Response:	10 Hz - 120kHz +/-0.5dB (analog input to headphone output)
_ine Input THD+N:	0.001% @ 1V input
_ine Input IMD:	0.004% @ 1V input
ine Input X-TALK:	-91dBu @ 1V input
ine Input Sensitivity:	-13dBu (gain at max), +20dBu (gain at min)
nput C (available on Dante netwo	rk as channels 3&4)
nput Configuration:	Stereo, Unbalanced 1/8" TRS
nput Frequency Response:	10Hz - 120kHz +/-0.5dB (analog input to headphone output)
nput THD+N:	0.005% @ 200mV input
nput IMD:	0.015% @ 200mV input
put X-TALK:	-70dBu @ 200mV input
put Sensitivity:	-10dBu (fixed gain)
eadphone Power (per channel)	
oad Impedance:	THD less than 0.01%*
Ohms:	1.2W
6 Ohms:	1.6W
5 Ohms:	2.0W
2 Ohms:	1.8W
0 Ohms:	1.5W
00 Ohms:	1.1W
J0 Ohms:	500mW
00 Ohms:	220mW
ter Modulation Distortion:	Typically less than 0.02%
ystem Noise Performance	
loise, A-Weighted:	-97 dBu
ynamic Range:	122 dB
hysical	
ize:	5.5" H x 4.45" W x 1.625" D (13.97 cm H x 11.30 cm W x 4.13 cm D)
Jnit Weight:	9.5 oz. (0.27 kg)
Nounting:	Standard camera tripod thread (1/4" 20 threads per inch), belt clip, or desk mounted
Power	
'ower Requirements:	PoE+ 36-52 VDC, 15 Watts max**
abling	
so only unshielded CAT6 cables	for network connections

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*Note: 0 dBu = 0.775 Vrms. Specifications and features subject to change without notice. **Provided by Hear Technologies PRONET or equivalent network switch with PoE+ capability.





- 16 User-changeable Multi-color LED (for identifying multiple M8RXs)
- Ethernet Connector (use unshielded cables)

Camera-Tripod Mount

