M2R-X*

TECHNICAL DATA

Digital IEM Receiver with Encryption

- IEM (Wireless Monitor) receiver with digital RF
- IR (infrared) port for fast setup
- High resolution, color LCD
- Stereo or mono operation
- Low latency of 1.6 ms with analog inputs
- 256-bit encryption - AES 256-CTR

M2R Digital IEM Receiver

For instances where your audio transmission needs to be kept secure and without sacrificing audio quality, Lectrosonics now offers encryption for the Duet system. Truly entropic encryption keys are first created by a Lectrosonics unit such as the M2T-X transmitter. The key is then synced with the M2R-X receiver via the IR port. The audio will be encrypted and can only be decoded and heard if both the transmitter and the receiver have the matching key.

The M2R Digital IEM Receiver is a compact, rugged body-worn unit providing studio-grade sound quality for performers or any professionals needing to monitor detailed audio wirelessly. The M2R employs advanced antenna diversity switching during digital packet headers for seamless audio. The receiver uses digital modulation and covers UHF frequencies from 470.100 to 614.375 MHz.

NOTE: Some regions have certain frequency restrictions. Depending on **LOCALE** selection, the SmartTune and Scan frequency ranges are:

NA: 470.100 - 614.375 MHz
EU: 470.100 - 614.375 MHz
AU: 520.000 - 614.375 MHz

***M2R-X is a firmware option for the M2R allowing encryption and removing the flexlist feature and analog IFB compatibility.**

LECTROSONICS®
Rio Rancho, NM, USA
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The headphone jack is fed from a high-quality stereo amplifier with 250 mW available to drive even inefficient headphones or earphones to sufficient levels for stage performance or other noisy environments. The receiver can select from stereo, mono from left or right channels only, or mono from both channels, giving the unit flexibility in terms of application as an IEM or IFB receiver. An intuitive interface and high resolution, color LCD on the unit provide performing artists and audio professionals alike with a comfortable and confident user experience.

The M2R also employs 2-way IR sync, so can data from the receiver can be sent to a transmitter and thus onto Wireless Designer™ Software, via USB or Ethernet. This way, frequency planning and coordination can be done quickly and confidently with on-site RF information.

Housings and panels are made of machined aluminum with ***ebENi*** finishes (black electroless nickel plating) with laser etched marking for durability, yet they are lightweight and sleek in order to be comfortable on the artist's body. The M2R features a user-friendly interface with a high-resolution, backlit, color LCD and membrane switches. The M2R runs for 7 hours on two lithium AA batteries.

Specifications

Operating Spectrum (dependent on Locale):	**NA: 470.100 - 614.375 MHz**
	EU: 470.100 - 614.375 MHz
	AU: 520.000 - 614.375 MHz
Modulation Type:	**8PSK with Forward Error Correction**
Latency: (overall system)	
Digital Source:	**1.6 ms plus Dante network**
Analog Source:	**<1.4 ms**
Audio Performance:	
Frequency Response:	**10 Hz - 12 KHz, +0, -3dB**
THD+N:	**0.15% (1kHz @ -10 dBFS)**
Dynamic Range:	**>95 dB weighted**
Adjacent Channel Isolation	**>85dB**
Diversity Type:	**Switched antenna phase, during packet headers**
Encryption:	**AES 256-CTR (per FIPS 197 and FIPS 140-2)**
Audio Output:	**3.5 mm stereo jack**
Power requirements:	**2 x AA batteries (3.0V)**
Battery life:	**7 hours; (2) Lithium AA**
Power consumption:	**1 W**
Dimensions:	**Height: 3.0 in. / 120 mm. (with knob)**
	Width: 2.375 in. / 60.325 mm.
	Depth: .625 in. / 15.875 mm.
Weight:	**9.14 ounces / 259 grams (with batteries)**

Specifications subject to change without notice.

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