



# MI-909

## Digital Wireless Stereo IEM System



**MIPRO Electronics Co., Ltd**  
Headquarters : 814 Pei-Kang Road, Chiayi, 60096, Taiwan  
Tel : +886.5.238.0809 Fax : +886.5.238.0803  
www.mipro.com.tw mipro@mipro.com.tw

All rights reserved. Do not copy or forward without prior approvals MIPRO. Specifications and design subject to change without notice. RE 014/02







# Industry's first

## Digitally Encrypted Wireless Stereo IEM System

MI-909 is a professional quality wireless IEM system designed to replace the bulky floor wedges, amplifiers, and mixing consoles used in traditional monitoring, enabling freedom of movement on stage with improved and consistent sound quality. Featuring transmission reliability superior to that of analog systems, the MI-909 has an enhanced S/N ratio and dynamic range, providing crystal-clear audio quality via DSP technology that clearly outperforms the competition.

Key components of the MI-909 IEM system include the MI-909R ultra-compact bodypack receiver and the MI-909T half-rack transmitter. Simple to use and easy to operate.



## MI-909 Digital Wireless Stereo IEM System

### MI-909R Digital Stereo Bodypack Receiver

#### Front Panel



#### Rear Panel



#### Top View



#### Battery Insertion





MI-909R Digital Stereo Bodypack Receiver

Features

- 1. Industry's most compact and smallest housing.
- 2. Featuring a lightweight, yet rugged, magnesium & glass-fiber reinforced plastic case for stage applications.
- 3. Backlit LCD screen with superior features and advanced function settings.
- 4. Dual-antenna diversity design enhances RF signal stability and extended transmission range.
- 5. Dual unbreakable soft antennas.
- 6. Selectable stereo, balanced, mono & mixed output modes.
- 7. Selectable EQ settings.
- 8. Fast and easy menu controls and indicators accessed by three buttons.

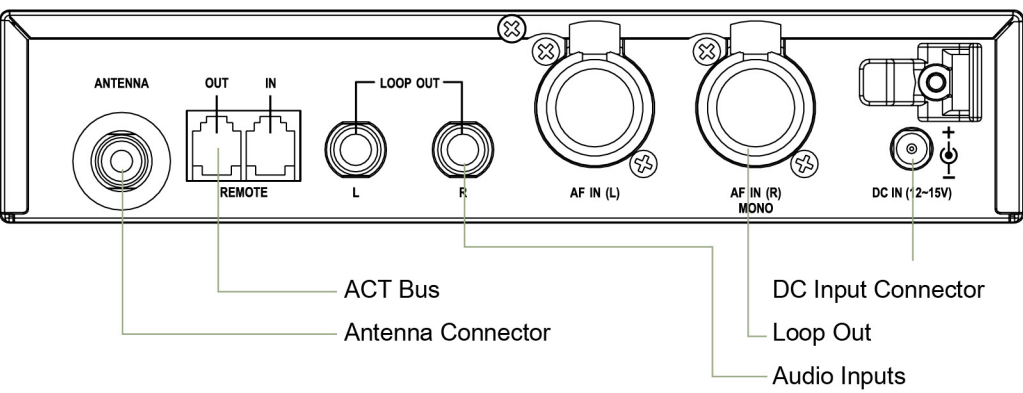
Specifications

Frequency Response	480~824 MHz
Bandwidth	64 MHz
Compatible Channels & Preset Channels	12 compatible channels in group 1-10 16 compatible channels in group 11-16 Testing channels in group 17 16 user-defined channels in group 18 216 preset channels
Oscillation Mode	PLL-Synthesized
Channel Grid	25 kHz
Frequency Stability	± 0.005% (-10 ~ +60°C )
Sensitivity	10 μ V input level, S/N > 90dB (Stereo)
Modulation Mode	Digital Modulation
Receiving Mode	Diversity Receiving
Channel Set-Up	ACT Sync
Spurious	< 4 nW
T.H.D	0.1%@1 kHz
Max. S/N ratio	95 dBA (Stereo)
Frequency Response	20 Hz ~ 15 kHz (Stereo)
Stereo Separation	> 95 dB
Volume Control	126 dB (1dB step)
LCD Display	audio & RF metering, battery status bar, group & channel, R/L balance
Output Jack	3.5 mm Ø stereo earphone jack
Output Power	2 × 120 mW@16 Ω
Earphone Impedance	≥ 16 Ω
Power	2 “AA” Alkaline batteries
Current Consumption	Approx. 170 mA
Operating Time	Approx. 8 hours with 2 AA alkaline (stand-by)
Dimensions (W × H × D)	63 × 82 × 23 mm (2.6 × 3.2 × 0.9 ")
Net Weight	Approx. 98 g (3.5 oz) excluding batteries
Transmitter	MI-909T
Operating Temperature	-10 ~ +60°C
Note	Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with the regulations of different countries.

MI-909T Digital Stereo Transmitter



Rear Panel





MI-909T Digital Stereo Transmitter

Features

- 1. EIA-standard half-rack 19" metal case, LCD screen display, rotary control knob for advanced menu settings and dual audio LED indicator lockable front panel.
- 2. Up to 16 compatible channels within the same frequency group.
- 3. Selectable encryption keys with scroll or static setting for single or multiple receivers.
- 4. Selectable Hi, Low or Off (mute) output power.
- 5. High dynamic range, stereo audio inputs and able to withstand the maximum output levels of professional audio mixers.
- 6. Built-in DSP 3 band ± 9 dB EQ settings for audio modifications.
- 7. Free Scan selects an open, interference-free transmitter frequency and ACT syncs the transmitter and receiver frequencies automatically.
- 8. Ideal for professional touring and installation applications.

Specifications

Frequency Range	470~664 MHz, 672~960 MHz
Bandwidth	64 MHz
Oscillation Mode	PLL-Synthesized
Channel Grid	25 kHz
Frequency Stability	± 0.005% (-10 ~ +60°C )
Modulation Mode	Digital Modulation
Output Power	Low <10 mW   High <100 mW switchable (country dependent)
Spurious Rejection	< 4nW
Frequency Response	20 Hz ~ 15 kHz (Stereo)
T.H.D.	< 0.1% (Frequency Modulation 1 kHz)
ADC Dynamic Range	112 dBA
Stereo Audio Input	Phone 6.3 mm Ø × 2, XLR, 6.3 mm Ø Combo Jack
Max. SPL	> +26 dBu, Selectable Line and Microphone level
Audio input adjustment	0 ~ -30 dB, 3 dB step
Headphone Monitor	6.3 mm Ø Stereo Jack with volume control
Impedance	≥ 16 Ω
Network Interface	RJ-11 × 2, proprietary MIPRO ACT-BUS
Antenna Connector	TNC (50 Ω impedance)
Power Supply	DC 12~15V
Dimensions (W × H × D)	210 × 44 × 206 mm (8.3 × 1.7 × 8.1")
Weight	Approx. 1.1 kg ( 2.4 lbs)
Note	Refer to actual product in the event of product description discrepancy. Frequency range and maximum deviation comply with the regulations of different countries.

High Performance Isolation Earphones

E-8S Standard Earphones

E-8S earphones provide outstanding sound quality and excellent isolation to suppress high ambient noise levels. They feature an 8mm dynamic driver with a 20 Hz ~ 20 kHz frequency response and can be fitted with any of the three provided earbud covers for a custom fit and comfort.



- 1. 8mm high efficient driver.
- 2. In-ear, closed-back design with S/M/L earbud covers.
- 3. 1.5 meter rugged cable.
- 4. 3.5 mmØ gold-plated stereo connector.
- 5. 106 dB SPL/mW.
- 6. 16 Ω @ 1 kHz nominal impedance.
- 7. 20 Hz ~ 20 kHz frequency response.
- 8. Noise isolation > 25 dB.
- 9. Approx. 16 grams (0.5 ounce) cable included.
- 10. Operational temperature -15° C to +60° C.

E-8P Professional Earphones

The E-8P are professional earphones for stage monitoring. They deliver full-range sound and are ergonomically built with an adjustable ear hook design for a comfortable, personalized fit and invisibility.



- 1. Ear canal design for easy earplug placement.
- 2. Subminiature balanced armature drivers.
- 3. 1.5 meter ultra durable cable and exterior in beige.
- 4. 3.5 mmØ gold-plated stereo connector.
- 5. Sensitivity >116 dB (1 kHz).
- 6. 125 dB SPL (1 kHz).
- 7. 30 Ω @ 1 kHz nominal impedance.
- 8. 35 Hz ~ 20 kHz frequency response.
- 9. Noise isolation > 23 dB.
- 10. Approx. 18 grams (0.6 ounce) cable included.
- 11. Operational temperature -15° C to +60° C.

