

# MI-909 Digital Stereo IEM System

## Introduction

MI-909 is an industry first, professional quality digital wireless stereo IEM system. Featuring digitally encrypted technology with unparalleled digital audio performance and transmission reliability, the superior frequency response characteristics of the MI-909 from 20Hz to 15 kHz clearly exceed those of analog systems. Combining DSP & digital diversity technologies, this upgraded MI-909 system has advanced features and functions that supersede its competitors.

## Key Features

### MI-909R

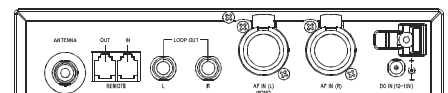
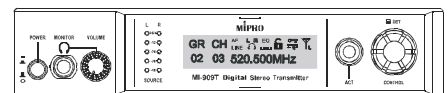
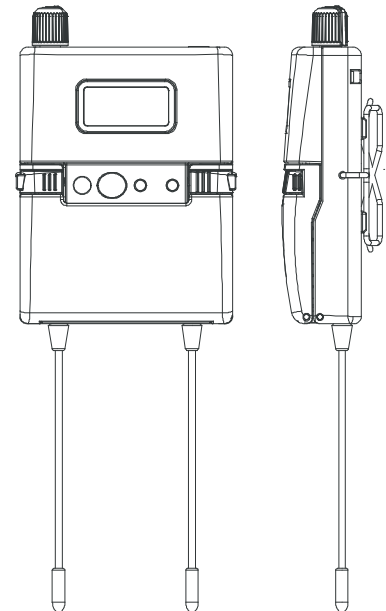
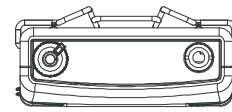
- Industry's most compact and smallest housing.
- Featuring a lightweight, yet rugged, magnesium & glass-fiber reinforced plastic case for stage applications.
- Backlit LCD screen with superior features and advanced function settings.
- Dual-antenna diversity design enhances RF signal stability and extends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

### MI-909T

- 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.
- Up to 16 compatible channels within the same frequency group.
- Selectable encryption keys with scroll or static setting for single or multiple receivers.
- Selectable HI, LOW or OFF (mute) output power.
- High dynamic range, stereo audio inputs and able to withstand the maximum output levels of professional audio mixers.
- Built-in DSP 3 band  $\pm 9$  dB EQ settings for audio modifications.
- Free Scan selects an open, interference-free transmitter frequency and ACT syncs the transmitter and receiver frequencies automatically.
- Ideal for professional multi-language interpretation system and installation applications.

## Accessories

<b>E-8P</b>	Professional Earphones
<b>E-8S</b>	Standard Earphones
<b>AD-90S</b>	UHF 4-Channel Wideband Power Splitter
<b>AD-90A</b>	UHF Wideband High Power Antenna Amplifier
<b>AT-90Wa</b>	Wideband Transmitting & Receiving Log Antenna
<b>FB-71</b>	Rack Mount Kit
<b>FB-72</b>	Rack Mount Kit



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## Technical Specifications

Overall System	
Frequency Range	470 – 639 MHz, 705 – 960 MHz (country dependent)
Bandwidth	64 MHz
Preset Frequency	12 non-interference compatible frequencies in group 1-10. 16 non-interference compatible frequencies in group 11-16. 16 user-defined frequencies can be stored in group 18. 216 preset frequencies in total.
Channel Grid	25 kHz
Channel Set-Up	ACT Sync
Frequency Response	20 Hz – 15 kHz (stereo)
Stereo Separation	> 95 dB
Max. S/N ratio	95 dBA
T.H.D	0.1% @ 1 kHz
Modulation Type	Digital modulation
Spurious Emissions	< 4 nW
Operating Temperature	-10 – +60
MI-909R	
Receiving Mode	Digital diversity receiving
Oscillation Mode	PLL Synthesized
Frequency Stability	± 0.005% (-10 – +60 )
Sensitivity	10 µV input level, S/N > 90 dB (stereo)
Volume Control	126 dB (1 dB step)
LCD Display	AF / RF meters, Battery status, Group & Channel, R/L balance
Output Jack	3.5 mm Ø stereo earphone jack
Output Power	Left / Right × 120 mW @ 16 Ω
Earphone Impedance	16 Ω
Battery Type	2 AA alkaline
Current Consumption	Approx. 170 mA
Operating Time	Approx. 8 hours
Dimensions (W × H × D)	63 × 82 × 23 mm / 2.6 × 3.2 × 0.9 "
Net Weight	Approx. 98 g / 3.5 oz
MI-909T	
Frequency Range	470 – 664 MHz, 672 – 960 MHz (country dependent)
Output Power	Low < 10 mW   High < 100 mW switchable (country dependent)
ADC Dynamic Range	112 dBA
Stereo Audio Input	6.3 mm Ø Phone Jack × 2, XLR, 6.3 mm Ø Combo Jack
Max. Input	> + 26 dBu, Selectable Line / Mic level
Audio Input Adjustment	0 – -30 dB, 3 dB step
Earphone Output	6.3 mm Ø Stereo Phone Jack with volume control
Earphone Output Impedance	16 Ω
Network Interface	RJ-11 × 2, proprietary MIPRO ACT-BUS
Antenna Connector	TNC (50 Ω impedance)
Power Supply	12 – 15 V DC
Dimensions (W × H × D)	210 × 44 × 206 mm / 8.3 × 1.7 × 8.1 "
Weight	Approx. 1.1 kg / 2.4 lbs



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