MIPRO
MICROPHONE PROFESSIONALS

MI-909

Digital Wireless Stereo IEM System

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Industry's first

Digitally Encrypted Wireless Stereo IEM System

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.

The key components of the MI-909 IEM system include the MI-909R ultra-compact bodypack receiver and MI-909T rack transmitter.

MI-909 Digital Wireless Stereo IEM System

MI-909R Digital Stereo Bodypack Receiver

Front Panel

Rear Panel

Top View

Battery Insertion

MI-909 Digital Wireless Stereo IEM System

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 extends 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 Range	480~824 MHz (country dependent)
Bandwidth	64 MHz
Channel Grid	25 kHz
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.
Receiving Mode	Digital diversity receiving
Oscillation Mode	PLL Synthesized
Frequency Stability	± 0.005% (-10~+60°C)
Channel Set-Up	ACT Sync
Modulation Type	Digital modulation
Sensitivity	10 μ V input level, S/N > 90dB (stereo)
Spurious Emissions	< 4 nW
T.H.D.	0.1% @ 1 kHz
Max. S/N ratio	95 dBA
Frequency Response	20 Hz ~ 15 kHz (stereo)
Stereo Separation	> 95 dB
Volume Control	126 dB (1dB 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 (moderate volume)
Dimensions (W × H × D)	63 × 82 × 23 mm / 2.6 × 3.2 × 0.9 "
Net Weight	Approx. 98 g / 3.5 oz
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

Features

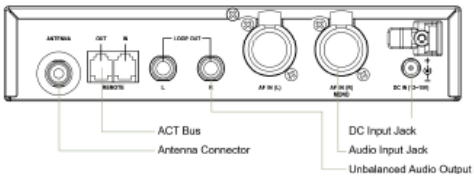
1. EIA-standard half-rack 19" metal case, LCD screen display, rotary control knob for advanced menu settings and dual audio LED indicator lockable front panel.
2. Up to 16 compatible channels within the same frequency group.
3. Selectable encryption keys with scroll or static setting for single or multiple 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 multi-language interpretation system and installation applications.

Specifications

Frequency Range	470~664 MHz, 672~960 MHz (country dependent)
Bandwidth	64 MHz
Oscillation Mode	PLL Synthesized
Channel Grid	25 kHz
Frequency Stability	± 0.005% (-10~+60°C)
Modulation Type	Digital modulation
Output Power	Low <10 mW ｜ High <100 mW switchable (country dependent)
Spurious Rejection	< 4 nW
Frequency Response	20 Hz ~ 15 kHz (stereo)
T.H.D.	< 0.1% (at 1 kHz)
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	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.

MI-909T Digital Stereo Transmitter

Rear Panel



High Performance Isolation Earphones

E-8S Standard Earphones

New E-8S earphones provide outstanding sound quality and excellent isolation to suppress high ambient noise levels. They feature an 8 mm 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. 8 mm high efficient driver.
2. In-ear, closed-back design with S/M/L earbud covers.
3. 1.5 meter rugged cable.
4. 3.5 mm Ø 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. Operating temperature -15° C to +60° C.

E-8P Professional Earphones

The E-8P professional earphones are designed 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 mm Ø 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. Operating temperature -15° C to +60° C.

5E (480~544MHz)

Group / Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	483.050	482.150	482.875	482.475	482.700	482.675	483.600	482.400	482.150	482.200	483.825	482.250	482.500	483.550	482.475	483.675	482.000
2	484.050	484.750	483.925	485.000	483.700	483.675	484.600	484.375	484.125	483.200	484.625	483.075	484.900	484.375	483.275	484.475	512.000
3	486.500	486.800	489.850	488.025	489.950	486.125	487.050	487.275	488.525	485.850	487.825	486.725	486.600	488.025	486.475	487.675	542.000
4	490.575	490.400	491.350	492.100	492.400	490.200	491.125	494.350	493.525	494.200	489.025	487.950	487.800	489.275	487.675	488.875	
5	501.000	504.350	493.800	501.175	497.750	500.625	501.550	495.875	496.500	496.175	490.625	489.725	491.500	491.025	489.275	490.475	
6	507.075	505.850	508.925	508.725	514.650	506.700	507.625	506.875	509.625	500.825	492.625	492.025	492.300	493.325	491.275	492.475	
7	516.150	514.600	514.375	526.850	517.550	515.775	516.700	515.950	515.075	515.300	495.200	495.200	494.175	496.100	493.850	495.050	
8	527.150	525.900	527.500	528.825	529.200	526.775	527.700	522.025	530.200	523.100	500.175	504.325	502.950	499.275	496.825	498.025	
9	528.675	531.050	530.475	535.475	533.550	528.300	529.225	532.450	532.650	532.400	503.550	517.475	504.400	500.325	503.175	504.375	
10	535.750	537.750	535.475	537.000	538.400	535.375	536.300	536.525	534.150	535.600	513.300	519.950	507.675	506.575	506.550	507.750	
11	538.650	540.800	539.875	540.525	540.350	538.275	539.200	538.975	540.075	539.750	515.100	528.000	520.175	518.000	517.700	516.725	
12	540.625	541.800	541.850	541.525	541.800	540.250	541.175	539.975	541.125	541.200	517.475	530.075	526.950	522.700	522.675	518.900	
13											518.875	531.475	534.925	526.525	524.850	523.875	
14											525.225	537.950	538.800	537.250	533.425	529.650	
15											531.000	540.775	540.925	539.250	534.800	537.950	
16											540.325	541.800	541.900	540.675	535.775	541.725	