

MIPRO®

MI-808T Stereo Transmitter

User Guide

Touchboards

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CE

FC



Design and specifications are subject to change without prior notice

AS110730



! IMPORTANT SAFETY INSTRUCTIONS !

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarised or ground plug: A polarised plug has two blades with one wider than the other. The wide blade is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. Apparatus should not be exposed to dripping or splashing and no objects filled with liquids, should be placed on the apparatus.
17. Use only with the battery which specified by manufacturer.
18. The power supply cord set is to be the main disconnected device.



WARNING

1. **FOR OUTDOOR USE:**
To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
2. **UNDER WET LOCATION:**
Apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases should be placed on the apparatus.
3. **SERVICE INSTRUCTIONS:**
CAUTION - These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

 This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

 This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

FC & IC - ID

THIS DEVICE COMPLIES WITH PART 74 OF THE FCC RULES AND RSS-123 ISSUE2 OF CANADA. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

Disposal Dispose of any unusable devices or batteries responsibly and in accordance with any applicable regulations.



2005-08-13

Disposing of used batteries with domestic waste is to be avoided!

Batteries / NiCad cells often contain heavy metals such as cadmium(Cd), mercury(Hg) and lead(Pb) that makes them unsuitable for disposal with domestic waste. You may return spent batteries/ accumulators free of charge to recycling centres or anywhere else batteries/accumulators are sold.

By doing so, you contribute to the conservation of our environment!

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1. Preface:

This system is engineered to meet the stringent requirements demanded in a variety of pro audio applications, such as by musicians, performers and directors.

To get the most out of your system, please read this manual thoroughly.

Characteristic of the MI-808T:

MI-808T is a part of a wireless monitoring system designed specially for use in stage performance and broadcasting. The main purpose of this system is to allow the user to listen to program feedback discreetly, instead of via a complicated matrix of audio cables and monitor speakers. In addition, MI-808T can serve as a conference PA system or multi-lingual transmitter. To maximize audio quality, S/N ratio and dynamic range, MIPRO uses "Dynamic Signal Processing Technology" to limit spurious and background noise.

Your Package Contains the Following Accessories:

Switching power supply x1	Antenna x1
	
Rack mount Brackets x1-pair	User Guide x1
	

2. Features of MI-808T:

The MI-808T is a UHF-band stereo transmitter. In each 24 MHz bandwidth there are 16 pre-programmed, user selectable non-interfering frequencies available. The MI-808T employs the latest high-efficiency transmitting circuitry and includes a rugged metal casing which combine to make it the right choice for audio professionals.

Features:

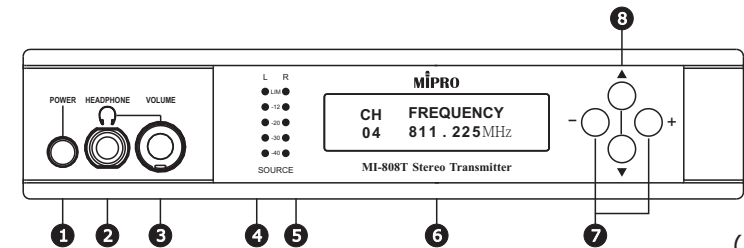
1. LCD display panel
2. International EIA standard 1/2-rack metal housing
3. Combo socket for balanced and unbalanced inputs.
4. Selectable for stereo and mono operation.
5. Uses an advanced UHF PLL synthesized design. In each 24MHz bandwidth, there are 16 pre-programmed user selectable frequencies.
6. Includes an advanced dynamic expander circuit to ensure a S/N ratio of greater than 90dB.
7. A built-in limiter circuit avoids distortion under high input levels
8. Includes a monitoring earphone jack.

Important Note:

The MI-808T transmitter MUST be used with a MI-808R receiver.

3. Glossary:

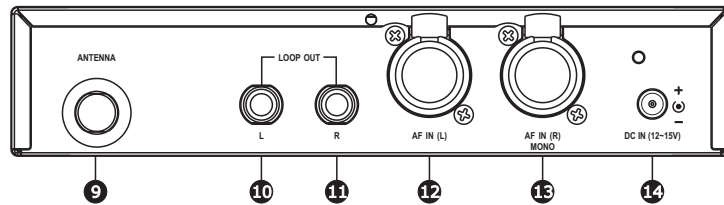
Front Panel:



(Figure 1)

- 1 **Power Switch:** Power on/off.
- 2 **Earphone Jack:** Connects to a stereo earphone to monitor audio output signals.
- 3 **Volume Control:** Adjusts the volume of the stereo earphone.
- 4 **Audio Input (L) and Limiter Indicator:** Indicates audio signal strength on the left channel.
- 5 **Audio Input (R) and Limiter Indicator:** Indicates audio signal strength on the right channel.
- 6 **LCD Panel:** Displays all functions and system status.
- 7 **Setup Key:** Adjusts setup configuration.
- 8 **Function Key:** Selects various display menus.

Rear Panel:

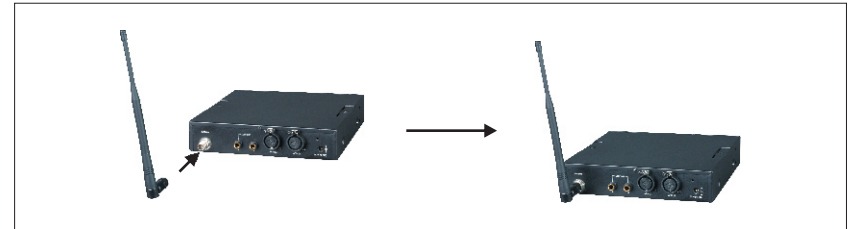


(Figure 2)

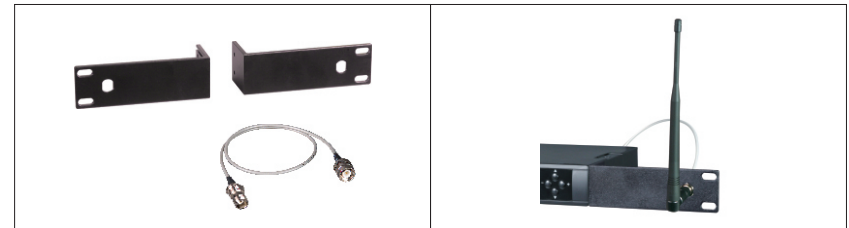
- 9 Transmitter Output Connector:** Antenna connection.
- 10 Unbalanced Audio Output Jack (Left Channel)**
- 11 Unbalanced Audio Output Jack (Right Channel)**
- 12 Audio Input Jack (Left Channel):** Combo socket for balanced and unbalanced signal inputs.
- 13 Audio Input Jack (Right Channel):** Combo socket for balanced and unbalanced signal inputs.
- 14 DC Input Socket:** Connects 15V DC power input. Positive (+) voltage for center pole of socket.

4. Operating the MI-808T:**1. Installation of the Antenna**

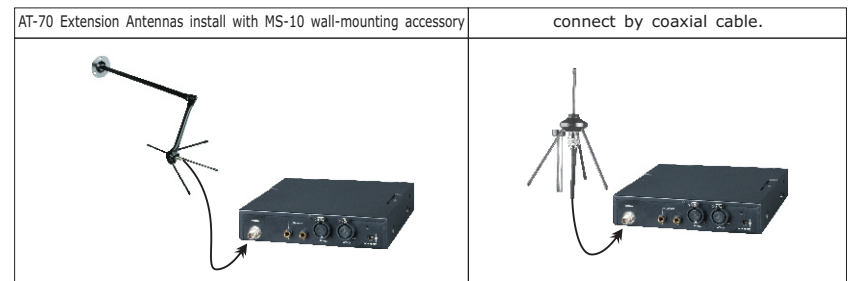
Coaxial cables may be used to remotely locate the transmitting antenna.

**2. Installation of Front Mounted Antenna**

Use an accessory FB-71 rack mount kit. For best results, locate the antennas on the front panel.

**3. Installation of Extension Antenna**

Use the accessory AT-70 extension antennas with an MS-10 wall-mounting accessory or microphone stand adaptor and connect by using quality coaxial cable. Coaxial cable lengths should be kept to a minimum.



4. Installation of Power Supply

Connect the DC 12V~15V/1A power supply to the power input socket. The power supply cable may be fastened to the rear panel to prevent the plug from dislodging.

5. Transmitter Turn On

When power is applied to the MI808T and the power switch is turned on, the green LCD display will glow.

6. Line Level Inputs

A balanced or unbalanced line level input can be connected to the 3 pin XLR socket and an unbalance line level input can be connected via the 6.3 MM jack socket. This is duplicated for both left and right channels.

Cause:

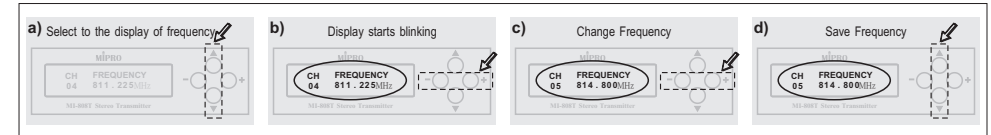
The strength level of signal input is LINE LEVEL. It must magnify the signal before input if MICPHONE LEVEL input is necessary, otherwise sensitivity is insufficient. Suggest to connect with monitor output jack of mixer.

7. Line Level Set Up

The strength of the line level for each channel input will display on the scale located on the left side of the front panel display. Normal operation is at 3. The maximum line level input level should not exceed 4. When input signal strength exceeds 4, the red warning LED will glow. The input signal level should be set properly for optimum dynamic range and S/N ratio and to avoid signal distortion.

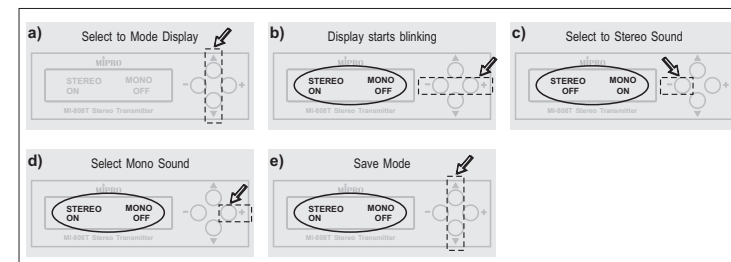
8. Transmission Frequency Set Up

- Press the up/down key. The LCD display will show the preset frequency.
- Press the left/right key and the LCD display will start blinking.
- Press the left/right key to select desired frequency.



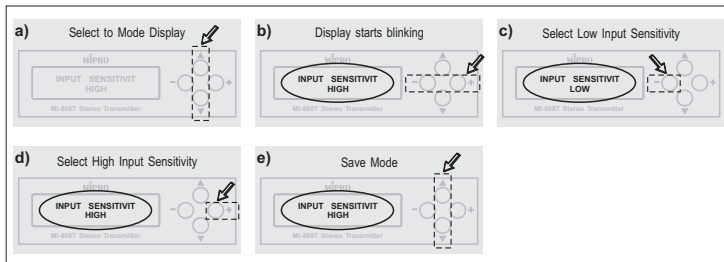
9. Selecting Stereo or Mono Output

- Press the up/down key to display STEREO/MONO ON/OFF.
- Press the left/right key. The display will start blinking.
- Press the left key and STEREO will display as being of ON.
- Press the right key and MONO will display as bring ON.
- Press the up or down key and the display stops blinking. This saves your selection.



10. Setting the Input Sensitivity

- Press the up/down key to display Input Sensitivity.
- Press the left/right key. The display will start blinking.
- Press the left function key (-), the second row on the display will show LOW meaning low input sensitivity.
- Press the right function key (+), the second row on the display will show HIGH meaning high input sensitivity.
- Press the up or down key and the display stops blinking. This saves your selection.

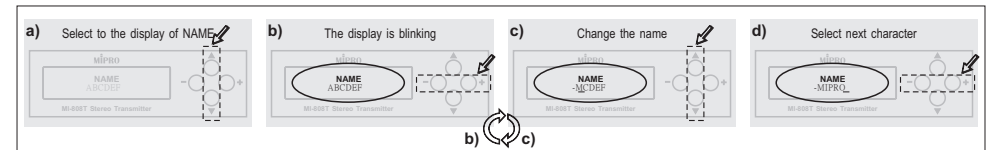


Note:

The difference between Low and High input sensitivity is 10dB. The distortion possibility must be noted if the input sensitivity is set at High level. If the input sensitivity is set at Low level while the distortion is still existent, it is necessary to decline further the signal from the BAL input. Input signal level should be setup properly and basic indication is avoid red LED of AF meter being turned on.

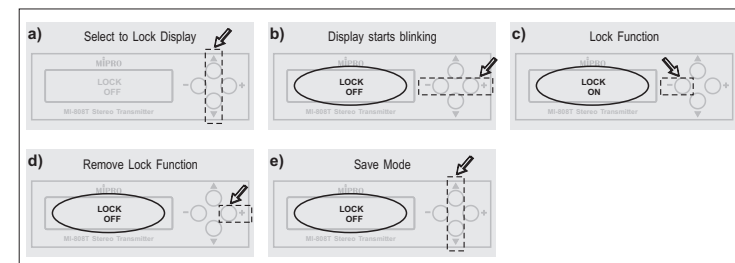
11. Setting a Name

- Press the up/down function key to display NAME on LCD display.
- Press the left/right function key and the display will start blinking.
- Press the up/down function key to select letters or numerals.
- Press the left/right function key to skip to the next character. Finish the setting of 6 characters by.



12. Setting the Lock Function

- Press the up/down key to display the Lock function.
- Press the left key and the display will show LOCK ON. All settings are now locked. No more setting adjustments can be made (except for unlock) until the lock function is removed.
- Press the right key and the display will show LOCK OFF. Further adjustments are now possible.



13. Using the Monitor Feature and Connecting Headphones

Plug a stereo headphone into the headphone output socket ❷ and use the volume control to adjust the volume to suit. Note that the connector must be a stereo plug.

Caution:

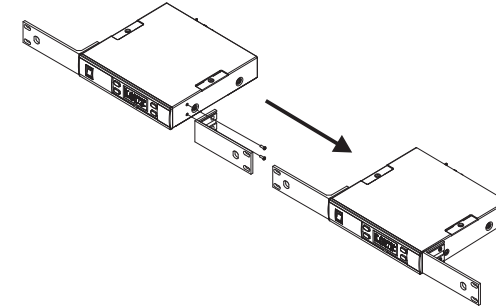
Adjust the monitor headphone level to suit your own needs and do not overdrive the headphone.

The system will save and update current setting automatically within 5 seconds after the last adjustment if no other buttons are pressed in the interim.

14. Rack Installation of Dual MI-808T's

a) Single, half-rack transmitter

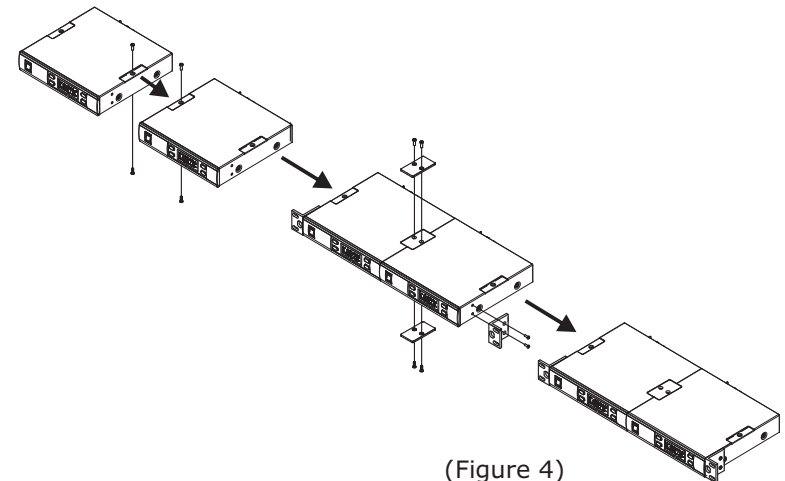
- ① Screw the rack mount ears on left and right sides. Please see the illustration below for correct assembly. (Figure 3)



(Figure 3)

b) Dual, half-rack transmitters

- ① Remove the screws located at the top and bottom of the two transmitters.
- ② Position the connecting plates between the top and bottom of the two transmitters and tighten.
- ③ After fixing the two transmitters together, screw the optional accessory rack mount ears (FB-72) on the left and right sides. (Figure 4)



(Figure 4)

5. Important Notes:

1. To avoid interference, monitoring systems and wireless microphone systems should not operate simultaneously using the same frequency band.
2. Use only 50Ω coaxial cable to connect the transmitters to external antennas and keep the cable length to less than 5 meters.
3. For best results, maintain line-of-sight between the transmitters and their matching receivers.
4. When using a DC power supply, please be aware of the operating voltage. Please make sure that a minimum of 12 volts is available. Power supply should not exceed its maximum capacity of 18 volts. When the supply voltage is too high, the system will suffer severe internal damage. It is preferred that the power source is from a regulated power supply with the minimum current of 500mA.



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