

MIPRO®

MI-808R Stereo Receiver

User Guide



Touchboards

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CE

FC



! 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.



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 15 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 MI-808R:

MI-808R 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-808R can serve as a conference PA system or multi-lingual receiver. To maximize audio quality, S/N ratio and dynamic range, MIPRO uses "Dynamic Signal Processing Technology" to limit spurious and background noise.

2. Features of MI-808R:

The MI-808R is a UHF-band stereo bodepack receiver. In each 24 MHz bandwidth there are 16 pre-programmed, user selectable non-interfering frequencies available. The MI-808R employs advanced dual-antenna diversity reception to eliminate signal dropouts and to enhance signal stability. A Mono/Stereo switchable audio output and a lightweight and rugged magnesium alloy casing combine to make it the right choice for audio professionals.

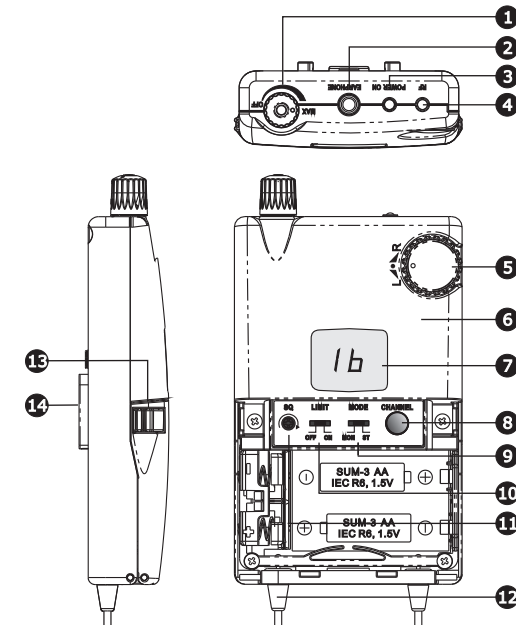
Features:

1. Dual-antenna diversity reception eliminates signal dropouts and enhances reception stability.
2. Rugged and durable magnesium alloy casing.
3. Numeric LED channel display with an auto power saver feature.
4. Stereo/ mono switchable audio output.
5. PLL-Synthesized technology features 24 MHz bandwidth with 16 pre-programmed, user selectable frequencies, adjustable at the touch of a button.
6. POWER on/off and RF signal indicators.
7. A dynamic expander circuit ensures a S/N ration of greater than 90dB.
8. Use 2 AA-size batteries.
9. Equipped with unbreakable, flexible antennas.

Important Note:

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

3. Glossary:



(Figure 1)

- 1 **Power Switch and Volume Control:** Power on/off and adjusts earphone volume.
- 2 **Stereo Monitoring Earphone Jack:** Connects to a monitoring earphone.
- 3 **Power indicator:** To indicate if the battery level is too low and that the batteries require replacement.
- 4 **Signal Indicator:** Indicates the receiver signal reception level.
- 5 **Left/right Channel Balance Control:** Adjusts the volume of the left/right channels.
- 6 **Housing.**
- 7 **Numeric LED Display:** Displays the channel currently selected.
- 8 **Channel Selector:** Autoscans to select an interference free channel.
- 9 **Mono/Stereo Switch:** Switches between mono or stereo audio output.
- 10 **Output Level Limiting Switch:** Allows the user to select the maximum output level to the earphone.
- 11 **Squelch Adjustment:** Adjusts receiver's squelch level.
- 12 **Antenna A & B:** Fixed receiving antennas.
- 13 **Battery Cover:** Covers two AA-size batteries.
- 14 **Belt Clip.**

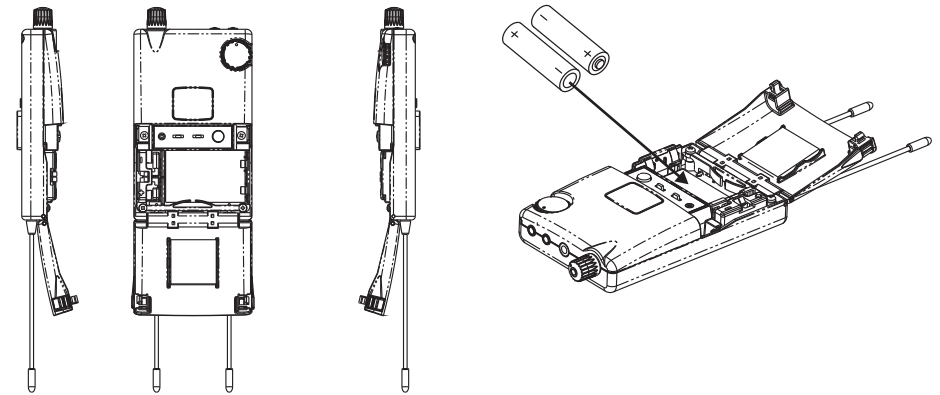
4. Operating the MI-808R:

1. Using Batteries And The Automatic Power Management System:

The MI-808R miniature receiver can use either 2 conventional or rechargeable AA batteries. When using conventional batteries, please select high quality, leak-free alkaline batteries. When using rechargeable batteries, please select high capacity Ni-MH batteries that are free from memory effect. Powering the MI-808R from alkaline batteries will give you 10 hours operating time. When the battery voltage drops below 2 volt, the power indicator will flash as a low power warning. When the battery voltage falls below 1.7 volt, the power management system will shut down power to protect batteries from leaking or from being damaged due to over-discharge.

2. Changing Batteries (Please see illustration below)

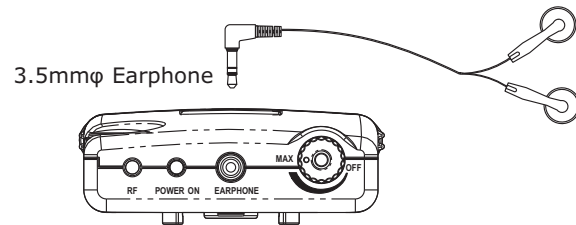
1. Pushing down both snap locks on the sides of battery cover to open and remove the batteries.
2. Insert two 1.5 volt (AA) batteries into the battery compartment observing the correct polarity. Then push the cover up to close the battery compartment.

**Note:**

When the receiver is not in use, please make sure the power is turned off. If the microphone is not to be used for some time, please remove the batteries from the battery compartment, to avoid battery leakage which could result in damaged battery springs and the circuit. If rechargeable batteries were used, please remove and recharge them.

3. Connecting Earphones (See Illustration Below)

Connect the stereo jack of the monitoring earphone to the 3.5mm stereo connector. You can also use any conventional matching earphone or connect the output of receiver to the input of any audio device.



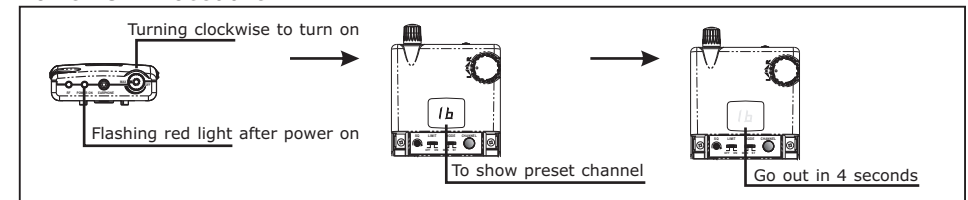
Note:

The earphone socket in the MI-808R features stereo output, so please make sure your earphone has a stereo jack. If a mono jack is used, a short circuit is possible which could result in a damaged circuit in earphone.

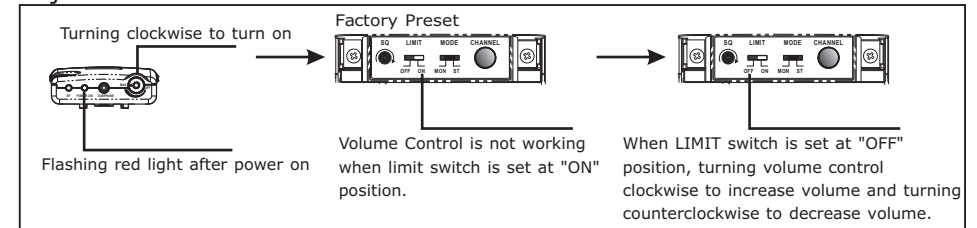
4. Power-On And Volume Adjustment

1. Turn the power/volume switch ❶, located on top of receiver, clockwise to turn on the power. After the power is on, the power status indicator ❸ will flash and the numeric LED display ❷ will show the preset channel. The numeric LED display ❷ will extinguish after 4 seconds to save power (see illustration below).
2. Continue turning the power/volume switch ❶ clockwise to turn the volume up or counterclockwise to turn the volume down. The volume setting can be limited via the LIMIT switch. (Please see illustration below.)

Power On Procedure:



Adjustment On LIMIT Switch:

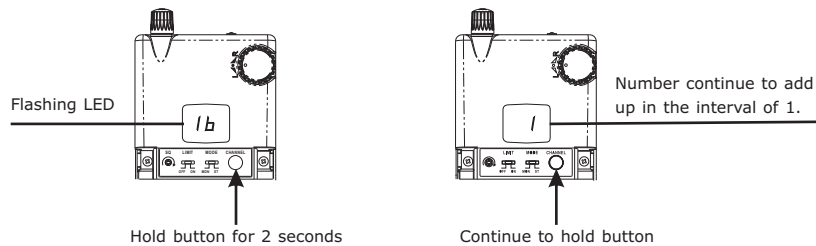


Note:

The system will not turn on if insufficient battery power is available. Please change to new batteries immediately or check to ensure that the batteries are properly installed and that their polarity is correct.

5. Setting Up The Receiver Channel (See Illustration Below)

After holding the channel adjustor ⑧ for 2 seconds, the numeric LED panel ⑦ will start flashing and the adjustor can be released. Then, pushing the adjustor once will increase the channel number. When the system reaches channel 16, it will cycle back to channel 1 and start the channel selection sequence again. While the LED is flashing, holding the channel adjustor ⑧ for 2 seconds will increase the channel number automatically until released.

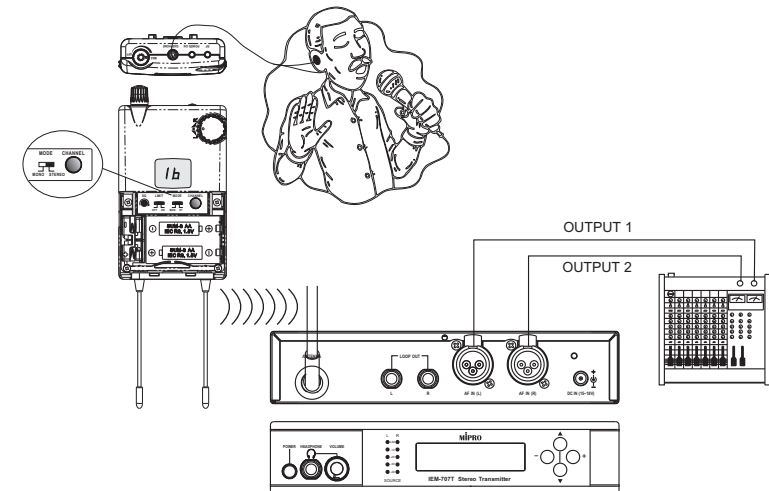


6. Stereo/Mono Switch

The stereo/mono switch ⑨ allows the use of earphones with either a stereo or mono output. The transmitter must be set at stereo transmission, if a stereo output is required.

Note:

When in stereo mode, the receiver exhibits a richer sound quality, but with a lower S/N ratio. When in mono mode, the S/N ratio is higher than stereo mode. This is why some users feel that mono mode has a longer receiving distance than stereo mode.



7. Output Limit Switch For Earphone

The output limit switch for the earphone ⑩ allows the user to engage output limiting. Because the earphone volume output can be extremely loud while in the unlimited mode, proper volume setup and management is very important. It is recommended to setup the system using the limit mode.

Note:

To protect your hearing, it is recommended to set the output limit to the "ON" position. It is also recommended that you remove your earphone after using it for a long period of time to avoid permanent hearing degradation.

8. Squelch Control

The squelch control ⑪ requires a small screw driver to adjust. Turning the control clockwise will reduce the effective reception distance, but will also lessen interference noise. Conversely, turning the control counterclockwise will increase the effective reception distance, but it will also increase possibility of interference. Hence, proper on-site adjustment and set up is required for optimum performance.

Note:

If interference is noticed, squelch adjustments can be made with the aid of the red LED.

9. RF Signal LED Indicator

When the RF Indicator ④ glows, it is indicating that signals from transmitter are being received. However, interference signals on the same frequency will also cause the indicator ④ to glow. To eliminate interference, you should switch to an interference-free channel.

10. Therefore Receiving Antennas

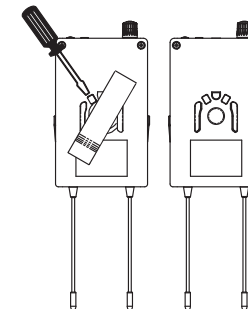
The MI-808R receiver uses true diversity design. There is one receiving antenna ⑫ on each side. To ensure optimal performance, DO NOT shorten or tangle the antennas. Also, please make sure that there is no material near the antennas that is conductive or that might interfere with reception.

11. Balance Control

The balance control ⑤ adjusts the volume balance of earphone between the left channel and the right channel. The balance control should be set in the centre position for an evenly balanced output. When turned clockwise, the volume of the right channel remains unchanged while volume of left channel decreases. When turning counterclockwise, the situation is reversed. When in the centre position, the volume level is evenly balanced between the left and right channels.

12. Belt Clip (Please see illustration below)

This can be rotated thru 360 degrees to adjust the receiver to the desired angle. To detach the clip, simply rotate the clip 30 degrees to the right (clockwise) and use a Philips (-) screwdriver to remove.



5. Important Notes:

1. To avoid interference, monitoring systems and wireless microphone systems should not operate simultaneously using the same frequency band.
2. Battery charge life is very much related to the output volume of the earphone. The louder the earphone output volume, the higher the current consumption will be and therefore the shorter the battery charge life. Using an earphone that has high sensitivity and good isolation will assist greatly in increasing operating hours. It is recommended that you use an earphone with a minimum 110dB/mW sensitivity.
3. If the receiver will not be used for some time, please remove the batteries from battery compartment to avoid battery leakage and which could result in damaged battery springs and circuitry.



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