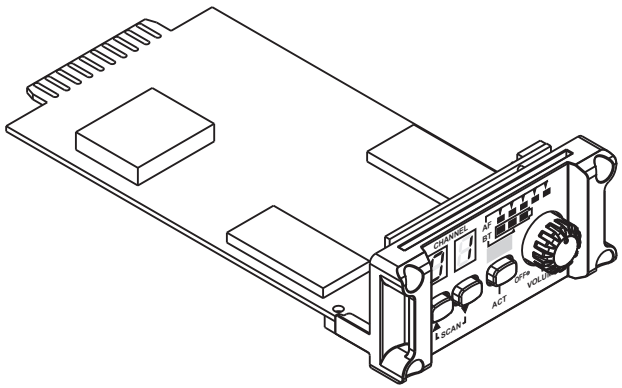
MIPRO®

MRM-24

2.4GHz Digital Wireless Receiver Module

User Guide



The MRM-24 is a single channel, frequency agile, wireless microphone receiver module to be installed in certain MIPRO wireless portable public address sound systems.

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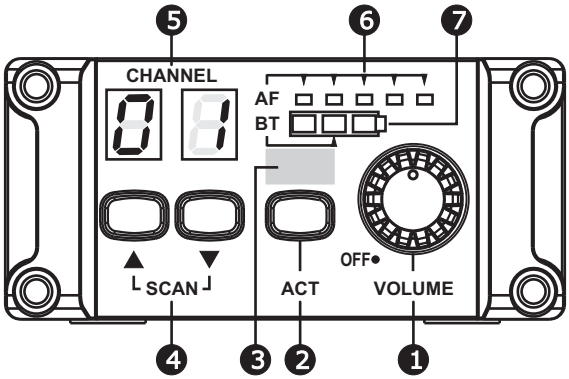
Controls and Indicators



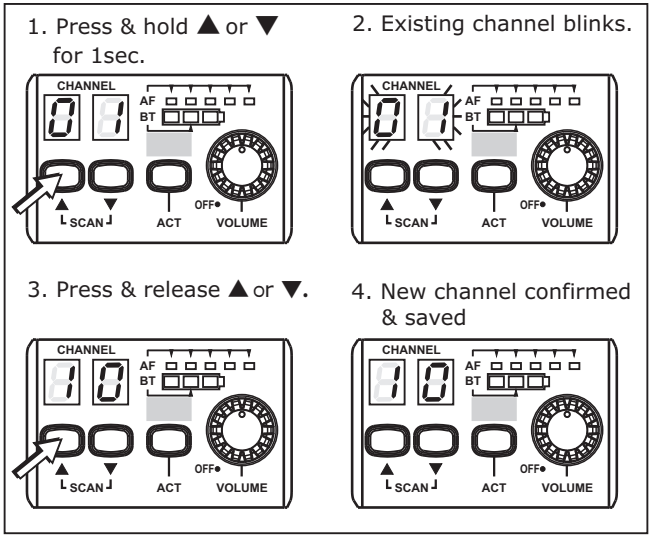
1. **Receiver Power Switch/Volume Control:** Power receiver on/off. LED indicator is lit after it is powered on. Adjust for volume loudness.
2. **ACT Sync Button:** Press once to activate and synchronize the receiver and transmitter frequencies.
3. **ACT Infrared (IR) Sync Port:** Transmits IR signal to transmitter to synchronize frequencies. Ensure transmitter's red sync port is within 30cm and 3 seconds once "ACT" button is pressed.
4. **Channel Scan Button ▲ and ▼:** Manual or scan automatically for an open, interference-free channel.
5. **LED Display:** Displays current receiver channel.
6. **Audio Signal Meter:** Indicates the transmitted audio signal.
7. **Transmitter Battery Meter:** Indicates the remaining transmitter battery life when it is powered on.

Receiver Channel Setting

Automatic Channel Scan:

Ensure transmitter is powered off before starting the automatic channel scan. Press & hold ▲ or ▼ for 1 second to activate SCAN or Manual mode, as shown in figure 1. Channel number in LED screen starts blinking once it is activated, as shown in figure 2. Press ▲ or ▼ once will automatically scans the environment and stops at the next open, interference-free channel, as shown in figure 3. When the scan is complete, the new channel appears on the display, as shown in figure 4.

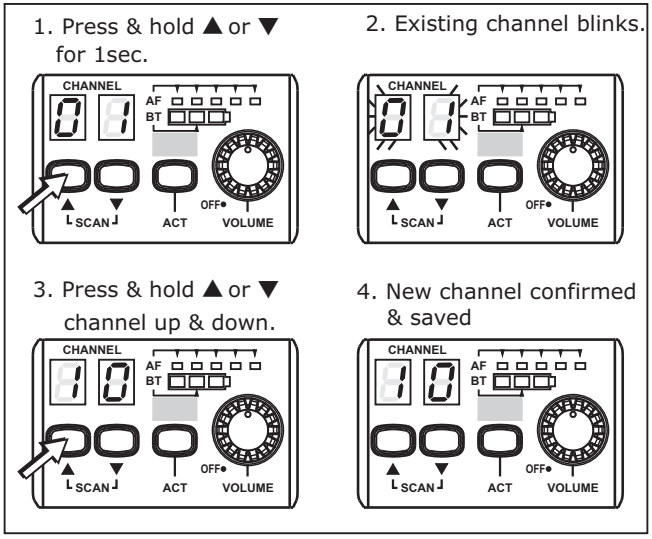
Note: If SCAN button is not pressed within six (6) blinks during activation the channel number reverts back to the last default channel number.



Manual Channel Setting:

Ensure transmitter is powered off before starting the manual channel scan. Press & hold ▲ or ▼ for 1 second to activate SCAN or manual mode, as shown in figure 1. Channel number in LED screen starts blinking once it is activated, as shown in figure 2. Press & hold ▲ or ▼ will force the channel number to go forward or backward, as shown in figure 3. When the desired channel number is complete, release the button and the new channel appears on the display, as shown in figure 4.

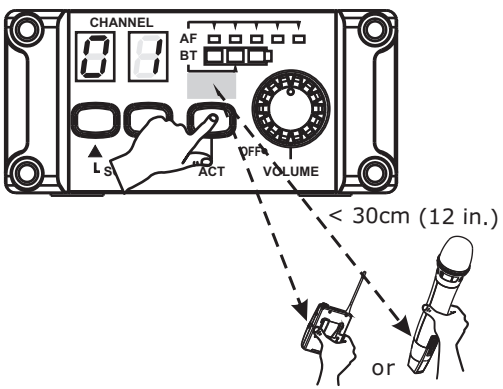
Note: If SCAN button is not pressed within six (6) blinks during activation the channel number reverts back to the last default channel number.



ACT Synchronization (Sync)

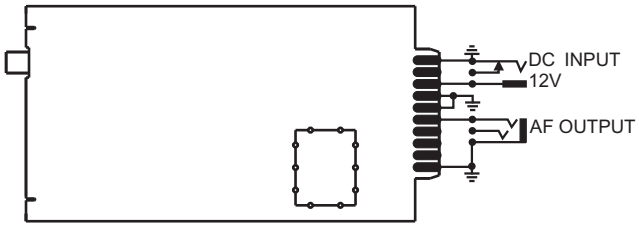
1. Turn on the transmitter.
2. Press the ACT (sync) button on the receiver. The channel number start blinking indicating the sync mode is active.
3. Align the red color IR sync windows of both the transmitter and receiver at a distance of <30 cm (12 inch). When the transmitter and receiver are properly aligned, the sync will automatically occur and channel number will stop to blink.
4. To cancel accidental ACT (sync) activation, simply press ACT button again to cancel.

Note: If the ACT sync fails, repeat the sync procedure, carefully maintaining alignment between the IR windows of the transmitter and receiver and ensure fresh batteries are installed the transmitter.



Receiver Module Wiring Diagram

MRM-24 receiver module edge connector wiring diagram is shown as follows:



This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 0.5 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

IC

This device complies with Industry Canada RSS-210

ISSUE 2 standards. Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including

interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage

radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 0.5 cm between the radiator and your body.

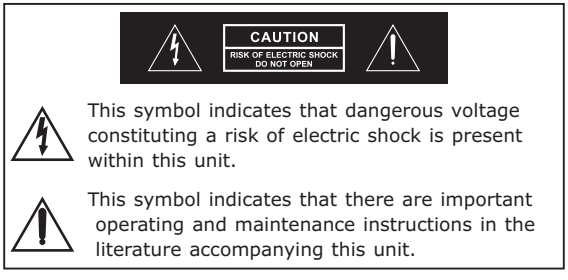
Notes

1. Refer to actual product in the event of product description discrepancy.
2. Frequency range and maximum deviation comply with the regulations of different countries.

2.4 GHz Digital Wireless Receiver Module

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.



Disposal

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

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!