



MH-80 Handheld Microphone Transmitter

User Guide



MIPRO **MIPRO Electronics Co., Ltd.**

Headquarters: 814 Pei-Kang Road, Chiayi, 60096, Taiwan.

Web: www.mipro.com.tw

E-mail: mipro@mipro.com.tw



AS110730

Design and specifications are subject to change without prior notice

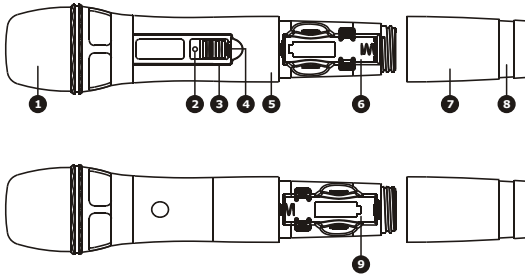
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KEY FEATURES

- ✍ High stability and low spurious emissions PLL synthesized fixed frequency RF technology.
- ✍ Pre-matched working channel of receivers and transmitters allows fast and accurate sync when power on.
- ✍ Ergonomic and aesthetics housing design. Advanced RF and AF circuits for perfect sound quality.
- ✍ MIPRO proprietary exterior metal windscreen design and interior multi-layer fine copper mesh replacing conventional sponge filter protects the capsule against impact, rolling and minimizes wind and “pop” noises, and is able to be detached easily for cleaning and good hygiene practices.
- ✍ The microphone capsule is connected to the transmitter PCB and then screwed onto the housing to prevent the potential malfunction caused by improper contact.
- ✍ Modularized PCB and microphone capsule can be easily detached and assembled. Optional premium microphone capsule modules are available.
- ✍ MH-80 is constructed of sturdy plastic housing to enhance the transmission efficiency. Special finish treatment prevents from handling noise and paint stripping.
- ✍ Durable construction of integrated housing and battery compartment, allowing 2 AA type batteries easily to be inserted and replaced.
- ✍ Battery housing design ensures the battery installation to prevent the malfunction when knocked. Multi-color rings for easy channel identification.
- ✍ LED indicator above the on/off switch lightens when power on and low battery power.
- ✍ Proprietary lockable on/off switch to avoid accident power off.
- ✍ MIPRO vocal condenser microphone capsule MU-89 exhibits high fidelity, wide dynamic range, fast transient responses, low feedback howling, accurate sound image characteristics, transparent sound quality and extremely low handling noise.
- ✍ Proprietary high dynamic range modulation circuitry sustains a maximum SPL of 140dB so performers can be confident it won't distort when sing loudly.

HANDHELD CONTROLS AND INDICATORS

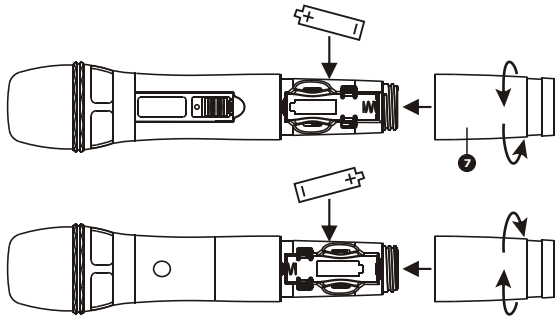


(Figure 1)

- ❶ **Top Grille:** Protects detachable microphone capsule module and internal foam prevents breathing, wind and POP noises.
- ❷ **Battery Status Indicator:** Indicates power on / off and the battery status.
 - ✍ **Normal Battery** Red indicator glows briefly and dims.
 - ✍ **Low Battery** Red indicator glows. Replace batteries.
 - ✍ **Drained Battery** Red indicator does not glow. Replace batteries.
- ❸ **Power On/Off Switch:** Slide the power switch to the "ON" position for use or to the "OFF" position when not in use.
- ❹ **Lockable On/Off Switch:** Slide the switch to the "ON" position after power-on to avoid accidental power off during performance. Slide the switch to "OFF" position before power-off and conserve battery power.

- ❺ **Housing:** Upper portion connects to the microphone capsule module. Internally it holds the transmitter PCB and battery compartment.
- ❻ **Battery Compartment:** Accommodates 2 AA alkaline.
- ❼ **Battery Compartment Cover:** Protects battery compartment and holds batteries.
- ❽ **Color-Coded Ring:** Available in different colors for channel differentiation.

OPERATING INSTRUCTIONS FOR INSERTION & REMOVING BATTERY



(Figure 2)

1. Gently twist the microphone housing in a counter-clockwise direction.
2. Remove the old batteries from the battery compartment, if any are installed.
3. Insert two new AA alkaline batteries in the battery compartment with correct polarity orientation. If normal, the red LED indicator will light solid for a second after the transmitter is turned-on. Fasten the microphone housing when done.
4. In the case of low battery, the red LED indicator will stay illuminated. Change to new fresh batteries.
5. In the case of dead battery, the red LED indicator will not be illuminated.

OPERATING INSTRUCTIONS

1. The red LED indicator will light solid for a second and the RF level/indicator shown on the receiver will remain illuminated after the transmitter is turned-on, denoting normal status. No illumination in the red LED indicates an incorrect battery polarity insertion, dead batteries or malfunction.
2. The audio level or indicator show on the receiver will be lit when there is audio line or microphone input from the transmitter.

CAUTION

Remove the batteries if unused for a long period of time to prevent battery leakage, corrosion and causes damage to electronics.

GENERAL TIPS FOR IMPROVING SYSTEM PERFORMANCE

1. Performer should avoid holding the microphone over or near the antenna section as this will deteriorate transmission efficiency. Severe deterioration if performer directly covers up the antenna section with both hands.
2. Many performers tend to hold the microphone by the top grille. Unfortunately, this position seriously degrades both the sound quality and directionality of a microphone. Even the most expensive microphones will have its original sound quality compromised by this method. Grabbing a microphone by the grille will isolate the capsule's acoustic resonance circuit and or change the capsule resonator's frequency. This results in an inferior performance in both frequency response and the separation of directionality. In addition, a palm's sound-focusing effect will tend to strengthen resonances in certain frequencies and can cause unwanted echo.
3. A proper technique is required for using directional microphones because the distance between the microphone and your mouth has a significant impact on sensitivity and performance. There is an inverse relationship between microphone sensitivity and the distance from the mouth to the microphone. Consequently, performers with a "weaker" sound level cannot expect to hold the microphone too far away from their mouth and compensate by turning up the amplifier volume to increase the sound level as this can easily cause echo or feedback. In contrast, performers with a "louder" sound level should not hold the microphone too close as this can easily result in distortion by causing the amplifier system to be overloaded.

4. Furthermore, a large-diaphragm directional microphone has a very distinct proximity effect. When the microphone is close to the mouth, the bass response is strengthened as the distance gets closer. Therefore, if a performer's sound is insufficient in bass, they can hold the microphone closer and use the proximity effect to help compensate for the lower bass level. Conversely, if a performer's voice is too heavy in the bass register, increasing the distance between the microphone and their mouth will decrease the proximity effect and reduce the bass response, thus making their voice become clearer and brighter.
5. It is recommended to keep the grille and sponge windscreen clean to avoid any substance blocking the proximity effect of the microphone.

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



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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!