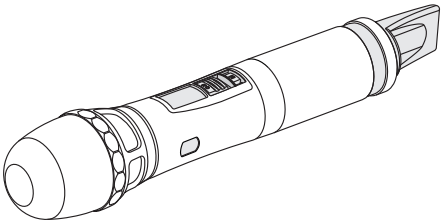
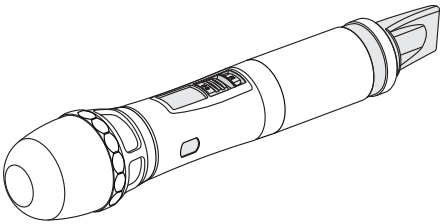
MIPRO

User Guide

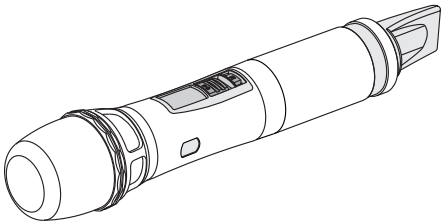
ACT-800H II UHF Digital Wideband Handheld Transmitter



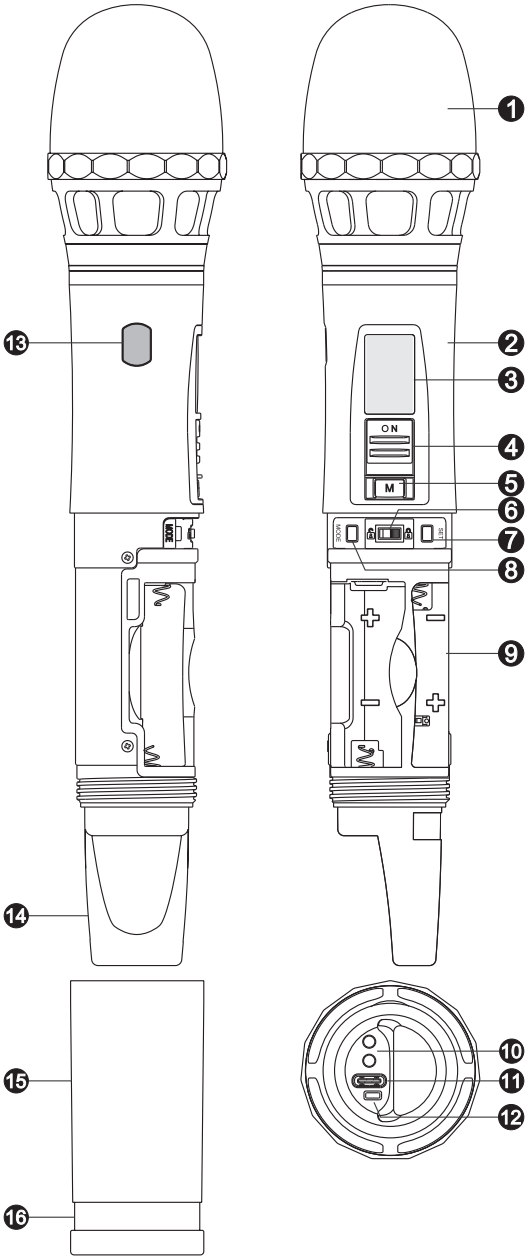
ACT-700H II UHF Analog Wideband Handheld Transmitter



ACT-600H UHF Digital Handheld Transmitter



Parts Name

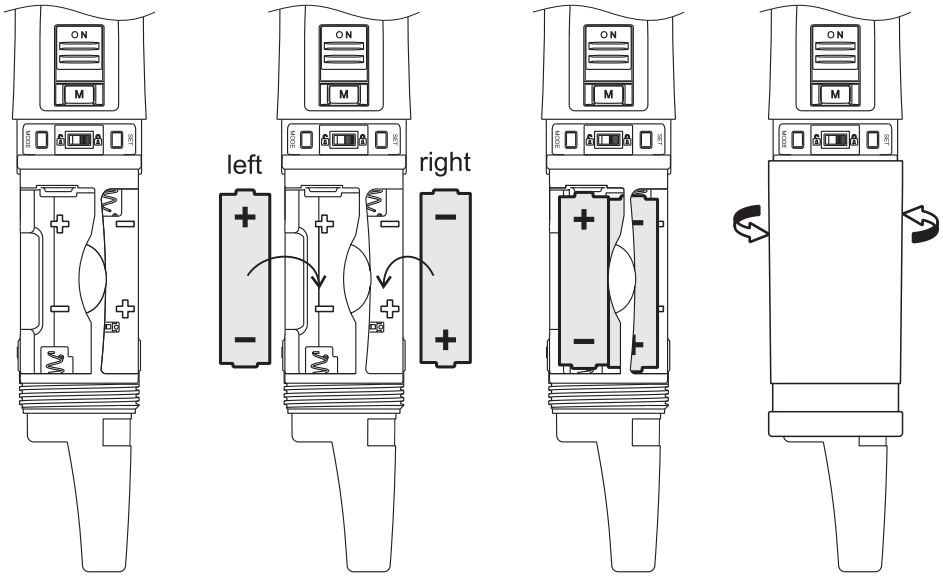


1. Microphone Capsule Module
2. Upper Housing
3. LCD Screen
4. Power Switch
5. Mute Button
6. Multifunction Locking Slider
7. SET Button
8. MODE Button
9. Battery Holder
10. Battery Charging Contacts
11. USB Type-C Charging Port
12. Charging Indicator
13. ACT Sync Window
14. Rear Cap
15. Lower Housing
16. Channel Identification Ring

Battery Insertion

Installing AA Batteries

- Rotate and detach the lower housing.
- **Ensure the power switch is off**. Insert one battery with the **negative (-) pole facing upward** into the right slot, then insert another battery with the **positive (+) pole facing upward** into the left slot, following the polarity marks.

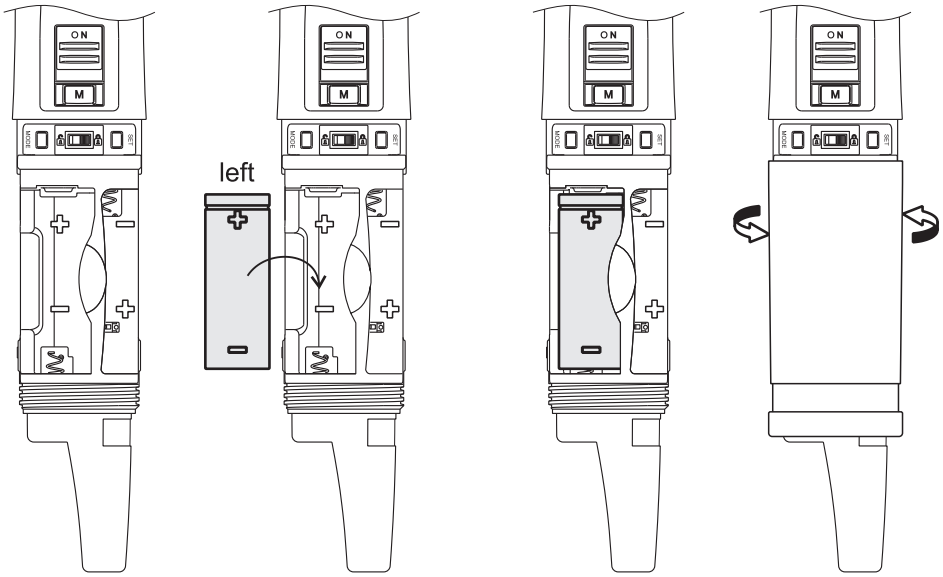


⚠ Caution

1. **Do not** use AA-sized 14500 lithium batteries (voltage exceeding 1.8V) or mix disposable batteries with 14500 lithium batteries.
2. Using incorrect batteries may cause malfunction or damage, which is not covered under warranty.

18500 Rechargeable Lithium Battery Installation

- Rotate and detach the lower housing.
- **Ensure the power switch is off**. Insert the lithium battery with the **positive (+) pole facing upward** into the left slot, following the polarity marks.

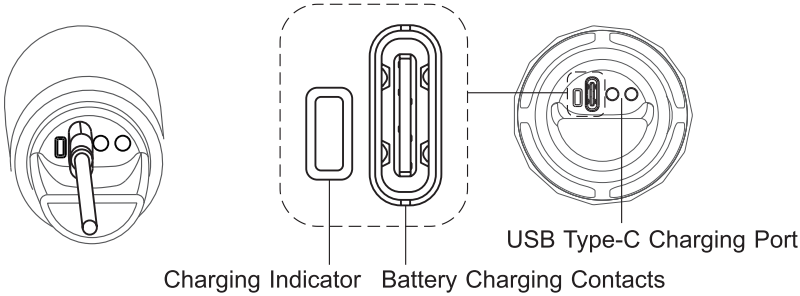


⚠ Caution

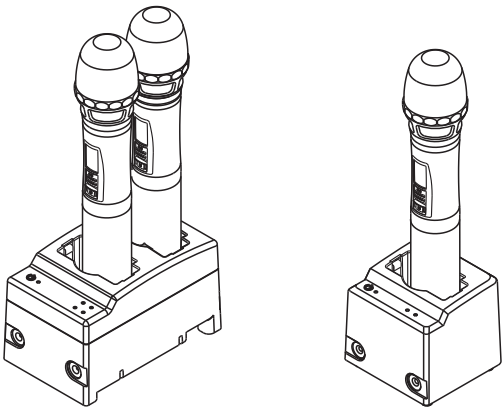
1. **Use only an 18500 lithium-ion battery** and confirm the polarity is correct before charging.
2. **Turn off the transmitter before charging**.
3. **Do not remove the battery during charging**. Disconnect the cable or dock first if removal is necessary.
4. **If the charging indicator does not light up**, check the battery installation.
5. **If the transmitter fails to power on**, recheck the polarity or charge level of the battery.

Charging Methods

- **Using USB Type-C Cable Charging**
  1. Connect the USB Type-C cable to the charging port.
  2. Observe the charging indicator:
     - **Orange light**: Charging in progress.
     - **Green light**: Fully charged.

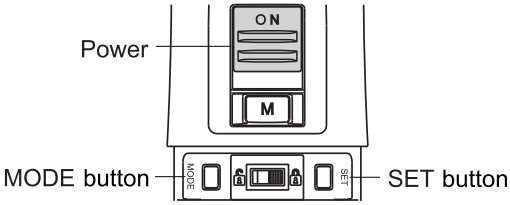


- **Using Charging Dock** (Optional)
  1. Connect the charging dock (e.g., **MP-820** or **MP-800**) to a power source and confirm that the **power indicator lights up**.
  2. Place the transmitter into the charging dock and check the status:
     - **Red light**: Charging in progress.
     - **Green light**: Fully charged.



MP-820 MP-800

Operating Instructions



Power On/Off

- **Push the power switch upward** to turn on the transmitter. The LCD screen will light up.
- **Push the power switch downward** to turn off the transmitter.
- **Note**: The LCD screen will display "**OFF...**" and automatically dim when turned off.

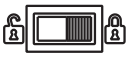
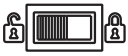
Mode Selection

Press the MODE button to toggle through available functions displayed on the LCD screen.

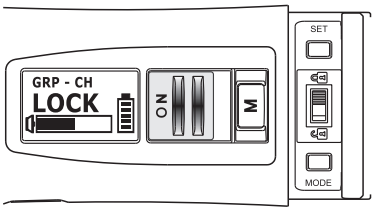
Parameter Setting

- **Press the SET button**. The parameter on the LCD screen will blink, indicating that the parameter is ready to be adjusted.
- **Press SET again** to confirm and apply the desired change.

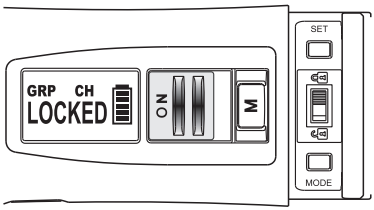
Lock

- **Enable the lock function** to prevent accidental operation. All functions except **MUTE** will be locked.
-  **To lock**: Push the **locking slider** to the right.
-  **To unlock**: Push the **locking slider** to the left.

ACT-800H II / ACT-600H **Lock Display**



ACT-700H II **Lock Display**



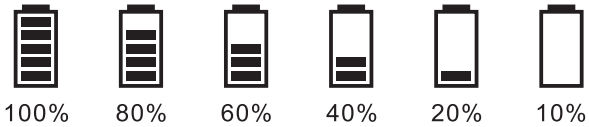
ACT-800H II / ACT-600H LCD Display Settings

LCD Display Overview

⑰ Function Area
⑱ Parameter Area
⑲ Battery Level Indicator
⑳ RF Signal Strength Indicator

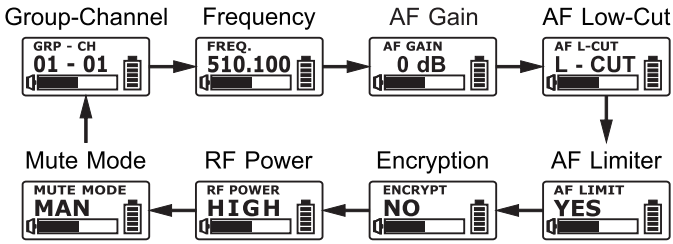
Battery Level Display

- The battery level indicator displays the remaining battery level in six stages: **100%, 80%, 60%, 40%, 20%,** and **10%.**



- **When the battery level drops to 10%, recharge immediately.** If the level is too low, the LCD screen will display "**OFF...**" and the transmitter will automatically power off.

LCD Display Functions

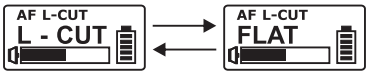


- **Group (GRP), Channel (CH), and Frequency (FREQ)**
  1. Group, channel, and frequency settings are for display only and cannot be changed directly.
  2. **To change group, channel, or frequency settings, operate on the receiver**. Then use the **ACT** function to synchronize the settings with the transmitter.

3. The specific group and channel set via PC software will be displayed as "GRP - CH" with asterisks (**) replacing the numbers.

- **AF GAIN (Audio Gain Adjustment)**
  1. Adjustable from **0 dB** to **6 dB** in 3 dB increments.
  2. Increasing the **AF GAIN** narrows the dynamic range of the input signal and increases the risk of system noise and feedback.

- **AF L-CUT (Low-Cut Filter)**
  1. Options: **L-CUT (Low Cut)** or **FLAT**.
  2. When set to **L-CUT**, the frequency response at **100 Hz** is reduced by approximately **3 dB**.

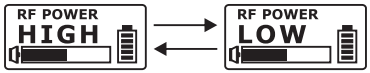


- **AF LIMIT (Audio Limiter)**
  1. Options: **YES** or **NO**.
  2. When set to **YES**, the maximum output of the receiver is limited to **1V**.

- **ENCRYPTION (Encryption Function)**
  1. This is a **display-only function**; it cannot be set on the transmitter.
  2. To enable encryption, configure it on the receiver in **encryption mode** and synchronize using the **ACT function**.
  3. Refer to the receiver's encryption settings for more details.

- **RF POWER (RF Output Power)**

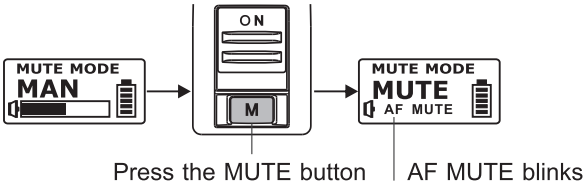
  Options: **HIGH** or **LOW** to adjust RF transmission power.



- **MUTE MODE (Mute Settings)**

  1. Select between **MAN (Manual)**, **AUTO**, or **DIS (Disabled)**.

  2. **MAN (Manual Mute)**
     - Press the mute button to enter mute mode. **The AF MUTE indicator blinks**. Press again to unmute.
     - The mute function is automatically disabled when the transmitter powers off.



  3. **AUTO (Automatic Mute)**
     - The transmitter **automatically enters mute mode** under specific conditions, and the mute button is disabled.
     - **Pointing the microphone head downward** mutes the transmitter, while **pointing it upward** restores audio.
     - **Remaining stationary for over 4 seconds** automatically mutes the transmitter. Light movement or usage will unmute.
  4. **DIS (Disabled)**

     The mute function is turned off and cannot be enabled in this mode.

- **Error Codes**
  1. **ROM-ER**: Channel not programmed or internal data error.
  2. **ERROR1**: RF frequency targeting circuitry failure.
  3. **NO-03**: The set frequency exceeds the upper limit. Verify that the transmitter and receiver are within the same frequency range, then restart the transmitter.
  4. **NO-04**: The set frequency exceeds the lower limit. Verify that the transmitter and receiver are within the same frequency range, then restart the transmitter.

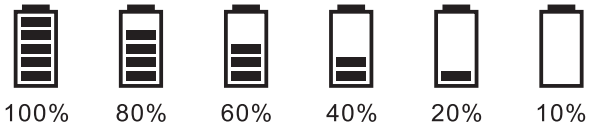
ACT-700H II LCD Display Settings

LCD Display Overview

⑰ Function Area
⑱ Parameter Area
⑲ Battery Level Indicator

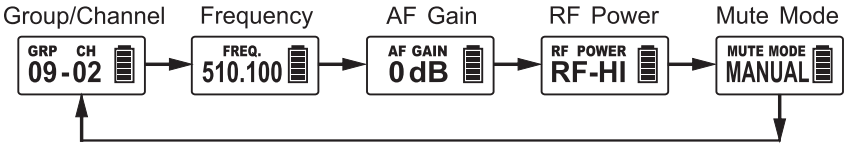
Battery Level Display

- The battery level indicator displays the remaining battery level in six stages: **100%, 80%, 60%, 40%, 20%,** and **10%.**



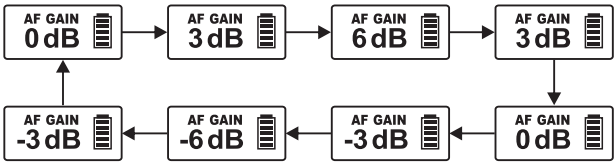
- **When the battery level drops to 10%, recharge immediately.** If the level is too low, the LCD screen will display "**OFF...**" and the transmitter will automatically power off.

LCD Display Functions



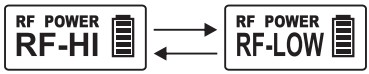
- **Group (GRP), Channel (CH), and Frequency (FREQ)**
  1. Group, channel, and frequency settings are for **display only** and cannot be changed directly.
  2. To change group, channel, or frequency settings, operate on the receiver. Then use the **ACT** function to synchronize the settings with the transmitter.
  3. For PC-configured custom frequencies, only the **channel** and **group** information will be displayed.

- **AF GAIN (Audio Gain Adjustment)**
  1. Adjustable between **-6 dB** and **6 dB** in 3 dB increments.
  2. Increasing the **AF GAIN** narrows the dynamic range of the input signal, and increases the risk of system noise and feedback.
  3. The factory default value for AF GAIN is **0 dB**.

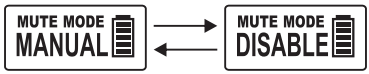


- **RF POWER (RF Output Power)**

  Options: **HIGH** or **LOW** to adjust RF transmission power.

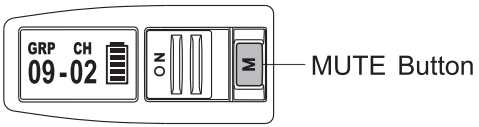


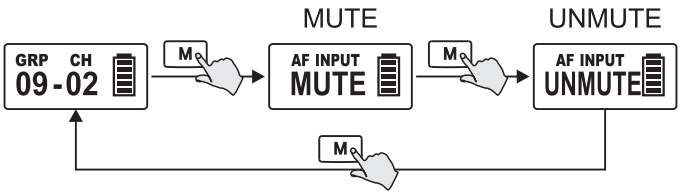
- **MUTE MODE (Mute Settings)**
  1. Options: **MANUAL** or **DISABLE**.
  2. **MANUAL**: The mute function is controlled by the **MUTE** button.
  3. **DISABLE**: The mute function is disabled and cannot be used.



- **Error Codes (ERR)**
  1. **ERR no01**: EEPROM write failure or internal data error.
  2. **ERR no02**: Testing.
  3. **ERR no03**: The set frequency exceeds the upper limit. Verify that the transmitter and receiver are within the same frequency range, then restart the transmitter.
  4. **ERR no04**: The set frequency exceeds the lower band. Verify that the transmitter and receiver are within the same frequency range, then restart the transmitter.

- **MUTE Button**
  1. **Factory Default**: Set to **MANUAL** mode. Press the mute button to enter mute mode, and the display will show "**MUTE**".
  2. **Function Operation**: While in mute mode, you can still use the **MODE** and **SET** buttons to adjust other settings.
  3. **Auto Return**: If no action is taken within **5 seconds**, the transmitter will automatically return to mute mode.
  4. **Unmute**: Press the mute button again to exit mute mode. The display will show "**UNMUTE**" for 1 second before returning to the main screen.





Cautions

1. **Turn off** the transmitter when not in use to conserve battery life. **Remove the battery** if not used for an extended period.
2. Avoid **covering the transmitting antenna** (rear housing section) with your hand to maintain transmission efficiency.
3. Do not **cover the microphone grille** with your hand to prevent degradation of sound quality, loss of directionality, or feedback issues.
4. Hold the transmitter properly to maintain an appropriate **distance between the microphone and the mouth**, ensuring optimal sensitivity and sound quality.
5. Keep the microphone grille **clean and unobstructed**. After use, **unscrew and clean** the grille to avoid debris affecting performance.
6. Follow the regulations of different countries regarding **frequency range, RF output power, and maximum deviation limits**.
7. Refer to the **actual product** in the event of any specification discrepancies.
8. Do not spray **alcohol directly** onto the condenser capsule to avoid damage and voiding the warranty.

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 centimeters between the radiator and your body.

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.

Frequency range

NCC: 510 – 530 MHz / 748 – 758 MHz

FCC: 470 – 608 MHz

CE: 470 – 789 MHz / 823 – 832 MHz

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!

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