



ACT-800H UHF Digital

ACT-700H/ACT-500H/ACT-300H UHF Analog

ACT-240H/2.4GHz, ACT-580H/5.8GHz Digital

Handheld Wireless Microphone

User Guide

ACT-800H



ACT-700H



ACT-500H



ACT-300H



ACT-240H/ACT-580H



I. Part Names. Fig. 1

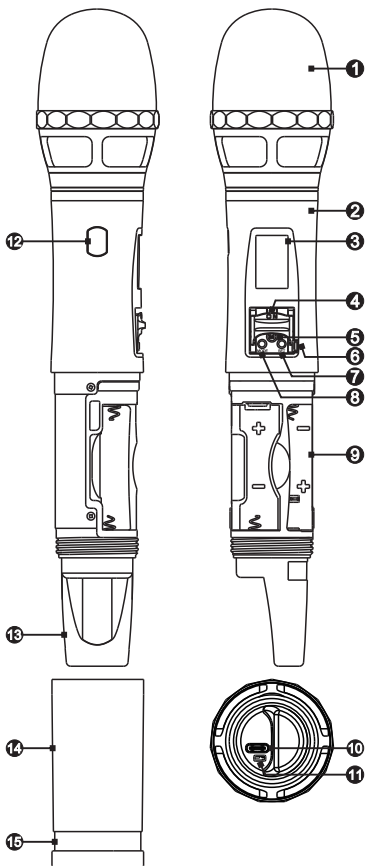
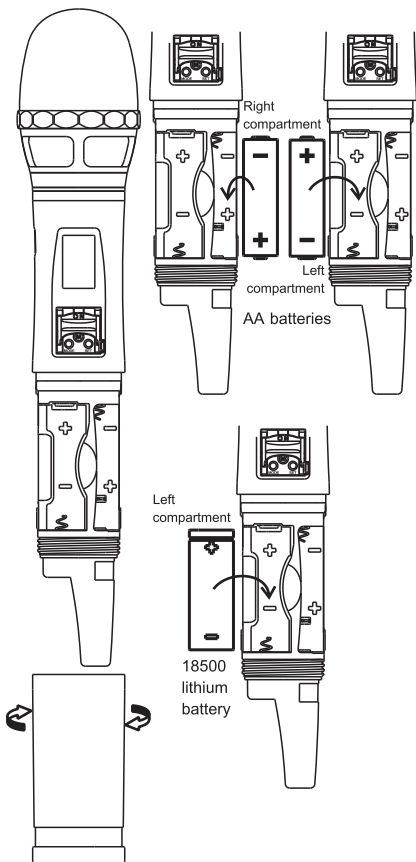


Fig. 1

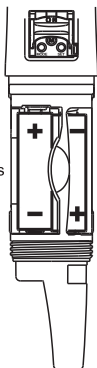
- ❶ Microphone Capsule Module
- ❷ Upper Housing
- ❸ LCD Panel
- ❹ Power Switch
- ❺ Mute Button
- ❻ Power Switch Block Latch
- ❼ SET Button
- ❽ MODE Button
- ❾ Battery Holder
- ❿ USB Type-C Charging Port
- ⓫ Charging Indicator
- ⓬ ACT Sync Window
- ⓭ Rear Cap
- ⓮ Lower Housing
- ⓯ Channel Identification Ring

II. Battery Insertion and Replacement

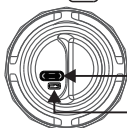
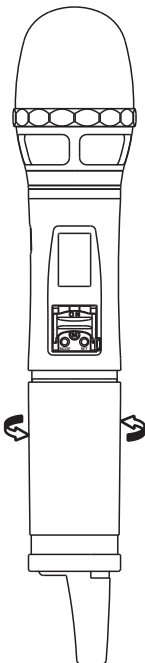
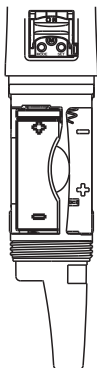
1. Battery Insertion. Fig. 2:
 - (A) Turn to detach the lower housing 14.
 - (B) Insert one 18500 lithium battery or two AA batteries.
 - (C) 18500 lithium battery insertion: insert one into the left holder with + pole upward.
 - (D) AA batteries insertion: insert one into the right holder with – pole upward, and then insert another into the left holder with + pole upward.
2. Check battery polarity was inserted correctly if battery power is sufficient but unable to turn on the transmitter.
3. Power off to conserve battery power. Remove the battery when it will not be used for extended period of time.



AA
batteries
inserted




18500
lithium
battery
inserted



USB Type-C
charging port

Charging indicator

Fig. 2

4. This device can charge only one ICR-18500 lithium battery via USB Type-C. Cautions during charging:
- (A) Before charging, make sure the inside battery is an ICR-18500 lithium battery.
 - (B) Confirm the battery polarity is inserted correctly.
 - (C) Turn off the power first and then charge.
 - (D) Do not charge AA batteries or NiMH batteries. Any damage caused by incorrect batteries is excluded from the warranty.
 - (E) The charging port doesn't supply the power for the device.
 - (F) Do not remove the lithium battery during charging status. Detach the charging cable before removing the lithium battery.
 - (G)  Indicator: Amber (charging); Green (full).
 - (H) Check the 18500 lithium battery is inserted correctly if the indicator doesn't glow.

III. Operating Instructions

1. Power On/Off:

- (A) Push the power switch upward to turn on. The LCD panel glows when power on. Push the power switch downward to turn off. Fig. 3, 4

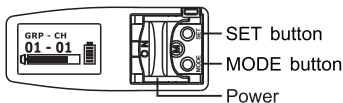


Fig. 3

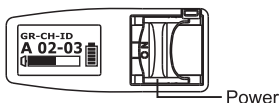


Fig. 4

- (B) The LCD shows OFF... during power off. Fig. 5

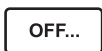


Fig. 5

2. Press MODE button to select functions.
3. Press SET button, the parameter blinks, press SET button again to change the parameter. Fig. 3
4. **Battery Level Status:**
Replace with a charged battery once the level falls to 10%. The device will power off automatically with an OFF message once the power level falls too low. Fig. 6

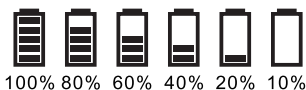


Fig. 6

IV. LCD and Operating Instructions

1. LCD Display. Fig. 7:

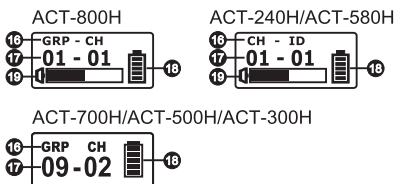


Fig. 7

- 16 Functions
- 17 Parameters
- 18 Battery Status
- 19 Audio Signal Level Bar

2. ACT-800H LCD. Fig. 8:

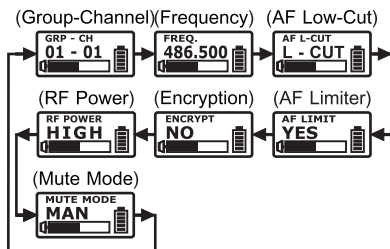


Fig. 8

(A) Group (GRP) / Channel (CH) /
Frequency (FREQ.). Fig. 9:

- (1) Group / Channel / Frequency is synced from the receiver and cannot be changed.
- (2) To change Group / Channel / Frequency, do it at the receiver and then press ACT button to sync.

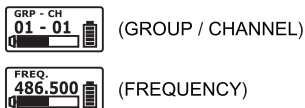


Fig. 9

- (3) The specific group and channel set via PC will display $\times \times - \times \times$. Fig. 10



Fig. 10

(B) AF L-CUT: AF Low-Cut Setting. Fig. 11

- (1) Select L-CUT or FLAT.
- (2) L-CUT: the frequency response at 100Hz will decrease about 3dB with a slope of -6dB/Octave.



Fig. 11

(C) AF LIMIT: Audio Input Limit Setting.

Fig. 12

- (1) Select YES or NO.
- (2) YES: the maximum output of the receiver is limited to 1V.



Fig. 12

(D) ENCRYPTION: Display Encryption Information. Fig. 13

The ENCRYPTION function must be set at the receiver first then using ACT to program the transmitter. (Refer to ENCRYPTION function of the receiver)



Fig. 13

(E) RF POWER: RF Power Setting. Fig. 14

- (1) Select HIGH or LOW.
- (2) HIGH has 50mW transmitting power. LOW has 10mW transmitting power. Set appropriate power to meet region/country regulations.



Fig. 14

(F) MUTE MODE: Mute Setting. Fig. 15

(1) Select MAN, AUTO or DIS.



Fig. 15

(2) MAN (Manual): the mute function is controlled by MUTE button. Fig. 16

(a) Press MUTE button to mute the transmitter, and the Audio Signal Level Bar 19 shows AF MUTE and blinks. Press again to unmute and the blink stops.

(b) AF MUTE will be disabled automatically when power off.

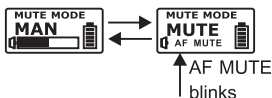


Fig. 16

(3) AUTO (Automatic): the mute button has no effect. The handheld transmitter microphone determines to MUTE and UNMUTE automatically.

(a) Audio mutes automatically when the microphone head points toward the floor (down). Audio unmutes automatically when the microphone head points toward roof (up).

(b) Audio is muted automatically if sitting idled for over 4 seconds. Audio is unmuted when moved.

(4) DIS (Disabled): Mute is disabled and cannot be muted in any method.

(G) Error codes:

- (1) ROM-ER → Channel wasn't programmed or internal data error.
- (2) ERROR1 → RF frequency targeting circuitry is failed.
- (3) NO----03 → The set frequency exceeds the upper band. The transmitter frequency will not be changed but it can be operated as long as the power switch is turned on again.
- (4) NO----04 → The set frequency exceeds the lower band. The transmitter frequency will not be changed but it can be operated as long as the power switch is turned on again.

(H) MUTE Button. Fig. 17:

- (1) Press MUTE button to enter MUTE status, the Audio Signal Level Bar **19** shows AF MUTE and blinks, and all operations and the ACT function are still workable.
- (2) Press MUTE button again to unmute. AF MUTE will be disabled automatically when power off.
- (3) MUTE button is only workable under MAN (Manual Setting) mode.

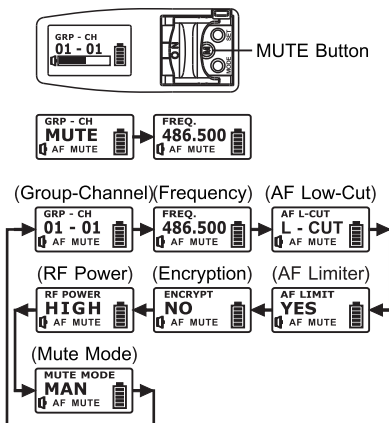


Fig. 17

3. ACT-240H / ACT-580H LCD:

GR (Group) – CH (Channel) – ID (ID Code).


Fig. 18:

- (1) Group / Channel / ID Code messages are displayed only and cannot be changed.
- (2) To change Group / Channel / ID Code, do it at the receiver and then press ACT button to sync.

(Group-Channel-ID Code)



Fig. 18

- (3) ACT-240H: GROUP A, CH 1~12, ID 1~64.
ACT-580H: GROUP A, B1, B2, CH 1~12,
ID 1~64, and  pairing mode.

4. ACT-700H / ACT-500H / ACT-300H LCD.

Fig. 19:

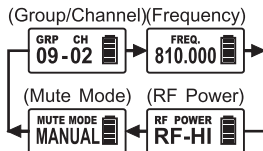


Fig. 19

(A) Group (GRP) / Channel (CH) /
Frequency (FREQ.). Fig. 20:

- (1) Group / Channel / Frequency messages are displayed only and cannot be changed.
- (2) To change Group / Channel / Frequency, do it at the receiver and then press ACT button to sync.

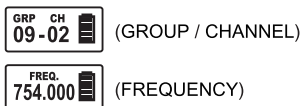


Fig. 20

- (3) For those specific channels set via PC, the screen shows only CHANNEL and numbers. Fig. 21



Fig. 21

(B) RF POWER Setting. Fig. 22:

Select RF-HI or RF-LOW.



Fig. 22

(C) MUTE MODE Setting. Fig. 23:

- (1) Select MANUAL or DISABLE.
- (2) MANUAL: Use MUTE button to mute/unmute.
- (3) DISABLE: MUTE button is disabled. Mute setting is canceled.



Fig. 23

(D) Error Codes:

- (1) ERR no01 → EEPROM Channel wasn't programmed or internal data error.
- (2) ERR no02 → for testing only.
- (3) ERR no03 → the set frequency exceeds the upper band. The transmitter frequency will not be changed but it can be operated as long as the power switch is turned on again.
- (4) ERR no04 → the set frequency exceeds the lower band. The transmitter frequency will not be changed but it can be operated as long as the power switch is turned on again.

(E) MUTE Button. Fig. 24:

- (1) Press MUTE button to enter mute status.
- (2) Press MODE, SET buttons to select parameters. Idle for 5 seconds and return to MUTE mode.
- (3) Press MUTE button again to unmute.
- (4) Unmute Mode: The screen shows UNMUTE for 1 second and returns to Home Screen.
- (5) MUTE button is only workable under MANUAL mode.

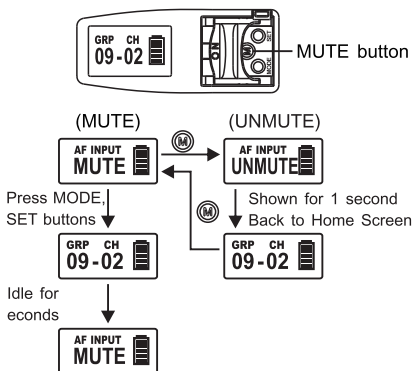
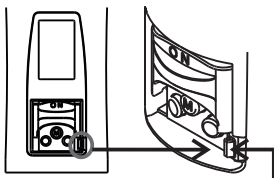


Fig. 24

V. Other Operations

How to Prevent from Accidental Power On/Off:

To prevent users from powering off the microphone accidentally, switch the Power Switch Block Latch ⑥ left to block the power switch. Fig. 25



Switch the latch left to block the power switch
Fig. 25

VI. Cautions

1. Turn off to save battery life when not in use. Remove the battery not use for an extended period of time.
2. To improve efficiency of transmitting antenna, do not cover the hands over the rear housing section.
3. To prevent degraded microphone sound quality, directionality and annoying feedback, do not cover the hands over microphone grille.
4. Correct posture of holding the handheld microphone is required because the distance between the microphone and the mouth will have a significant impact on the sensitivity and sound quality.
5. Keep the microphone grill clean and unblocked to enhance pick-up sound quality.

VII. Notes

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

FCC

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).

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.

This device complied with FCC radiation exposure limits as set forth for an uncontrolled environment. This device should be installed and operated so that its antenna(s) are not co-located or operating in conjunction with any other antenna or transmitter.

IC

This device complies with Industry Canada's RSSs. 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. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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