MIPRO®

ACT-80HC / ACT-80H

Digital Handheld Wireless Microphone

User Guide

ACT-80HC

ACT-80H

I. Parts Name, Fig. 1

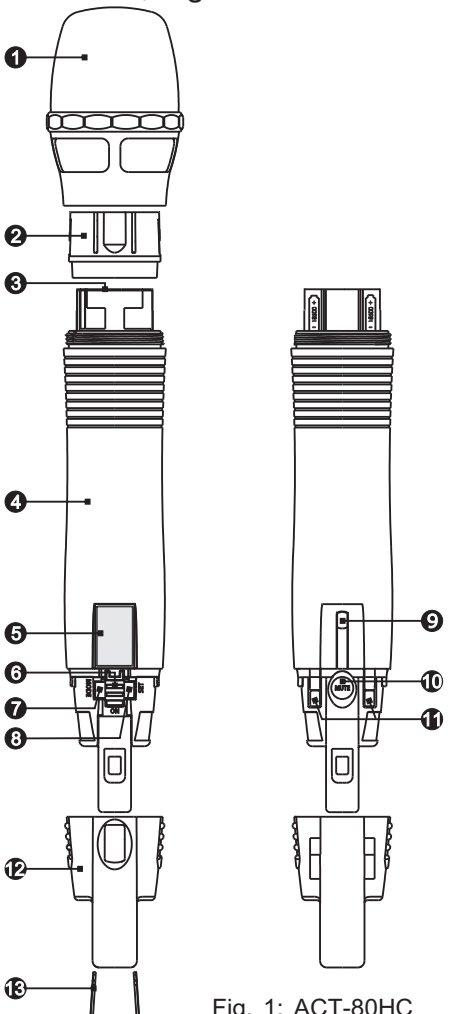

Fig. 1: ACT-80HC

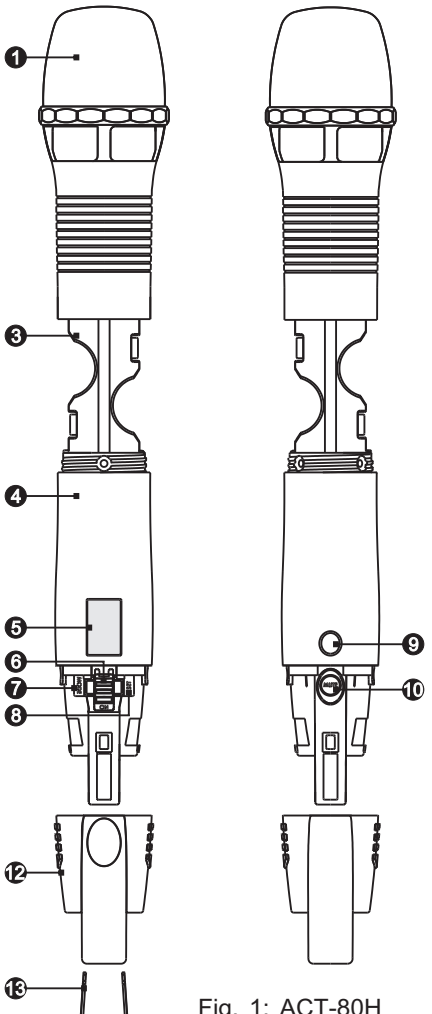

Fig. 1: ACT-80H

❶ Microphone Capsule Module.

❷ Fixed Ring.

❸ Battery Compartment.

❹ Housing.

❺ LCD Screen.

❻ Power Switch.

❼ MODE button.

❽ SET button.

❾ ACT Sync Window.

❿ MUTE button.

⓫ Battery Charging Contacts.

⓬ Protection Cover.

⓭ Channel ID Clip.

II. LCD Display, Fig. 2

Fig. 2

⓮ Transmitter Functions.

⓯ Transmitter Parameters.

⓰ Audio Signal Indicator.

⓱ Transmitter Battery Display.

III. Battery Installation

1. ACT-80HC, Fig. 3:

   (A) Rotate and remove microphone capsule module counterclockwise.

   (B) Press both sides of Fixed Ring ❷ to pull out Fixed Ring.

   (C) Insert a 18500 rechargeable battery according to its correct polarity for a proper fit. (with minus – towards the housing) Wrong polarity will not fit properly.

   (D) Dock the microphone onto a MIPRO exclusive battery charger for charging.

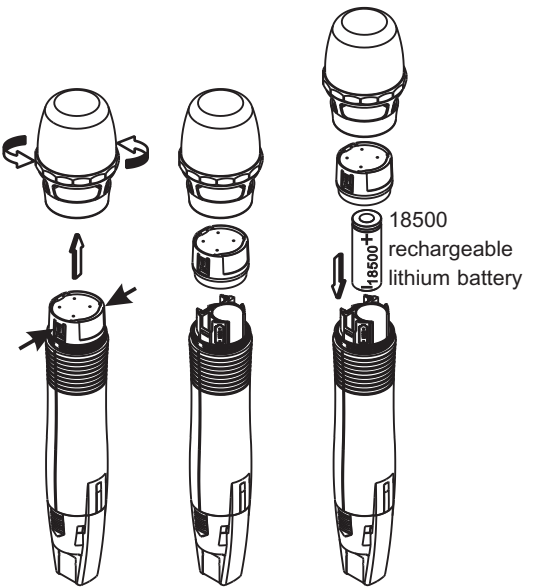

Fig. 3

2. ACT-80H, Fig. 4:

   (A) Rotate and remove microphone capsule module counterclockwise.

   (B) Insert two AA sized batteries according to its correct polarity for a proper fit.

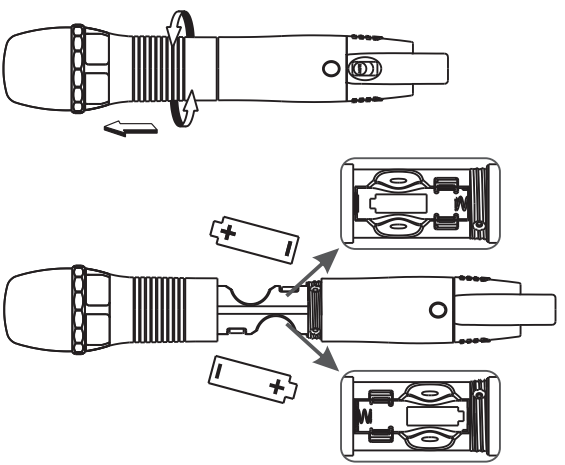

Fig. 4

3. If LCD screen is not lit after powered on, check if the battery is inserted polarity correctly or is fully drained.

IV. Operating Instructions

1. Remove protection rear cover to expose Power Switch, SET and MODE buttons, and MUTE button, Fig. 5.

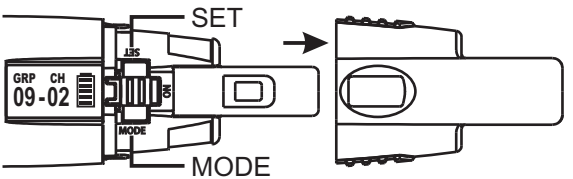

Fig. 5

2. MODE button ❼: Press MODE button ❼ to access one of the 8 parameters below and press SET button ❽ to activiate parameters for changing, Fig. 6.

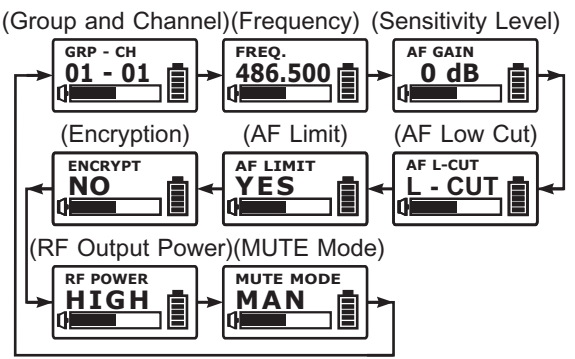

Fig. 6

3. GRP-CH: Group-Channel, Fig. 7

   (A) Press MODE button to access GRP-CH. Parameter value will flash and stop after 30 seconds.

   (B) This operation provides display messages only and cannot be changed.

Fig. 7

   (C) Group and Channel setup are synchronized from the receiver via ACT sync button.

   (D) When a special channel is programmed via software, the LCD screen cannot display the appropriate numbers due to the special channel is not preprogrammed in the preset group and channel. ✱✱-✱✱ will replace actual numbers, Fig. 8.

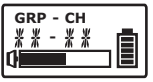

Fig. 8

4. FREQUENCY: Working Frequency, Fig. 9

   (A) Press MODE button to access FREQ. Parameter value will flash and stop after 30 seconds.

   (B) This operation provides display messages only and cannot be changed.

   (C) Frequency setup is synchronized from the receiver via ACT sync button.

Fig. 9

5. AF GAIN: Audio Gain, Fig. 10

   (A) Adjusts audio level from 0dB to 6dB in 3dB step.

   (B) Press MODE button to access AF GAIN parameter. Parameter value flashes and awaits change.

   (C) Press SET button to change. Each change is in 3dB step. 6dB is the maximum value and 0dB is the smallest value.

   (D) Parameter value stops flashing after 30 seconds if no change was made.

   (E) The higher the gains, the lower the dynamic range for signal input and the greater the danger of unwanted noises and higher chances of feedback.

Fig. 10

6. AF L-CUT: Audio Low-Cut, Fig. 11

   (A) Press MODE button to access AF L-CUT parameter. Parameter value flashes and awaits change.

   (B) Press SET button to change L-CUT or FLAT.

   (C) Parameter value stops flashing after 30 seconds if no change was made.

   (D) At LOW CUT setting, the frequency response below 100Hz will decrease about 3dB with a slope of -6dB/Octave.

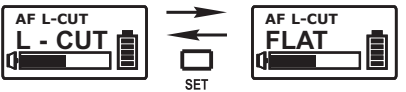

Fig. 11

7. AF LIMIT: Audio Limiter, Fig. 12

   (A) Press MODE button to access AF LIMIT parameter. Parameter value flashes and awaits change.

   (B) Press SET button to change YES or NO.

   (C) Parameter value stops flashing after 30 seconds if no change was made.

   (D) At YES setting, the maximum output of the receiver is limited to 1V.

Fig. 12

8. ENCRYPTION: encryption, Fig. 13

   (A) Press MODE button to access ENCRYPTION parameter. Parameter value flashes and awaits change.

   (B) Parameter value stops flashing after 30 seconds if no change was made.

   (C) This operation provides display messages only and cannot be changed.

   (D) Encryption setup is synchronized from the receiver via ACT sync button. Refer to detailed encryption setup in receiver user manual.

Fig. 13

9. RF POWER: RF Power, Fig. 14

   (A) Press MODE button to access RF POWER parameter. Parameter value flashes and awaits change.

   (B) Press SET button to change HIGH or LOW.

   (C) Parameter value stops flashing after 30 seconds if no change was made.

   (D) RF-HI has 50mW transmitting power. RF-LOW has 10mW transmitting power. Kindly adhere to local RF power regulations.

Fig. 14

10. MUTE MODE: audio mute, Fig. 15

(A) Press MODE button to access MUTE parameter. Parameter value flashes and awaits change.

(B) Press SET button to change MAN (Manual), AUTO (Automatic) or DIS (Disabled).

(C) Parameter value stops flashing after 30 seconds if no change was made.

Fig. 15

(D) MAN (Manual): MUTE is controllable by pressing the external MUTE button.

(1) A flashing AF MUTE message appears when MUTE button is pressed to denote the audio is muted. Press MUTE button again to unmute.

(2) AF MUTE is canceled automatically once transmitter is power off.

Fig. 16

AF MUTE keeps flashing

(E) AUTO (automatic): the handheld transmitter microphone determines to MUTE and UNMUTE automatically.

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

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

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

V. Battery Level Status

When the battery has less than 10% power remaining (0-bar displayed), ACT-80H needs to be replaced or ACT-80HC needs to be recharged. If under voltage condition continues, the screen will show “OFF...” and the system will power off automatically, Fig. 17.

Fig. 17

VI. Power On/Off

1. Slide up or down to power on or off. LCD screen is lit once it's powered.
2. OFF…appears during power off, Fig. 18.

Fig. 18

3. Error codes:
   (A) ROM-ER→ Transmitter does not have the initial programmed data.
   (B) ERROR1→ RF circuitry failure, frequency cannot be programmed.
   (C) NO----03→ The frequency to be set exceeds the upper limit of the microphone. It cannot be synced, thus, no RF and audio transmission. Power on the microphone again to reset.
   (D) NO----04→ The frequency to be set exceeds the lower limit of the transmitter. It cannot be synced, thus, no RF and audio transmission. Power on the microphone again to reset.

VII. MUTE setting, Fig. 19

1. Press MUTE button to enter mute status. A flashing AF MUTE message appears to denote the audio is muted. Under this status, parameter setting and ACT sync are still workable.
2. Press MUTE button again to unmute. Audio mute is canceled automatically one the microphone is powered off.
3. MUTE button can work under MAN (manual) mode.

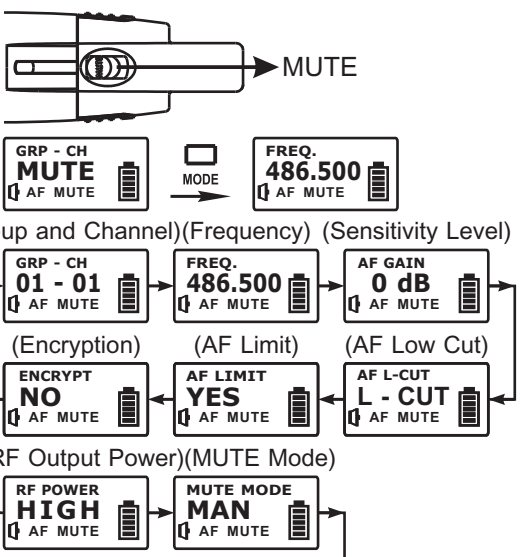

Fig. 19

VIII. Protection rear cover to prevent accidental power on/off

1. To prevent users from powering off the microphone accidentally, take out and reverse the protective rear cover, Fig. 20 & 21.
2. We recommend the rear cover is installed during usage.

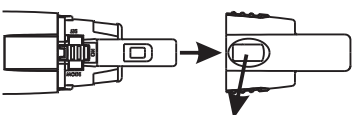

Fig. 20: Power switch is exposed

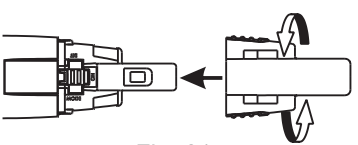

Fig. 21:
Power switch is covered after 180-degree reversal

IX. CAUTION

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 grill.
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.

X. 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.

XI. Transmitter Battery Chargers (optional)

1. Transmitter(s) can be recharged by docking into a MP-8 or MP-80 charger, Fig. 22 and 23. Or charge up to two 18500 batteries in MP-80, Fig. 24.

2. MP-8 Single-slot Docking Charger, Fig. 22.

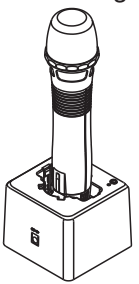

Fig. 22: Handheld transmitter charging in MP-8

3. MP-80 Dual-slot Docking Charger, Fig. 23.

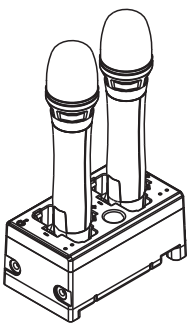

Fig. 23:
Handheld transmitter charging in MP-80

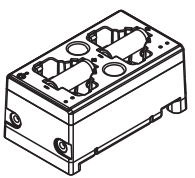

Fig. 24: 18500 rechargeable battery charging in MP-80

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.

MIPRO®

MICROPHONE PROFESSIONALS

MIPRO Electronics Co., Ltd

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

Tel : +886.5.238.0809 Fax : +886.5.238.0803

www.mipro.com.tw mipro@mipro.com.tw

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