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MICROPHONE PROFESSIONALS

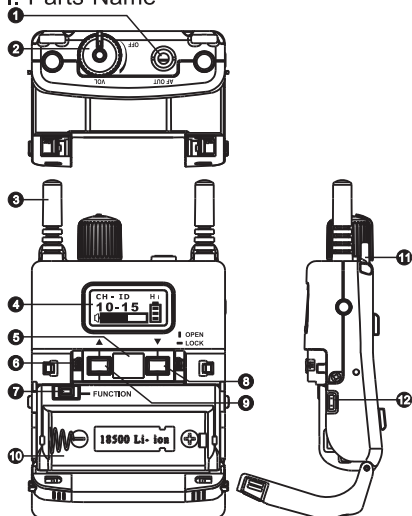
ACT-24R

2.4 GHz Digital Receiver

User Guide



I. Parts Name




- ❶ 3.5Ø Audio Output Jack
- ❷ Power & Earphone Volume Control
- ❸ Receiving Antenna
- ❹ LCD Screen: Displays parameter status
- ❺ ACT Sync Window: synchronize (pair) the receiver frequency to transmitter frequency automatically.
- ❻ Lockable Catches: lock or open battery compartment cover.
- ❼ Function button: channel changing only or parameter settings.
- ❽ ▼ Channel backward or ACT sync / Setting parameter button


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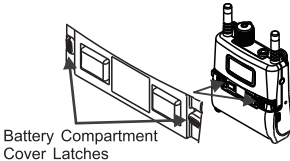
- 9 ▲ Channel forward or Mode selection button
- 10 Battery Compartment: Insert one 18500 rechargeable lithium battery.
- 11 Lanyard hooks
- 12 Charging contacts

II. Operating Instructions

1. Battery Replacement:

(A) Locked Latch (horizontal position).  Battery compartment cover cannot be opened.

(B) Open Latch (vertical position).  Battery compartment cover can be opened.

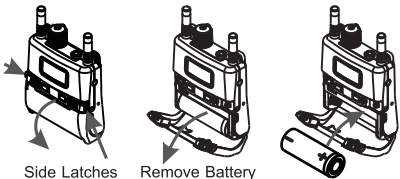


(C) Ascertain both latches are in vertical position. Press and hold side latches to open battery compartment cover.

(D) Insert one 18500 rechargeable lithium battery with correct polarity, and close the cover.

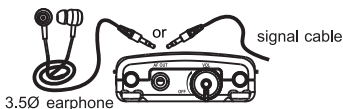
(E) Turn both latches to horizontal positions to lock the battery compartment cover.


(F) Preserve battery life by switching off and remove battery when it's not being used and is not expected to be used for extended periods of time.




2. 3.5Ø Earphone Jack Connection:

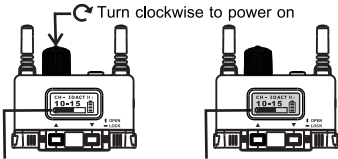
- (A) Insert earphone (not included) to the 3.5Ø audio output jack.
- (B) Caution: ascertain to use stereo earphone or headphone. Mono, non-stereo earphone have no sound output.



- (C)  Warning: Avoiding Hearing Damage – Permanent noise-induced hearing damage or loss may occur on prolonged exposure to loud sounds wearing earphone or headphone.
- (D) Minimize the volume level before the earphone is inserted.

3. Power & Earphone Volume Control:

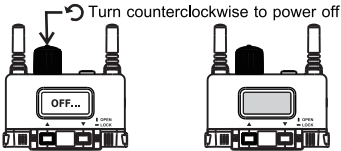
- (A) Turn the volume control  clockwise to power on and the backlit light will be lightened. Current channel and battery status will be displayed after powered on. The backlit light will dim automatically after a few seconds.
- (B) Slowly turn up the volume to a comfortable, safe listening sound level. Turn the volume control counterclockwise to lower the volume and turn to the end to power off. OFF...indicator will display temporarily when the device is turned off.
- (C) Caution: Device will not power on with insufficient battery power. Replace with a fully-charged rechargeable battery and insert with correct polarity.
- (D) Power On:



Backlit LCD lightens and displays current channel

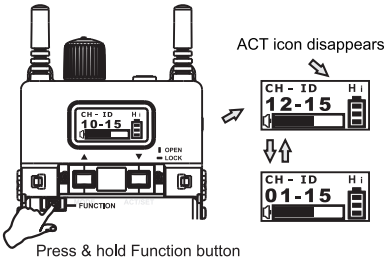
Backlit LCD dims to conserve battery life

(E) Power Off:



III. Receiver Parameter Setup

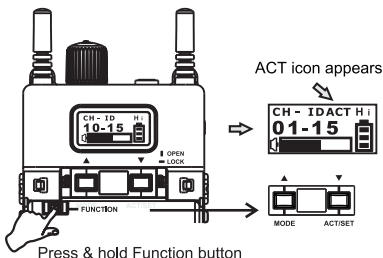
1. Function button - Press & hold Function button to activate function status (ACT icon appears) or deactivate function status (ACT icon disappears).



Press & hold Function button

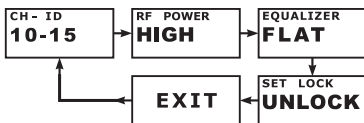
- (A) Ascertain both latches are in vertical position. Press and hold side latches to open battery compartment cover.

- (B) To change receiver channel only, press & hold Function button **7** until the ACT icon disappears. Press **▲ 8** & **▼ 9** buttons to increase or decrease channels.
- (C) Channels 1 - 12 are selectable through **▲** & **▼** buttons.



- (D) To activate the function mode, press & hold Function button until the ACT icon appears. Press **▲** (Mode) & **▼** (ACT/Set) buttons to change receiver parameters.

- (E) MODE sequence chart.



- (F) Press ACT/SET to activate, select and change parameters.

2. Parameters Setting:

(A) CHANNEL set-up:

- (1) Press and release MODE button until it stops at CH-ID screen. Press & release ACT/SET button until channel number cursor is blinking.
- (2) During blinking, press SET button to change the parameter. Setting auto saves when MODE button is pressed or blinking stops.



(B) ID CODE set-up:

- (1) Press and release MODE button until it stops at CH-ID screen. Press & release ACT/SET button once, press & release MODE button once until ID number cursor is blinking.
- (2) During blinking, press SET button to change the parameter. Setting auto saves when MODE button is pressed or blinking stops.



(C) RF POWER set-up:

- (1) Press and release MODE button until it stops at RF POWER screen. Press & release SET button once to activate.
- (2) During cursor blinking, press SET button for HIGH or LOW power setting.
- (3) Setting auto saves when MODE button is pressed or blinking stops.
- (4) Press ACT button to transmit RF Power setting to the matching (paired) transmitter.



(D) EQUALIZER set-up:

- (1) Press and release MODE button until it stops at EQUALIZER screen. Press & release SET button once to activate.
- (2) During cursor blinking, press SET button for FLAT or L-CUT power setting.
- (3) Setting auto saves when MODE button is pressed or blinking stops.



(E) SET LOCK set-up:

- (1) Press and release MODE button until it stops at SET LOCK screen. Press & release SET button once to activate.
- (2) During cursor blinking, press SET button for UNLOCK or LOCK setting.
- (3) LOCK setting disables buttons for parameter changes. UNLOCK setting enables buttons for parameter changes.
- (4) Setting auto saves when MODE button is pressed or blinking stops.
- (5) Channel and other parameters cannot be changed under LOCK status.



(F) EXIT set-up:

- (1) Press and release MODE button until it stops at EXIT screen.
- (2) Press & release SET button once to save all setting changes and return to main screen.

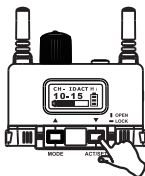


(G) Battery Level Indicator:

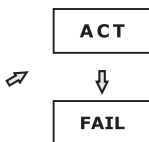
Device will activate a shutdown, "OFF" word appears, if voltage hits a certain low voltage level. Once the battery is recharged it can be powered on again.



3. ACT Synchronization (sync):



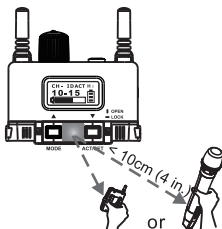
Press "ACT" button to sync



FAIL appears during a failed synchronization

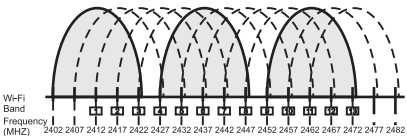
NOTE: during a successful synchronization between the receiver and transmitter, Channel, ID Code and RF Power parameter values, are transmitted.

- (A) ACT function can only be performed at main screen with ACT icon appears. Press ACT/SET button to sync with transmitter. If "FAIL" appears, the function was not performed successfully, thus, the ACT procedures need to be repeated.
- (B) Place the powered on transmitter within 10cm of the receiver. Align and place both ACT sync windows of both transmitter and receiver **5** facing each other. The programmed parameters will be synchronized automatically.
- (C) Once synchronization is successful, the ACT function will be deactivated automatically and main screen returns on the receiver panel and displays RF Power and Volume.



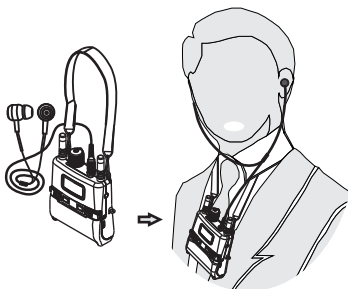
IV. CAUTION

1. Position the receiver at least 5-meter away from WiFi, Bluetooth or other 2.4 GHz transmitting devices.
2. Line-of-sight between the transmitter and receiver provides the ideal reception range.
3. The battery hours is related to the output power of the earphone. When the output of the earphone is larger, the current consumption will be larger and the battery hours will be shorter. Choose earphone with high sensitivity and good isolation will help increase the operating hours. Earphone more than 110dB/mW is recommended.
4. User can scan environment for WiFi devices with smartphone app, normally WiFi channel selections are 1, 6, 11.
 - (A) When there is WiFi channel selection 1, receiver channels can be set at 01 and 10 for non-interfering channels. Or select a lesser interference channels like 02, 03, 04, 05, 06, 07, 08, 09.
 - (B) When there is WiFi channel selection 6, receiver channels can be set at 01 and 11 for non-interfering channels. Or select a lesser interference channels like 02, 03, 04, 05, 06, 07.
 - (C) When there is WiFi channel selection 11, receiver channels can be set at 01 and 12 for non-interfering channels. Or select a lesser interference channels like 02, 03, 04, 05, 06, 07, 08, 09.
5. Wi-Fi Channel Distribution:

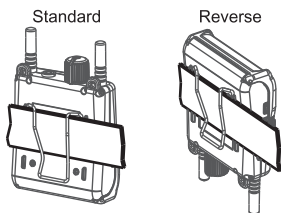


V. Installations & Applications

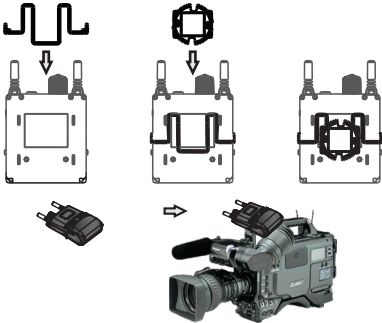
1. Can be worn around the neck with a supplied lanyard for tour-guide or language translation application.



2. Belt pack clip (optional): Can be worn right side up or upside down.

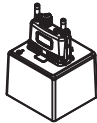


3. Camera Shoe Mount (optional): Can be mounted to a small to medium size camcorder.



VI. Charging Station (Optional)

1. Additional charging station and 18500 lithium-ion rechargeable batteries are available.
2. Dock the receiver on the MP-8 charging station.

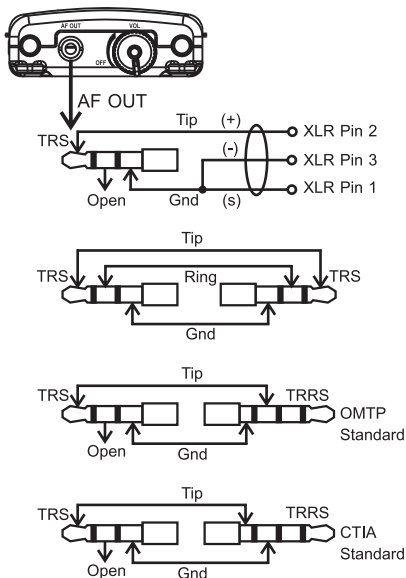


1 receiver
charging on MP-8

VII. Notes

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

VIII. AF Output Connections



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).

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 licence-exempt RSS-GEN 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 radio électrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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