

## Wireless ENG / EFP System



- Dual-Antenna Receiver
- Bodypack Transmitter
- Handheld Microphone

# Manufacturer's Declaration

This product meets the following standards:

## ■ Federal Communications Commission Interference Statement

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.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC INFORMATION  
The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

The 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 instruction, may cause harmful interference to radio communication.

However, there is no grantee that interference will not occur in a particular installation. If this equipment dose 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 or more 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.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

Consumer Alert  
Most users do not need a license to operate this wireless microphone system. Nevertheless, operating this microphone system without a license is subject to certain restrictions: The system may not cause harmful interference; it must operate at a low power level (not in excess of 50 milliwatts); and it has no protection from interference received from any other device. Purchasers should also be aware that the FCC is currently evaluating use of wireless microphone systems, and these rules are subject to change. For more information, call the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone Web site at <http://www.fcc.gov/cgb/wirelessmicrophones>.

## ■ Europe – EU Declaration of Conformity

This device complies with Directive 2014/53/EU issued by the Commission of the European Community.

## ■ WEEE Statement

Electrical and electronic equipment  
must be disposed of at the end of their  
lifespan separately from household waste.



Please dispose of this equipment at your local  
waste collection or recycling center. Please help to  
protect our environment.

## ■ Safety and Electromagnetic Emissions Certificates

### **Standard Compliance**

- RoHs compliant
- European Directive 2011/65/EU

### **Certificates**

- CE
- FCC

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device was tested for typical lap held operations with the device contacted directly to the human body to the back side of the notebook computer. To maintain compliance with FCC RF exposure compliance requirements, avoid direct contact to the transmitting antenna during transmitting.

SAR information

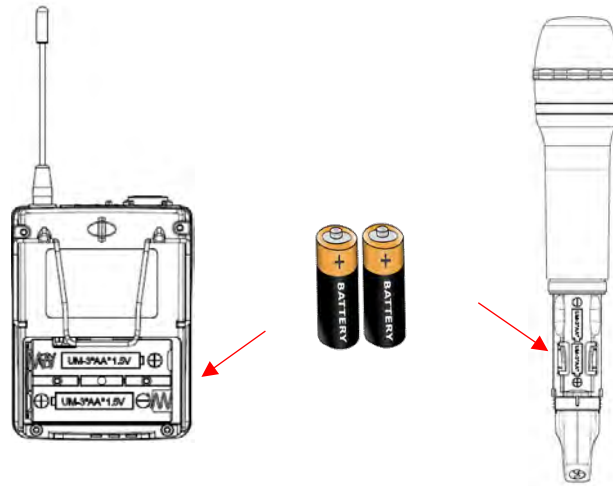
0.256 W/kg@1g (body)

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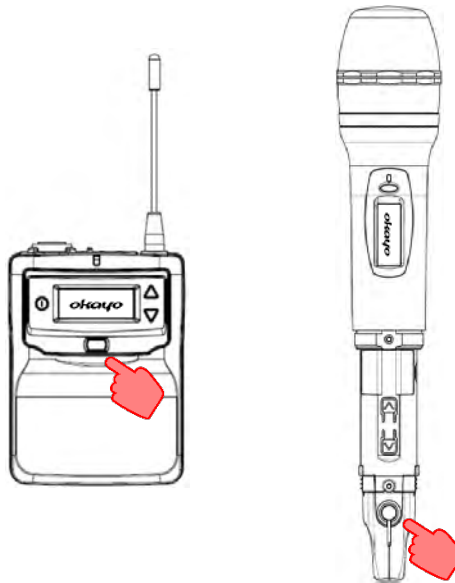
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## ■ Quick start

**Step. 1** Insert 2 supplied AA batteries into receiver, transmitter and microphone.

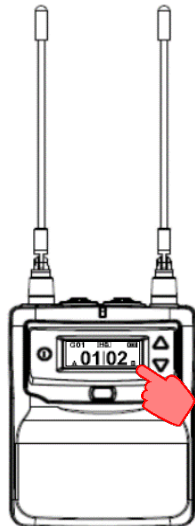


**Step. 2** Press and hold the power button for 1 second to turn receiver, transmitter or microphone on.



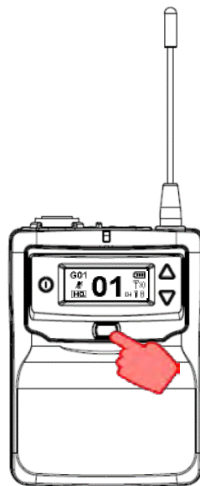
**Step. 3** Receiver:

1. Press and hold the set button for 1 second until backlit screen turns to white and channel number A flashes.
2. Press ▲ or ▼ button to select preferred channel A and press the set button to confirm.
3. Channel number B will start to flash after above selection of channel A is done.
4. Press ▲ or ▼ button to select preferred channel B and then press the set button to confirm.
5. The receiver will be back to home screen after above selection of 2 channels are completed.



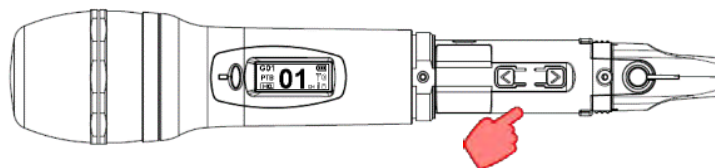
#### Boddypack Transmitter:

Press and hold the set button for 1 second until backlit screen turns to white and channel number flashes. Press ▲ or ▼ button to select preferred channel on receiver and transmitter. Press the set button again to confirm newly selected channel.



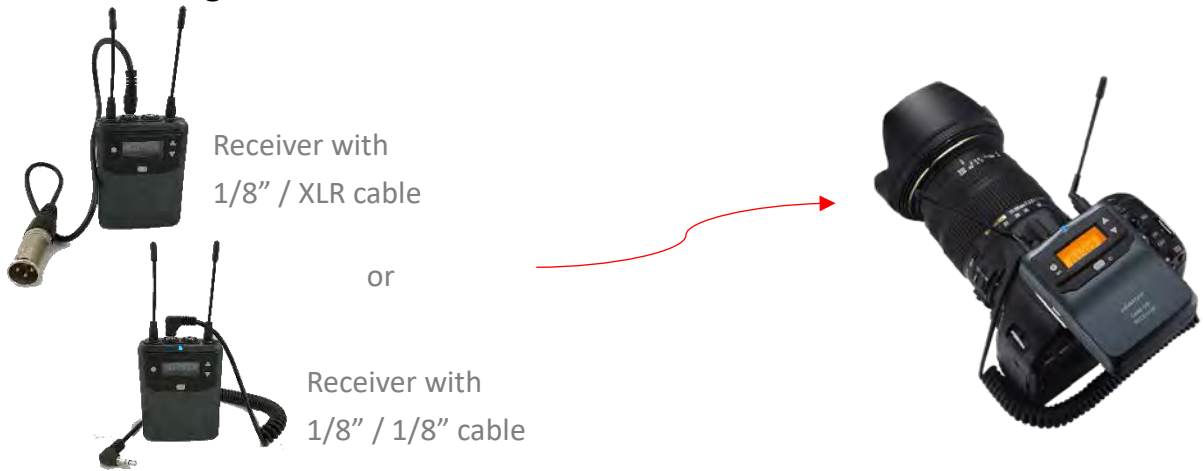
#### Handheld Microphone:

Press and hold ◀ or ▶ button for 1 second until backlit screen turns to white and channel number flashes. Press ◀ or ▶ button to select preferred channel on microphone. The newly selected channel will automatically be confirmed after being idled for 2 seconds.



Make sure both receiver and transmitter are set at same channel for correct communication.

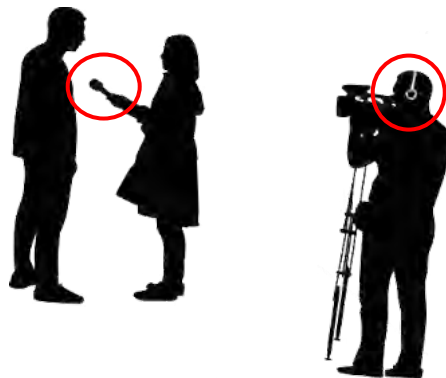
**Step. 4** Connect one of supplied cable from LINE OUT jack on receiver to camera or recording device.



Antennas of Receiver are recommended to be sloped at a 45-degree angle as shown below to make sure best operation range.



**Step. 5** Connect headphone to the receiver worn by the photographer whereas supplied lapel microphone to the transmitter or handheld microphone carried by the host.



**Step. 6** Tune the headphone and microphone volume to desired level for most appropriate operation.



Kindly note listening at high volume for long periods may damage your hearing.



## ■ Package

### Standard



- 1 dual-antenna receiver
- 2 bodypack transmitter
- 2 lapel microphone LM-95C
- 1 shoe adapter SM-9
- 1 1/8" to XLR connecting cable
- 1 1/8" to 1/8" connecting cable
- 6 AA alkaline batteries

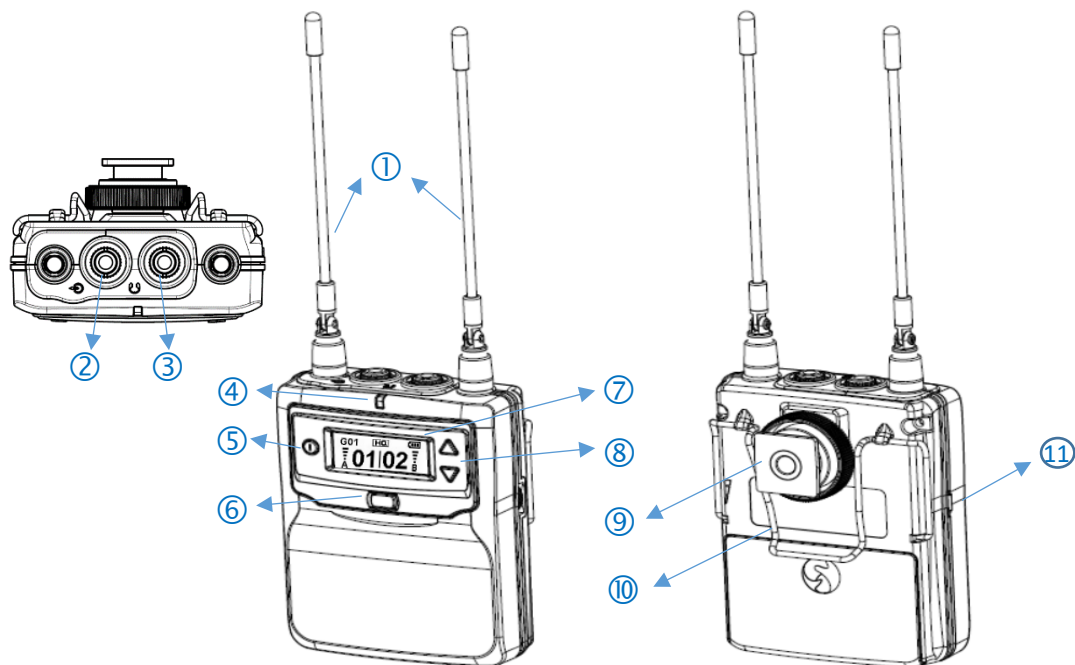
### *Optional* transmitter



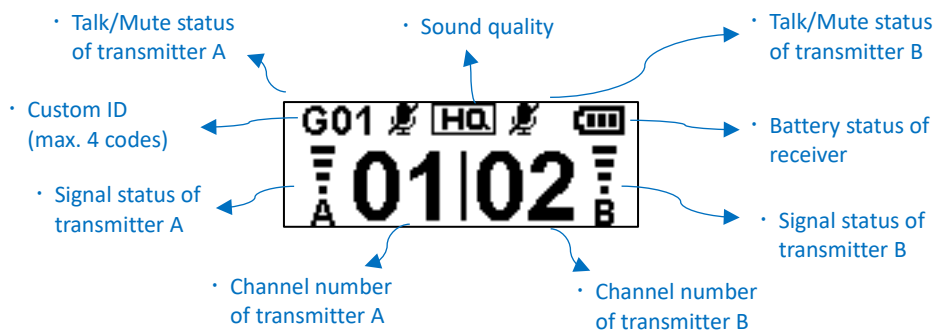
- Handheld microphone

## ■ Illustration

### Dual-Antenna Receiver

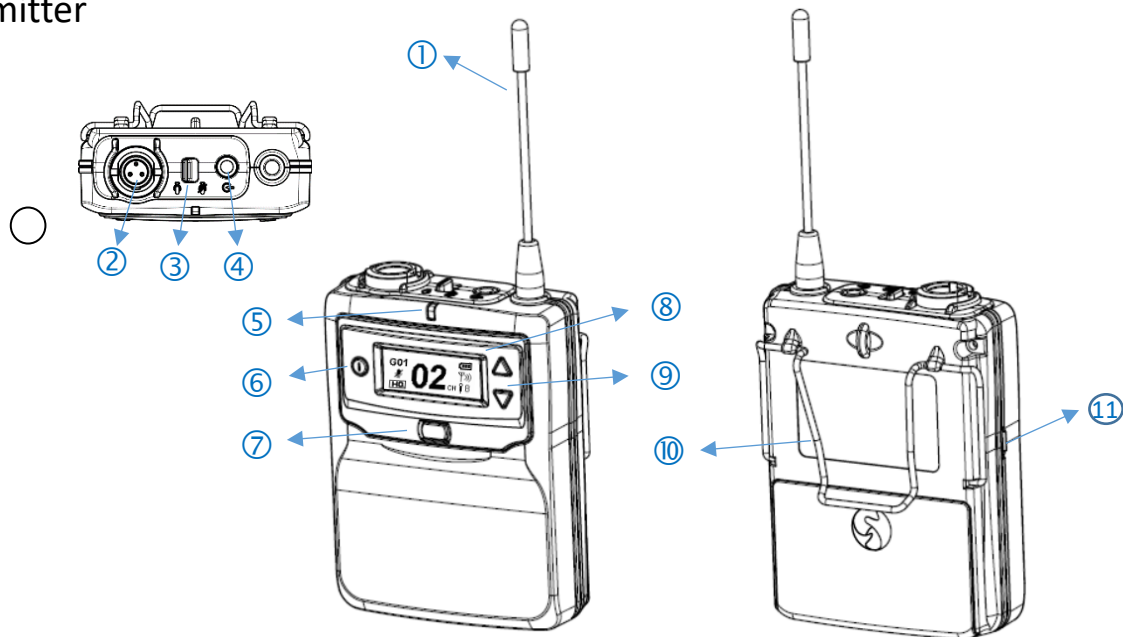


- ① Dual bendable whip antenna
- ② Line (Aux) – Out jack
- ③ Headphone jack
- ④ Rx LED indicator
- ⑤ Set button
- ⑥ Power button
- ⑦ Backlit screen

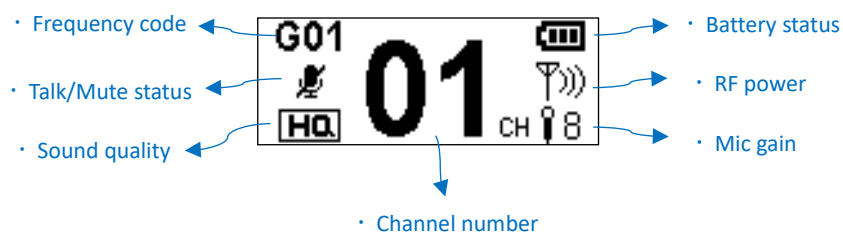


- ⑧ Up ▲ / Down ▼ button
- ⑨ Shoe adapter SM-9
- ⑩ Belt clip
- ⑪ Charging port

## Bodypack Transmitter

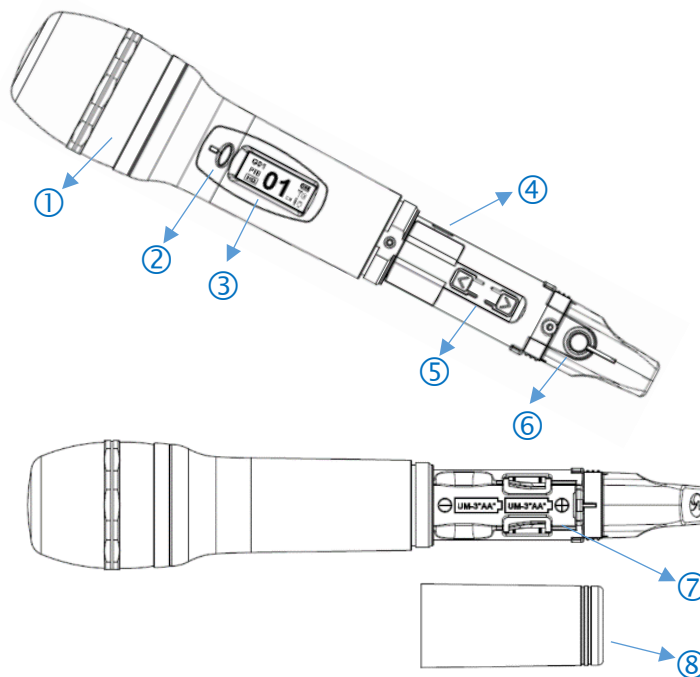


- ① Whip antenna
- ② XLR Microphone jack
- ③ Talk / Mute switch
- ④ Line (Aux) – In jack
- ⑤ Tx / Talk LED indicator
- ⑥ Set button
- ⑦ Power button
- ⑧ Backlit screen

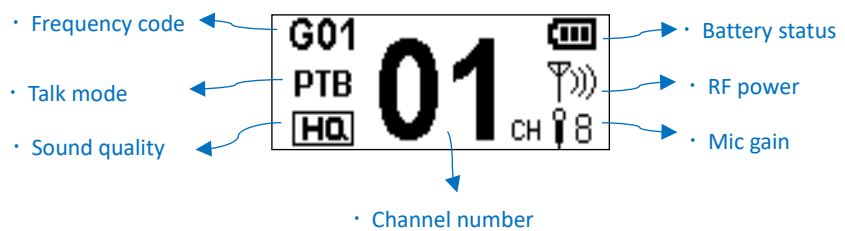


- ⑨ Up ▲ / Down ▼ button
- ⑩ Belt clip
- ⑪ Charging port

## Handheld microphone *optional*



- ① Dynamic capsule
- ② Talk / Mute button
- ③ Backlit screen



- ④ Charging port
- ⑤ Left ◀ / Right ▶ button
- ⑥ Power button
- ⑦ Battery compartment
- ⑧ Battery cover

## ■ Operation

**Inserting batteries** Insert 2 AA alkaline or Ni-MH rechargeable batteries into battery compartment of receiver, transmitter or handheld microphone.



Do not mistakenly recharge alkaline batteries via charging cable on the device. Okayo will accept no liability for any potential damage due to misuse charging behavior.

**Powering on** Press and hold the power button for 1 second to turn the device on.

**Adjusting channels manually** Bodypack Transmitter:

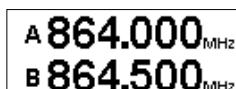
1. Press and hold the set button for 1 second until the backlit screen turns to white and channel number flashes.
2. Press ▲ or ▼ button to select preferred channel.
3. Once newly selected channel is determined, press the set button again to confirm the selection. New channel stops flashing and backlit screen is back to orange.

Handheld Microphone:

1. Press and hold ◀ or ▶ button for 1 second until the backlit screen turns to white and channel number flashes.
2. Press ◀ or ▶ button to select preferred channel.
3. Newly selected channel will be confirmed after microphone is idled for 2 seconds. New channel stops flashing and backlit screen is back to orange.

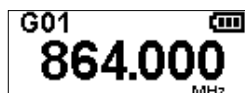
**Checking frequency of selected channel**

Receiver



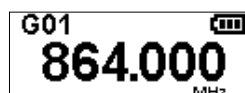
Short press the set button to check the frequency of selected channel.

Bodypack  
Transmitter



Short press the set button to check the frequency of selected channel.

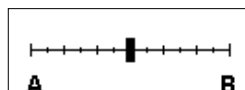
Handheld  
Microphone



Short press ◀ or ▶ button to check the frequency of selected channel.

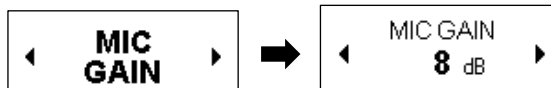
**Tuning volume to  
appropriate level**

Receiver



Short press the ▲ button to increase volume of channel A but decrease that of channel B and vice versa.

Bodypack  
Transmitter



1. Press and hold both set and power buttons simultaneously to turn the transmitter on and enter the “setting” mode.
2. Press ▲ or ▼ button to scroll the options. Find “MIC GAIN” and press the set button again.
3. Default mic gain Mid shows up. Press ▲ or ▼ button to define preferred level. Press the set button to confirm and leave the setting of MIC GAIN.
4. To leave the “setting” mode, press ▲ or ▼ button to find “EXIT” and press the set button again.

Handheld  
Microphone



1. Press and hold both ◀ and power buttons simultaneously to turn the microphone on and enter the “setting” mode.
2. Press ◀ or ▶ button to scroll the options. Find “MIC GAIN” and press the power button again.

3. Default mic gain Mid shows up. Press ◀ or ▶ button to define preferred level. Press the power button to confirm and leave the setting of MIC GAIN.
4. To leave the “setting” mode, press ◀ or ▶ button to find “EXIT” and press the power button again.



Kindly note listening at high volume for long periods may damage your hearing.

### Connecting correctly to camera or recording device

#### Receiver

1. Mount the receiver on the camera or recording device via shoe adapter SM-9.
2. Connect supplied 1/8”to XLR or 1/8” to 1/8” cable (upon preference) to camera or recording device.
3. Connect headphone with the phone jack on the receiver.

#### Transmitter

Connect supplied lapel microphone with the phone jack on the transmitter.



Make sure both receiver and transmitter are at same channel for correct communication.

### Powering off

Press and hold the power button for 2 seconds to turn the device off.

### Charging via a micro-USB cable

Device will be off automatically when being connected with a micro-USB cable for battery charging.

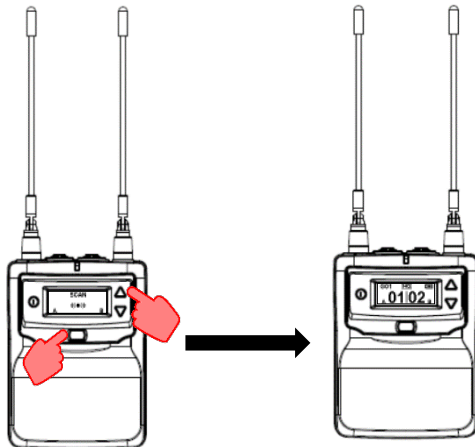


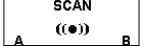
The micro-USB cable will not be a charging but a power-supply cable if device is manually turned on afterwards.

## ■ Advanced operation

### Finding clean channels

(SCAN mode)



1. Press and hold both ▲ and power button simultaneously to turn the receiver on .
2.  shows up. The receiver is at “SCAN” mode. Please wait for appr. 20 seconds until receiver finds clean channels.
3. When clean channels are found, the receiver will leave the SCAN mode and be back to home screen automatically.

### Pairing receiver and transmitter automatically

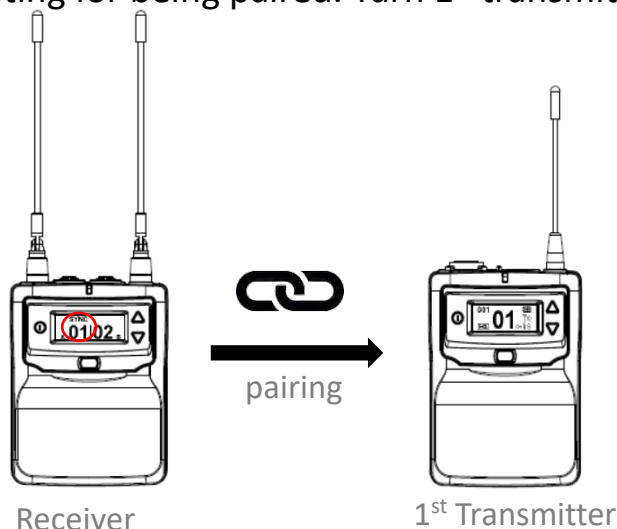
(SYNC mode)

1. Short press the power button again when the receiver is on.



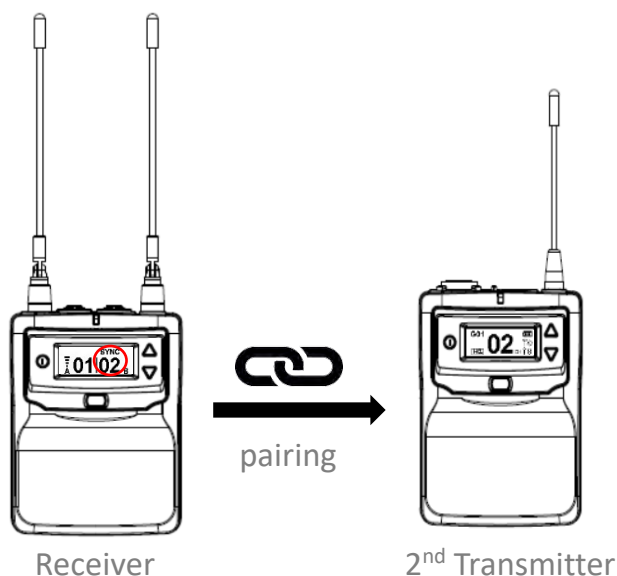
### Pair 1<sup>st</sup> transmitter

2. Firstly, “SYNC” shows up on top of channel A which means the receiver is waiting for being paired. Turn 1<sup>st</sup> transmitter on within 20 seconds.

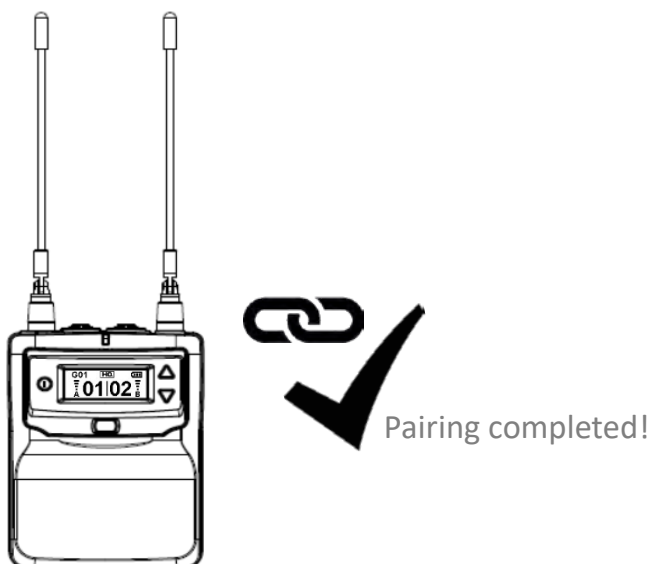




- Pair 2<sup>nd</sup> transmitter**      3. After 1<sup>st</sup> transmitter is paired, "SYNC" will show up on top of channel B. Turn 2<sup>nd</sup> transmitter on within 20 seconds.



- Pairing is done**      4. When two pairing jobs are done, the receiver will leave SYNC mode and be back to home screen automatically.



## Adjusting settings (SETTING mode)

### Receiver



1. Press and hold both set and power buttons simultaneously to turn the receiver module on.
2. “Setting” mode will be entered successfully for custom adjustments.
3. Press ▲ or ▼ button to scroll options. See setting menu below..

• <b>Quality</b>	This refers to sound quality of the receiver. ① HQ: Higher ② Q (default): Regular <i>Note: Only HQ is available in 902~928MHz.</i>
• <b>Squelch</b>	This refers to signal quality of the receiver. The better the signal quality, the shorter the operation range. ① Hi: Operation range will be shorter. ② Lo (default): Operation range will be greater.
• <b>Output level</b>	① LINE (default) ② MIC
• <b>Channel output</b>	① A+B (default): Both transmitter A and B will be heard. ② A/B: Either transmitter A or B will be heard.
• <b>Receiver mode</b>	① Dual Rx (default) ② Single Rx
• <b>Exit</b>	-

4. Press the set button again to confirm the selection and leave the setting..
5. To leave the SETTING mode, find “EXIT” on the menu and press the set button.

## Transmitter

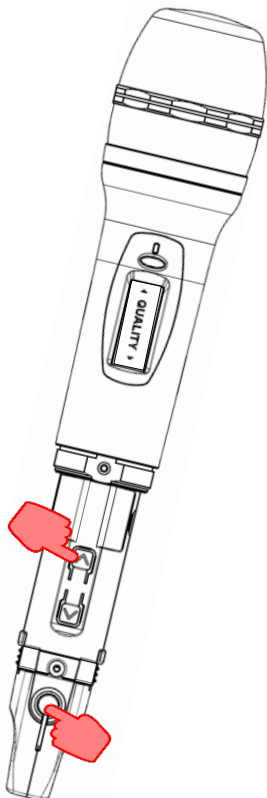


1. Press and hold both set and power buttons simultaneously to turn the transmitter on.
2. “Setting” mode will be entered successfully for custom adjustments.
3. Press ▲ or ▼ button to scroll options. See setting menu below..

· <b>Quality</b>	This refers to sound quality of the receiver. ① HQ: Higher ② <b>Q (default)</b> : Regular <i>Note: Only HQ is available in 902~928MHz.</i>
· <b>RF power</b>	Power definition will vary upon countries. ① Hi: Operation range will be greater. ② <b>Lo (default)</b> : Operation range will be shorter.
· <b>Mic gain</b>	① 1~16 dB ( <b>Default: 8 dB</b> )
· <b>Exit</b>	-

4. Press the set button again to confirm the selection and leave the setting..
5. To leave the SETTING mode, find “EXIT” on the menu and press the set button.

## Handheld microphone



1. Press and hold both ◀ and power buttons simultaneously to turn the microphone on.
2. “Setting” mode will be entered successfully for custom adjustments.
3. Press ◀ or ▶ button to scroll options. See setting menu below.

• <b>Quality</b>	This refers to sound quality of the receiver. ① HQ: Higher ② <b>Q (default)</b> : Regular <i>Note: Only HQ is available in 902~928MHz.</i>
• <b>Talk mode</b>	① <b>PTB (default)</b> : Push to bolt ② PTT: Push to talk ③ PTM: Push to mute
• <b>RF power</b>	Power definition will vary upon countries. ① Hi: Operation range will be greater. ② <b>Lo (default)</b> : Operation range will be shorter.
• <b>Mic gain</b>	① 1~16 dB ( <b>Default: 8 dB</b> )
• <b>Exit</b>	-

4. Press the power button again to confirm the selection and leave the setting.
5. To leave the SETTING mode, find “EXIT” on the menu and press the power button.

**Back to default**

1. When device is off, press and hold **▲**, **▼** and **power** buttons altogether to turn the receiver, transmitter or microphone on.
2. Device will be back to default settings automatically.
3. Followings list default settings of all Receiver models.

**Dual-Antenna  
Receiver**

- Channel: 01
- Quality: Q
- Squelch: Low
- Output level: Line
- Channel output: A+B
- Receiver mode: Dual Rx

**Bodypack Transmitter**

- Channel: 01
- Quality: Q
- RF power: Low
- Mic gain: 8

**Handheld microphone**

- Channel: 01
- Quality: Q
- Talk mode: PTB
- RF power: Low
- Mic gain: 8

## ■ Troubleshooting

*Not ready*

## ■ Specification

*Not ready*