COMICA

PROFESSIONAL AUDIO EQUIPMENT

CVM-WM200

UHF 80-Channels Wireless Microphone

USER MANUAL

Foreword

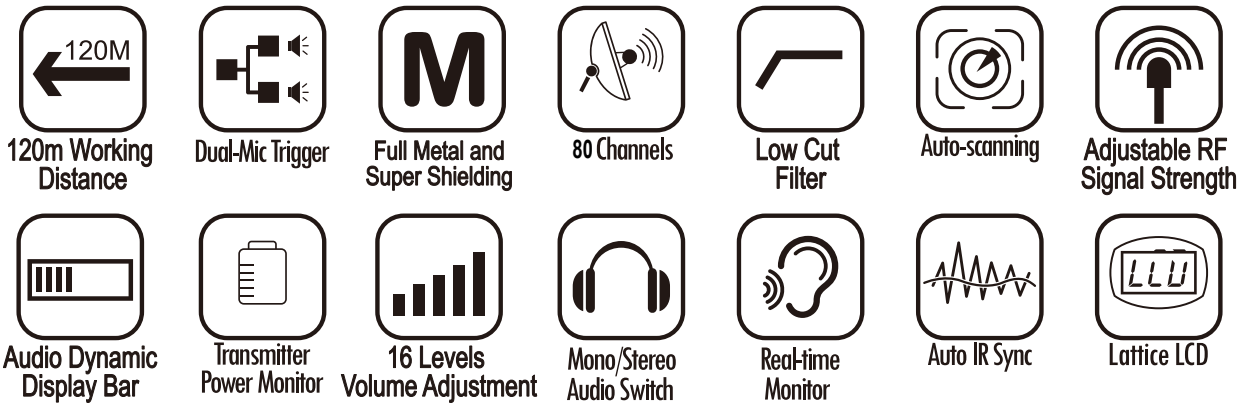
Thanks for purchasing COMICA WM200 UHF wireless microphone;

WM200 is an all-metal wireless microphone with dual-transmitter triggered by one receiver, with two AA batteries, it utilizes UHF wireless FM technology and LED high-resolution lattice screen, 80channels in total, 16-level adjustable volume, and integrated into LCF（Low cut filter) , Auto-scanning, Auto IR Channel-match, stereo / mono switchable audio mode, RF signal strength adjustment, MIC/LINE IN input dual selection, power monitoring at receiver end, sound pickup dynamic display, backlight adjustment and other functions, at the same time with strong shielding anti-noise performance, it's a high-quality microphone to broadcasting level;

To ensure the smooth use and safety of the product, please carefully read this instruction before using and properly assemble and operate.

Main Features

. Dual Transmitters Triggered by One Receiver, A/B Double Group Options;
. 80 Channels, Used for Multiple Devices Working Together;
. Working Distance is Up to 120m (in open area, up to 80m in Barrier Area);
. LCF Low Cut Filtering Mode;
. Auto-scanning for Quick Channel Selection;
. Manual or Auto IR Sync;
. Adjustable RF Signal Strength;
. Audio Dynamic Display Bar;
. 16 Levels Volume Adjustment;
. Transmitter Power Monitor;
. Mono/Stereo Switchable Output Modes;
. Low-consumption, Super-long Standby Time;
. Lattice LCD Display, High Resolution;
. Full Metal Manufacturing, Excellent Shielding;

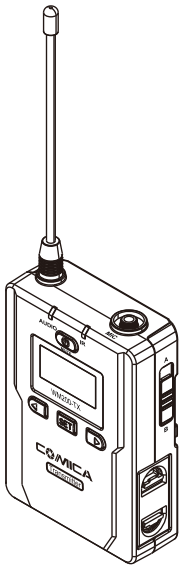


Notice

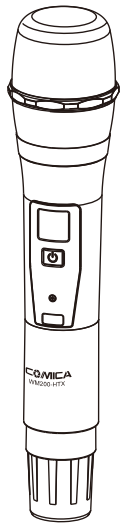
- ⚠ When using auto IR sync, please stay within one meter, otherwise the signal may be too weak and the sync will not be successful;
- ⚠ In the case of stereo/mono mode switch, please preset the mode before using to avoid the transient interference caused by switching during usage;
- ⚠ The antenna will affect the working distance. Please protect the antenna and avoid any man-made damage;
- ⚠ The working distance will be affected by the surrounding environment. Please try to keep the environment open without interference during usage, and close the WIFI of the device itself;
- ⚠ When using this product in a short distance, it is recommended to set RF strength at ‘LOW’ to reduce the power consumption;
- ⚠ For smart phone shooting, customers must separately purchase a TRS-TRRS audio converting cable,and pay attention to set the mobile phone mode to 'Flight Mode' to avoid incoming call interference;
  (It does not support the original recording system of some android systems, the third-party APP is recommended to be used in this case);
- ⚠ Please keep this product in dry environment;
- ⚠ Do not expose the device in rain or humid environment, otherwise there will be a danger of short circuit;

Package Contents

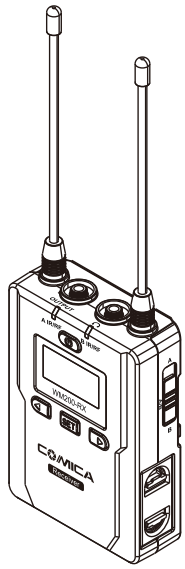
Main Parts:



Lavalier Transmitter (TX)



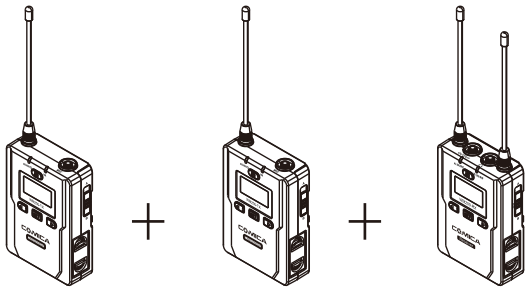
Hand-held Transmitter (HTX)



Receiver (RX)

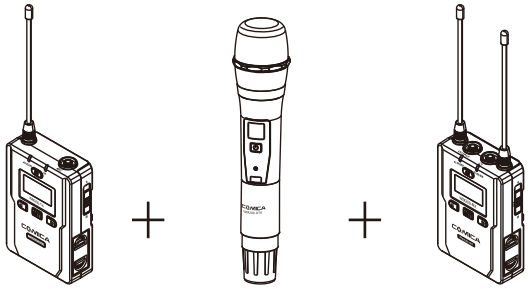
Multiple Selections:

WM200(A) = 2TX + RX



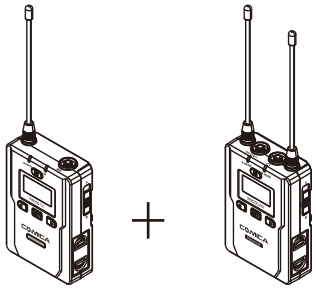
TX + TX + RX

WM200(B) = TX + HTX + RX



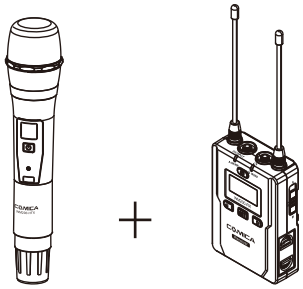
TX + HTX + RX

WM200(C) = TX + RX



TX + RX

WM200(D) = HTX + RX



HTX + RX

Accessories:

① 3.5mm Mic Audio Input Cable
② 3.5mm-3.5mm Audio Output Cable
③ 3.5mm-XLR Audio Output Cable
④ Belt Clip
⑤ Camera Cold-shoe Mount
⑥ Wind Muff
⑦ Portable Box
⑧ User Manual
⑨ Warranty Card

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⑨

The accessories of each combination include：

WM200(A)= ①x2 + ② + ③ + ④x3 + ⑤x3 + ⑥x2 + ⑦ + ⑧ + ⑨

WM200(B)= ① + ② + ③ + ④x2 + ⑤x2 + ⑥ + ⑦ + ⑧ + ⑨

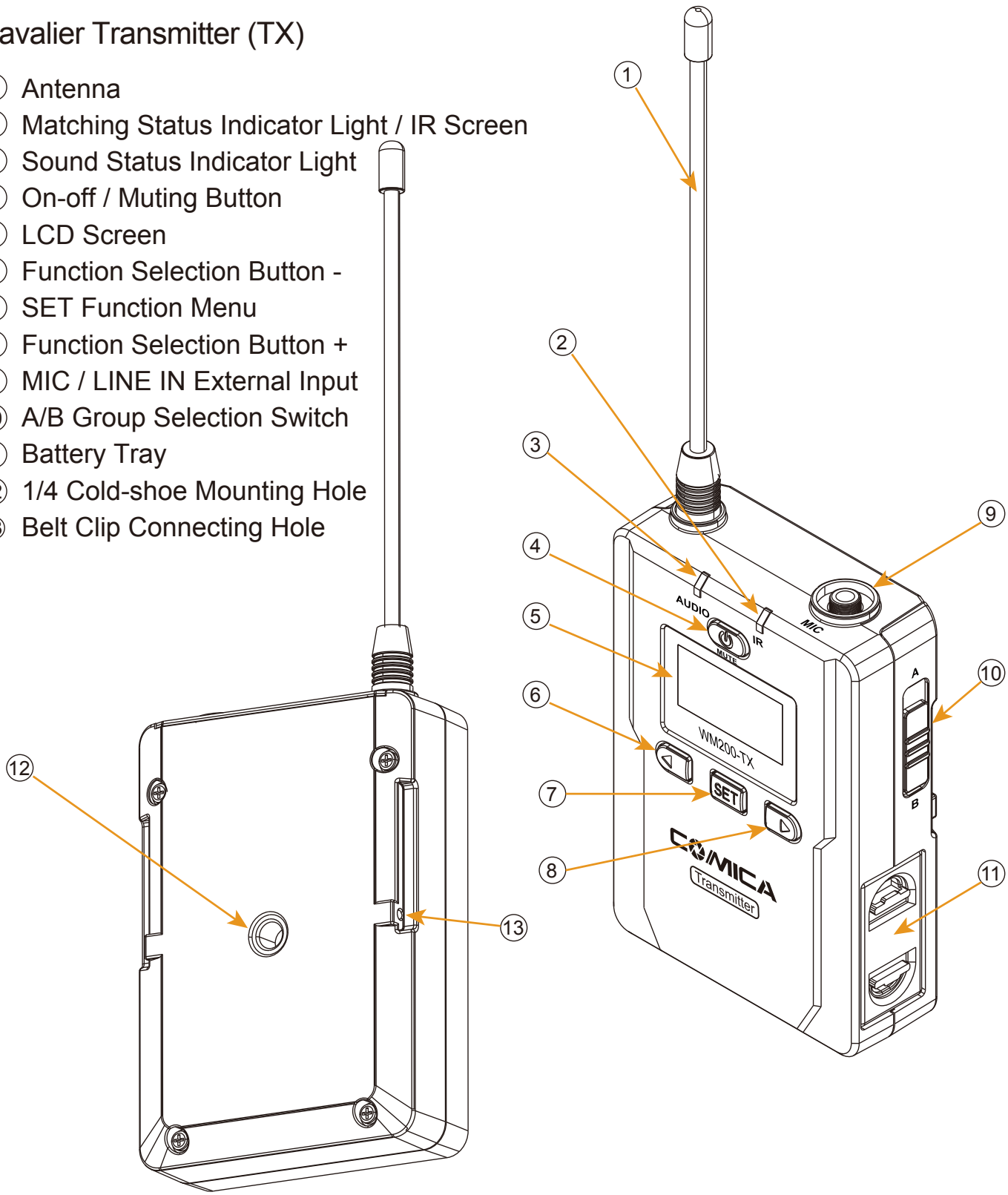
WM200(C)= ① + ② + ③ + ④x2 + ⑤x2 + ⑥ + ⑦ + ⑧ + ⑨

WM200(D)= ② + ③ + ④ + ⑤ + ⑥ + ⑦ + ⑧ + ⑨

Components

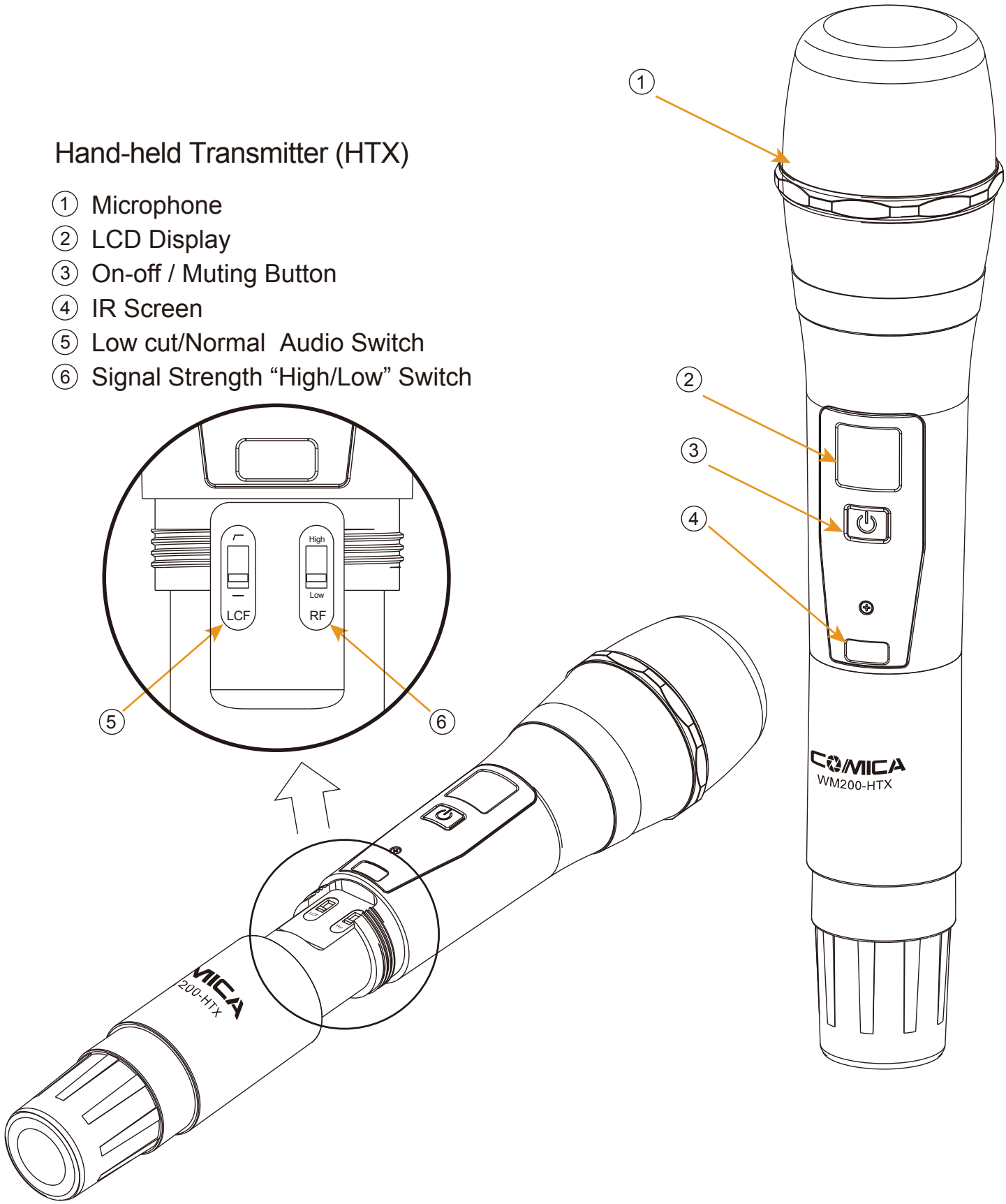
Lavalier Transmitter (TX)

① Antenna
② Matching Status Indicator Light / IR Screen
③ Sound Status Indicator Light
④ On-off / Muting Button
⑤ LCD Screen
⑥ Function Selection Button -
⑦ SET Function Menu
⑧ Function Selection Button +
⑨ MIC / LINE IN External Input
⑩ A/B Group Selection Switch
⑪ Battery Tray
⑫ 1/4 Cold-shoe Mounting Hole
⑬ Belt Clip Connecting Hole



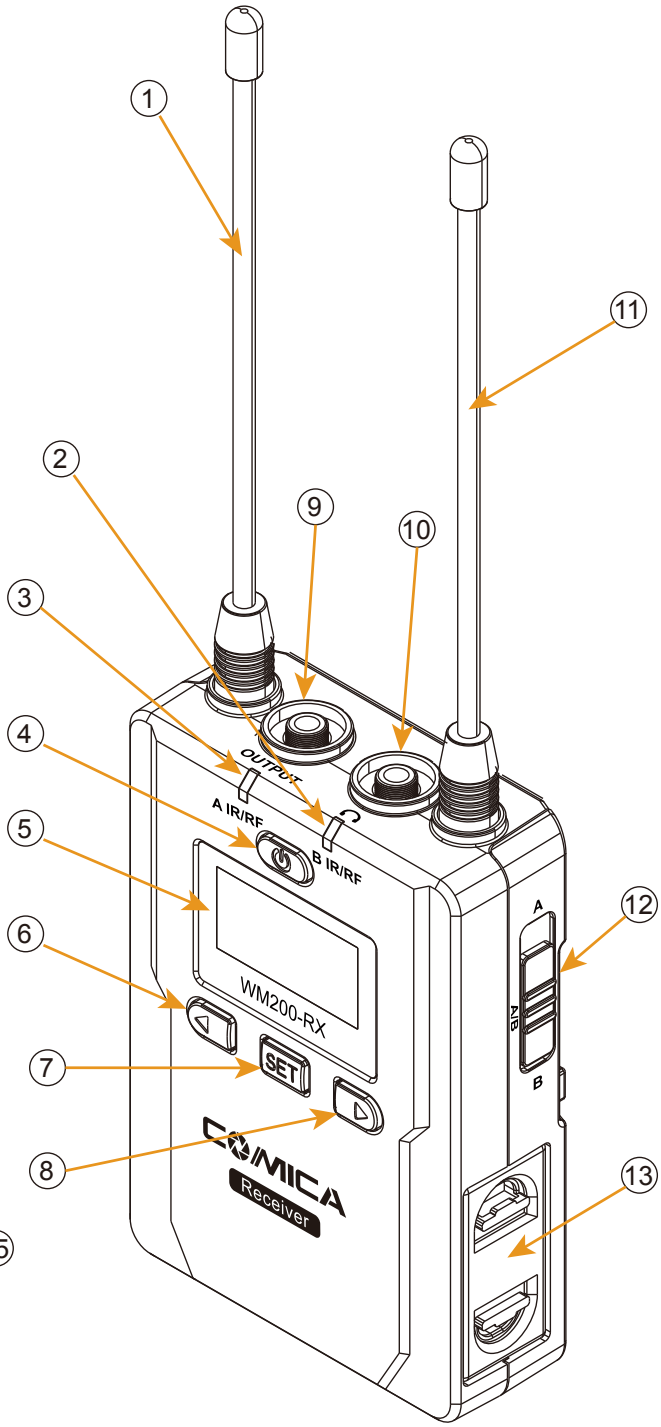
Hand-held Transmitter (HTX)

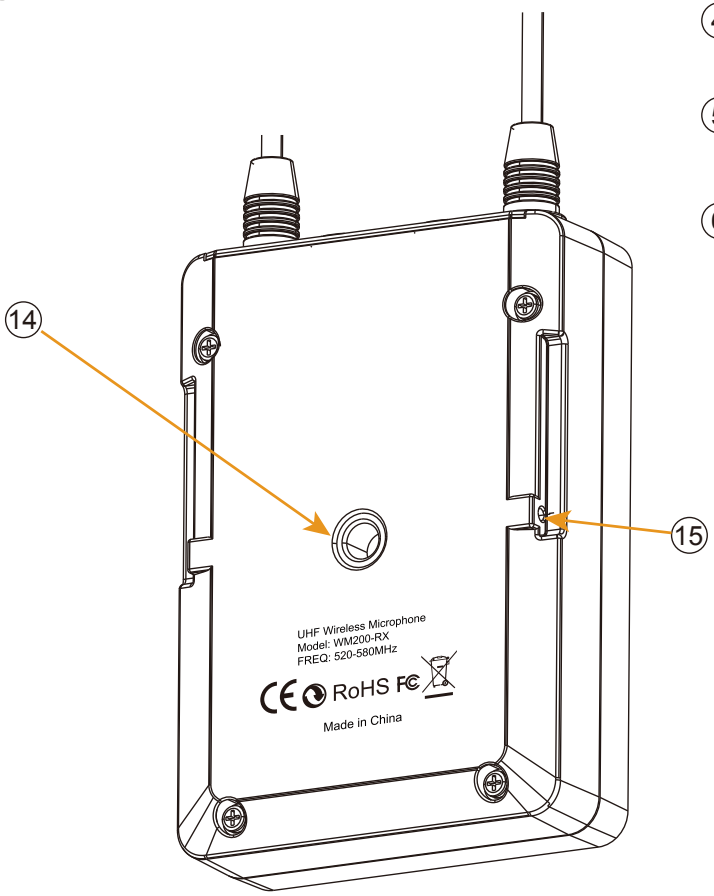
① Microphone
② LCD Display
③ On-off / Muting Button
④ IR Screen
⑤ Low cut/Normal Audio Switch
⑥ Signal Strength “High/Low” Switch



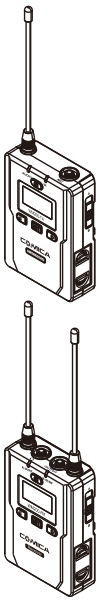
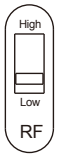
Receiver (RX)

① Group A Antenna
② Group B Working Status Indicator Light
③ Group A Working Status Indicator Light
④ On/Off Switch
⑤ LCD Screen
⑥ Function Selection Button -
⑦ SET Function Menu
⑧ Function Selection Button +
⑨ 3.5mm Audio Output Socket
⑩ 3.5mm Monitoring Socket
⑪ Group B Antenna
⑫ A、B or A+B Group Selection Switch
⑬ Battery Tray
⑭ 1/4 Cold-shoe Mounting Hole
⑮ Belt Clip Connecting Hole





Function Button Instruction

Lavalier Transmitter / Receiver 	On-off / Muting Button	Long Press	Power On / Off
		Short Press	Muting Mode（This function is only for transmitter, when the mute function is turned on and the screen is lighted up）
	SET Function Menu	Long Press	Enter the function adjustment menu
		Short Press	1.Confirm the selected function 2.Exit the function adjustment menu
	+ Button	Short Press	Function Adjustment (+)
	- Button	Short Press	Function Adjustment (-)
Hand-held Transmitter	On-off / Muting Button	Long Press	Power On / Off
		Short Press	Muting Mode（Only goes into effect when the screen lights up）
	“Low cut/ Normal” Sound Switch	Push-up	Low cut
		Push-down	Normal
	Signal Strength “High/Low” Switch 	Push-up	Signal strength--high
		Push-down	Signal strength--low

Signal strength high / low switching effect:
With high signal strength, the wireless working distance is up to 80-120M, high power consumption, battery life is short; With low signal strength, the wireless working distance is up to 30-60M, low power consumption, the battery can be used for a long time.

Low cut function:

Appropriately remove the low frequency part of the sound, reduce the ambient noise of the low frequency part, to make sound more clean and clear.

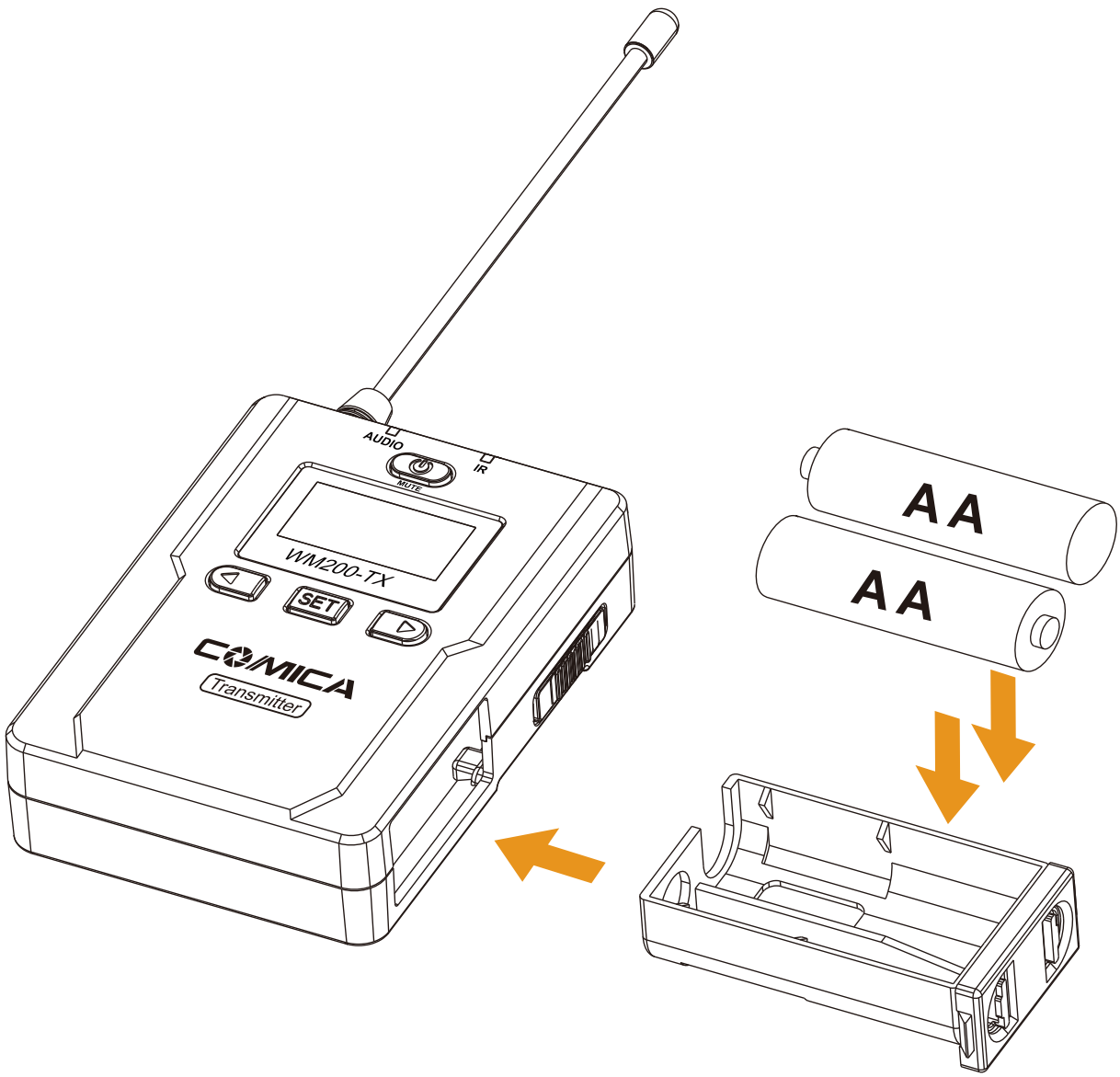
Indicator Light Instruction

<table>
<tr><td rowspan="5">Transmitter</td><td rowspan="3">AUDIO</td><td>Green Light Keeps On</td><td>Normal Recording Status
（This state is only for the transmitter, when the channel matches successfully, the receiver can pick up the sound）</td></tr>
<tr><td>Red Light Keeps On</td><td>Muting Mode</td></tr>
<tr><td>Red Light Flicker</td><td>Low-power reminder</td></tr>
<tr><td rowspan="2">IR</td><td>Green Light Keeps On</td><td>Channel matches
（No matter the channel matches or not）</td></tr>
<tr><td>Red Light Flicker</td><td>Channel in the match...
（only for IR Sync）</td></tr>
<tr><td rowspan="4">Receiver</td><td rowspan="4">A IR/RF
B IR/RF</td><td>Green Light Keeps On</td><td>Normal working status after the channel matches</td></tr>
<tr><td>Green Light Flicker</td><td>Channel doesn’t match</td></tr>
<tr><td rowspan="2">Red Light Flicker</td><td>Channel in the match...
（only for IR Sync）</td></tr>
<tr><td>Low-power reminder</td></tr>
<tr><td>Red light keeps on</td><td>Group closed</td></tr>
</table>

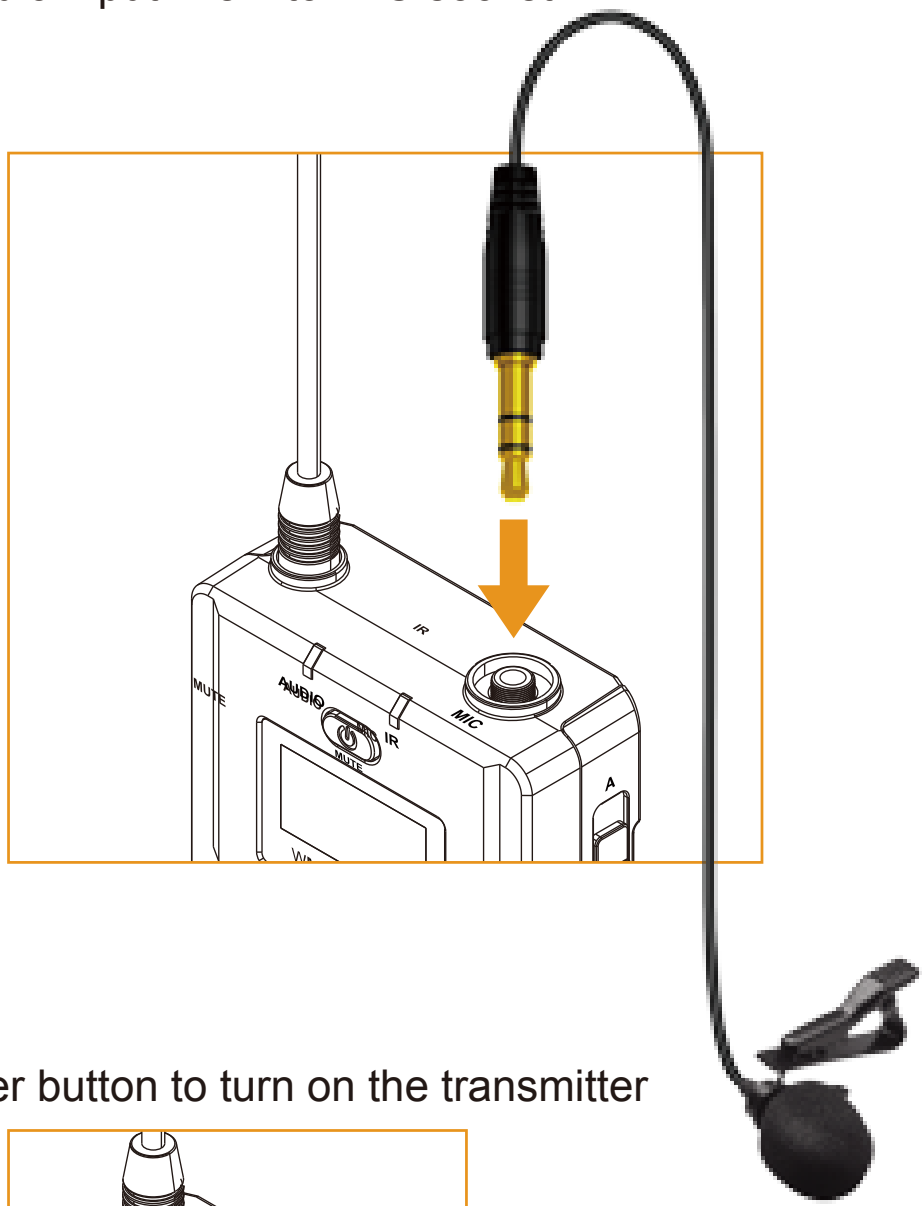
A IR/RF： Group A Working Status Indicator
B IR/RF： Group B Working Status Indicator

Lavalier Transmitter

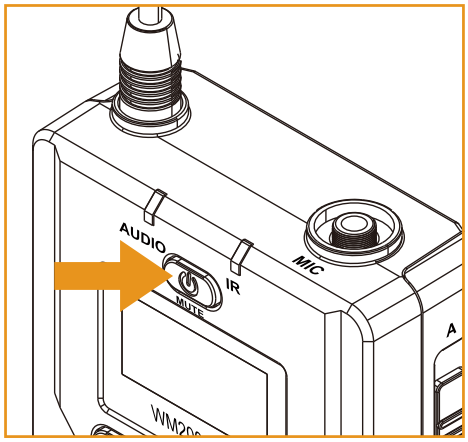
1. Install two AA batteries into the battery tray according to the positive and negative electrode



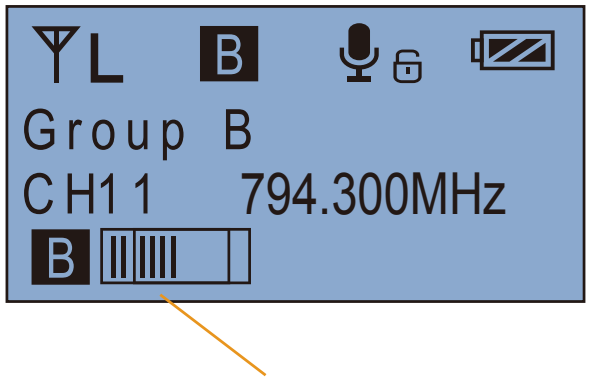
2. Insert the 3.5mm audio input line into MIC socket



3. Long press the power button to turn on the transmitter

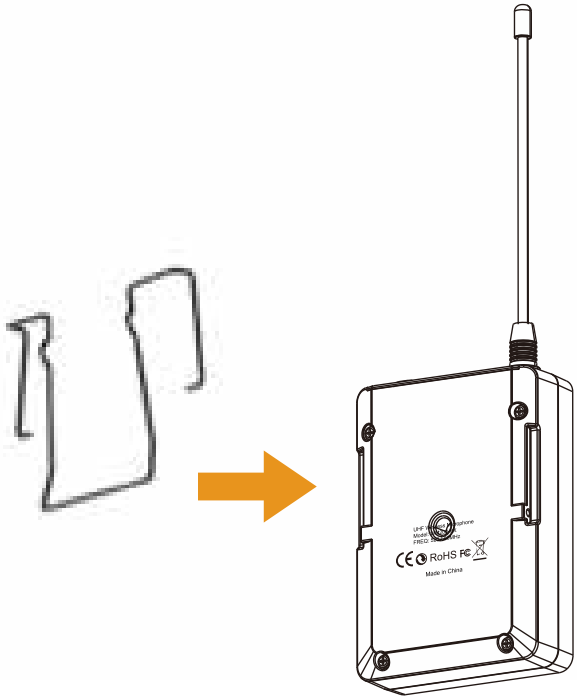


4. Target the MIC to the audio source and check the working status according to the volume indicator on the screen



Audio Dynamic Display Bar

5. Connect the belt clip to the connection hole

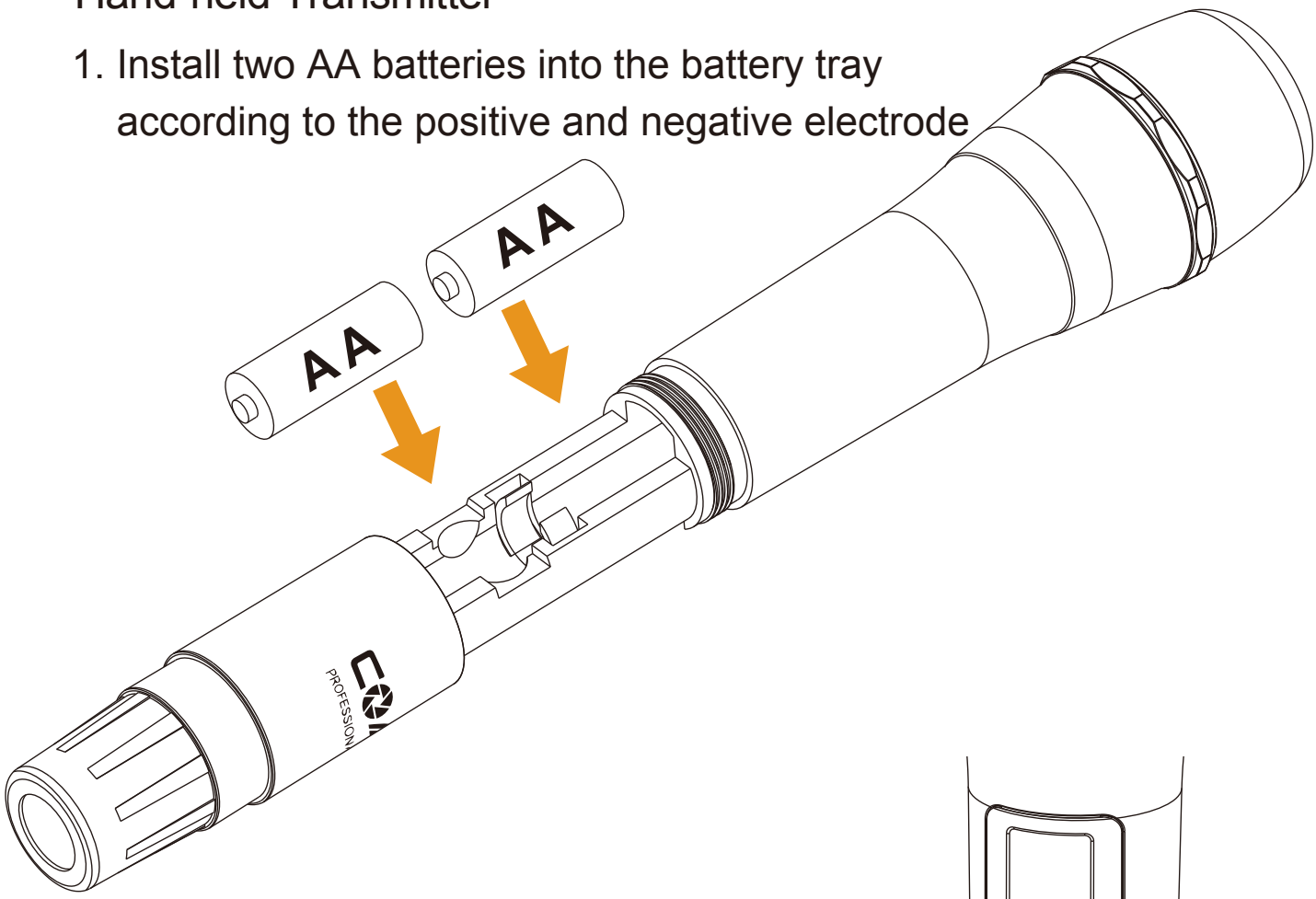


6. After the channel matching with the receiver, it can be used

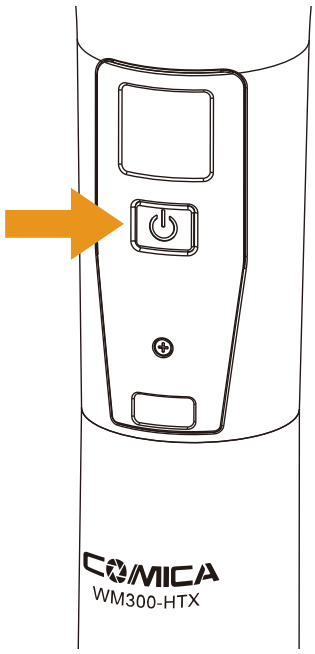
☞ Please refer to screen operation instruction for channel matching.

Hand-held Transmitter

1. Install two AA batteries into the battery tray according to the positive and negative electrode



2.Long press the button switch to turn on the hand-held transmitter

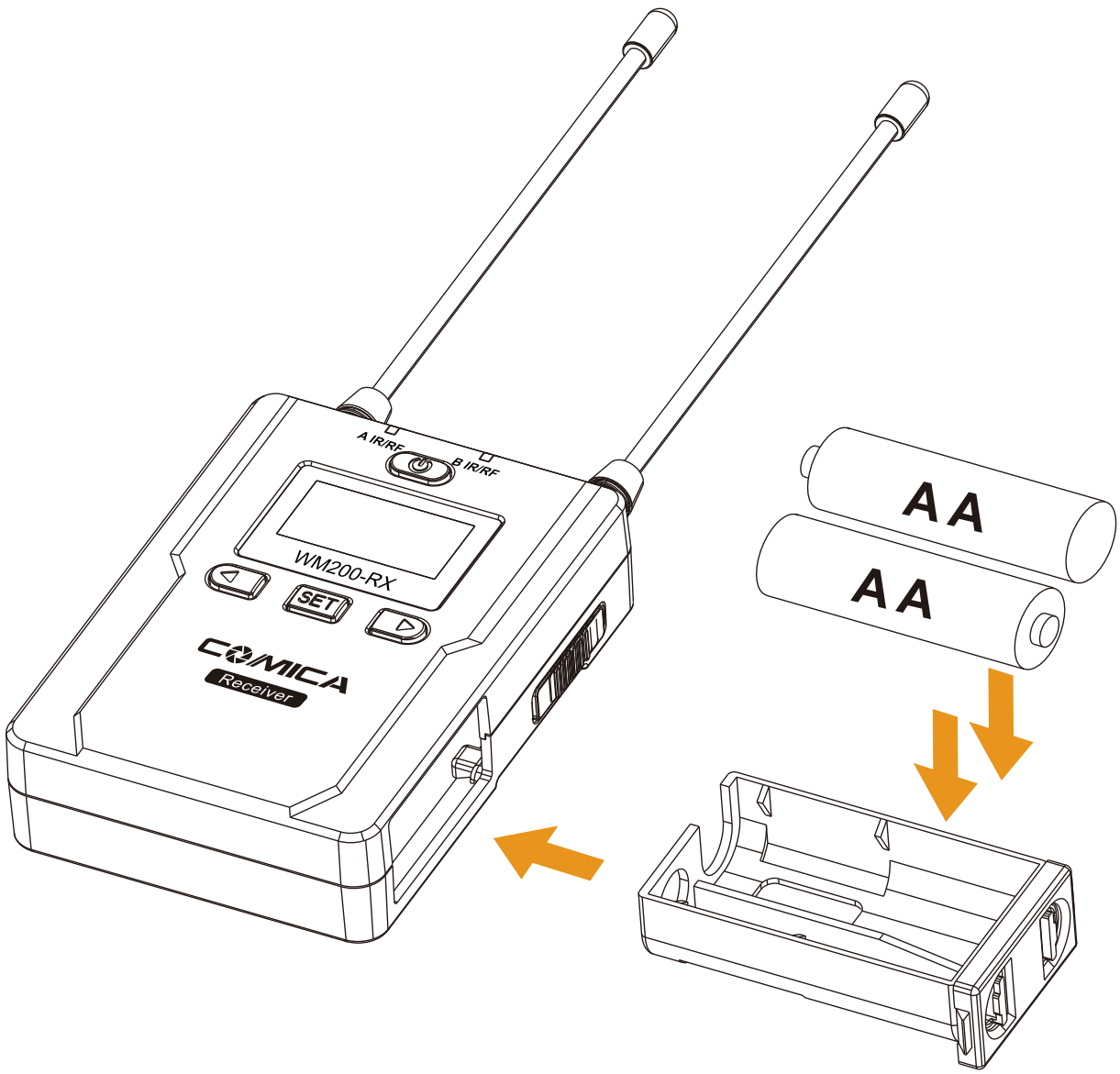


3. After the channel matching with the receiver, it can be used

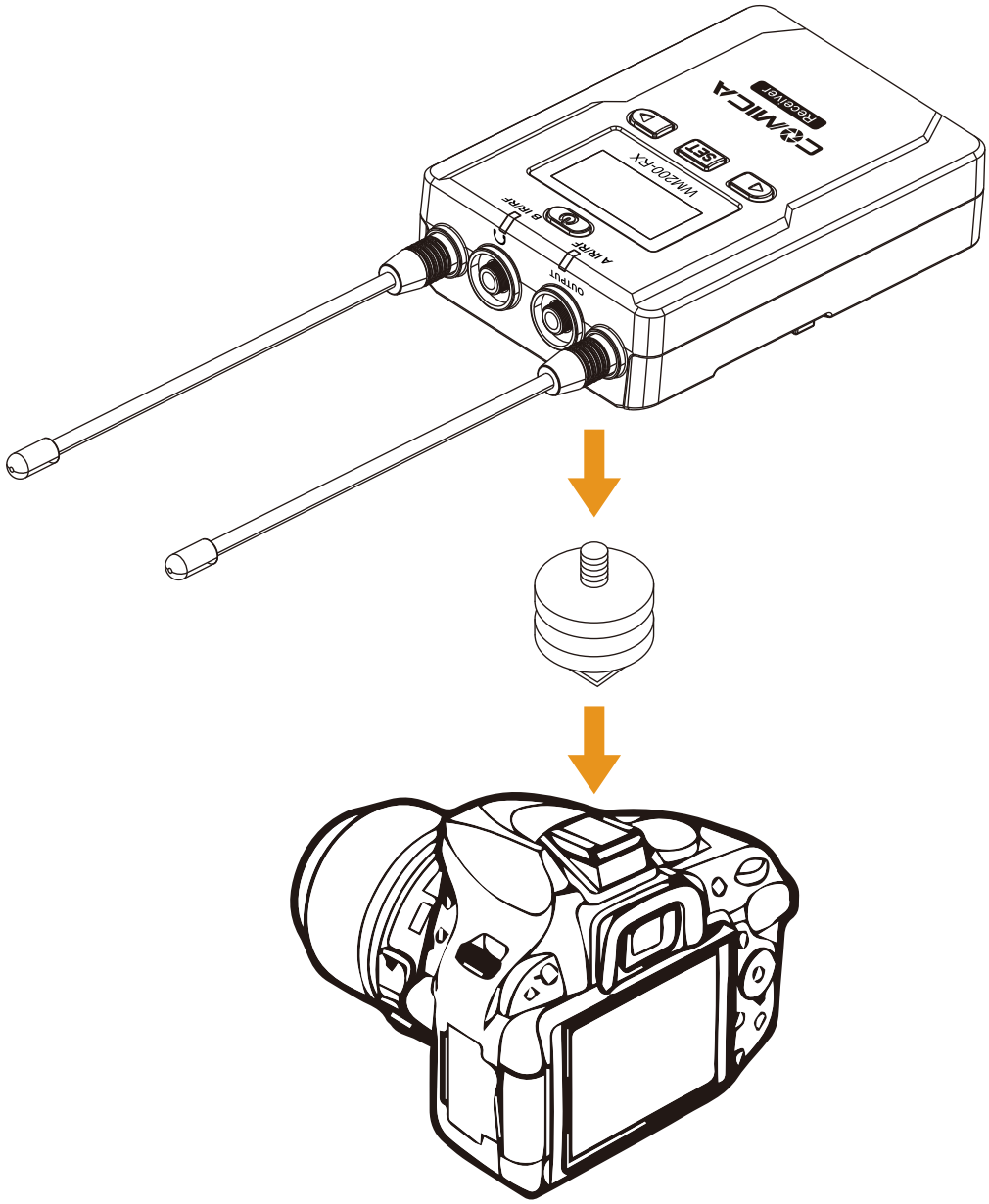
☞ Please refer to screen operation instruction for channel matching.

Receiver

1. Install two AA batteries into the battery tray according to the positive and negative electrode



2. Connect the receiver to the video device through the cold shoe



3. Connect one end of the 3.5mm-3.5mm audio OUTPUT line to the OUTPUT port of WM200RX and another end to the AUDIO INPUT port of the camera or camcorder.Insert the headphone into the 3.5mm monitoring port for real-time monitoring and then long press power button to trun on the receiver.

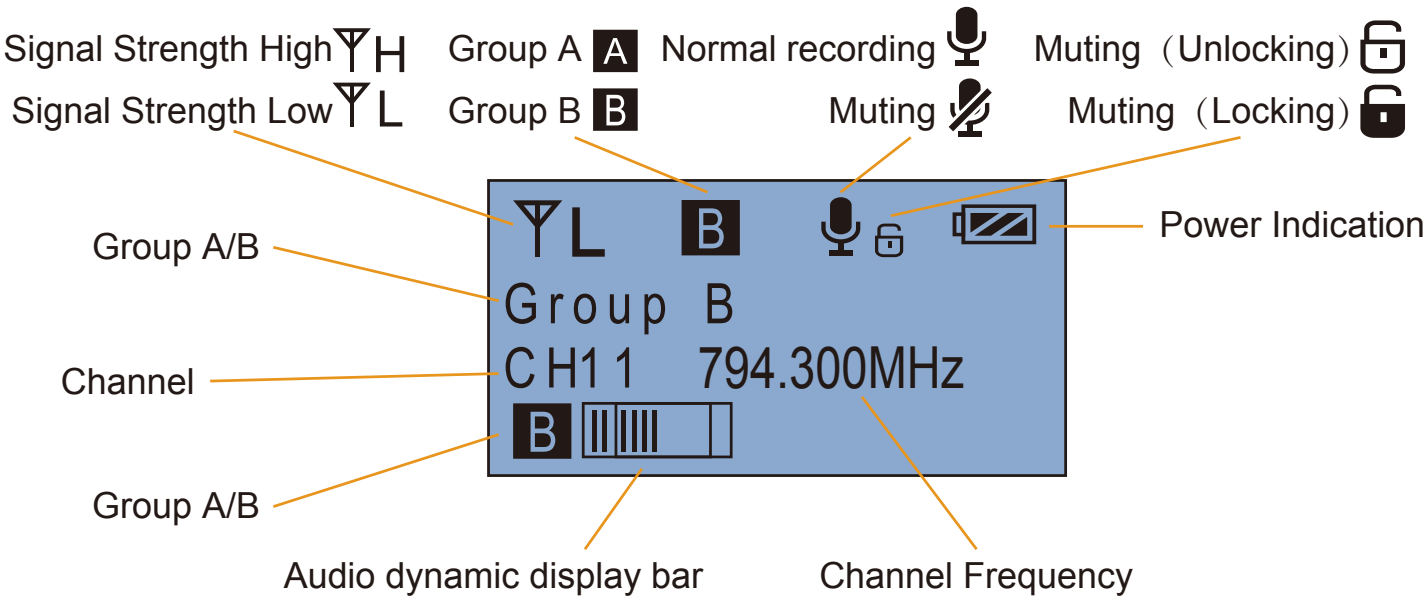
☞ Most DSLR cameras has 3. 5MM port, if you use the XLR camcorder, you need to use the 3. 5mm-XLR audio output line.

4. After the channel matching with the receiver, it can be used

☞ Please refer to screen operation instruction for channel matching.

Lavalier Transmitter

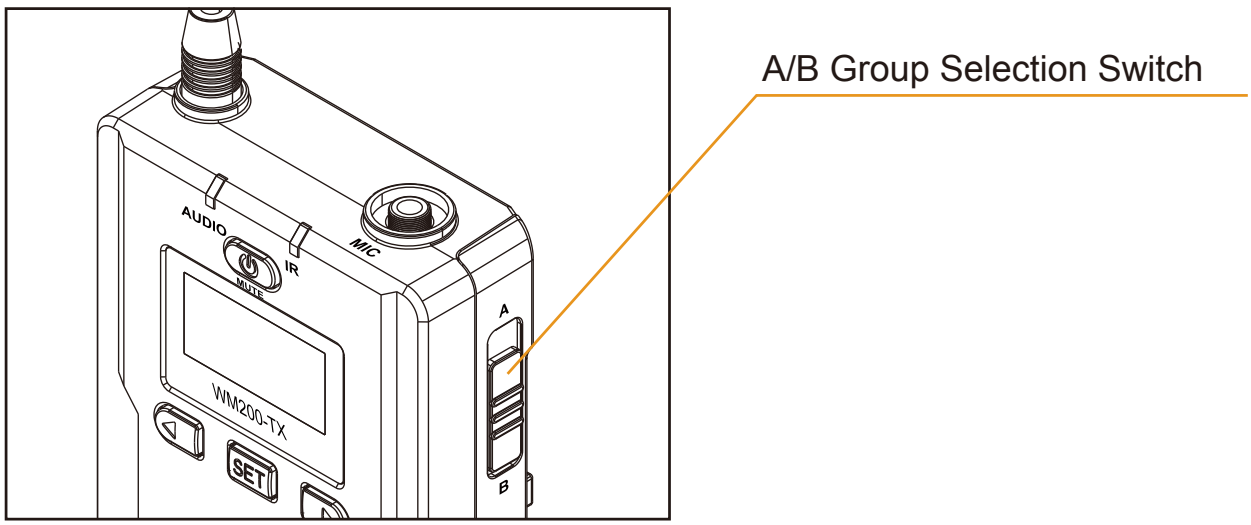
Screen Display Instruction

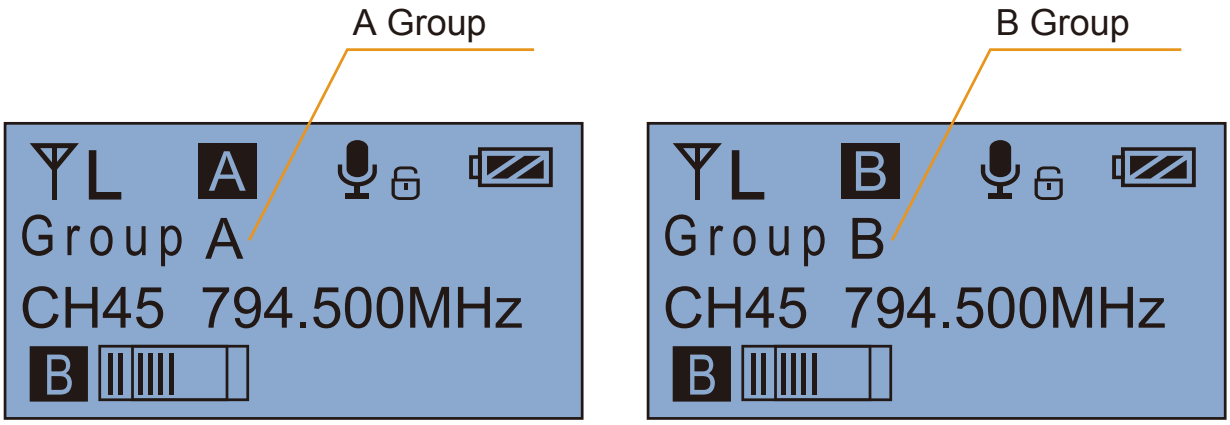


Operation Instruction

1. Group A/B Selection

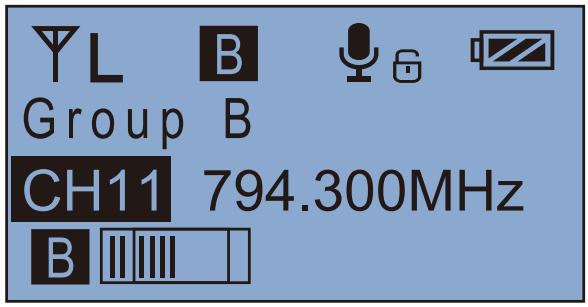
1.1 Use A/B Group selection switch to select the group, when push up to A, it will be Group A; when push to B, it will be Group B. You could choose Group A or Group B according to your demand.



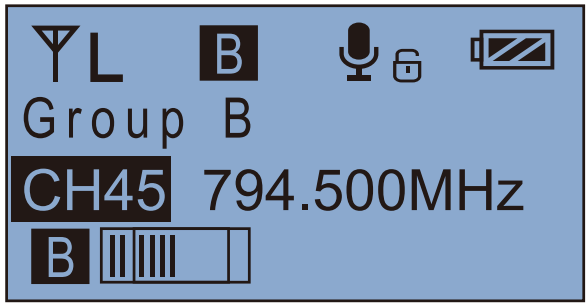


2.Manually Adjust the Channel of Transmitter

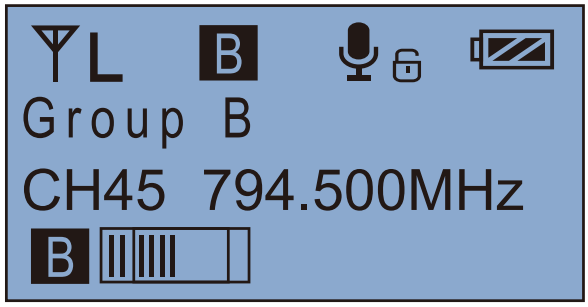
2.1 Long press SET button to CH setting display page



2.2 Short press ◁ ▷ button to select the channel

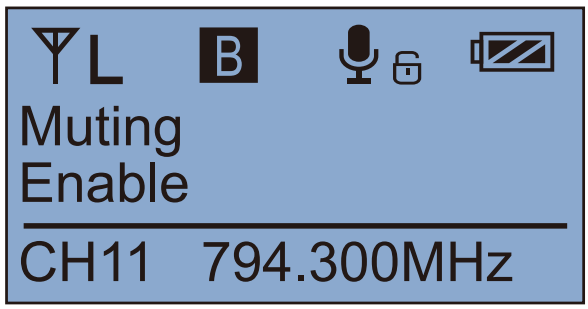


2.3 Short press SET button to confirm

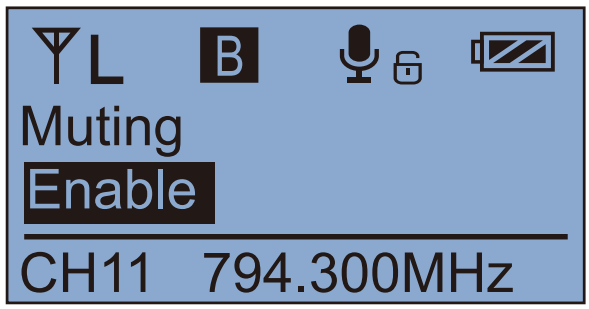


3. Muting Mode On/ Off

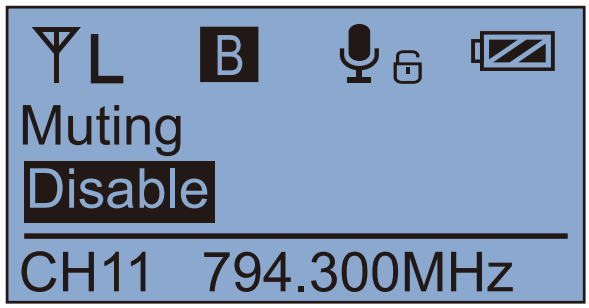
3.1 Press ◁ ▷ button to “ Muting ” display page



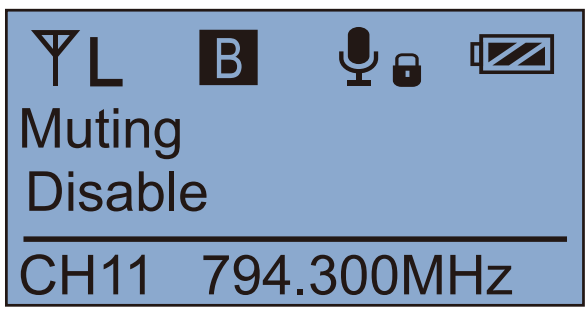
3.2 Long press SET button to “ Muting ” display page



3.3 Press ◁ ▷ button to select Muting mode on/ off



3.4 Short press SET button to confirm



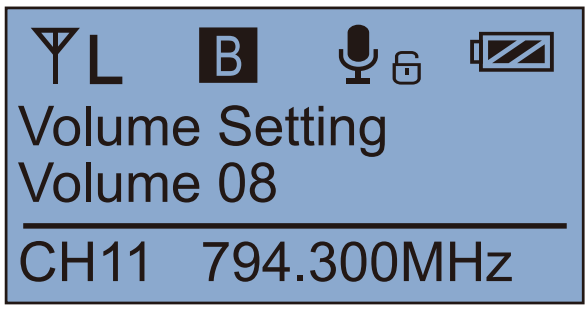
When set to “ Disable ”, the muting function cannot be used, the icon is:

When set to “ Enable ”, the muting function works, the icon is:

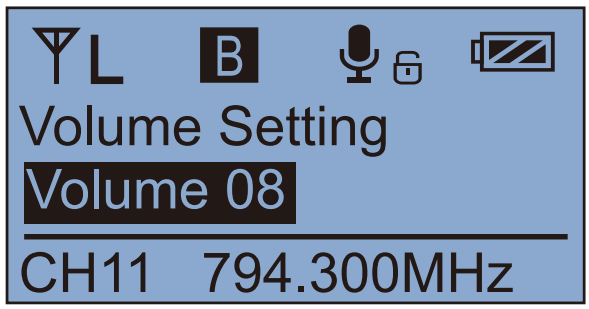
The muting mode can be controlled only when the screen is on, press any button to light the screen and then press the button to switch the muting mode.

4. Volume Adjustment at Transmitter End

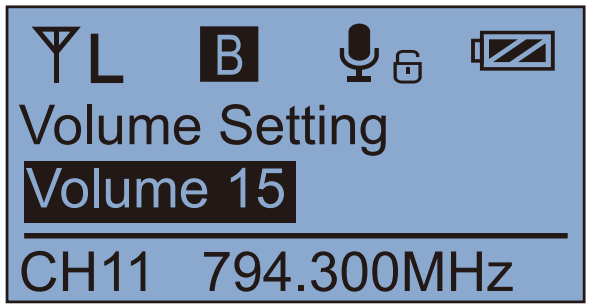
4.1 Press ◁ ▷ button to “ Volume Setting ” display page



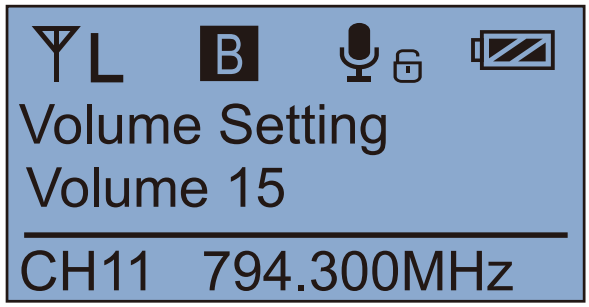
4.2 Long press SET button to “ Volume Setting ” display page



4.3 Press ◁ ▷ button to adjust the volume, 16 levels in total

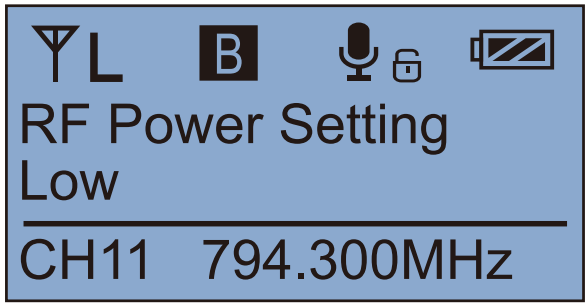


4.4 Short press SET button to confirm

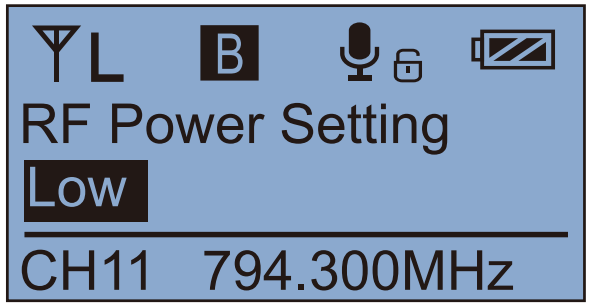


5. Transmitting signal strength “ High/Low ” Adjustment

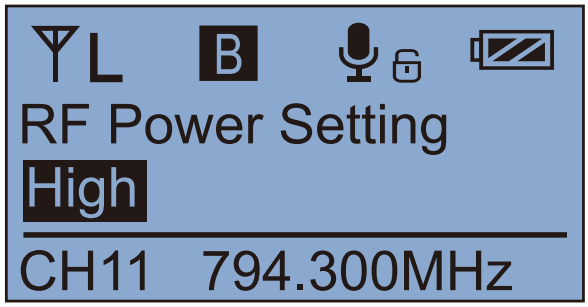
5.1 Press ◁ ▷ button to “ RF Power Setting ” display page



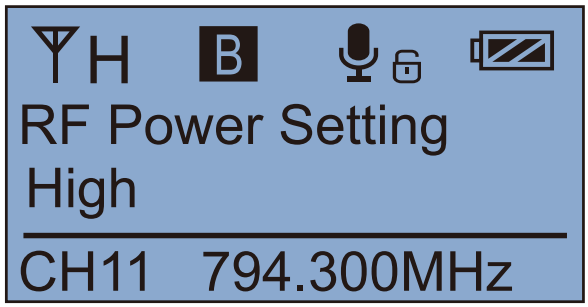
5.2 Long press SET button to “ RF Power Setting ” display page



5.3 Press ◁ ▷ button to adjust the transmitting signal strength

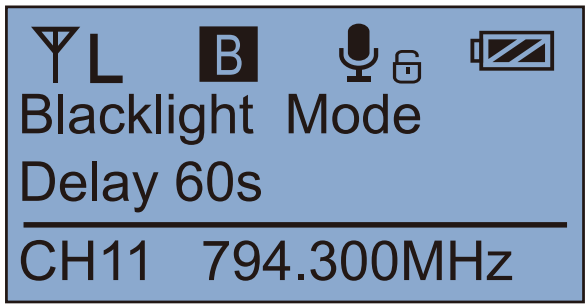


5.4 Short press SET button to confirm

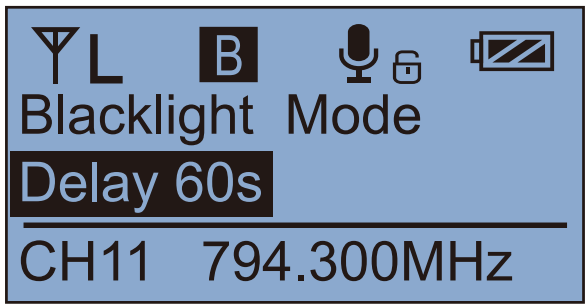


6. Backlight “ lighting time/turn off ” Adjustment

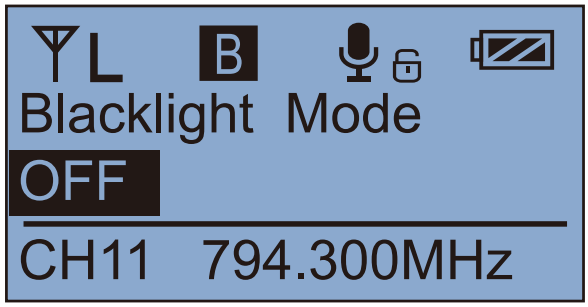
6.1 Press ◁ ▷ button to “ Backlight Mode ” display page



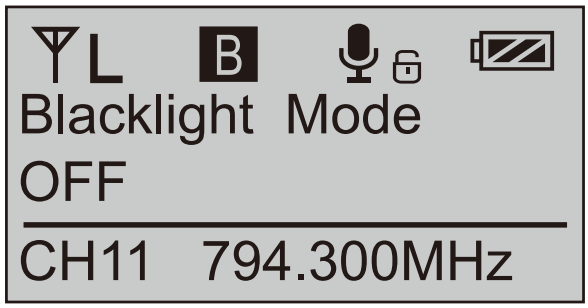
6.2 Long press SET button to “ Backlight Mode ” display page



6.3 Press ◁ ▷ button to adjust the backlight lighting time or you can turn it off for power saving

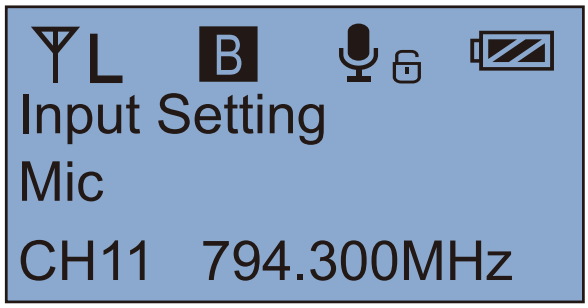


6.4 Short press SET button to confirm

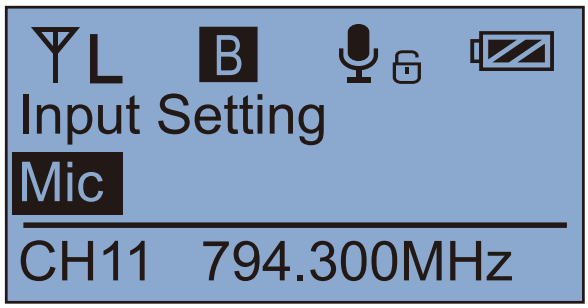


7. MIC/LINE IN Input Mode Adjustment

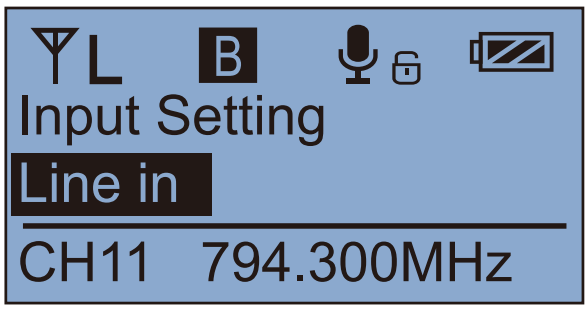
7.1 Press ◁ ▷ button to “ Input Setting ”display page



7.2 Long press SET button to “ Input Setting ” display page



7.3 Press ◁ ▷ button to select “ Mic/ Line in ” input mode

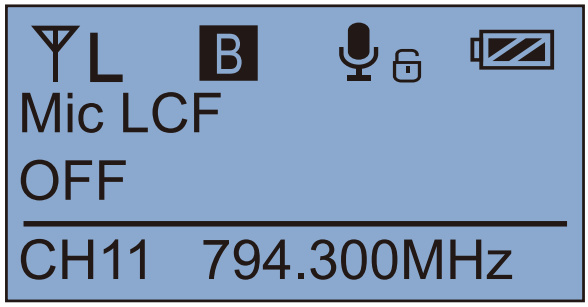


7.4 Short press SET button to confirm

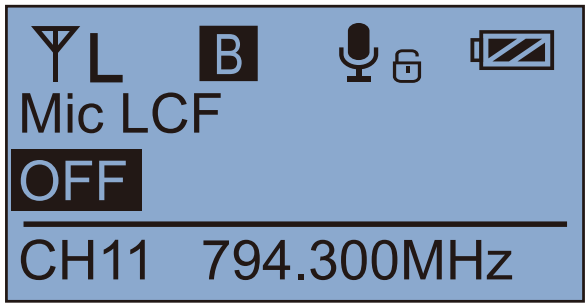
Mic mode is for Microphone input;
Line in mode is for external audio input, such as smart phone music player.
Selecting the corresponding input mode will bring you a better audio effect.

8. Low cut “On/Off ” Adjustment

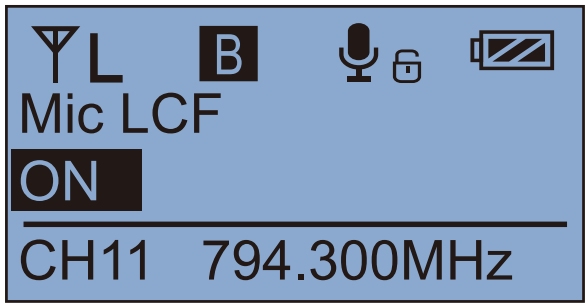
8.1 Press ◁ ▷ button to “ Mic LCF ” display page



8.2 Long press SET button to “ Mic LCF ” display page



8.3 Press ◁ ▷ button to select LCF On/ Off

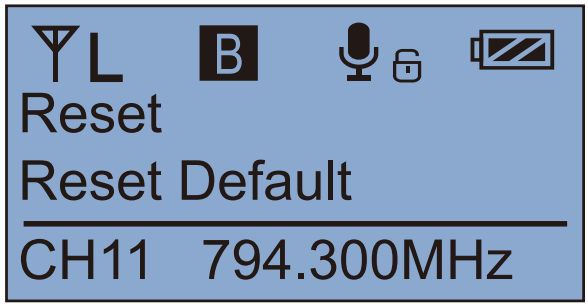


8.4 Short press SET button to confirm

☞ The LCF function will remove the low-frequency part of the audio source, such as the sound of wild insects and the noise of the crowd, and the main audio source will be thinner. When the LCF function is turned off, the original sound will be restored, and the main sound source will be thicker. You can adjust according to actual needs.

9. Reset to Defaults

9.1 Press ◁ ▷ button to “ Reset ” display page

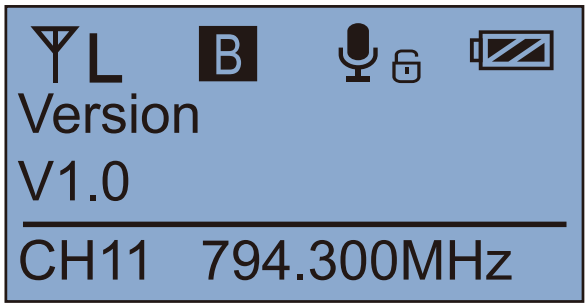


9.2 Long press SET button for resetting

9.3 Resetting is finished

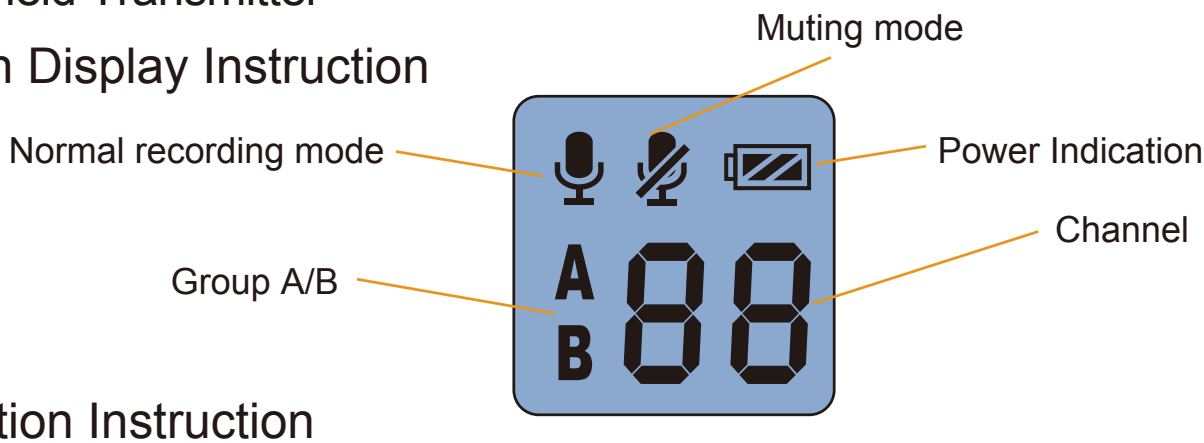
10. Version

10.1 Press ◁ ▷ button to “ Version ” display page to check the version



Hand-held Transmitter

Screen Display Instruction

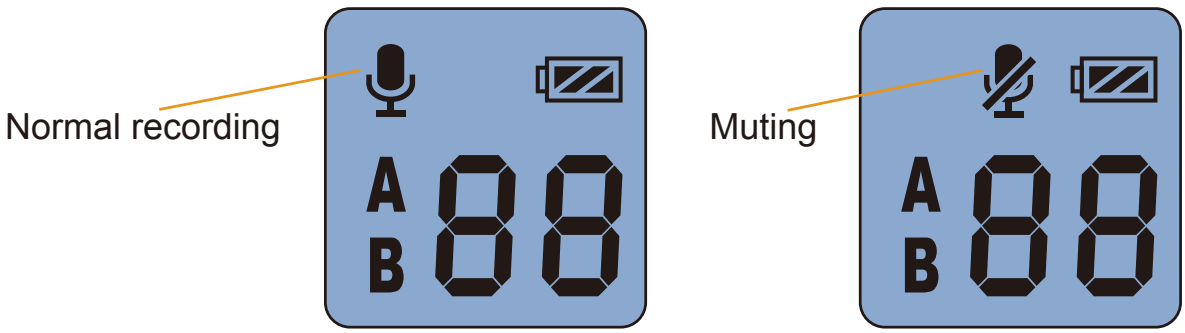


Operation Instruction

1.Turn on and Muting Mode Switch

1.1 Long press switch button for 2 seconds to turn on or off

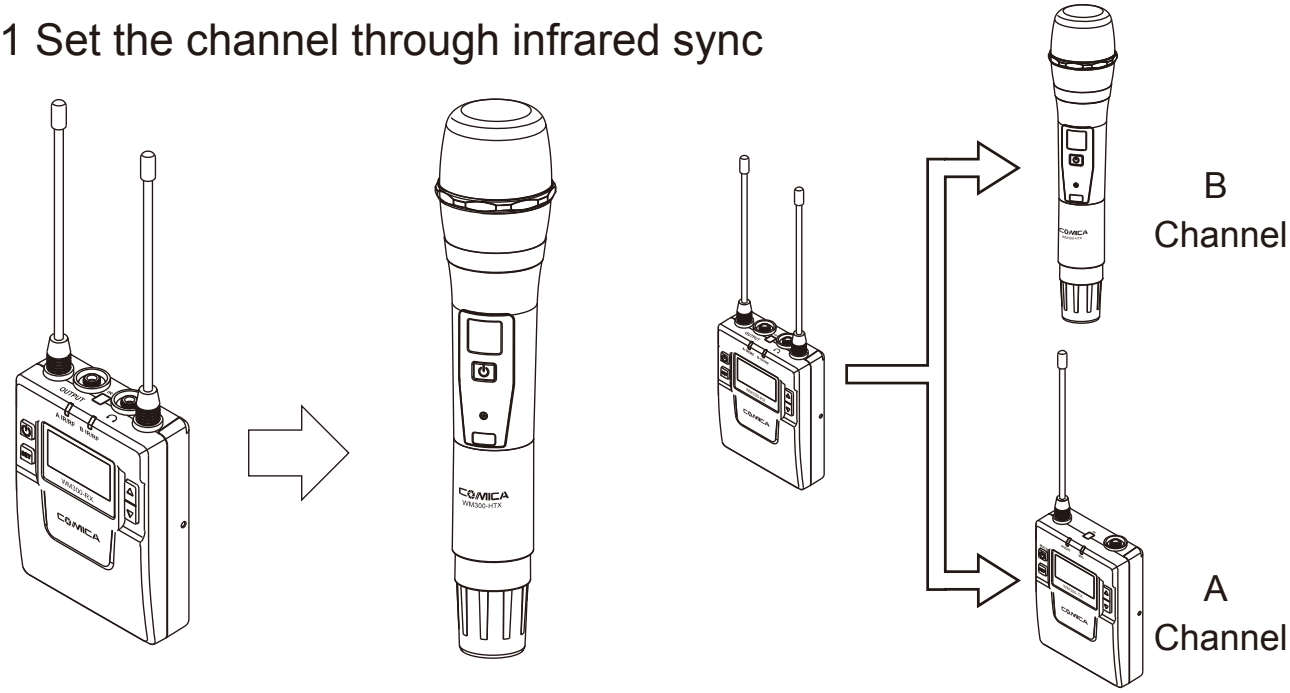
1.2 When it's turned on, short press the button to select muting mode



The muting mode can be controlled only when the screen is on, press any button to light the screen and then press the button to switch the muting mode.

2. Set the channel through infrared sync

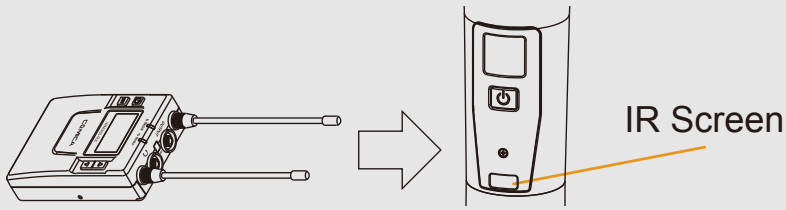
2.1 Set the channel through infrared sync



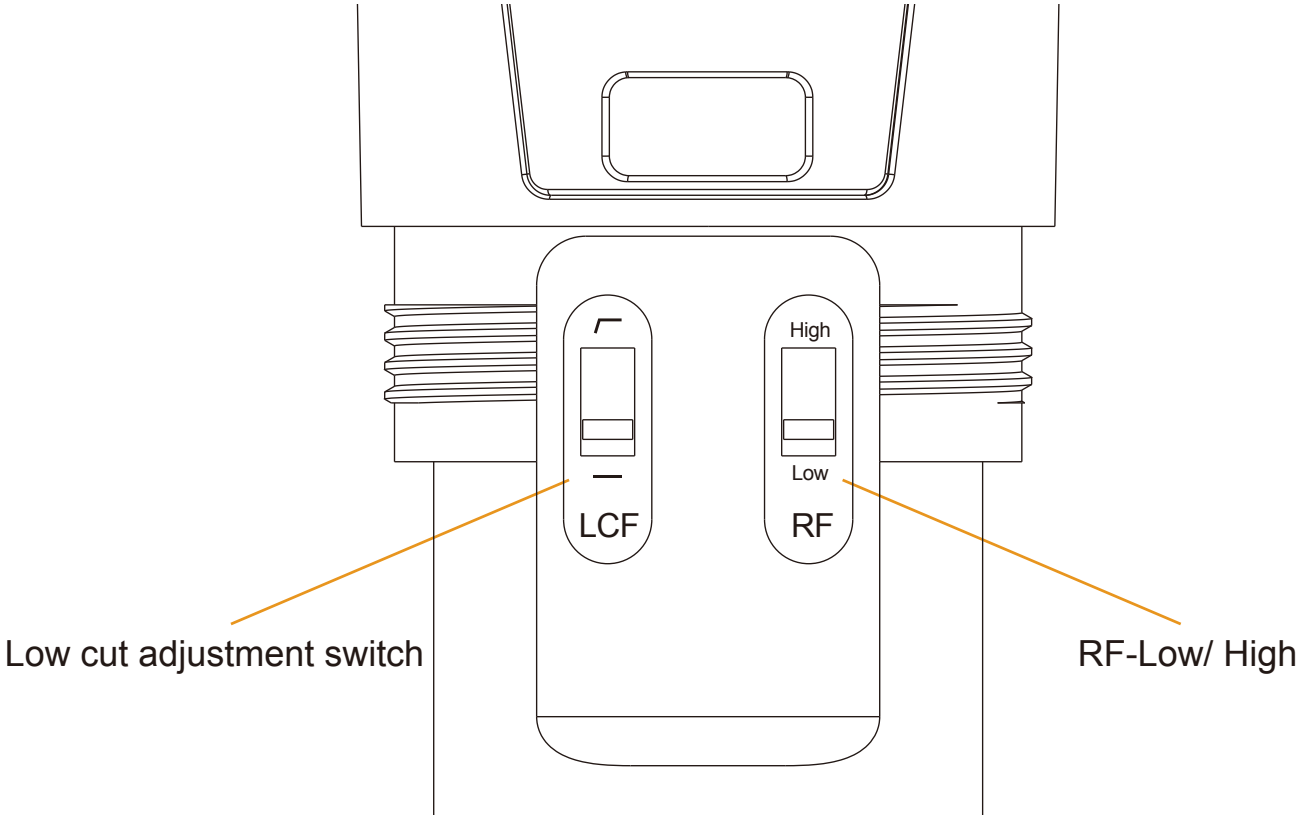
The hand-held transmitter defaults to channel B, and you can set the group and channel through the receiver (For example, If Group A of the receiver is used for the matching, after matching, it will be: Group A CHXX; If Group B of the receiver is used for the matching, after matching, it will be: Group B CHXX)

When the hand-held transmitter and the lavalier transmitter are used together, you should set them to different channels

During matching, don't shield the infrared receiving screen of the transmitter against the receiver.

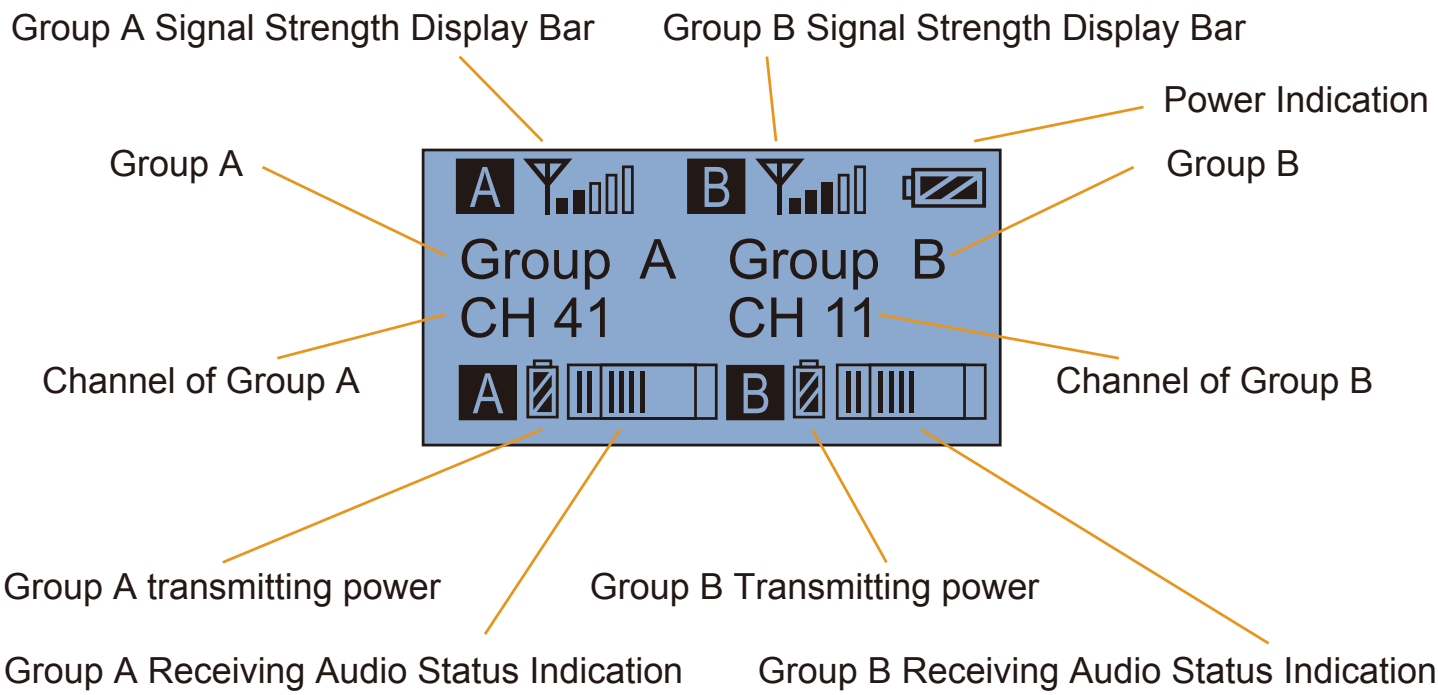


2.2 Thumbwheel switch



Receiver

Screen Display Instruction

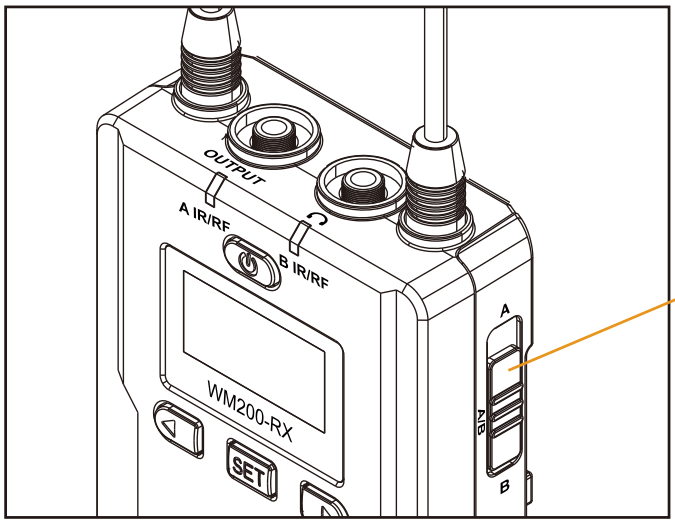


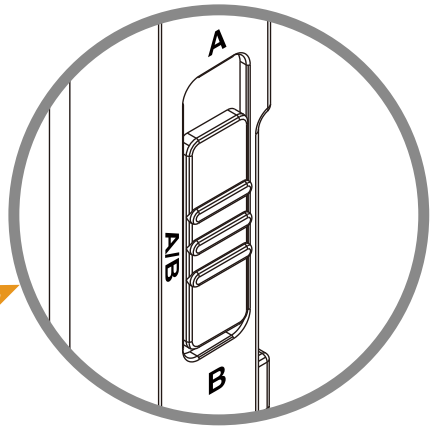
When Group A/B is on, the background color of the channel display icon is black; When Group A/B is off, the channel display icon is transparent and no background color.

Operation Instruction

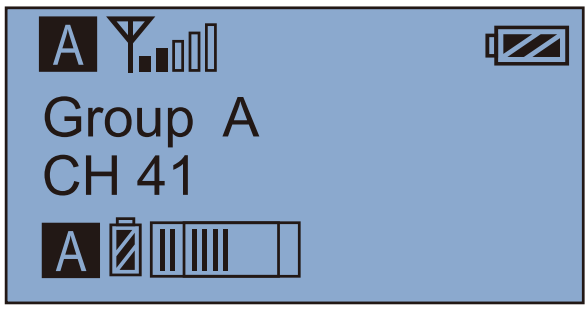
1. A、B or A+B Group Selection Switch

1.1 Select the group using A, B and A/B group selection switch

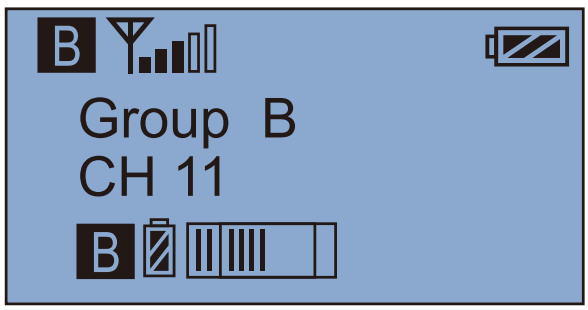




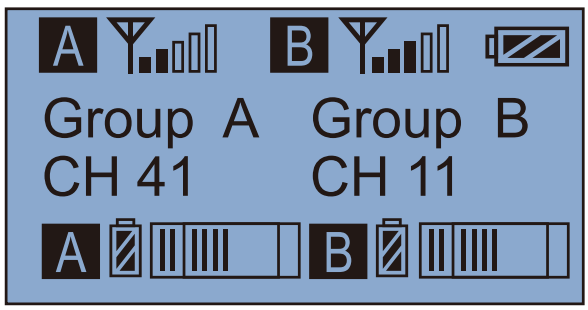
A、B or A+B Group Selection Switch



Switch to A
Group A turned on,
Group B turned off



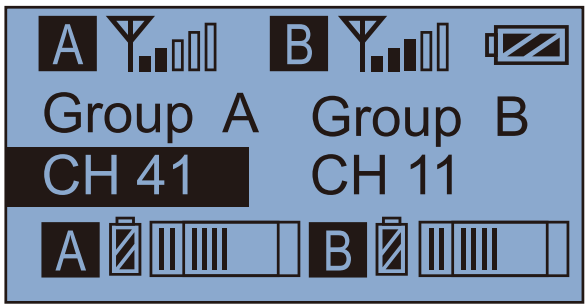
Switch to B
Group B turned on,
Group A turned off



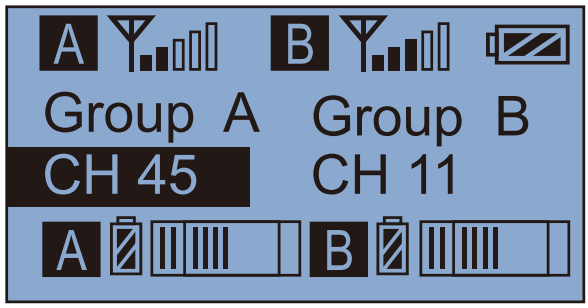
Switch to A/B
Group A turned on,
Group B turned on

2.Manually Adjust the Channel of Group A/ Group B

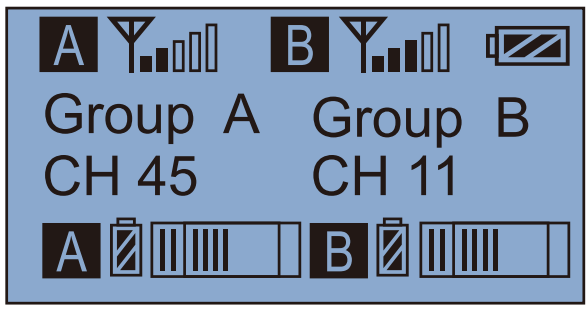
2.1 Long press [SET] button to “CH” display page, long press again for Group A/Group B switch



2.2 Short press [◁] [▷] button to select the group

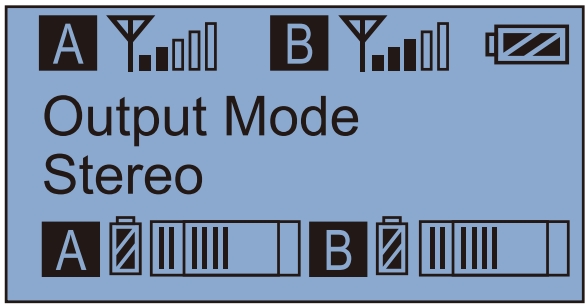


2.3 Short press [SET] button to confirm

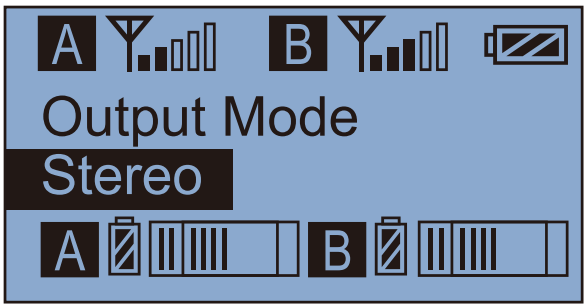


3. Audio output mode “stereo/mono” adjustment

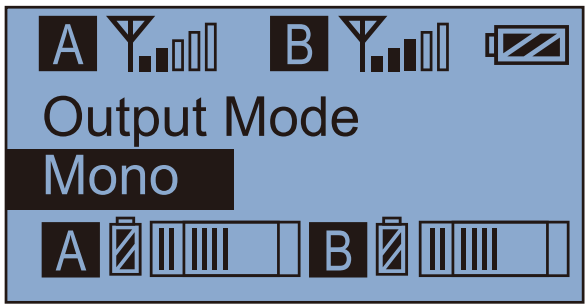
3.1 Press ◁ ▷ button to “ Output Mode ” display page



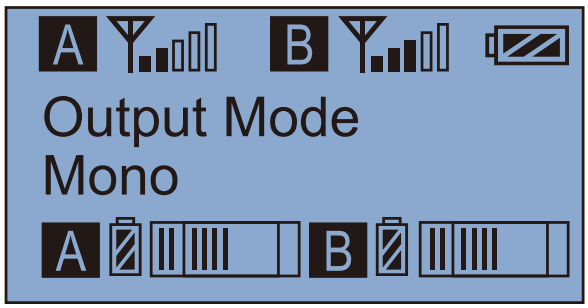
3.2 Long press SET button to “ Output Mode ” display page



3.3 Press ◁ ▷ button to select Mono/ Stereo Output Mode

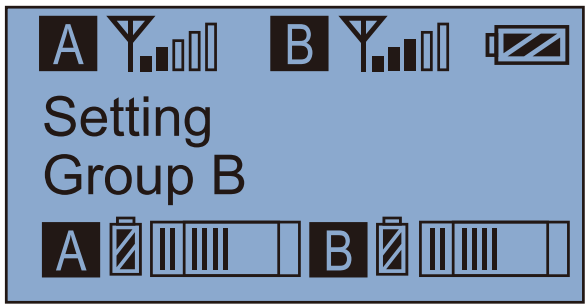


3.4 Short press SET button to confirm

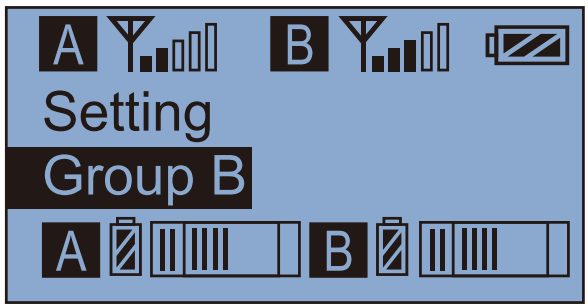


4. Group A/B function setting

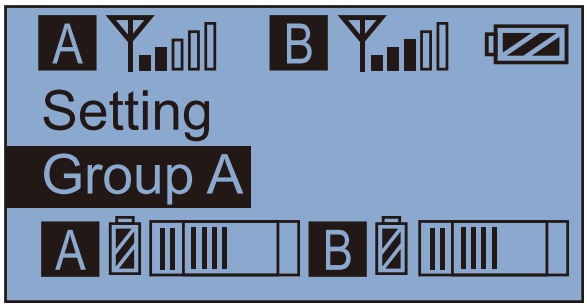
4.1 Press ◁ ▷ button to “ Setting ” display page



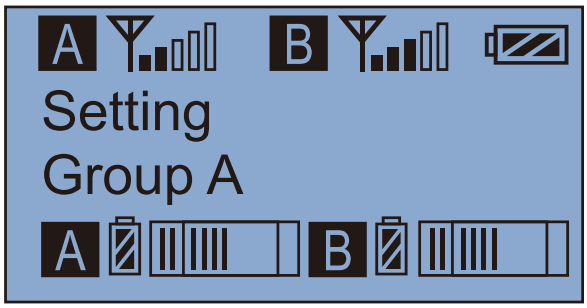
4.2 Long press SET button to “ Setting ” display page



4.3 Press ◁ ▷ button to select Group A/B to edit

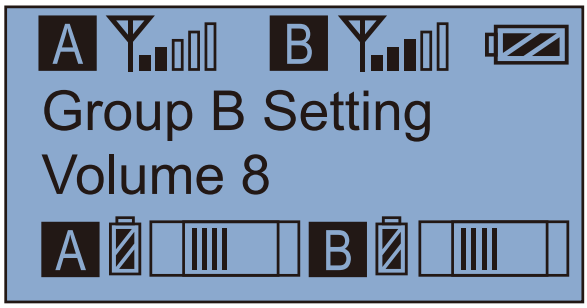


4.4 Short press SET button to confirm

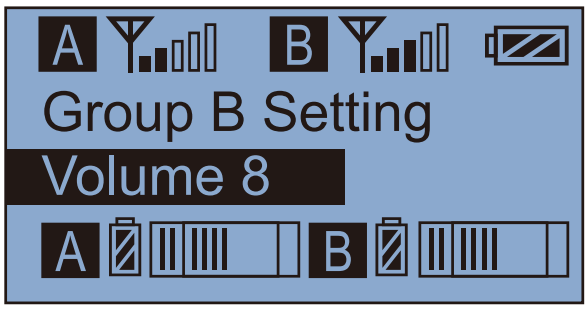


5. Group A/B Volume Adjustment

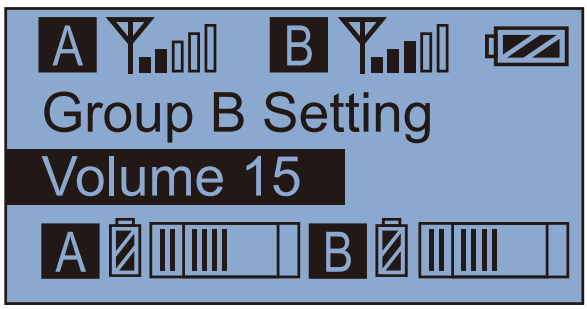
5.1 Short Press ◁ ▷ button to “ Group B Setting Volume ” display page



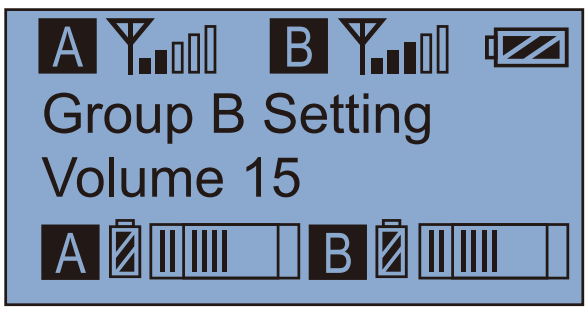
5.2 Long press SET button to “ Setting ” display page



5.3 Short Press ◁ ▷ button to adjust the volume

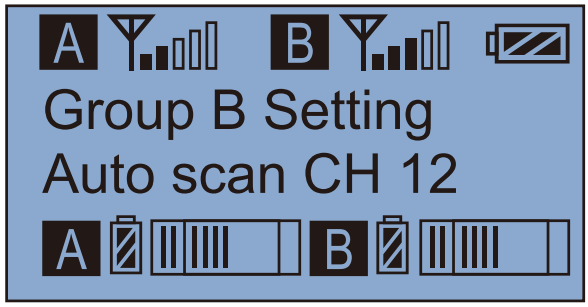


5.4 Short press SET button to confirm

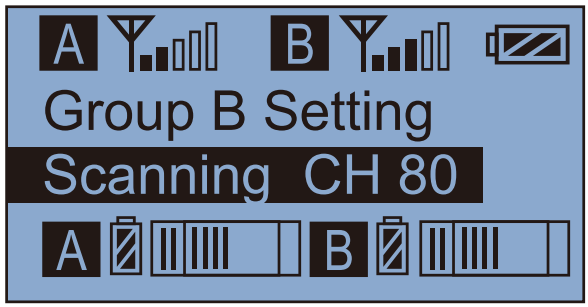


6. Group A/B Automatic Channel Scan

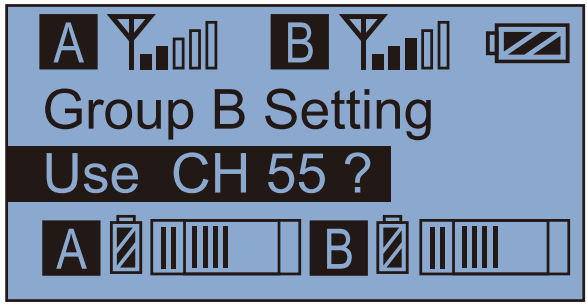
6.1 Short Press ◁ ▷ button to “ Group B Setting Auto scan CH ”display page



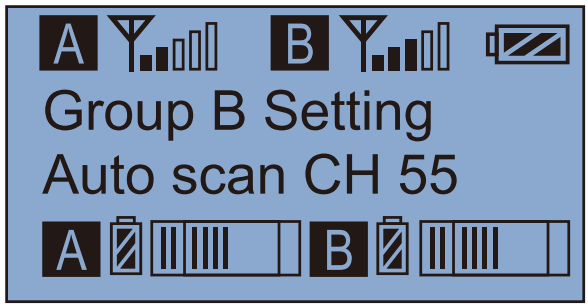
6.2 Long press SET button for Auto scanning



6.3 After scanning, the best available channel will be shown on the screen and prompted for use

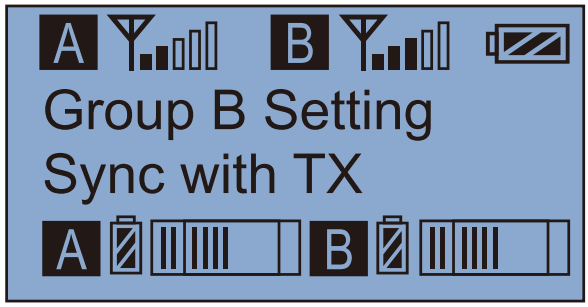


6.4 Short press SET button to confirm

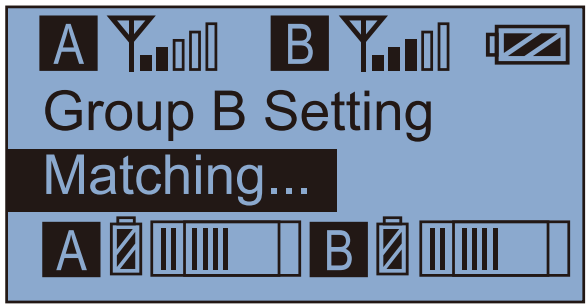


7.Group A/B IR Sync

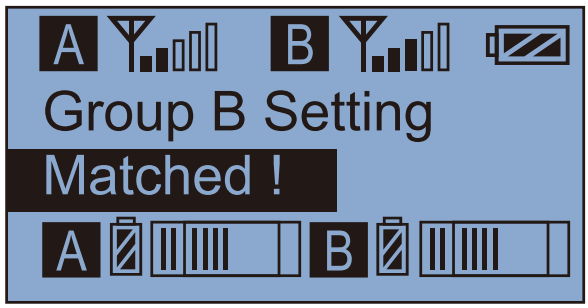
7.1 Short Press ◁ ▷ button to “ Group B Setting Sync with TX ”display page



7.2 Long press SET button for IR Matching

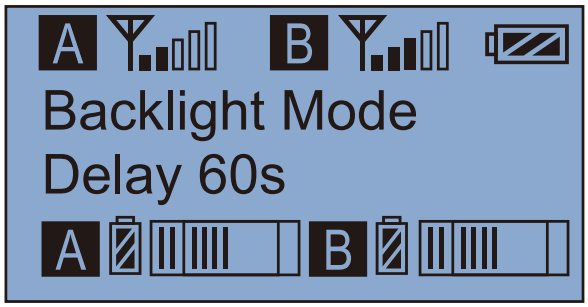


7.3 Matched

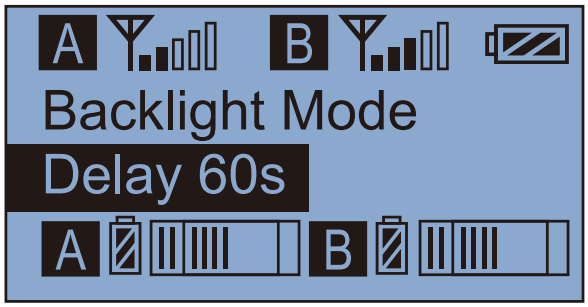


8. Backlight “lighting time/turn off ” Adjustment

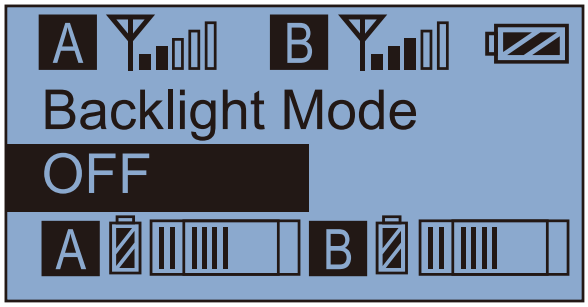
8.1 Short Press ◁ ▷ button to “ Backlight Mode ” display page



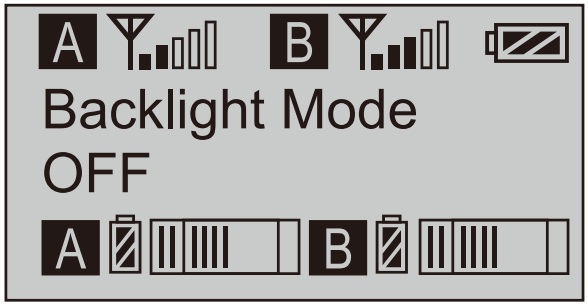
8.2 Long press SET button to “ Backlight Mode ” display page



8.3 Short press ◁ ▷ button to adjust the backlight lighting time or you can turn it off for power saving

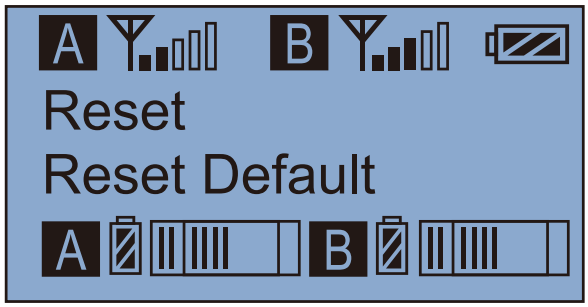


8.4 Short press SET button to confirm

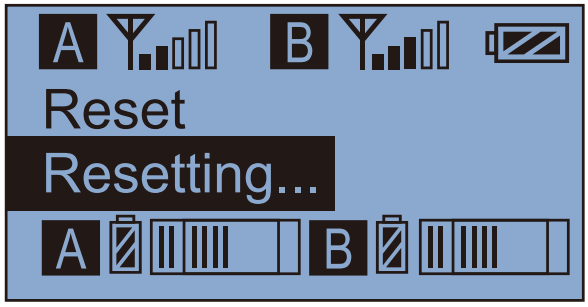


9. Reset to Defaults

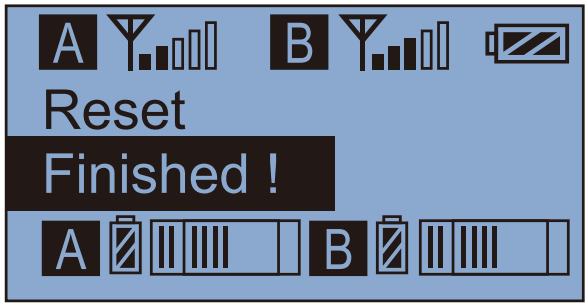
9.1 Press ◁ ▷ button to “ Reset ” display page



9.2 Long press SET button for resetting

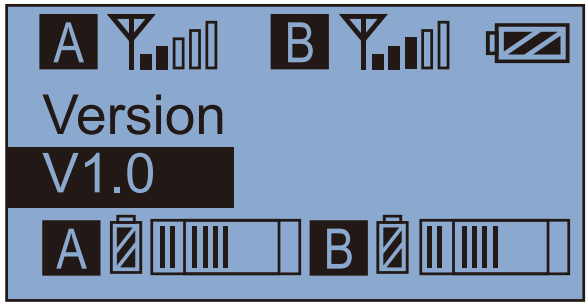


9.3 Resetting is finished



10. Version

10.1 Press ◁ ▷ button to “ Version ” display page to check the version



Specification

Lavalier Transmitter TX

Channels	80
Group A Wireless Frequency	794.000MHz ~806.00MHz
Group B Wireless Frequency	794.000MHz ~806.00MHz
Signal / Noise	>65dB
Antenna	1/4 Wavelength Wire Antenna
Transmitting Power	10dbm/15dbm
Stray Radiation	<-60dBc
Sound Delay	<20ms
Audio Distortion	<0.5%
Battery	AA Batteries x 2pcs
Dimension	84 x 63.5 x 23mm
Operating Temperature	0℃ ~ 50℃
Storage Temperature	-20℃ ~ 60℃

Hand-held Tranmistter HTX

Channels	80
Group A Wireless Frequency	794.000MHz ~806.00MHz
Group B Wireless Frequency	794.000MHz ~806.00MHz
Signal / Noise	>65dB
Antenna	PCB Antenna
Transmitting Power	10dbm/15dbm
Stray Radiation	<-60dBc
Sound Delay	<20ms
Audio Distortion	<0.5%
Battery	AA Batteries x 2pcs
Dimension	Φ53.5(MAX) x 253mm
Operating Temperature	0℃ ~ 50℃
Storage Temperature	-20℃ ~ 60℃

Receiver RX

Channels	80
Group A Wireless Frequency	794.000MHz ~806.00MHz
Group B Wireless Frequency	794.000MHz ~806.00MHz
Signal / Noise	>65dB
Antenna	1/4 Wavelength Wire Antenna
Receiving Power	-95dBm
Stray Radiation	<-60dBc
Sound Delay	<20ms
Audio Distortion	<0.5%
Battery	AA Batteries x 2pcs
Dimension	84 x 63.5 x 23mm
Operating Temperature	0℃ ~ 50℃
Storage Temperature	-20℃ ~ 60℃

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