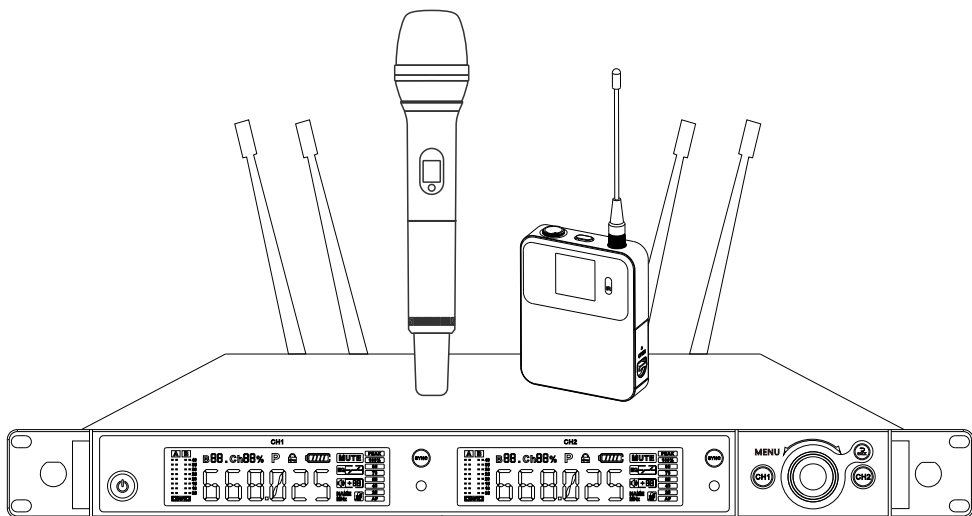


UHF

Wireless Microphone

Dual Channel
True Diversity

【使用说明书】 Instructions Manual



Please read this manual carefully before operation



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Important Safety Tips

- Please read this instruction manual carefully.
- Please keep the instruction manual in a safe place, and always hand over the device and the external power adapter together with the instruction manual to third-party users.
- Please pay attention to all warnings and follow all instructions in the in-service instructions .
- Clean the device and external power adapter only after disconnecting the power supply, please use a clean soft cloth to clean the device.
- All maintenance work must be carried out by professionally trained maintenance personnel.
- When the device or the external power adapter is damaged in any way, when liquids or foreign objects penetrate into the device or the external power adapter or the device is exposed to rain, when the device cannot work normally or is turned off, maintenance work must be performed.
- Warning: Please do not use the device and external power adapter in the area near water; do not use the device and external power adapter in the rain or wet environment, otherwise there is a risk of fire and electric shock; please do not place the container with liquid in the on the device.
- Please only use the supplied external power adapter.
- If the following conditions occur, the external power adapter should be unplugged from the outlet to disconnect the device from the power source.
thunderstorm weather;
Do not use the device for an extended period of time.
- You can only connect the external power adapter to the type of power source specified in the "Technical Data" section.
- Take care to ensure that the external power adapter is in good condition and kept in an easy-to-find place.
Plug firmly into the socket.
Use only within the permitted temperature range.
Not covered by other objects or exposed to sunlight for a long time to prevent excessive temperature.
- Do not cover the ventilation openings, and place the device and power connector in accordance with these instructions for use.
- Do not place the device and external power adapter near heat sources such as radiators, ovens, or other appliances (including amplifiers).
- Please use the additional equipment/accessory parts recommended by our company.
- Please only use spare parts recommended by our company or with the same characteristics as the original parts. Unauthorized spare parts may cause fire, electric shock or other risks.
- Make sure that the external power adapter does not overload the connected socket or extension cable, otherwise there is a risk of fire or electric shock.
- If a mains plug and appliance coupler are used as the disconnecting device, the disconnecting device shall remain easily operable.



Standard use

The normative use of the receiver includes.

- Read these instructions for use carefully.
- Use this device only in accordance with the operating conditions described in these instructions for use.

If you do not use this equipment in accordance with this instruction manual or do not comply with the working conditions given in this instruction, it will be regarded as illegal use.

Product features

This product adopts advanced and modern high-frequency transmission technology, which is not only safe and reliable, but also easy and comfortable to use. Both the transmitter and receiver can achieve high-quality wireless audio transmission.

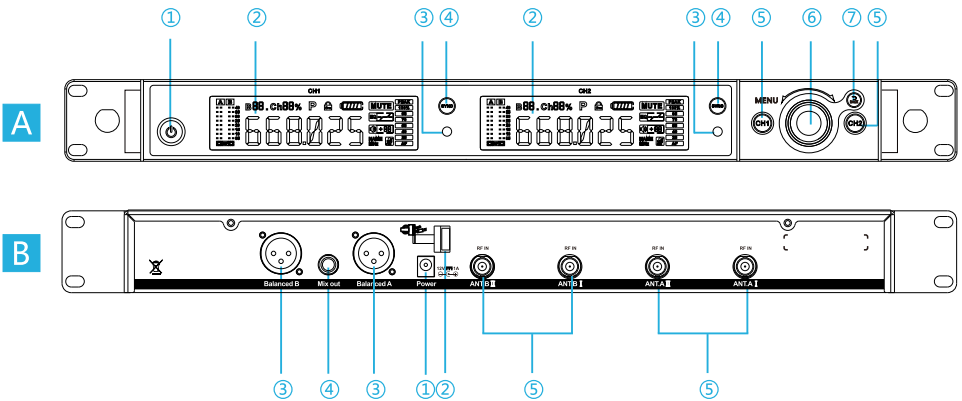
- Optimized PLL synthesizer and microprocessor technology.
- Adopt advanced noise suppression method.
- Controlling audio transmission for secure squelch.
- Adopt pure automatic selection (true diversity) receiving method, not only the receiving distance is long, but also can eliminate the receiving sound interruption.
- Transmission channel search function available.
- Transmitter has 50MHz RF bandwidth



Packing list

Receiver	1
Transmitter	2
External power adapter	1
BNC antenna	4
Crossing line	1
User' s manual	1
Battery	4

Receiver overview



A Front Operation Unit

- 1.power switch key
- 2.LCD(CH1/CH2)
- 3.pairing window(CH1/CH2)
- 4.pair key(CH1/CH2)
- 5.Channel selection key(CH1/CH2)
- 6.menu、select/confirm key
- 7.return key

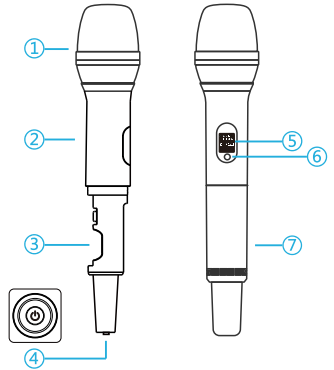
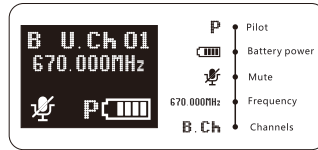
B Back Operating Element Unit

- 1.power input interface
- 2.wire anti-trip
- 3.balanced output interface (A/B)
- 4.mixing output interface
- 5.antenna socket

Handheld Microphone Transmitter

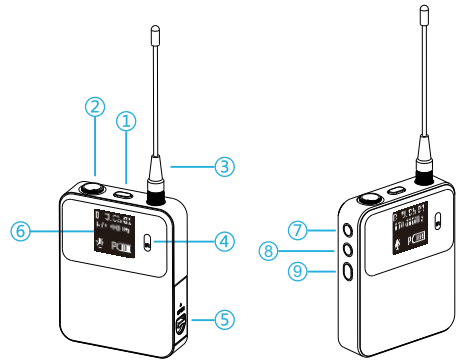
- ▶ Press and hold the power button to power on, and long press the power button again to power off;
- ▶ When powered on, tap the power button to mute, and tap the power button again to unmute.

1. Cartridge
2. Handheld microphone up tube
3. Battery bay
4. Power switch
5. OLED display
6. IR pairing window
7. Handheld microphone down tube

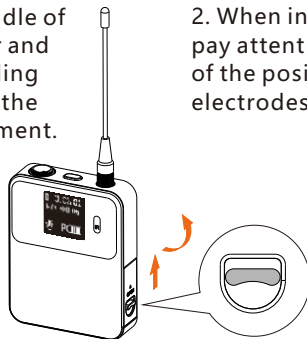


Body pack transmitter

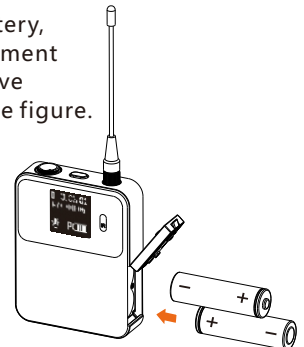
1. Power: Press to turn on the transmitter. In the power on state, short press to mute, long press to turn off the transmitter.
2. Microphone interface: Connect to lavalier or headset microphone.
3. Transmission antenna: transmits signals to the receiver.
4. Frequency matching window: When frequency matching, bring it close to the receiver matching window.
5. Battery compartment: Pull upwards and outward to open, using AA*2pcs batteries.
6. LCD display screen: displays the transmitter menu and parameters.
7. Up function button: Press the button to increase the volume.
8. Downward function button: Press the button to decrease the volume.
9. Locked/Unlocked button: Long press the button to Locked/Unlocked..



1. Pull up the handle of the battery cover and hold it, while pulling outward to open the battery compartment.



2. When inserting the battery, pay attention to the placement of the positive and negative electrodes, as shown in the figure.

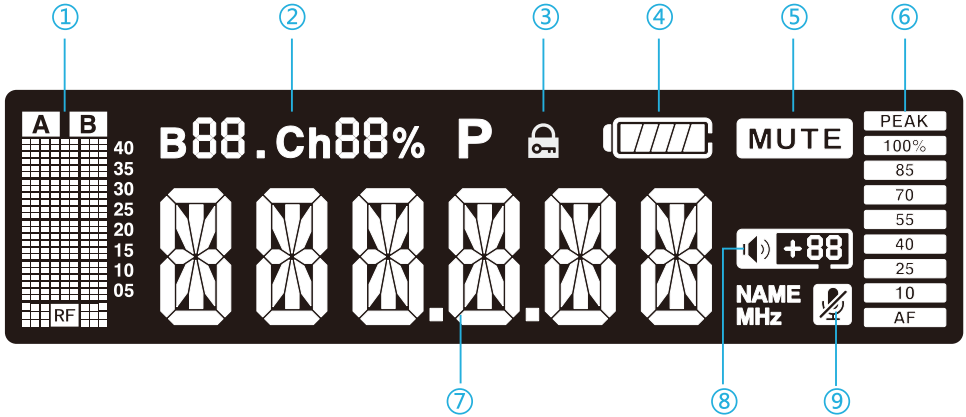




Product overview



Display overview

After turning on, the receiver displays the standard display information "Receiver Parameters", which indicates the operating status of the receiver.



Display	meaning
① radio signal level "RF"	 AB antenna  Displays the received signal strength
② Channel adjustment	" B" group "Ch" Channel detail
③ Lock/Unlock	
④ Transmitter battery display	
⑤ receiver mute	
⑥ Audio level value "PEAK" is overload	
⑦ Frequency	
⑧ master volume	
⑨ transmitter mute	

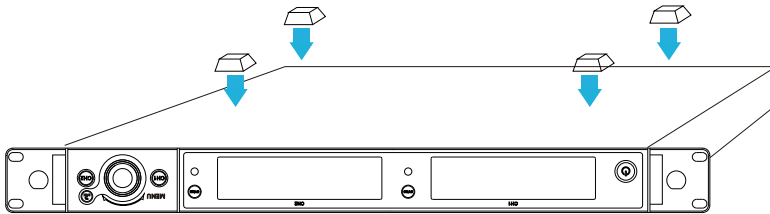
Preparation before using the receiver

Receiver Application Preparation

Place the receiver on a flat bottom

Please install the receiver on a flat bottom surface. Note that the feet of the device may stain some sensitive mounting surfaces.

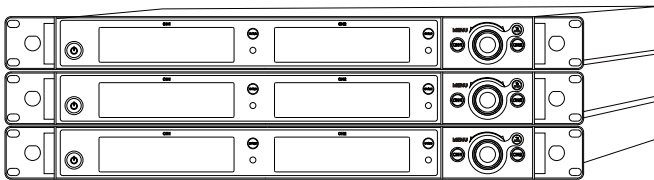
Paste the device feet ▶ Equipment foot paste - receiver bottom surface (see the picture below):



If you are stacking receivers, assembling the device feet to the lowest receiver.

- ▶ If you are stacking receivers, attach the device feet to the lowest receiver.
- ▶ Glue the device feet.

Stacked Receivers ▶ Please stack multiple receivers on top of each other.



Notice! Stacked receivers can easily tip over and could fall over and cause injury!

- ▶ Please stack the receiver on a stable and sturdy surface.
- ▶ Take precautions to prevent stacked receivers from tipping over.
- ▶ Install the stacking bracket assembly as described in the previous section.

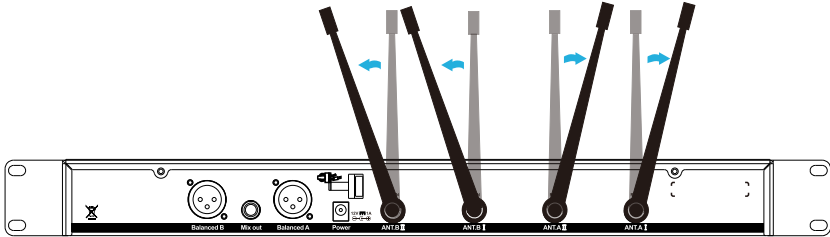
Preparing the receiver for use



Connect the antennas

The supplied omnidirectional antenna is suitable for wireless transmission under good reception conditions.

- ▶ Connect the antennas (see the picture as below)
- ▶ Correct the antenna into a V shape



If you use more than one receiver, we recommend using a separate type or our company's antenna components.

Mount the receiver to a 19" bracket.



If you are mounting the receiver on a 19" stand, do not install the device feet.

Notice! Dangerous when mounting with brackets!

When mounting the device to an enclosed 19" rack or to a combination rack with multiple devices, the ambient temperature, mechanical load and potential etc. will vary from when the devices are mounted individually.

- ▶ Please make sure that the ambient temperature inside the bracket does not exceed the maximum temperature given in the technical data sheet.
- ▶ Make sure the equipment is well ventilated (add additional ventilation if necessary).
- ▶ Take care to keep the mechanical load evenly distributed when installing the device into the rack.
- ▶ Please pay attention to the parameters on the nameplate when connecting the power supply, and avoid overloading the current loop. An overcurrent protection device can be installed if necessary.
- ▶ When the device is installed in the bracket, the leakage current of each power adapter may be superimposed on each other, thus exceeding the allowable current limit. As a precaution you can ground the stand.

Install the receiver

To mount the receiver into the bracket:

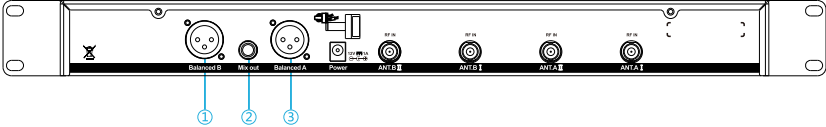
- ▶ Push the receiver into the 19" bracket.
- ▶ To install the antenna, install the supplied rod antenna to the back of the receiver.



Connect an amplifier or mixer

XLR jack ①③ and 6.3mm jack ② are connected in parallel

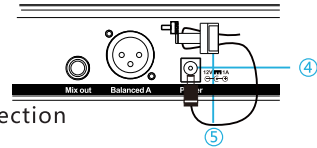
- ▶ Please use a suitable cable to connect the amplifier or mixer to the XLR jack ①③ or 6.3mm jack ②.
- ▶ Match the audio output level AF OUT to the input level of the amplifier or mixer in the receiver operation menu. The audio for both outputs can be set together using the menu bar.



Connecting an external power adapter

Please only use the supplied external power adapter. It is specially equipped with your receiver for safe operation.

- ▶ Insert the plug of the external power adapter into the jack ④ of the receiver.
- ▶ Pass the cable of the external power adapter through the anti-pull device ⑤.
- ▶ Plug the external power adapter into an outlet.



Receiver use

Please follow the steps below to establish a radio connection

1. Turn on the receiver
2. Turn on the transmitter

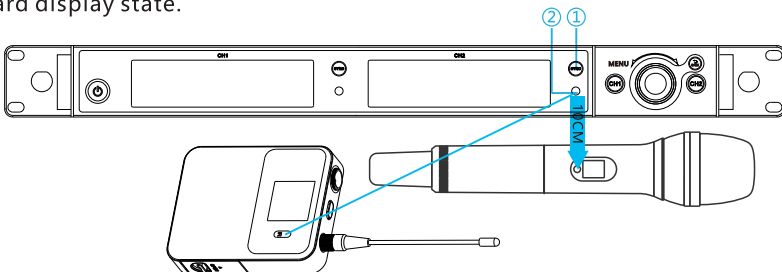
The radio connection is complete, the receiver displays the radio signal level "RF"

If you cannot establish a connection between the transmitter and receiver:

- ▶ Please check if the transmitter and receiver are set to the same channel bank and channel
- ▶ See chapter "FAQ"

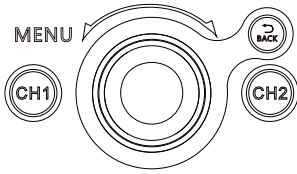
Way to transfer parameters

- ▶ Turn on the transmitter and receiver
- ▶ Press the button **SYNC** ① on the receiver, the receiver screen will display "IR progress bar".
- ▶ Place the infrared window of the transmitter (refer to the instruction manual of the transmitter) in front of the infrared window ② of the receiver.
- ▶ Parameters are sent to the transmitter. When the parameters are transferred successfully, the receiver screen turns "white". When the parameter transmission fails, the receiver screen will not change color, and then the receiver returns to the current standard display state.





Overview operating menu



"Ch1" or "CH2" → turn the "MENU" key → select, press the "MENU" key to confirm/save. Press the "BACK" key to return.

FREQ	Users can freely define the receiving frequency of the channel
VOLUME	Adjust the audio output level Adjustment range: 0dB—+30dB
LOCK	After setting up the device, press the BACK key to return and complete the lock key
SCAN	Detects the electromagnetic interference of the use environment and automatically selects a pure frequency
BACK	Exit menu setting



• Custom channel adjustment

Press CH1 (CH2) to select the left (right) channel, and the interface will display **FREQ**. Press the MENU button, and the frequency will flash. Rotate the MENU button to adjust to the desired frequency. Press the MENU button here to lock the current frequency point, and the interface will automatically return to the **FREQ** interface. Press the BACK button to exit and complete the channel adjustment.



• Lock and Unlock

Press CH1 (CH2) to select the left (right) channel, and the interface will display **FREQ**. Rotate the MENU knob to the **LOCK** interface, press the MENU button, and the interface will display **UNLOCK**. Rotate the MENU knob to the **LOCKED** interface, press the MENU button, and it will automatically return to the **LOCK** interface. The display screen will appear, and press **BACK** to exit. The lock is complete, and operations cannot be performed thereafter. To perform the operation, long press the **BACK** key until **UNLUCK** appears on the interface and the screen no longer appears, which completes the unlocking and allows for free operation. Operate on either side of CH1 or CH2 to unlock the entire machine.



• Volume adjustment

Press CH1 (CH2) to select the left (right) channel, and the interface will display **VOLUME**. Press the MENU button, turn the MENU knob again to the desired volume, press the MENU button, and the interface will return to **VOLUME**. Then press **BACK** to exit and complete the volume adjustment.

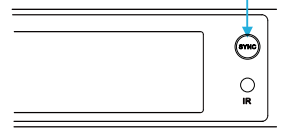


• Auto scan

Press CH1 (CH2) to select the left (right) channel, turn the MENU knob to **SCAN**, press the MENU button to automatically search for the pure frequency point, and once the search is complete, it will automatically jump to the pure frequency point. The screen will flash and then automatically select.

• Pair frequency

Press CH1 (CH2) to select the left (right) channel, turn the MENU knob to **SCAN**, press the MENU button to automatically search for the pure frequency point, and once the search is complete, it will automatically jump to the pure frequency point. The screen will flash and then automatically select.



Note: After completing any of the operations, simply press the **BACK** button and turn the MENU knob to other corresponding functions for operation.



FAQ

Question	Possible reason	Method of exclusion
Cannot operate the receiver, the screen displays "Please unlock"	Key lock is activated	Release the key lock (see page 25)
No signal received	Transmitter and receiver use different frequencies	Tune the transmitter and receiver to the same channel: Pls pair sync
	Beyond the signal range of the radio line	Check receive sensitivity settings. Shorten the distance between the receiving antenna and the transmitter
RF present, but no AF	Transmitter is muted	unmute
	Receive sensitivity setting too low	Reinstall or replace the positioning antenna
Audio signal distortion	The output level of the receiver is too high	Decrease the level ("Volume Settings")
Displays only appear Diversity I or II	One of the antennas is not connected properly	Check the antenna connection cable or antenna
	no optimal positioning	Improve antenna placement

When your equipment has problems that do not exist in this table or the fault cannot be eliminated according to the solutions listed in the table, please contact us.

Receiver

chassis specification	EIA standard 1U
Channels	2 channels
Frequency stability	$\pm 0.005\%$, PLL phase-locked loop frequency control
Carrier frequency	UHF640-690MHz
Factory preset channels	200 preset channels
Working distance	Generally 200 meters (open space)
Oscillation	PLL phase-locked loop frequency control
Sensitivity	When the offset is equal to 25KHz and input 6dB μ V, S/N>60dB
Bandwidth	50MHz
maximum offset	± 45 KHz
Comprehensive S/N ratio	> 105dB
Comprehensive T.H.D	< 0.7%@1KHz
Comprehensive frequency response	45Hz~18KHz ± 3 dB
powered supply	100-240VAC 50/60Hz
Weight	2.25KG
Size	285mm (L) X 185mm(W) X 45mm(H)
Output socket	XLR balanced and &6.3 unbalanced sockets



Handheld Microphone Transmitter

Carrier frequency	UHF640-690MHz
Harmonic radiation	< -65dBm
Bandwidth	50MHz
Maximum offset	±45KHz
Cartridge	dynamic, cardioid Directivity
RF power output	3mW
Battery	AA X 2
Current consumption	150mA
Battery drain/life	about 7hs
Size	51mm (φ) X 270mm (L)
Weight	350g

Body pack transmitter

Frequency range	640-690MHz
Transmission power	≤32mW (adjustable high and low)
Bandwidth	50MHz
Display mode	OLED
Volume gain	0~+15dB adjustable
Higher harmonic	≥60dBc
Maximum frequency offset	48KHz
Distortion	<1%(excluding microphone)
Power requirements	2 AA alkaline or rechargeable batteries
Battery usage time	6-8H (alkaline) current 150mA (3V)
Appearance size	175x62x24mm