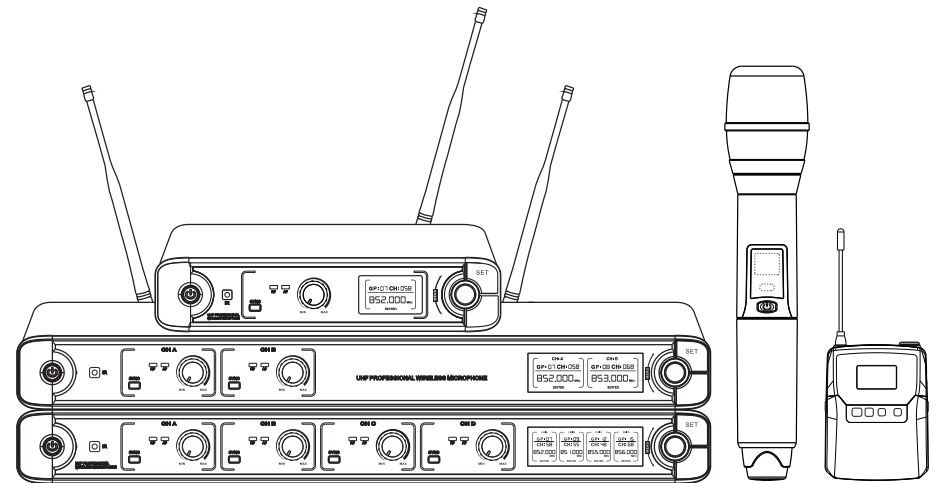


WIRELESS MICROPHONE

OPERATING MANUAL



UHF MICROPHONE RECEIVER

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Introduction

Thank you for choosing our wireless system! The whole series are with dual channels, four channels models, standard half U / 1U chassis design, central control LCD display, independent channel IR frequency Sync button set up on panel, preset frequency groups distribution, avoid frequency compatible errors, easy to operate. Adopts new PLL frequency synthesis double-conversion technology, lower spurious emission, sound squelch code locked function, stronger anti-interference ability. High cost-effective model design, nice sound quality and performance, clear voice, stable audio carrier signal transmission could be over visible 60 meters range.

Using Manual

This booklet provides instruction for the operation of the wireless system and includes a description of features, a quick user controls guide, a step-by-step guide to operations for each unit, system specifications, a troubleshooting guide.

Accessories

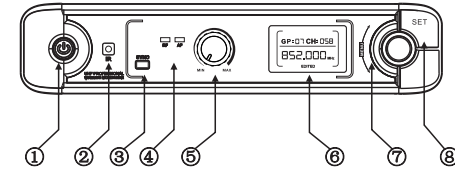
Package Contents

Handheld or bodypack transmitter (1/2/4)
AC power adapter (1)
Receiver (1)
Cable (1)
AA battery (2/4/8)
User manual (1)

*Be sure to keep original packaging in case of re-shipping is needed.

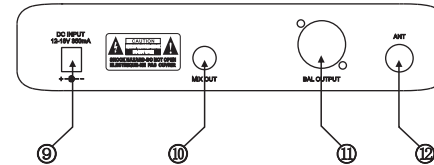
System Operation

Receiver Front Panel



- ① **Power button:** Press up or down to turn the receiver ON-OFF.
- ② **IR:** IR transmitting window.
- ③ **Channel operation button:** SYNC
- ④ **Channel Radio Frequency :** RF / **Audio Frequency :** AF
- ⑤ **Channel volume control:** Turn around to control the volume level.
- ⑥ **Display screen:** Shows operating frequency of channel and other status information.
- ⑦ **Functions operating key:** MENU
- ⑧ **Functions operating key:** SET

Receiver Rear Panel



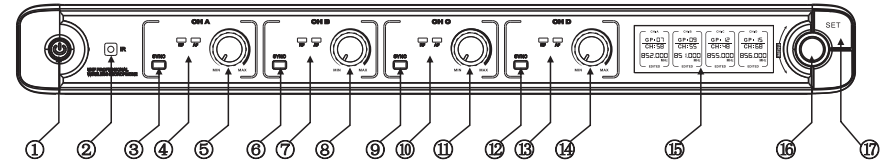
- ⑨ **DC power input socket :** 12-18V 350mA
- ⑩ **Unbalanced Output Socket :** It may be connected to the mixer with an unbalanced audio cable.
- ⑪ **Balanced Output :** The XLR cannon socket may be connected to the balanced mic input jack of the mixer with a standard balanced shielded cable.
- ⑫ **Antenna Socket :** Connect antenna directly.

Receiver Front Panel



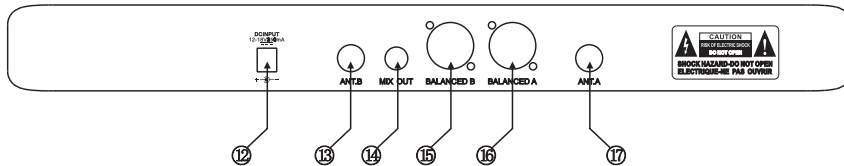
- ① **Power button:** Press up or down to turn the receiver ON-OFF.
- ② **IR:** IR transmitting window.
- ③ **Channel A operation button:** SYNC
- ④ **Channel A Radio Frequency :** RF / **Audio Frequency :** AF
- ⑤ **Channel A volume control:** Turn around to control the volume level.
- ⑥ **Channel B operation button:** SYNC
- ⑦ **Channel B Radio Frequency :** RF / **Audio Frequency :** AF
- ⑧ **Channel B volume control:** Turn around to control the volume level.
- ⑨ **Display screen:** Shows operating frequency of channel and other status information.
- ⑩ **Functions operating key:** MENU
- ⑪ **Functions operating key:** SET

Receiver Front Panel



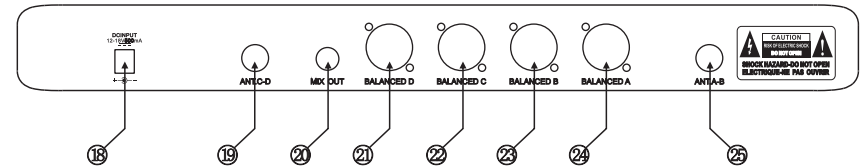
- ① **Power button:** Press up or down to turn the receiver ON-OFF.
- ② **IR:** IR transmitting window.
- ③ **Channel A operation button:** SYNC.
- ④ **Channel A Radio Frequency :** RF / **Audio Frequency :** AF
- ⑤ **Channel A volume control:** Turn around to control the volume level.
- ⑥ **Channel B operation button:** SYNC.
- ⑦ **Channel B Radio Frequency :** RF / **Audio Frequency :** AF
- ⑧ **Channel B volume control:** Turn around to control the volume level.
- ⑨ **Channel C operation button:** SYNC.
- ⑩ **Channel C Radio Frequency :** RF / **Audio Frequency :** AF
- ⑪ **Channel C volume control:** Turn around to control the volume level.
- ⑫ **Channel D operation button:** SYNC.
- ⑬ **Channel D Radio Frequency :** RF / **Audio Frequency :** AF
- ⑭ **Channel D volume control:** Turn around to control the volume level.
- ⑮ **Display screen:** Shows operating frequency of channel and other status information.
- ⑯ **Functions operating key:** MENU
- ⑰ **Functions operating key:** SET

Receiver Rear Panel



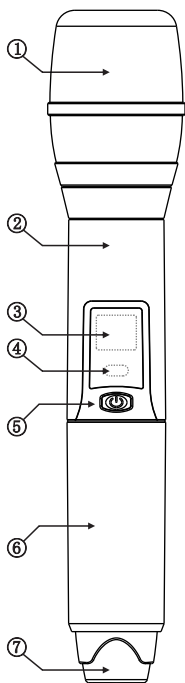
- ⑫ **DC power input socket :** 12-18V 350mA
- ⑬ **Antenna B Socket :** Connect antenna directly.
- ⑭ **Unbalanced Output Socket :** It may be connected to the mixer with an unbalanced audio cable.
- ⑮ **Balanced Output B :** The XLR cannon socket may be connected to the balanced mic input jack of the mixer with a standard balanced shielded cable.
- ⑯ **Balanced Output A :** The XLR cannon socket may be connected to the balanced mic input jack of the mixer with a standard balanced shielded cable.
- ⑰ **Antenna A Socket :** Connect antenna directly.

Receiver Rear Panel



- ⑱ **DC power input socket :** 12-18V 500mA
- ⑲ **Antenna C-D Socket :** Connect antenna directly.
- ⑳ **Unbalanced Output Socket :** It may be connected to the mixer with an unbalanced audio cable.
- ㉑ **Balanced Output D :** The XLR cannon socket may be connected to the balanced mic input jack of the mixer with a standard balanced shielded cable.
- ㉒ **Balanced Output C :** The XLR cannon socket may be connected to the balanced mic input jack of the mixer with a standard balanced shielded cable.
- ㉓ **Balanced Output B :** The XLR cannon socket may be connected to the balanced mic input jack of the mixer with a standard balanced shielded cable.
- ㉔ **Balanced Output A :** The XLR cannon socket may be connected to the balanced mic input jack of the mixer with a standard balanced shielded cable.
- ㉕ **Antenna A-B Socket :** Connect antenna directly.

Transmitters

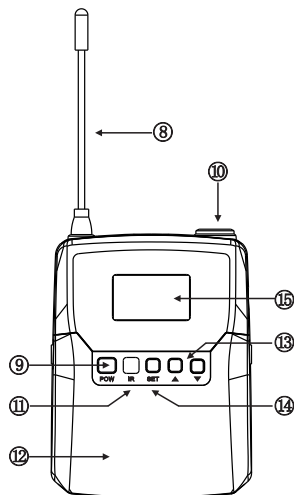


Wireless Handheld Transmitter

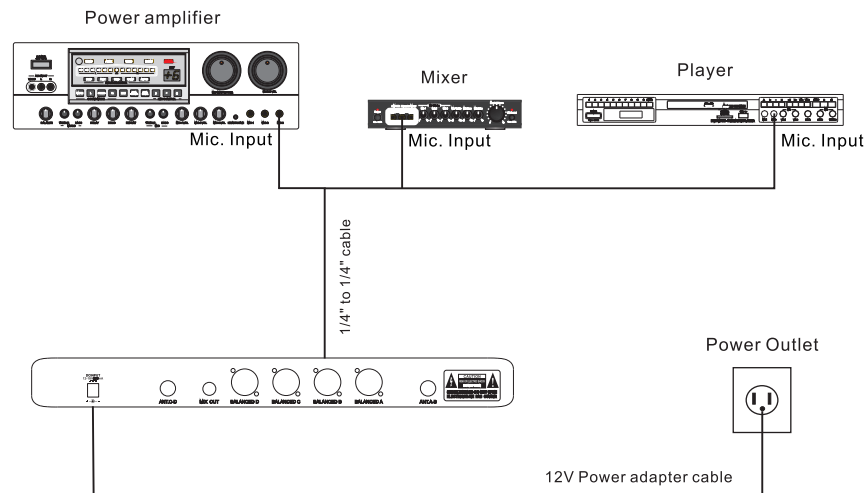
- ① The cap of the mic .
- ② The handle of the wireless mic.
- ③ LCD screen
- ④ IR window
- ⑤ Power switch
- ⑥ Battery chamber (batteries can be put in when opened.)
- ⑦ Antenna

Body-pack Transmitter

- ⑧ Antenna
- ⑨ Power Switch : Press the button for 2-3 seconds to turn on , the LCD lights .Press again for 2-3 seconds to turn off.
- ⑩ Audio Input Interface
- ⑪ IR window
- ⑫ Battery Room
- ⑬ Functions operating key
- ⑭ Functions operating key
- ⑮ LCD screen



Installation



- 1) Contact with 12-18V 350mA(1/2CH) / 500mA(4CH) DC adaptor.
- 2) Connect one end of a 1/4" TO 1/4" CABLE to the receiver's UNBALANCE AUDIO OUTPUT(MIX) and the other end to a karaoke mixer, karaoke player or karaoke power amplifier 1/4" microphone input. If you are using the BALANCE AUDIO QUTPUT, use a XLR to XLR cable or XLR to 1/4" cable.
- 3) Unscrew the microphones handle cover(counter-clockwise) to check if any batteries. If not, install the batteries into the microphones with the negative and positive end of the battery correspond the negative and positive end of the microphone. Screw the microphone handle back on(clockwise).
- 4) For best results, receiver could be install to 19" cabinet and placed on the flat bottom.
- 5) Keep the receiver antenna far from noise source. For example: computer, digital equipment, television.
- 6) Two pcs antenna install on the behind of rear panel socket. Move the antenna and plane as a 45 degree position.

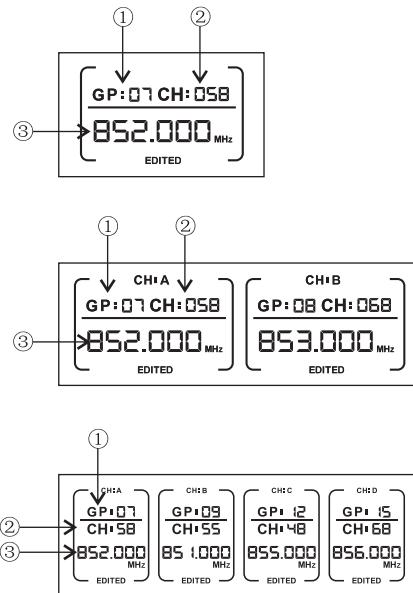
Connected

- 1) The power supply is connected to the power input jack of the receiver. The input voltage of the power adapter must be consistent with the local power specifications.
- 2) XLR balanced output and 6.3mm unbalanced output jack on the rear panel of the receiver, based on the need to be connected.

Operation

1. Press the power switch for 2-3 seconds, to turn on the power.
2. Turn on the transmitter power, use IR window point at IR transmitting window of receiver, press the SYNC key of receiver, then IR sync.
3. Turn on the transmitter power, RF indicator lamp lights
4. Speak to the cartridge, AF indicator lamp lights
5. Press the power switch for 2-3 seconds, to turn off the power.

Function description: (Frequency range: 470~932MHz depends on region)
 Press "SET" key, "EDITED" flash and shows the working channel, press "MENU" key to set the function of GP. Spin the "MENU" key could switch groups.
 Press "MENU" again to edit the functions of CH, then spin "MENU" key to switch the channels.



- ① Frequency group
- ② Frequency channel
- ③ Frequency: shows the frequency which is selected

Features and Specifications

Features:

- Using UHF band, PLL circuit, stable character, low spurious emission.
- Three-way slide frequency switch design, preset three groups of compatible frequency.
- Transmitter up to 50MHz tunable bandwidth, could be compatible for all the channels of receiver. (depends on the region)
- International EIA standard half U/1 U chassis, equipped with rack mounting kit.
- SMT, new RF circuits, no need any adjustable components, stable feature.
- Integrated antenna distributor, reduce mutual interference efficiently.
- Each channel with an independent balanced output.
- Automatic IR frequency Sync function: transmitter synchronization via IR interface.
- Noise and sound code locked mute control circuit.
- With flat frequency response at 50Hz-16KHz.

Specifications:

Receiver:

- Receiving Channel: Single channel , Dual channels , Four channels
- Carrier Wave Frequency Range: 470-932MHz, Depending on the region
- Oscillation Mode: PLL phase-locked frequency synthesizer
- Modulation Mode: FM modulation
- RF sensitivity: input 6dBμV, S/N>80dB
- Working Range: Straight line distance 60 meters.
 Note: actual range depends on RF signal absorption, reflection and interference.
- Mute control mode: Sound code and noise lock
- Frequency response: 50Hz-18KHz (±3dB)
- Comprehensive T.H.D.: <0.5% @ 1KHz
- Panel display: LCD+LED
- Dimension (mm): 210(L)x44(H)x181(D) / 410(L)x44(H)x210(D)

Wireless Handheld Transmitter

- Oscillation Mode: PLL phase-locked frequency synthesizer
- Carrier Wave Frequency range: 470-932MHz, Depending on the region
- Cartridge gain: Fixed gain
- Transmit power: The maximum 30mW (depends on the region)
- Current drain: <130mA
- Display: LCD
- Cartridge type: Module dynamic cardioid cartridge

Body-pack Transmitter

- Oscillation Mode: PLL phase-locked frequency synthesizer
- Carrier Wave Frequency range: 470-932MHz, Depending on the region
- Cartridge gain: Adjustable gain
- Transmit power: The maximum 30mW (depends on the region)
- Current drain: <130mA
- Display: LCD
- Cartridge type: Module dynamic cardioid cartridge

Troubleshooting

If you are having problems operating, or suspect something is wrong with the unit, please check the troubleshoot list below to see if the issue is a result of incorrect operation rather than equipment malfunction.

Problem	Possible cause	Solution
Reciver No sound; No lights	<ul style="list-style-type: none"> • Power button is on the OFF position • AC power adater is not plug in • Poor connection of AC power adapter • How to switch from different channels? 	<ul style="list-style-type: none"> • Turn on the power button • Plug in the AC power adapter • Check to see if the AC power adapter is loose. Check on the receiver end and wall outlet end
Microphone No sound; Lights on	<ul style="list-style-type: none"> • The transmitter is out of range • Microphone switch is off or mute • Microphone volume is turn down • Batteries in the microphone are not install properly • The antenna is not fully functional. • Receiver is not connect to an amplifier, mixer or karaoke player 	<ul style="list-style-type: none"> • Operate the machine in the effective range • Turn on the microphone switch (indicated green light) • Turn on the microphone volume on the receiver • Reinstall the batteries. Make sure the positive and negative end are install correctly • Try to change the angel of the antenna • Connect the ¼ to ¼ cable from the receiver to a microphone input (mixer, player, etc.).
Distorted sound; feedback	<ul style="list-style-type: none"> • The two microphones are too close together • Batteries running low in microphone • Microphone volume is too high • Distortion from other electric wave 	<ul style="list-style-type: none"> • Separate the microphone further away • Replacement the batteries • Reduce the volume of the microphone • Move the reciever away from electric equipment

Cleaning and Protecting the device

CAUTION!



- ▲ Liquid may damage the electronic components of the device.
- ▲ Liquid may soak into the shell and result in the short-circuit of the electronic components.
- ▲ Do not allow the device to touch any liquid.

Receiver

Before you start to clean, disconnect the power of the device.

Use slightly wet soft cloth to clean the device periodically. You are not allowed to use solvent or detergent.

Wireless microphone

Use slightly wet soft cloth to clean the wireless microphone periodically. You are not allowed to use solvent or detergent.

If you need to clean the pick-up head, unscrew the upper pick-up head from the microphone head anti-clockwise.

Only clean the upper pick-up head

Bodypack transmitter

Use slightly wet soft cloth to clean the device periodically. You are not allowed to use solvent or detergent.

Notes

Before installing your wireless microphone, here are a few things you should know:

- 1) Check to see whatever the local voltage accord with operating receiver voltage (Wrong selection may lead to burn out of receiver)
- 2) Do not disassemble the machine on your own. For internal repair, please contact the local distributor or accepted service center.
- 3) If the machine will not be used for a long time, please disconnect the power plug from receiver.

Cleaning

Please make sure the power is disconnected before cleaning or repairing the machine. The machine can be cleaned by using a soft cloth with water. Dry the machine with a dry cloth and let it air dry for 15 minutes.

Please do not use volatile gasoline, diluents or other chemicals to clean the machine or the surface will be damaged.