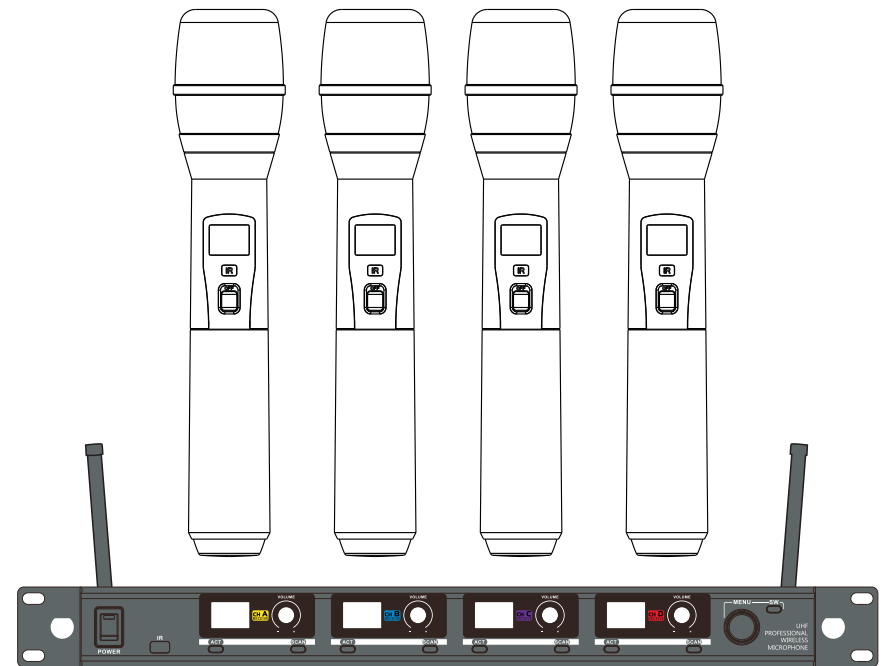


# ***WIRELESS*** MICROPHONE

## **OPERATING MANUAL**



**UHF** 4 MICROPHONE SYSTEMS

Thank you for purchasing our wireless microphone .We take pride in providing our customers with only the most advanced and highest quality karaoke products on the market. Please read through this USER'S MANUAL before operation to ensure proper usage, and keep for future reference. Enjoy!

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## Parts checklist

Before installing your wireless microphone, Here are a few things you should do/know:

|                        |                              |
|------------------------|------------------------------|
| Handheld microphone(4) | 3 ft. male to male cable (1) |
| AC power adapter (1)   | AA battery (8)               |
| Receiver (1)           | User manual                  |

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

## Matters Need Attention

- 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 dismantle the machine on your own. For internal repair, please contact the local distributor or accepted service center.
- 3) When 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 cleaned the machine or the surface will be damage.

## Features and specifications

### Features:

- PLL, 1000 channel selectable
- Microphone and receiver channels auto-sync via infrared
- Four high sensitive microphones with LCD indicators
- Noise reduction technology
- HD OLED Screen indicate RF & AF signal
- Applicable for medium&small stages,karaoke halls and home entertainment etc.
- Independent "Scan" and Sync/ACT" functions key on the receiver.
- Rack mountable (2 machines are needed to fit rack-mount)

### Specifications:

#### Receiver

**Carrier Wave Frequency Range:** UHF 516-541 MHz  
**Oscillation Mode:** Phase-locked Loop controlled  
**Carrier Wave Stability:** 10PPM  
**Sensitivity:** -105dB @ sinad=12 dB  
**S/N Ratio:** >105dB  
**T.H.D.:** <0.5% @ 1KHz  
**Image rejection:** 85 dB typical  
**Spurious rejection:** 75 dB typical  
**Frequency Responses:** 40Hz~18KHz  
**Working distance:**200 feet  
**Squelch Control:**dual-squelch circuit  
**AF Output Impedance:**2.2K $\Omega$   
**Max. Output Level:** Balance : 0-400mv, Unbalance : 0-200mv  
**Display:**LCD  
**Power Supply:** External DC Power Supply, 1.2A, 12~18V DC  
**Output Connector:** 4xXLR Balanced Socket,Unbalance TRs $\phi$ 6.35mm Socket  
**Dimensions (m/m):** 482(L)X45(H)X230(D)  
**Weights (Kg):**4.2

●ut

#### Transmitter

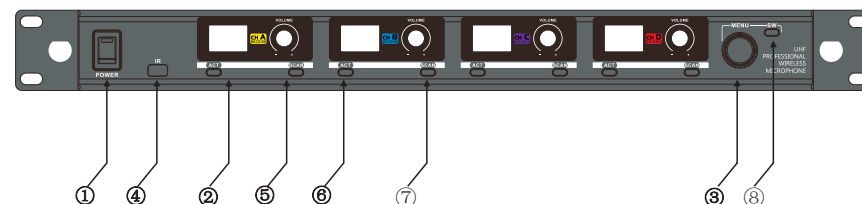
**Transmitter power:** 30mW  
**Spurious emission:** <40dB(with carrier)  
**Display:**LCD  
**Battery voltage:** 1.5V $\times$ 2  
**Battery life:** 8 hours \*Vary by using behavior

## 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.

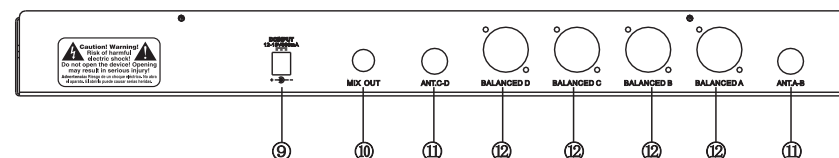
| Problem                                              | Possible cause                                                                                                                                                                                                                                                                                                                                            | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reciver</b><br><br>No sound;<br>No lights         | <ul style="list-style-type: none"> <li>Power button is on the OFF position</li> <li>AC power adater is not plug in</li> <li>Poor connection of AC power adapter</li> <li>How to switch from different channels?</li> </ul>                                                                                                                                | <ul style="list-style-type: none"> <li>Turn on the power button</li> <li>Plug in the AC power adapter</li> <li>Check to see if the AC power adapter is loose. Check on the receiver end and wall outlet end</li> <li>See page 3 for detail</li> </ul>                                                                                                                                                                                                                                     |
| <b>Microphone</b><br><br>No sound;<br>Lights on      | <ul style="list-style-type: none"> <li>The transmitter is out of range</li> <li>Microphone switch is off or mute</li> <li>Microphone volume is turn down</li> <li>Batteries in the microphone are not install properly</li> <li>The antenna is not fully functional.</li> <li>Receiver is not connect to an amplifier, mixer or karaoke player</li> </ul> | <ul style="list-style-type: none"> <li>Operate the machine in the effective range</li> <li>Turn on the microphone switch (indicated green light)</li> <li>Turn on the microphone volume on the receiver</li> <li>Reinstall the batteries. Make sure the positive and negative end are install correctly</li> <li>Try to change the angel of the antenna</li> <li>Connect the ¼ to ¼ cable from the receiver to a microphone input (mixer, player, etc.). See Page 4 for detail</li> </ul> |
| Distorted sound;<br>feedback                         | <ul style="list-style-type: none"> <li>The two microphones are too close together</li> <li>Batteries running low in microphone</li> <li>Microphone volume is too high</li> <li>Distortion from other electric wave</li> </ul>                                                                                                                             | <ul style="list-style-type: none"> <li>Separate the microphone further away</li> <li>Replacement the batteries</li> <li>Reduce the volume of the microphone</li> <li>Move the reciever away from electric equipment</li> </ul>                                                                                                                                                                                                                                                            |
| Batteries still running low even after recharging it | <ul style="list-style-type: none"> <li>Batteries are bad</li> </ul>                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>Replace the batteries.(You can use Normal AA batteries as well. They just can't be recharge)</li> </ul>                                                                                                                                                                                                                                                                                                                                            |

## Receiver Front Panel



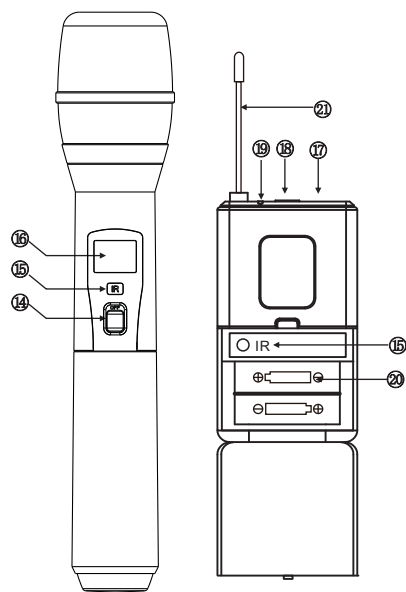
1. Power switch : Press to turn it on/off
2. OLED display panel: Display all information like the frequency channel and group of the microphone.
3. Menu control: The main control to change frequency, group and channel by turning from left to right. Press to confirm the frequency, group or channel.
4. IR Launcher :To submit matching signal to the receiver on the IR window of the microphone in order to make microphone match the same channel with this receiver.
5. Volume control knob: Adjust the volume on the microphone
6. IR sync shortcut (ACT): Press the button to begin IR syncing.
7. Scan: Press to start scanning a clean frequency automatically
8. Switching: This button is to select a channel which you want to operate

## Receiver Rear Panel



9. DC input jack: 12-18V 1200mA
10. Mix out
11. Antennal A/B
12. Balance audio output D/C/B/A

## Transmitters

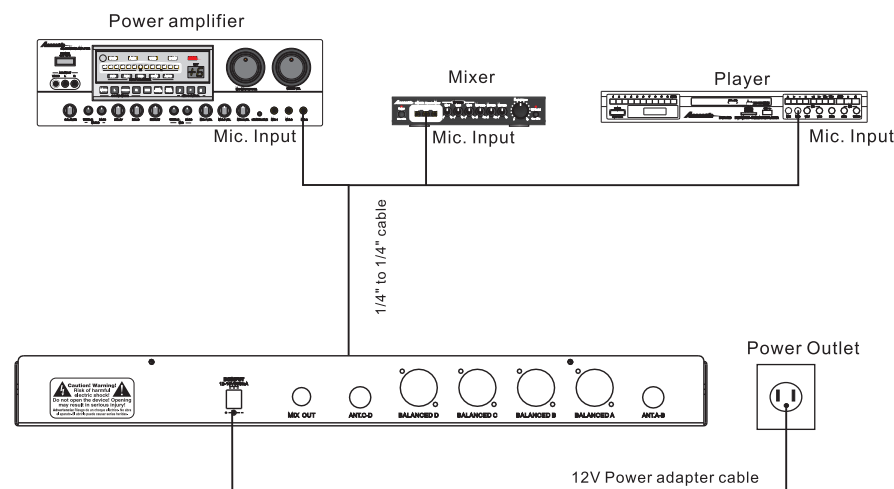


- 14) Power switch
- 15) IR window: It receive the IR signal here from the receiver to complete the IR matching for microphone and receiver.
- 16) LCD Display: Display frequency information
- 17) Power Switch: Turn it on/off by pushing
- 18) Audio Input Interface.
- 19) LED Indicator: Light when turn on. Flashes when low power.
- 20) Battery Store.
- 21) Antenna

## How to operate

- 1) Turn on the receiver by pressing the switch, the OLED show "ON" and then enter into the operation interface.
- 2) Setting group / frequency / channel ---
  - A. Press SW button slightly to choose a channel from the four ones, the other three channels will get dark at the same time.
  - B. Press Menu button to see it display "Group", Turn the Menu control clockwise/anticlockwise to adjust the groups.
  - C. Press the Menu button again to see it display "CH", Turn the Menu control clockwise/anticlockwise to adjust the channels.
  - D. When group display letter "U", Press Menu control again to see the top three frequencies. Turn the Menu control clockwise/anticlockwise to adjust frequency under 1Mhz stepping. To do the same operation to see the bottom three frequency, then turn the Menu control clockwise/anticlockwise to adjust frequency under 25Khz stepping
- 3) IR SYNC/ACT---Put the handheld/bodypack transmitter close to receiver within/meter. Press "Sync" button slightly starting "IR Sync" by facing the IR Launcher from transmitter to IR Window on the receiver until it show "Success".
- 4) Auto Scan--- Press "Scan" button slightly to find a clean frequency until it show "Scan complete". If there's no available frequency, it display "Scan fail" You need to choose a frequency in manually in this condition. It will come back to operation interface when "Auto Scan" is complete.

## Installation



- 1) Contact with 12-18V 1200mA 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 OUTPUT*, use a *XLR to XLR cable* or *XLR to 1/4" cable*.
- 3) Unscrew the microphones handle cover(counter-clockwise) to check to see if there are 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).

## 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.

**§ 15.21 Information to user.**

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**§ 15.105 Information to the user.**

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one 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.