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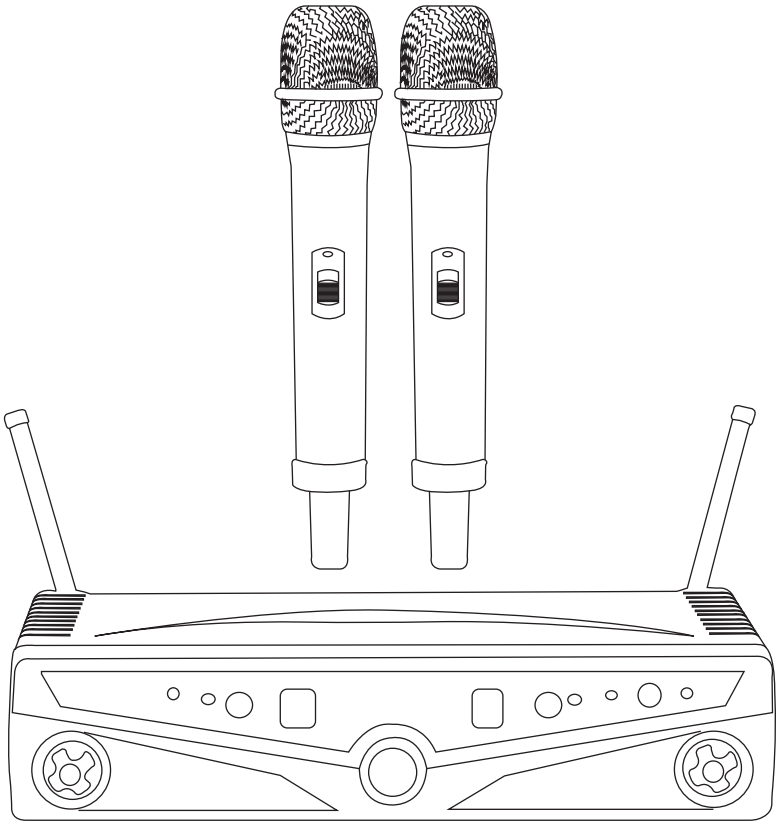


MU-290

OPERATING MANUAL

Wireless Microphone

Thank you for purchasing our wireless microphone. We take pride in providing our custmers 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 refence. Enjoy!

Table of Contents

Table of Contents.....1
Included Accessories.....1
Receiver/Display panel Descriptions.....2
Microphone Descriptions/Operation.....3
Installation.....4
Troubleshooting.....5
Features & Specifications.....6

Parts checklist

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

Handheld microphone(2)
DC power adapter (1)
receiver (1)
USB Cable(1)-optional
3 ft. male to male cable (1)
Rechargeable battery (4) User manual (1)

*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. Please see page 10 for more detail.
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

- Desktop receiver and enhanced muting, high signal/noise ratio
- Almost zero noise output when on standby.
- Broad frequency response range super low distortion.
- NO impact on switching receiver, ensure safety of rear stage amplifier system and speaker.
- Perfect operative status signals, fluorescence display, with digital microphone.
- Long practical distance. Over 30 m in ideal circumstance ,20 m radius in complex circumstances.
- 17x2 frequency design that allows two microphones to be used at the same time without mutual interference.
- Applicable for medium & small stages, karaoke halls and home entertainment etc.

Specifications

Receiver

Carrier Wave Frequency Range: UHF 610~680MHz
Oscillation Mode: Phase-locked Loop controlled
Carrier Wave Stability: 10PPM
Switching bandwidth: 24MHz
Frequency Space:≥250KHz
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:2.2KΩ
Max. Output Level: Balance : 0-400mv, Unbalance : 0-200mv
Display:LCD
Power Supply: External DC Power Supply, 0.5A, 12~18V DC
Output Connector: XLR Balanced Socket Unbalance TRs⊙6.35mm Socket
Dimensions (m/m): 205(L)×142(H)×45(D)
Weights (Kg): 0.87

Transmitter

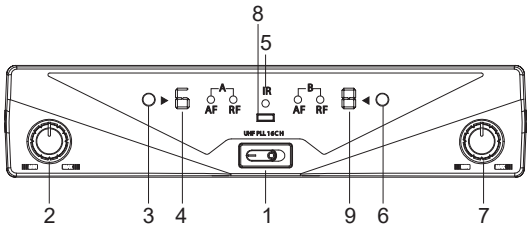
Transmitter power: 30mW
Spurious emission: <40dB(with carrier)
Display:LED
Battery voltage: 1.5V×2
Battery life: 4 hours *Vary by using behavior after charging
Charging time:8 hours

Troubleshooting

If you are having problems operating the, 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.

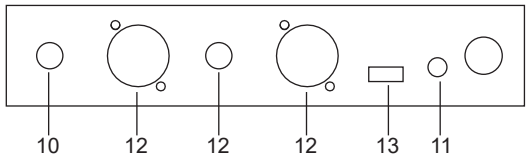
Problem	Possible cause	Solution
Reciver No sound; No lights	• Power button is on the OFF position • DC power adater is not plug in • Poor connection of DC power adapter • How to switch from different channels?	• Turn on the power button • Plug in the DC power adapter • Check to see if the DC power adapter is loose. Check on the receiver end and wall outlet end • See page 2 for detail
Microphone No sound; Lights on	• 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	• 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.). See Page 4 for detail
Distorted sound; feedback	• The two microphones are too close together • Batteries running low in microphone • Microphone volume is too high • Distortion from other electric wave	• Separate the microphone further away • Recharge the batteries • Reduce the volume of the microphone • Move the reliever away from electric equipment

Receiver Descriptions



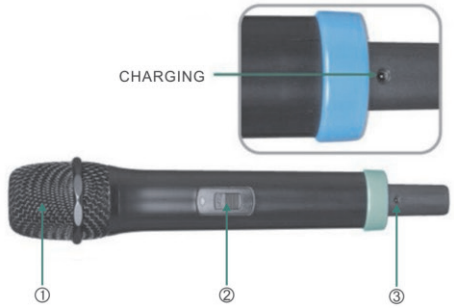
1) Power switch
   Turns the receiver on and off if press.
   To do the IR syncing. First, press button (3) or (6) to choose one of the RF channels. Second, press "IR" button , then put the button of the wireless microphone handheld to face the IR Sync receiver(5), keep the distance between microphone and receiver with-in 1 meter.
2) Channel A volume control knob- Adjust the volume on the microphone A.
3) Left channel selector: to switch between different channels for microphone A.
4) Display panel B - Display the channel of the microphones.
5) IR launcher-To submit matching signal to the receiver on the button of the microphone in order to make microphone match the same channel with this receiver.
6) Channel B selector: to switch between different channels for microphone B.
7) Channel B volume control knob- Adjust the volume on the microphone B.
8) IR sync shortcut - press the button to begin IR syncing.

Rear panel descriptions



10) Channel B antenna - Provide RF signal for the microphone B.
11) 14V DC power connection- Main power jack to power the system. Conect to wall outlet.
12) Audio output jack - Output jack that are used for connecting to amplifier, mixer or karaoke player.supports both balance & unbalance audio output.
13) USB socket-This is to charge the battery on handheld by a USB cable.
14) Channel A antenna - Provide RF signal for the microphone A.

Microphone Descriptions



①Mic Head
②Power/Mute key
③USB Charging Cable Connector

1) Mic Head：Microphone core module is the sound into the audio signal of the main components.

2) A: Power switch:Turn on microphone by pushing the switch towards the ON position green LED indicated pushing the switch towards OFF to turn off the power
B: Charging display:connect the USB charging cable at shutdown state, the light is flashing, red color indicate full power
C: Low battery Indicator: Red light will flashing when low power recharge or replace the battery as soon as possible.

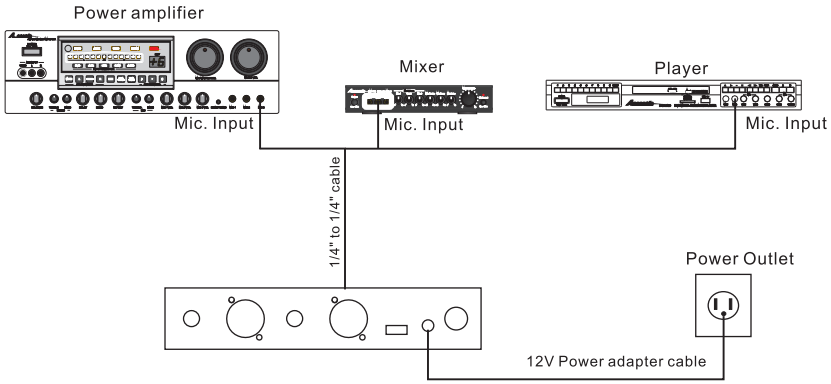
3) USB Charging cable interface:connect the hole of the USB charging wire.

NOTE: Make sure the rechargeable battery in the battery compartment before connecting the USB charging cable.

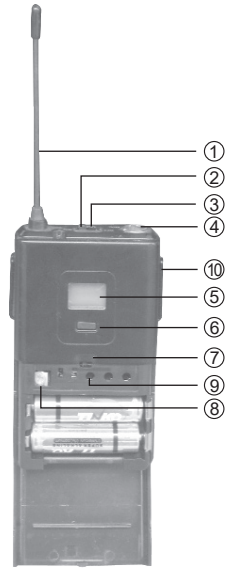
Operation & switching channels

1) Install batteries.
2) Turn on microphone by pushing the switch towards the ON position.
3) After you are done singing, push the switch towards OFF.
4) If you are not going to use the microphone for a long period of time, turn off the microphone and pull out the batteries to avoid deterioration and damage toward the components.
5) When IR syncing, microphone needs to stay power on, but can be either working or mute mode. After switching channel on the receiver, press power button shortly on the receiver to start IR syncing. Then put the button part of the microphone to face the IR launcher on the receiver, the distance need to be under 1 meter.

Installation



1) Connect the DC *POWER ADAPTER* to the receiver's DC *INPUT 110V~240V,* then plug the other end of *AC POWER ADAPTER* into the *WALL OUTLET*.
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 rechargeable batteries. If not, install the rechargeable 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).

Body Pack Transmitter (optional)

1) Transmission antenna
2) Operating indicator- When it lights up red, the body-pack is now in working condition. When it is flashing red, it means the battery is low that was unable to keep working within haft an hour. Please replace the battery shortly.
3) Power switch- With "ON", "MUTE" and "OFF" position optional.
4) Input socket- It's used to connect the headset or lavalier microphone.
5) LCD screen- Display the channel and batteries status
6) Operation button-Hold the switch button for 1.5 second to turn on/off the power, then press the operation button softly again for 0.5 second to confirm the IR syncing.
7) Battery cover- This is the base of the microphone body-pack that you would hold it. Its' also a battery compartment that you install the batteries.
8) AF gain control- Control the audio output to match the transmitter. (It's already tested by manufacturer. Don’t adjust it if not required)
9) IR Window- This is used to receive the IR signal.
10) Waist clip: Fix the body-pack with waist while using the microphone.