

**TWIN CHANNEL PROFESSIONAL UHF
WIRELESS MICROPHONE SYSTEM**

MP-550U

USER GUIDE



Unify Technologies

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TWIN CHANNEL PROFESSIONAL UHF WIRELESS MICROPHONE SYSTEM

Thank you for buying our excellent wireless microphone series products. Before you use our products please read this Owner's Manual so that you can enjoy it.

If you want to buy more than two wireless microphones, and you are to use them together, please choose those products that frequencies are different. If the frequencies are the same, you'd better separate them at least 100m in case they interfere each other.

System Composition

1. Receiver *1
2. Wireless Microphones *1
3. Audio Cable * 1
4. Power Adapter *1
5. Battery 1.5v *6

★ ATTENTION:

1. Avoid putting the main machine in a blind angle when it is used. This is for keeping signal-receiving in good condition.
2. Don't throw fall, toss, cast the handling microphone when it is used, and in case damage it seriously.
3. Please keep the machine from direct sunshine or rains, and put it in a place as far as possible from the magnetic field.
4. Don't open it yourself, because there is high voltage in it.

I. Function Introduction

Our special wireless microphone system has these characteristics as the following. For many reasons, such as low frequency, traditional wireless microphone system is easy to be interfered especially because many machines CD, VCD and LD, radiate out too many harmonic. To solve this problem we design this kind professional wireless microphone. We adopt a series of measures to improve its functions, advance frequency, using multilevel high frequency and mid frequency narrowband filter, multiple noise detect and control. We also design its special functions (tone key locked identity) to avoid interference from outside.

II. Main Function

- Using UHF 550 MHz band to avert interference frequency
- Using multilevel high frequency and mid frequency narrowband filter, so as to dispel any possible interference signals.
- The wireless microphone looks good and is useful
- There is a volt indicating circuit in the microphone. It can tell you if it is necessary to change the battery.
- A specially designed circuit switch is on the phone. It is for clearing up waves of miscellaneous signals.
- All use quartz crystal oscillating circuits, so the frequency is very steady.
- With audio compressing-expanding technology, the machine can lower noises and increase the dynamic range. It can also lower reecho.
- Particular noise detects to avoid interference from outside open the mute system.
- Choose excellent chipset and high quality component, so that its timbre is very good.
- Longest distance in open: 80m Idealist distance in open: 50m
- It is suitable for stages, ballrooms, auditoria, classroom and families.

III. Operation of the Receiver

1. Pull out the antenna A&B, making them be perpendicular with the machine.
2. Power line connection to DC17V socket.
3. Connection of the audio output: one end of the audio cable into “MIX” socket and other end audio amplifier or mixer’s “MIC IN” or “AUX IN” socket.
4. Push the power switch, the power-indicating light is lighted.
5. When the microphone is working the “SIGNAL” light of the receiver is lighted. The receiver output voice, volume of the receiver can be controlled by adjusting the volume knob.

★ Attention when you install of the receiver

It should be more than 1m high from the floor.

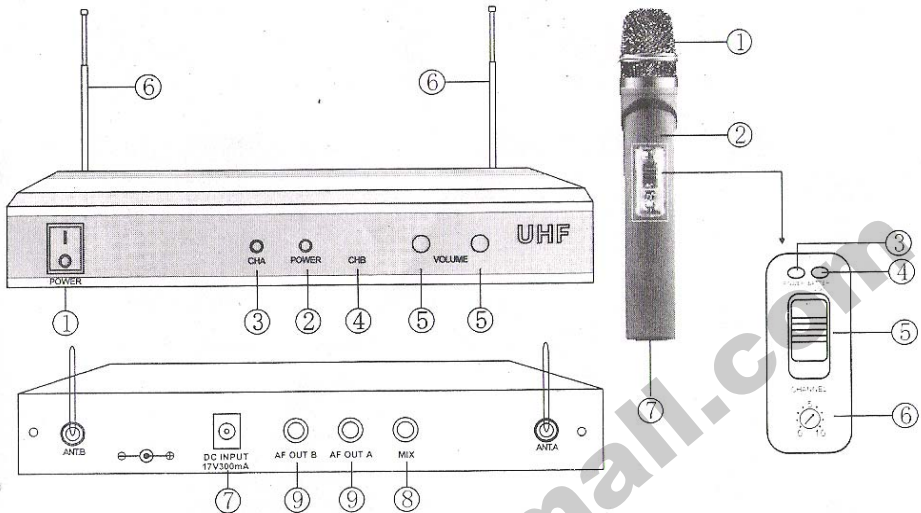
It should be more than 1m beyond the wall

Antennas should be put out fully; otherwise it'll influence receiving signals.

IV. Operation of the Microphone

1. Open the battery cover then put in the battery. Attention: the polarity should be right.
2. Turn on the microphone. If the light does not twinkle or is always lighted, you should check the battery if the voltage is enough or the battery is well arranged.
3. Turn the mute switch to middle; the receiver will cut out audio output.

V. CONTROL AND FUNCTION LIST (Receiver)



Power Switch:

When the switch is on, the receiver works.

Power Supply Indicator:

Turn on the power switch, the indicator is lighted.

Channel A Signal Indicator:

When the microphone power is on, it is lighted.

Channel B Signal Indicator:

When the microphone power is on, it is lighted.

Volume-Controlling Knob:

Adjust the output level of the channel A or B.

Antenna A And B:

50 ohm 1/4 wavelength

Power Input Socket:

DC17V Input

Mix Output Socket:

Output Impedance: 600 Ohm

Balanced Socket Of Channel A And B:

Output impedance: 600 ohm

VI. Control and Function List (Handheld)

Construction:

1. Screen Head
2. Microphone Body
3. Power LED
4. Low Power LED
5. ON/OFF Power Switch
6. AF Level
7. Battery Cover

VII. Specification

1. Comprehensive Performance

- Carrier Frequency: Uhf 550 MHz
- Frequency Stabilization: Less Than ± 30 ppm
- Dynamic Range: More than 90db
- Total Harmonic Distortion: Less Than 0.5%
- Frequency Response: 40 Hz—15 KHz ± 3 db
- Audio Output Level: Separate Type: 0-- ± 400 mv
- Mix Type: 0-- ± 200 Mv

2. Fixed Receiver

- Power supply: DC17V
- Consume power: 4mater
- Signal/noise ratio: more than 90DB
- Image & spurious rejection: more than 80db
- Border upon channel rejection: more than 80db
- Receiving sensitivity: 10 dBuV (SINAD=30DB)
- De-emphasis: 50us

3. Handing Microphone

- Transmitter Power: 8.5mw
- Modulation Type: Fm, F3f
- Max Deviation: ± 25 khz
- Spurious Emission: More Than 40 Dbb (With Carrier)
- Battery Woltage: 1.5v*3
- Continous Using: 6 Hours

VIII. Repair with Simple Fault

1. Turn on the receiver, but the indicator is not lighted.
 - ✓ Make sure if the power cable is well fixed. Is the socket in good condition?
 - ✓ Is the fuse blown?
2. When you speak, the “AUDIO” light twinkles, but no sound output.
 - ✓ Make sure if the volume keep in lowest place or the audio cable is not fixed well.
3. The effective signal-receiving distance becomes close and signal receiving is not well.
 - ✓ Perhaps you should have not put out the antennas.
 - ✓ Perhaps you should change a new battery.
 - ✓ Perhaps the receiver is not put in right place.
 - ✓ Perhaps there is a strong magnetic field in your surroundings.
4. Timbre Becomes Bad
 - ✓ Perhaps the voltage of the battery is not enough. You need change. Perhaps there are the same frequency signals in your surroundings. Do not use two machines with the same frequency at the same time in a place. (Separate them at least 100m)
 - ✓ Don't open and repair it when some serious breakdown happens. Please connect the seller or our company, we'll help you whole heartfellt, thank you!

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