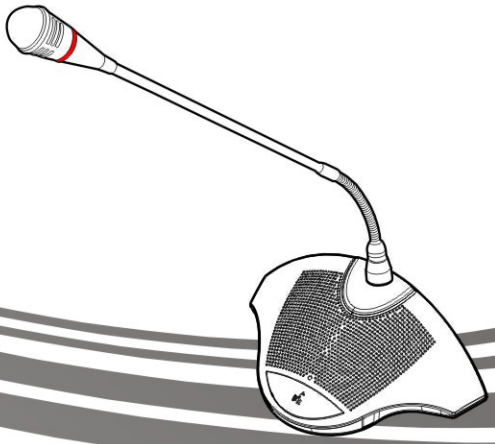
WIRELESS CONFERENCE MICROPHONE SERIES

Operation Instructions



Professional Wireless Conference Microphone

This instruction manual includes several types of microphone and receiver. Read the relevant chapters according to the type before usage. Keep it for future reference.

Foreword

Thank you very much for choosing our company's professional wireless conference microphone system. In order to make full use of the product, we highly suggest you read the instruction manual before usage.

This series of professional wireless conference system is adopting VHF and UHF, which can choose different frequency range according to clients' requirements. VHF have strong piercing power, long distance effective, low power consumption and other characteristics. UHF using PLL frequency synthesizer technology, which can avoid all kinds of interference easily. By using infrared ray automatic channel tracing and system locking, this series of emitters can easily connect to the receiver, especially fitting in circumstances of using several sets of products in the same time.

Content

1.Features

1. Equipped with LCD screen, convenient to know the working parameters
This series of products are all equipped with LCD screen, making operation easy and convenient.

2. Professional audio output: XLR balanced output and ¢6.3 unbalanced output.
This series of products are all adopt XLR balanced output and ¢6.3 unbalanced output, independently or combined, fitting in all kinds of equipment connection and avoiding the chaos and embarrassments caused by equipment unmatched.

3. Auto-mute and noise canceller circuit, eliminating the noise of turning on and off the machine.

4. Adopt highly reliable SMT production
The series of products are using high-quality components and SMT assembly process, which ensures a high stability and quality.

2.Safety instructions

- ◆Read this instruction manual.
- ◆Keep this instruction manual for future reference.
- ◆Follow all instructions in this instruction manual.
- ◆Do not place the product near any heat sources such as radiators, stoves, or other devices that product heat. If you are not going to use the product for a long time, pull out the battery. Do not throw or drop the product in case it causes severe damages.
- ◆Be aware of the supply voltage. Only the supply voltage listed on the instruction manual fits the product.
- ◆Only use accessories specified by our company.
- ◆Never open the device. If devices are opened by customers in breach of this instruction, the warranty becomes null and void. Turn to the professional mechanic or local dealer for help if there is something wrong with the product.
- ◆If components are needed to replaced, replace them with original components produced by our company.
- ◆Leave the devices the minimum space of 30 mm for proper ventilation. Do not cover the vent with newspapers, cloths, curtains, etc. Do not place the devices near fire or water. Only professional mechanic can assemble the devices if it is labeled with hazard warning sign"⚡" .

Recycle the replaced battery.

The devices can be used in tropical or temperate regions.

It is only for safe use in the area with an altitude of below 2,000 meters.

※Adapter and circuit are working all the time as both receiver and transmitter have switch-noise-elimination circuits inside. So please unplug the power cord of receiver and take out the batteries of transmitter when they are not used.

3.Operation instruction for transmitter

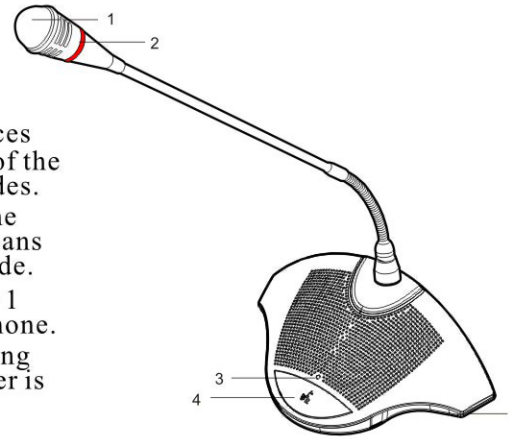
3.1Operation instruction

1.Open the bottom battery compartment and insert 2 pieces AA 1.5V batteries. Be aware of the positive and negative electrodes.

2. Touch the power switch. The light ring will be on which means the device is in functional mode.

3. Touch the power switch for 1 second to turn off the microphone.

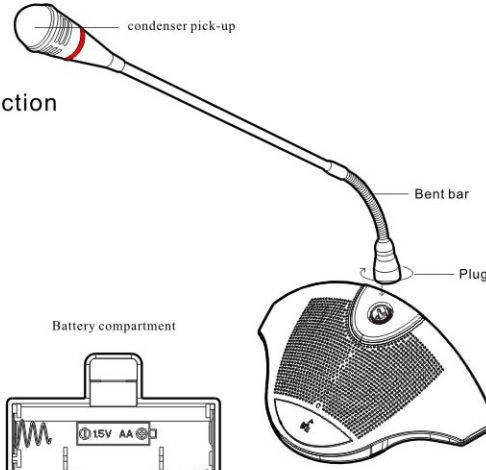
4.Low voltage light will shining red all the time when the power is low



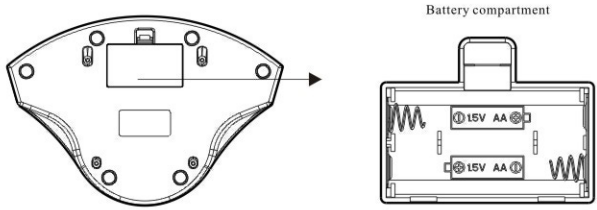
1.Microphone 2.Operating light
3.Low-voltage light 4. Power switch
5.Battery compartment

3.2 Transmitter function instruction

3.2.1 Installation graphic instruction



3.2.2 Battery install instruction



CAUTION:BE AWARE OF THE POSITIVE AND NEGATIVE ELECTRODES! IF THE DEVICE IS NOT GOING TO BE USED, PLEASE TAKE OUT THE BATTERIES.

4.Operation instruction for receiver

4.1Working environment requirement for receiver

Connect the receiver with antenna and adjust the antenna to vertical. Note that mental, wall, ceiling, human body will weaken the transmitter's signal. For best effect, please follow the rules. The transmitter should be placed as near the spot as possible. Keep the minimum distant of 1.5m with mental, wall, scaffold, ceiling, etc. Make sure the transmitter and receiver are accessible straight forward.

4.2 Operating procedure

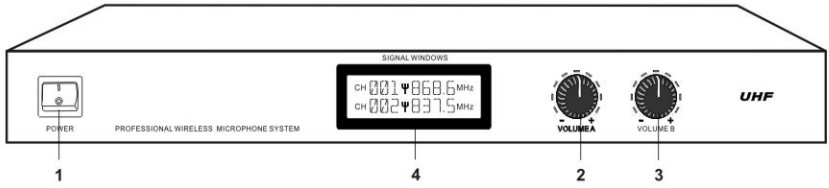
1. Connect the electricity supply.
2. After turning on the receiver, the LCD screen will show the working parameters.
3. Connect the receiver's MTX OUT and MIC with audio connecting line. Adjust to reasonable volume.

4.3.Receiver's LCD screen graphic instruction

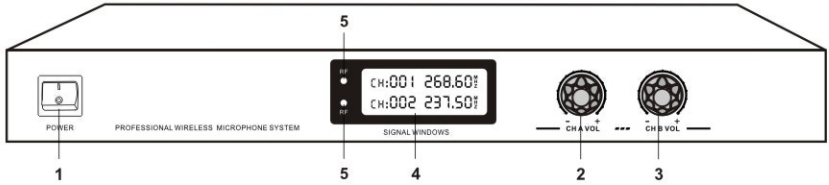
1.Channel display 2. Receive sign display 3. Frequency display

5.Two-channel receiver

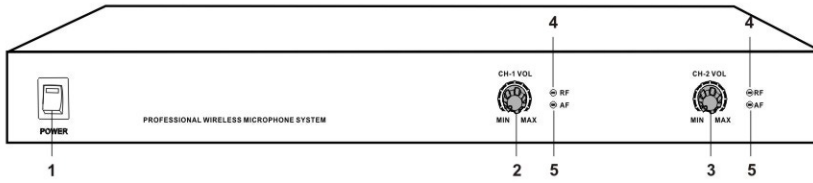
5.1Front panel of two-channel receiver



1.Power switch 2.A channel knob 3.B channel knob 4.A.B channel LCD screen

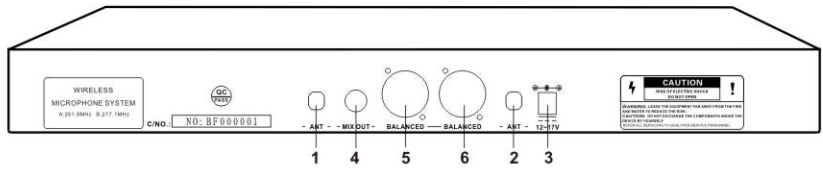


1.Power switch 2.A channel knob 3.B channel knob 4.A.B channel LCD screen
5.RF signal light



1.Power switch with light 2.A channel knob 3.B channel knob 4.RF signal light
5.AF signal light

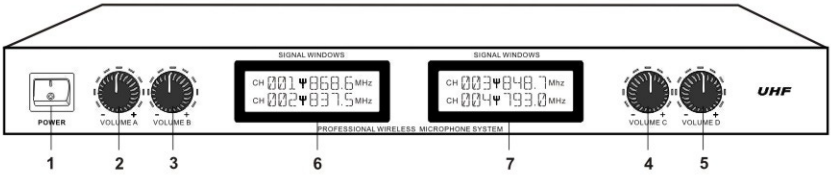
5.2 Back panel of two-channel receiver



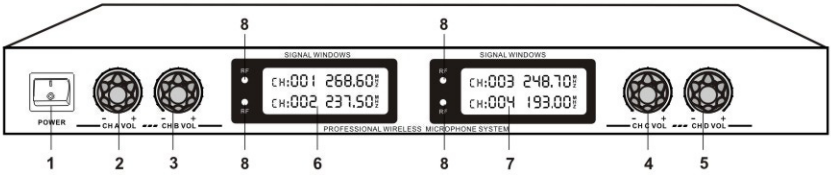
1. B channel antenna 2. A channel antenna 3. DC socket 4.Hybrid unbalanced output
5. B channel balanced output 6.A channel balanced output

6.Four-channel receiver

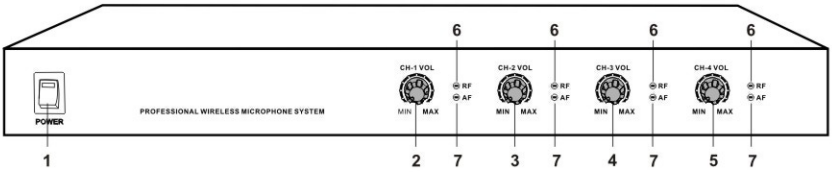
6.1Front panel of four-channel receiver



1. Power switch 2. A channel knob 3. B channel knob 4. C channel knob
5. D channel knob 6. A.B channel LCD screen 7. C.D channel LCD screen

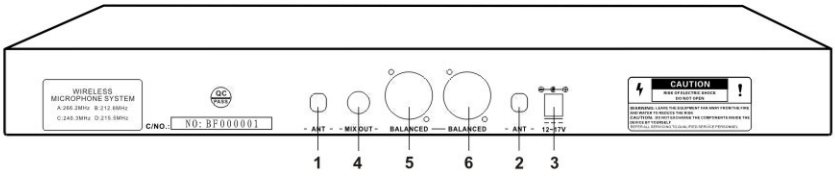


1. Power switch 2. A channel knob 3. B channel knob 4. C channel knob
5. D channel knob 6. A.B channel LCD screen 7. C.D channel LCD screen 8.RF signal light



1. Power switch with light 2. A channel knob 3. B channel knob 4. C channel knob
5. D channel knob 6. RF signal light 7. AF signal light

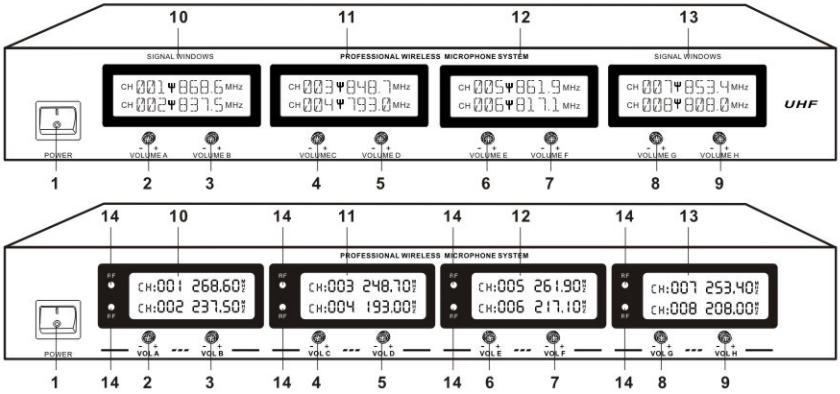
6.2 Back panel of four-channel receiver



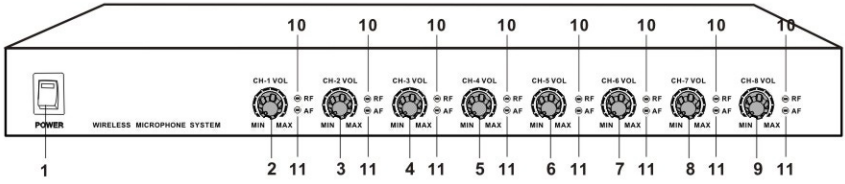
1. C.D channel antenna 2. A.B channel antenna 3. DC socket 4. Hybrid unbalanced output
5. C.D channel balanced output 6. A.B channel balanced output

7.Eight-channel receiver

7.1Front panel of eight-channel receiver

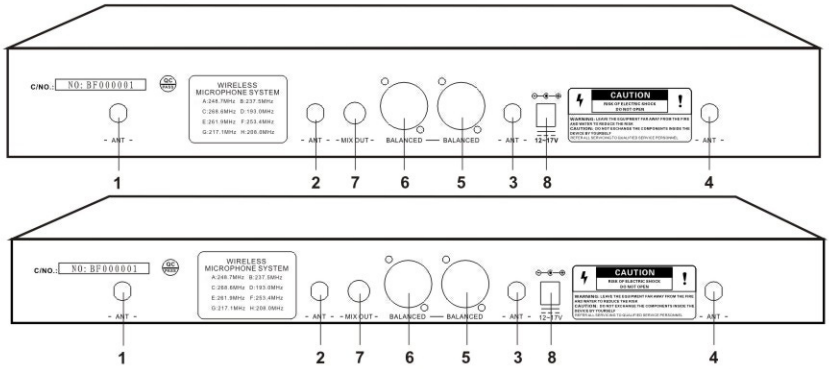


1. Power switch 2. A channel knob 3. B channel knob 4. C channel knob 5. D channel knob
6. E channel knob 7. F channel knob 8. G channel knob 9. H channel knob
10. A.B LCD screen 11. C.D LCD screen 12. E.F LCD screen 13. G.H LCD screen
14. RF signal light



1. Power switch with light 2. A channel knob 3. B channel knob 4. C channel knob
5. D channel knob 6. E channel knob 7. F channel knob 8. G channel knob
9. H channel knob 10. RF signal light 11. AF signal light

7.2 Back panel of eight-channel receiver



1. G.H channel antenna 2. E.F channel antenna 3. C.D channel antenna
4. A.B channel antenna 5.A.B.C.D channel balanced output 6. E.F.G.H channel balanced output
7.Hybrid unbalanced output 8.DC socket

8.Product parameters

8.1VHF model

8.1.1 Receiver's parameters

Mode of oscillation :Quartz Crystal

Frequency range :VHF190MHz-280MHz

Frequency stability :±0.001%

Maximum frequency deviation:±25KHz

Modulation system :FM

Signal-to-noise ratio :>105dB

Distortion factor :<0.5%@1KHz

Sensitivity :1.2/UV@S/N=12dB

Power supply :DC:12V-17V

Audio output :Independent 0-400mV

Hybrid 0-300mV

Power :6w

8.1.2.Emitter's parameters

Power supply :DC 3V (1.5V AA*2)

Power consumption :60mA

Carrier frequency :VHF 190MHz-280MHz

Frequency stability :±25KHz

Signal-to-noise ratio :>105dB

Adjacent frequency interference ratio:>80dB

Dynamic range :>100dB

Type :Condenser

Polarity Mode :One direction

Frequency response :40Hz-20KHz

Sensitivity :-47±3dB@1KHz

Power :10mW

8.Product parameters

8.2 UHF model

8.2.1Receiver's parameters

Mode of oscillation :PLL syntheized

Frequency range :UHF700MHz-900MHz

Frequency stability :±0.001%

Maximum frequency deviation :±50KHz

Modulation system :FM

Signal-to-noise ratio :>105dB

Distortion factor :<0.5%@1KHz

Sensitivity :1.2/UV@S/N=12dB

Power supply :DC:12V-17V

Audio output :Independent 0-400mV

Hybrid 0-300mV

Power :6w

8.2.2.Transmitter's parameters

Power supply :DC 3V (1.5V AA*2)

Power consumption :60mA

Carrier frequency :UHF 700MHz-900MHz

Frequency stability :±25KHz

Signal-to-noise ratio :>105dB

Adjacent frequency interference ratio:>80dB

Dynamic range :>100dB

Type :Condenser

Polarity Mode :One direction

Frequency response :40Hz-20KHz

Sensitivity :-47±3dB@1KHz

Power :10 mW

9.Solutions to breakdowns

Breakdowns	Causes	Solutions
The microphone indicator light is not operating.	The microphone is in use.	Some types of microphone will not have a lighted indicator light when it is working.
	Improper battery installation	Reinstall the battery.
	Battery level is too low.	Replace the batteries.
	Battery contact plate is dirty or rusted	Clean or replace the battery contact plate.
The receiver is not energized.	The utility is not energized.	Check the utility.
	The external power supply failure	Replace the external power supply of the receiver
The receiver cannot be connected.	The microphone is off.	Turn on the microphone.
	Frequency is not macth	Adjust the frequency.
	The microphone is too far away.	Keep the microphone near.
The receiver can receive but without sound.	The volume knob is at the minimum.	Adjust the volume.
	Improper connection of audio connecting.	Reconnect the audio connection.
Before the emitter is on, the receiver can receive but with noise.	There might be other devices with the same frequency near.	Change the frequency of the system to avoid interference.
On and off sound	Too far away	Keep it near
On and off	Complicated environment	Avoid metal, wall, crowds, etc as they will weaken the signal.

Care and maintenance

Before fixing or cleaning the device, cut of the electricity supply. Clean it with soft cloth. For spots, clean it with cloth that hasneutral cleaning solvent and dry it with another cloth. Do not use gasoline, diluents or any other chemical product, or else the surface will be damaged.

10.Connection instruction

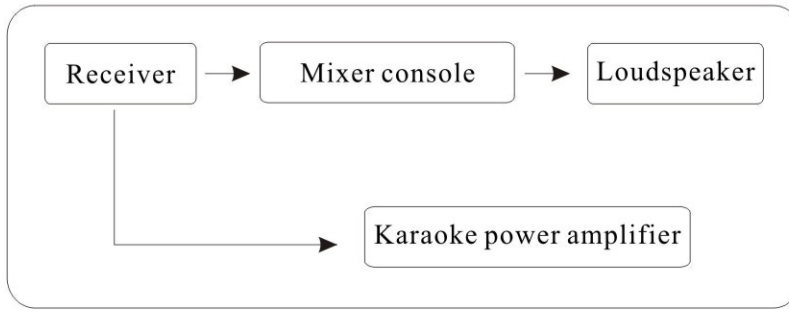
Operations

1.For connection to other devices, please refer to the Flow Chart below. The Receiver's OUTPUT should be connected to the Amplifier's MIC INPUT.

2.Power supply is DC12~17V. Turn on the Receiver and adjust the connected audio equipments' volumes.

3.Take the batteries out of Transmitter when long time no use.

Connection instruction



Attention:

1 meter above floor

At least 1meter to wall

Antenna vertical to the receiver

This operation manual would be revised at any time without prior notice.

This manual contains needed information as much as possible. If there is anything unclear, wrong or omitted, please don't hesitate to contact us for confirmation. The company is free from all the damage and loss caused by no confirmation.

For testing and maintenance, please contact us or our authorized distributors through the dealer from whom you purchased this product. The company assumes no responsibility for any loss or damage resulting from testing and maintaining this unit by unqualified personnel.