

WIRELESS CONFERENCE MICROPHONE SERIES

Professional Wireless Conference Microphone

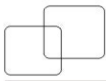


VHF 190-280MHZ

UHF 700-900MHZ

Operating instructions

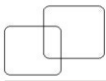
This instruction manual includes several types of microphone and receiver. Read the relevant chapters according to the type before usage. Keep it for future reference.



Foreword

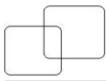
Thank you very much for choosing our company's professional wireless conference microphone system. In order to make full use of the product, we highly suggest you read the instruction manual before usage.

This series of professional wireless conference system is adopt 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 any kind 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.



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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.

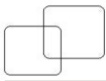
2. Professional audio output: XLR balanced output and ϕ 6.3 unbalanced output.

This series of products are all adopt XLR balanced output and ϕ 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

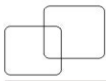
This series of products use high quality of components, apply SMT production, increase the stability and quality.



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 produce 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 knock down 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 be 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.

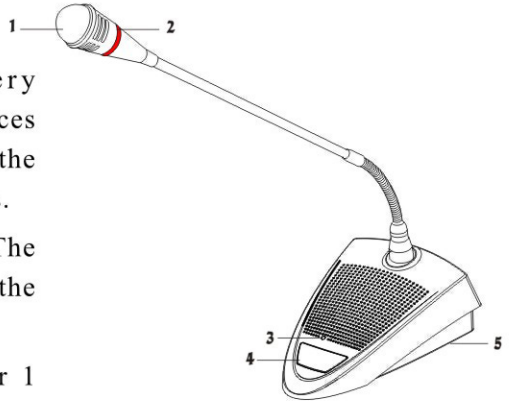
※ If the device is not going to be used, turn it off.



3.Operation instruction for transmitter

3.1 Operation instruction

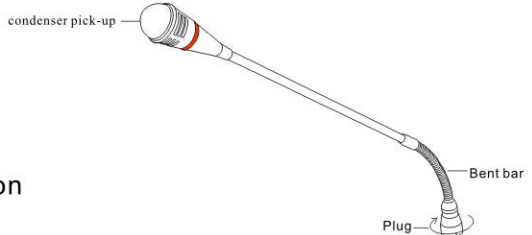
1. Open the bottom battery compartment and insert 2 pieces AA 1.5V batteries. Be aware of the positive and negative electrodes.
2. Touch the power switch. The light will be on which means the device is in functional mode.
3. Touch the power switch for 1 second to turn off the microphone.



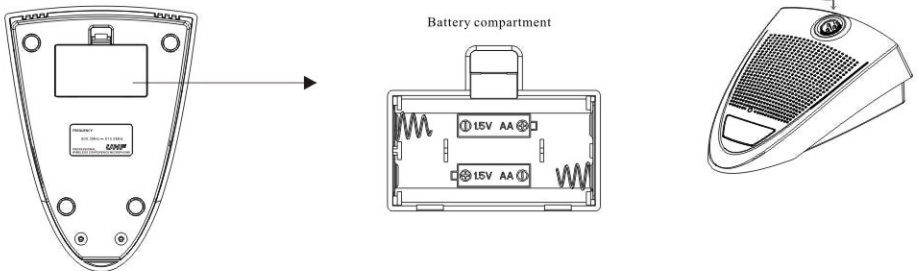
1. Microphone 2. Operating light
3. Low-voltage light 4. Power switch
5. Battery compartment

3.2 Transmitter function instruction

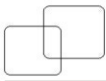
3.2.1 Installation graphic instruction



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 emitter

4.1 Working environment requirement for emitter

Connect the receiver with antenna and adjust the antenna to vertical. Note that mental, wall, ceiling, human body will weaken the emitter's signal. For best effect, please follow the rules. The emitter 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 emitter and receiver are accessible straight forward.

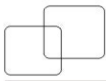
4.2 Operating procedure

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. Emitter LCD screen graphic instruction

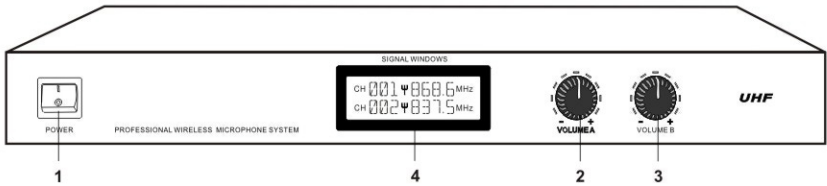


1. Channel display 2. Receive sign display 3. Frequency display

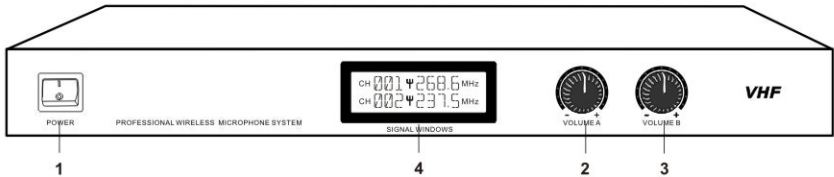


5. Two-channel receiver

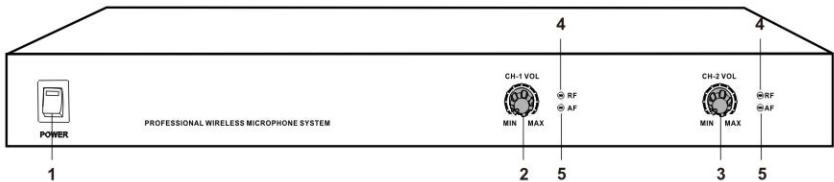
5.1 Front panel of two-channel receiver



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

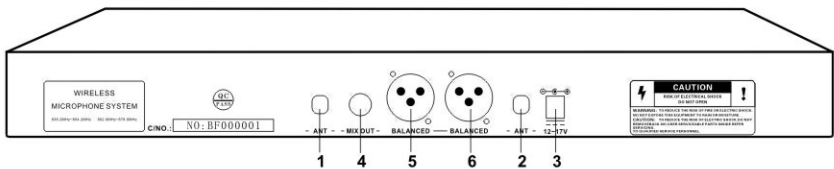


1. Power switch 2. A channel knob 3. B channel knob 4. A.B channel LCD screen

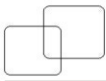


1. Power switch with light 2. A channel knob 3. B channel knob 4. RF signal light
5. AF signal light

5.2 Back panel of two-channel receiver

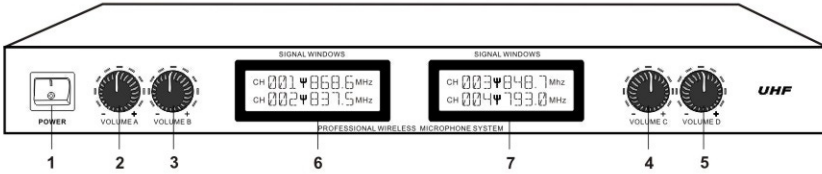


1. B channel antenna 2. DC socket 3. DC socket
4. Hybrid unbalanced output 5. B channel balanced output 6. A channel balanced output

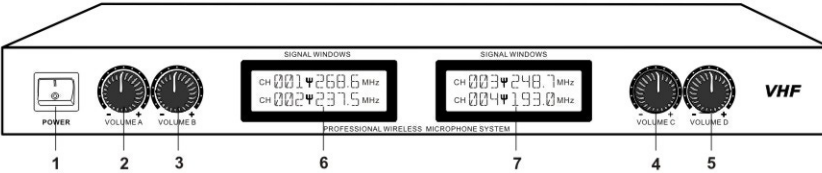


6. Four-channel receiver

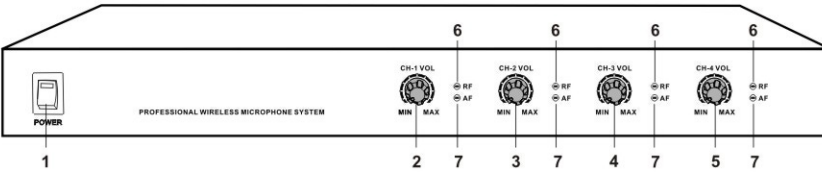
6.1 Front panel of four-channel receiver



- 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

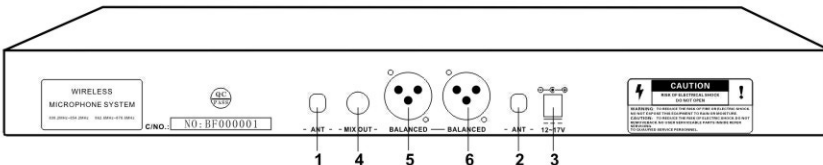


- 1. Power switch
- 2. A channel knob
- 3. B channel knob
- 4. C channel knob
- 5. D channel knob
- 6. A.B channel LCD screen
- 7. C.D channel LCD screen

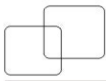


- 1. Power switch with light
- 2. A channel knob
- 3. B channel knob
- 4. C channel knob
- 5. D channel knob
- 6. RF signal light
- 7. AF signal light

6.2 Back panel of four-channel receiver

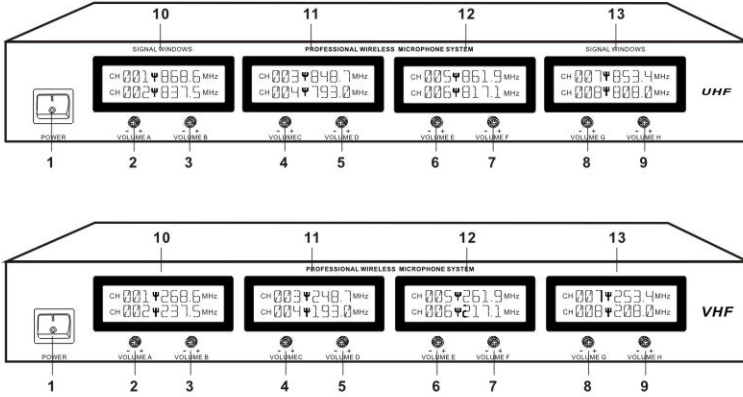


- 1. C.D channel antenna
- 2. DC socket
- 3. Hybrid unbalanced output
- 4. A.B channel antenna
- 5. C.D channel balanced output
- 6. A.B channel balanced output

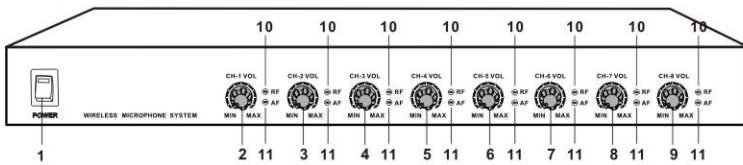


7.Eight-channel receiver

7.1 Front panel of eight-channel receiver

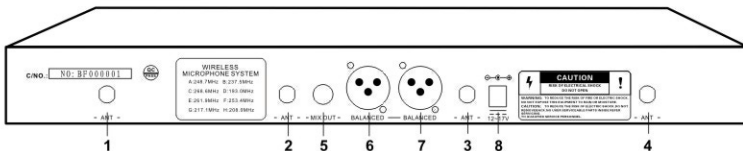


- 1. Power switch
- 2. A channel knob
- 3. B channel knob
- 4. C channel knob
- 5. D channel knob
- 6. E channel knob
- 7. F channel knob
- 8. G channel knob
- 9. H channel knob
- 10. A.B LCD screen
- 11. C.D LCD screen
- 12. E.F LCD screen
- 13. G.H LCD screen

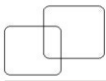


- 1. Power switch with light
- 2. A channel knob
- 3. B channel knob
- 4. C channel knob
- 5. D channel knob
- 6. E channel knob
- 7. F channel knob
- 8. G channel knob
- 9. H channel knob
- 10. RF signal light
- 11. AF signal light

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. Hybrid unbalanced output
- 6. E.F.G.H channel balanced output
- 7. A.B.C.D channel balanced output
- 8. DC socket



8. Product parameters

8.1 VHF model

8.1.1 Receiver's parameters

Mode of oscillation :Quartz Crystal

Frequency range :VHF 170MHz-270MHz

Frequency stability : $\pm 0.001\%$

Maximum frequency deviation: $\pm 25\text{KHz}$

Modulation system :FM

Signal-to-noise ratio : $>105\text{dB}$

Distortion factor : $<0.5\% @ 1\text{KHz}$

Sensitivity : $1.2/\text{UV} @ \text{S/N}=12\text{dB}$

Power supply :DC:12V-17V

Audio output :Independent 0-400mV
Hybrid 0-300mV

Power :6 w

8.1.2. Emitter's parameters

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

Power consumption :60mA

Carrier frequency :VHF 170MHz-270MHz

Frequency stability : $\pm 25\text{KHz}$

Signal-to-noise ratio : $>105\text{dB}$

Adjacent frequency interference ratio: $>80\text{dB}$

Dynamic range : $>100\text{dB}$

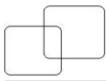
Type :Capacitance

Polarity Mode :One direction

Frequency response :40Hz-20KHz

Sensitivity : $-47 \pm 3\text{dB} @ 1\text{KHz}$

Power :10mw



8. Product parameters

8.2 UHF model (A series)

8.2.1 Receiver's parameters

Mode of oscillation : PLL synthesized

Frequency range : UHF 700MHz-900MHz

Frequency stability : $\pm 0.001\%$

Maximum frequency deviation : $\pm 50\text{KHz}$

Modulation system : FM

Signal-to-noise ratio : $>105\text{dB}$

Distortion factor : $<0.5\% @ 1\text{KHz}$

Sensitivity : $1.2/\text{UV} @ \text{S/N}=12\text{dB}$

Power supply : DC: 12V-17V

Audio output : Independent 0-400mV
Hybrid 0-300mV

Power : 6w

8.2.2. Emitter's parameters

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

Power consumption : 60mA

Carrier frequency : UHF 700MHz-900MHz

Frequency stability : $\pm 25\text{KHz}$

Signal-to-noise ratio : $>105\text{dB}$

Adjacent frequency interference ratio : $>80\text{dB}$

Dynamic range : $>100\text{dB}$

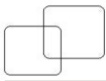
Type : Capacitance

Polarity Mode : One direction

Frequency response : 40Hz-20KHz

Sensitivity : $-47 \pm 3\text{dB} @ 1\text{KHz}$

Power : 10mw



8. Product parameters

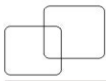
8.3 UHF model (B series)

8.3.1 Receiver's parameters

Mode of oscillation	: PLL synthesized
Frequency range	: UHF 500MHz-900MHz
Frequency stability	: $\pm 0.001\%$
Maximum frequency deviation	: $\pm 50\text{KHz}$
Modulation system	: FM
Signal-to-noise ratio	: $>105\text{dB}$
Distortion factor	: $<0.5\% @ 1\text{KHz}$
Sensitivity	: $1.2/\text{UV} @ \text{S/N}=12\text{dB}$
Power supply	: DC: 12V-17V
Audio output	: Independent 0-400mV Hybrid 0-300mV
Power	: 6w

8.3.2. Emitter's parameters

Power supply	: DC 3V (1.5V AA*2)
Power consumption	: 60mA
Carrier frequency	: UHF 500MHz-900MHz
Frequency stability	: $\pm 25\text{KHz}$
Signal-to-noise ratio	: $>105\text{dB}$
Adjacent frequency interference ratio	: $>80\text{dB}$
Dynamic range	: $>100\text{dB}$
Type	: Capacitance
Polarity Mode	: One direction
Frequency response	: 40Hz-20KHz
Sensitivity	: $-47 \pm 3\text{dB} @ 1\text{KHz}$
Power	: 10mw

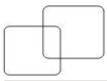


9. Solutions to breakdowns

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 match	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.

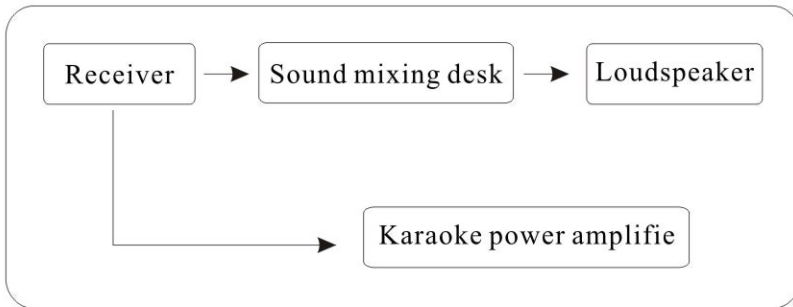


10. Connection instruction

Operations

1. According to the picture, connect the receiver with other devices.
Receivers MIX OUT connect with amplifier independent output
connect with the two MIC of the amplifier.
2. The proper electricity supply is DC:12-17V. After turning on the receiver, set up the reasonable volume.
3. Pull out the batteries every time you finish using the emitter.

Connection instruction



Attention:

1 meter above floor
At least 1meter to wall
Antenna vertical to the receiver

This Operation Manual Is Subject To Be Revised Without Notice.

This Manual Contains As Much Needed Information As Possible. And If There Is Anything Wrong Or Omitted, Please Don't Hesitate To Contact Us For Confirmation. The Company IS Freed From All And Damage Caused By No Confirmation.

For Testiong And Service, Please Contact Contact Us Or Our Authorized Distributors Through The Dealer Form Whom You Purchased This Product. The Company Will Be Freed From The Loss And Damage Of Servicing This Unit Yourself Or By Uncertified Dealers