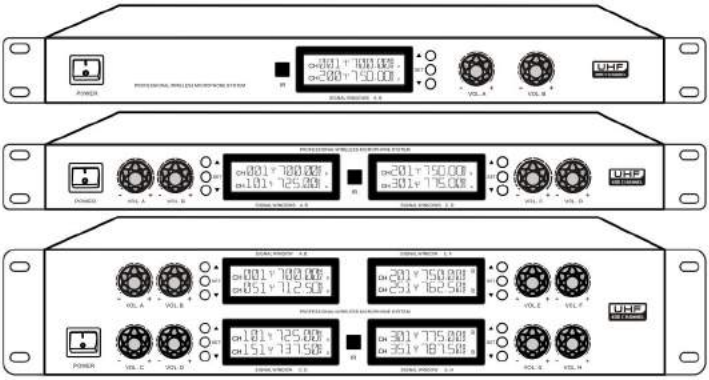
PROFESSIONAL DIGITAL
WIRELESS CONFERENCE MICROPHONE

Operation
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 all adopt UHF, which has a lower interference and a more reliable transmission than the tradition VHF, and 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.

CONTENT

1.Features

1. This series products adopt the most advanced chip synthesis technology to handle transmitting and receiving parts, just need audio input and output.

2. This series product adopt advanced digital pilot technique, using UHF international standard frequency range, 500 MHz~900MHz. Compared to the VHF low frequency range, UHF has broader resources, make electromagnetic space clearer and lower interference which from VCD、DVD and so on equipment.

3.Controlled by microprocessor,PLL phase-locked loop frequency synthesis technology,0.25MHz by step,more flexible for use.

4. This series product adopt ID identification technology, each channel has its own ID code, strong anti-interference ability, suitable for all kinds of large, medium and small meeting.

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

6. This series of products with the function of prevent noise, far pick up distance, smooth voice, high sound reduction

7. This series of products use high quality of components, apply SMT production, select only the high quality end-product.
Increase the stability and working life of the product.

8. Is provided for each type of LCD liquid crystal display, show multiple key information, working condition be clear at a glance, makes it easy to operate and monitor and convenience, so as to improve the performance.

9. 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.

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 take apart the device. If devices are took apart 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 "ϟ".
  Recycle the replaced battery.
  The devices can be used in tropical or temperate regions.

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

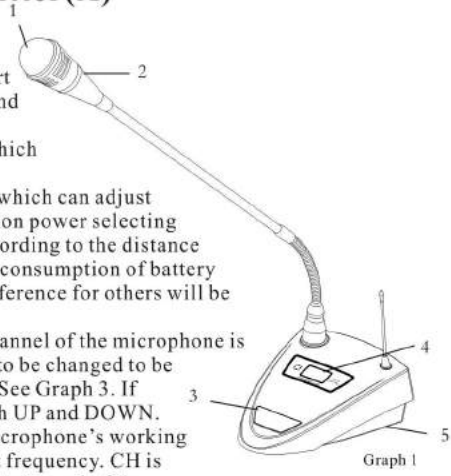

The equipment can be used in non tropical climates

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

3.Operation instruction for emitter(A)

3.1 Brief introduction

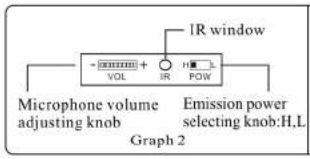
1.Open the bottom battery compartment and insert 2 AA 1.5V batteries. Be aware of the positive and negative electrodes.
2. Touch the power switch. The light will be on which means the device is in functional mode.
3. The emitter has tone-adjusting potentiometer, which can adjust the volume according to each voice, and emission power selecting knob, which can select H(High) of L (Low) according to the distance of emitter and receiver. If selecte L , the power consumption of battery will be less and time will be extended and interference for others will be less. See Graph 2.
4. Channel selecting knob. Attention: after the channel of the microphone is changed, the channel of the receive also needs to be changed to be corresponding to the microphone's frequency. See Graph 3. If channel is needed to be changed, change it with UP and DOWN. The LCD screen will display the conference microphone's working parameters, the current channel and the current frequency. CH is short for CHANNEL. CH 150 means the current channel of the conference microphone. 737.250 MHz means the current frequency. See Graph 4.
5. Touch the power switch for 1 second to turn off the microphone.



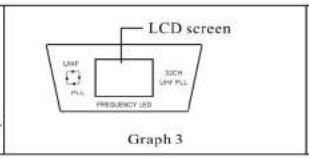
Graph 1

1.Microphone 2.Operating light
3.Power switch 4.LCD screen
5.Battery box

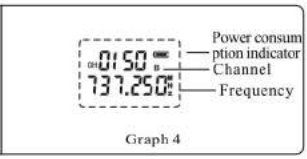
3.2 Graphic instruction



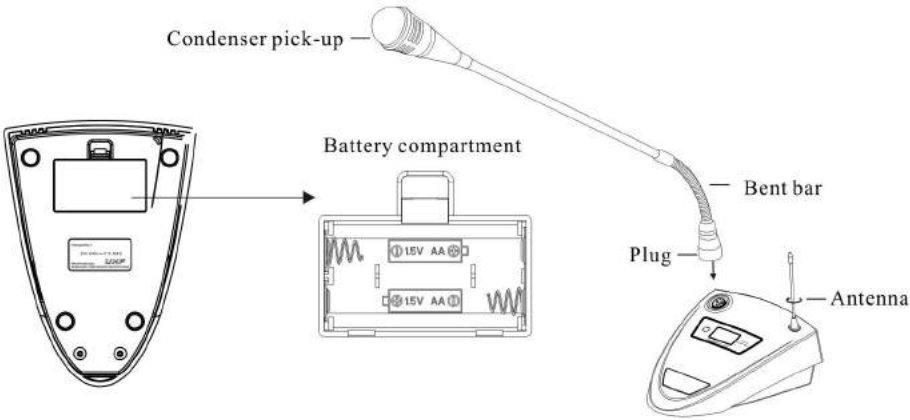
Graph 2



Graph 3



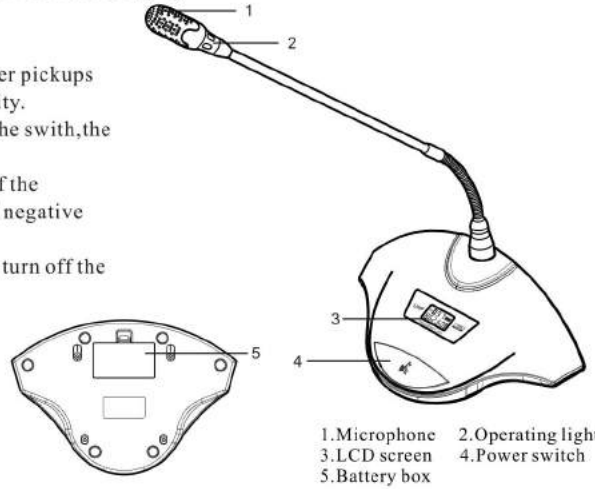
Graph 4



4.Operation instruction for emitter(B)

4.1 Brief introduction

1.High-fidelity microphone and condenser pickups provide first-class of clarity and directivity.
2.LCD screen display the atatus,turn on the swith,the mic can be use when the screen brighted.
3.Battery compartment is at the bottom of the microphone.Be aware of the positive and negative electrodes when inserting the battery.
4.Touch the power switch for 1 second to turn off the microphone.



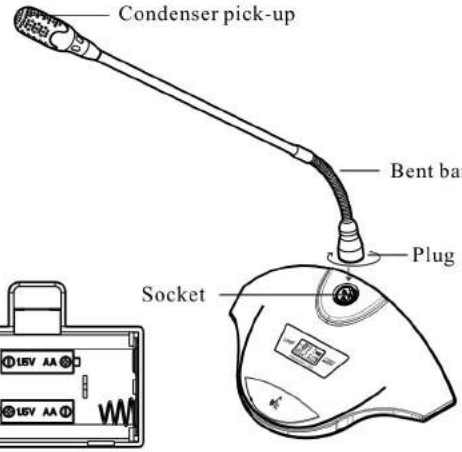
1.Microphone 2.Operating light
3.LCD screen 4.Power switch
5.Battery box

4.2 Graphic instruction

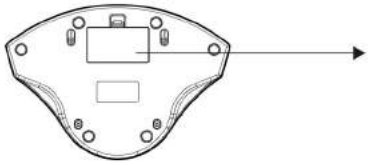
4.2 .1Graphic LCD instruction

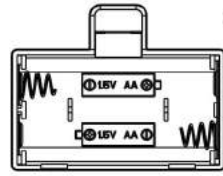
1.Channel 2.Frequency
3.Power indicate

4.2 .2Graphic nstruction



4.2 Graphic of battery instruction





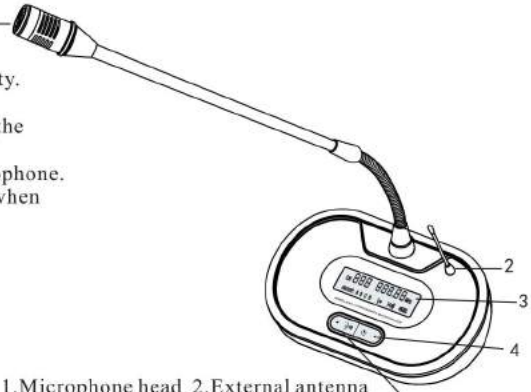
Battery compartment

Warning:Be aware of the positive and negative electrodes when inserting the battery.
If you are not going to use the devices for a long time,pull out the batteries.

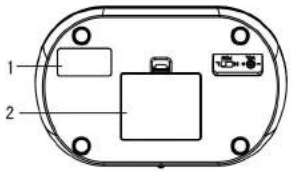
5.Operation instruction for emitter (C)

5.1 Brief introduction

1.High-fidelity microphone and electrostatic pick-up provide first class of clarity and directivity. The light ring indicate the status.
2.LCD screen display the status,turn on the switch,the mic can be used when the screen righted.
3.Battery compartment is at the bottom of the microphone. Be aware of the positive and negative electrodes when inserting the battery.



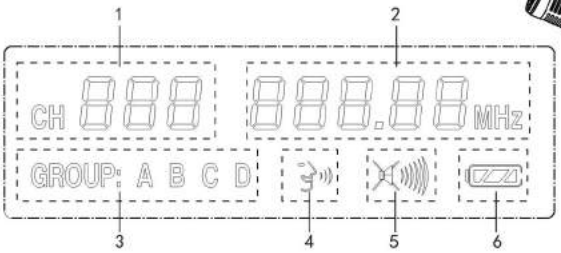
1.Microphone head 2.External antenna
3.LCD screen 4.Power switch
5.speak/mute switch



1.Frequency paster 2 .Battery compartment

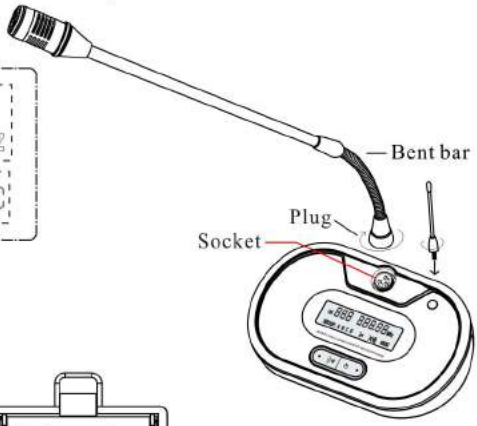
5.2 Graphic instruction

5.2 .1Graphic LCD instruction

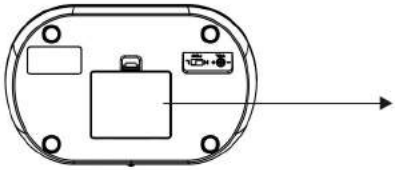


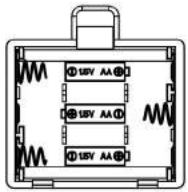
1.Channel 2.Frequency 3.Group 4.Speech indicate
5.Audio signal indicate 6.Power indicate

5.2 .2Graphic nstruction



5.2 Graphic of battery instruction





Battery compartment

Warning:Be aware of the positive and negative electrodes when inserting the battery. 3AA 1.5Vbatteries are required. If you are not going to use the devices for a long time,pull out the batteries.

6.Operation instruction for receiver

6.1Working 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 receiver's signal. For best effect, please follow the rules. The receiver should be placed as near the spot as possible. Keep the minimum distant of 1.5 m with mental, wall, scaffold, ceiling, etc. Make sure the emitter and receive are accessible straigh forward.

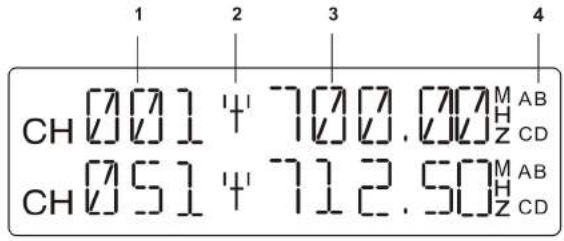
6.2Operating procedure

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.

6.3 Channel frequency setting of receiver

The receiver has A, B, C, D, four independent grouping. Long press UP or DOWN to change the frequency. After the frequency is selected, press the SET to emit the signal. Link the IR window with the ACT window of the mainframe to end the frequency selection operation.

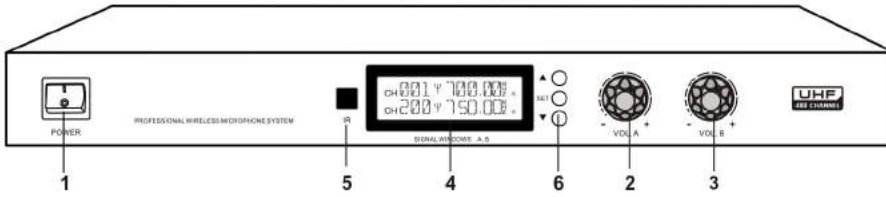
6.4 LCD screen



1. Working channel 2. Receive signal direction 3. Frequency direction 4.grouping

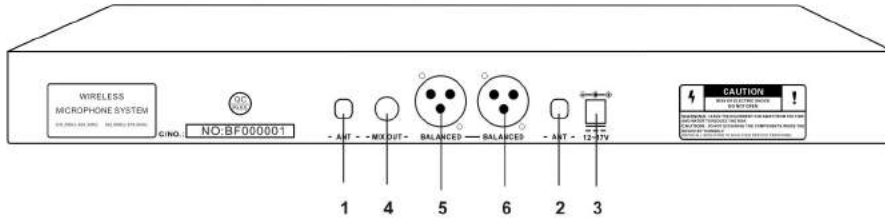
7.Two-channel receiver

7.1Front panel of two-channel reveiver



1. Power switch
2. A channel knob
3. B channel knob
4. LCD screen
5. ACT window
6. A. B channel adjustment button

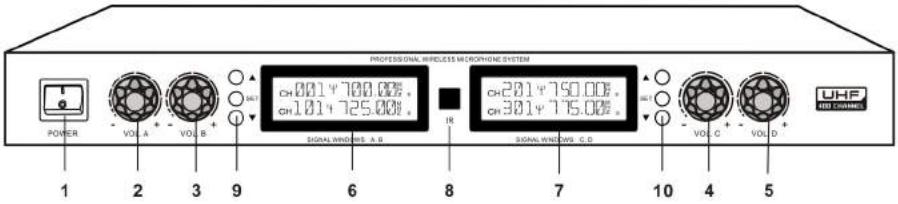
7.2 Back panel of two-channel reveiver



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

8.Four-channel receiver

8.1Front panel of four-channel reveiver

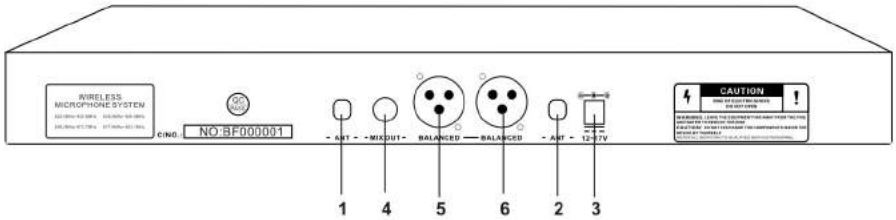


1. Power switch 2. A channel knob 3. B channel knob 4. C channel knob

5. D channel knob 6. A. B channel screen 7. C. D channel screen 8. ACT window

9.A channel adjustment button 10.B channel adjustment button

8.2 Back panel of four-channel reveiver

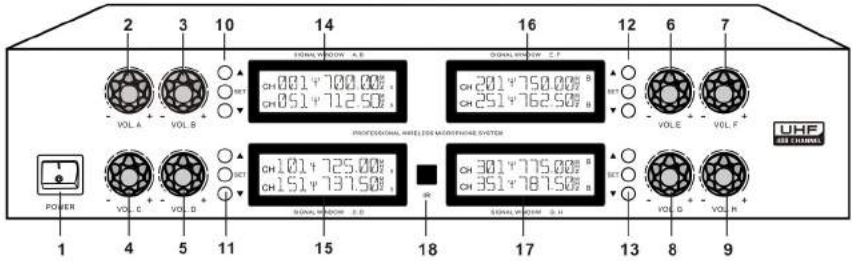


1.C.D channel antenna 2.A.B channel antenna 3.DC socket

4. Hybird unbalanced output 5.C.D channel balanced output 6.A.B channel balanced output

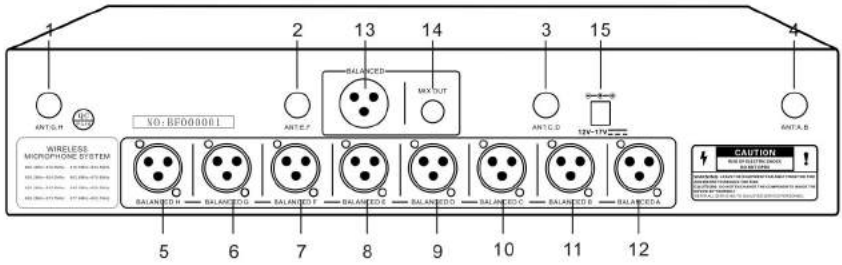
9.Eight-channel receiver

9.1Front panel of eight-channel reveiver



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 channel adjustment button 11.C.D channel adjustment button
12. E.F channel adjustment button 13.G.H channel adjustment button
14.A.B channel LCD screen 15.C.D channel LCD screen
16.E.F channel LCD screen 17.G.H channel LCD screen 18.ACT window

9.2 Back panel of eight-channel reveiver



1. G.H channel antenna 2.E.F channel antenna 3.C.D channel antenna 4.A.B channel antenna
5.H channel balanced output 6.G channel balanced output 7.F channel balanced output
8.E channel balanced output 9.D channel balanced output 10.C channel balanced output
11.B channel balanced output 12.A channel balanced output 13.Hybird balanced output
14. Hybird unbalanced output 15.DC socket

10.Product parameters

10.1 Receiver parameter

Mode of oscillation :Phase-locked loop frequency synthesis

Frequency range : UHF 500MHz~900MHz

Frequency stability :±0. 001%

Maximum ferquency deviation:±30KHz

Modulation system :FM

Signal-to-noise ratio:>60dB

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 :Two channels:3W

:four channels:6W

:eight channels:12W

10.2 Transmitter parameter (model A&B)

Power supply:DC3V(1.5V AA*2)

Power consumption:100mA

Frequency range:UHF500MHz~900MHz

Frequency stability: ± 0.001%

Max.deviation range: ± 30KHz

F/N Ratio:>80dB

Dynamic range: ≥ 100dB

Type:condenser

Polar pattern:Ultra-cardioid

Frequency response:40Hz~16KHz

Sensitivity:-43 ± 3dB@1KHz

Power:10mW

10.3 Transmitter parameter (model C)

Power supply:DC4.5V(1.5V AA*3)

Power consumption:100mA

Frequency range:UHF500MHz~900MHz

Frequency stability: ± 0.001%

Max.deviation range: ± 30KHz

F/N Ratio:>80dB

Dynamic range: ≥ 100dB

Type:condenser

Polar pattern:Ultra-cardioid

Frequency response:30Hz~18KHz

Sensitivity:-45 ± 3dB@1KHz

Power:10mW

10.4 Comprehensive parameters

Working frequency:UHF500MHz~900MHz,A.B.C.D4groups

Channel no.:tol.400

Modulation system:FM

Channel spacing:250KHz

Frequency stability: ± 0.001%

Dynamic range: ≥ 100dB

Maximum frequency deviation: ± 30KHz

Frequency response:30Hz~18KHz

S/n ratio:>60dB

Distortion factor:<0.5%@1KHz

Working distance:about 60metre(open spaces without interference)

Operating temperature:-10℃~50℃

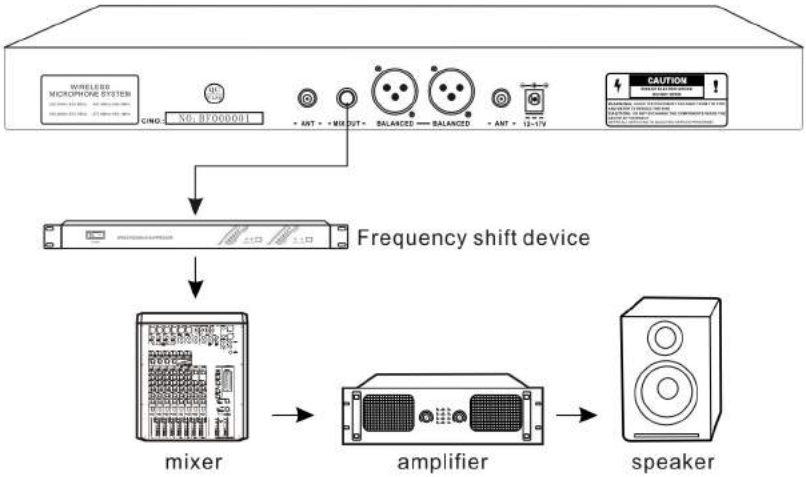
11.Solutions to breakdowns

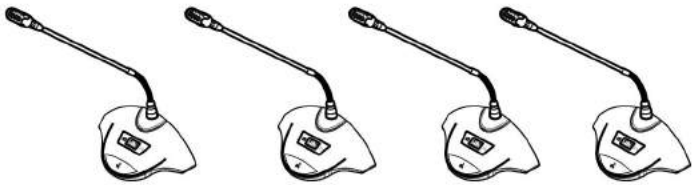
Breakdowns	Causes	Solutions
After turning on the emitter, main frame has signal but with noise	Improper battery installation	Reinstall the battery
	There is the same frequency emitter used at the same time	Turn off other emitter
Cannot turn on the emitter	Battery contact plate is dirty or rusted	Clean or replace the battery contact
The emitters LCD screen is not operating	Improper battery installation	Reinstall the battery
	Battery level is too low Battery contact plate is dirty or rusted	Replace the batteries Clean or replace the battery contact
The receiver is not energized	The utility is not energized	Check the utility
	The fuse of receiver is blown	Replace the fuse which is at the back of the receiver
The receiver cannot be connected	The microphone is off	Turn on the microphone.
	The microphone s frequency does not fit in the receiver s	Adjust the frequency
	The microphone is too far away	Keep the microphone close
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 close
Effective operating distance is short	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 has neutral 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.

12.Connection instruction





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 Lose And Damage Caused By No Confirmation.

For Testing And Service, Please Contact Us Or Our Authorized Distributors Through The Dealer From Whom You Purchased This Product. The Company Will Be Freed From The Loss And Damage Of Servicing Which maintain By Yourself Without any permission.