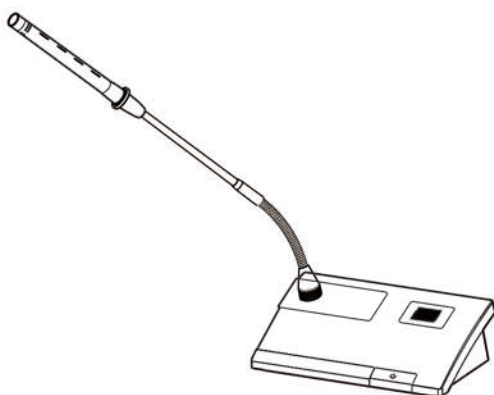


# PROFESSIONAL DIGITAL WIRELESS CONFERENCE MICROPHONE

## PROFESSIONAL DIGITAL WIRELESS CONFERENCE SYSTEM

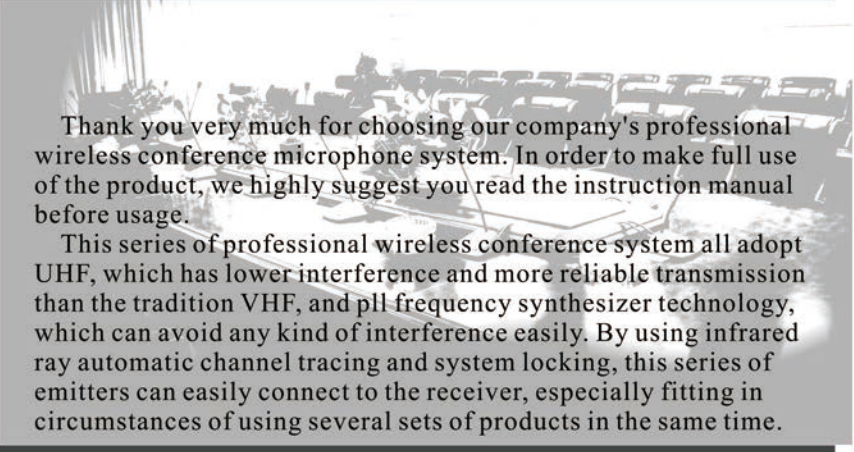
## Operation Instructions



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

# Foreword

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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 lower interference and 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.

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## 1.Feature

- 1.This series of products using the most advanced chip synthesis technology processing transmitting and receiving part, the only supply power input and output can be used.
- 2.This series of products using advanced digital pilot technology, the use of UHF working band, the specific frequency range: 794-806MHz. Compared with the low frequency VHF, UHF frequency with frequency resources width, the electromagnetic space clean, outside the advantages of less interference, can greatly avoid external devices, such as VCD, DVD, VCD and other external devices interfere with the normal work.
3. the series of products using microprocessor control, PLL frequency synthesis technology, each product has 400 channels, each channel is 0.25MHz step, the frequency of use more flexible.
4. this series of products using ID identification technology, each channel has a inherent ID code, strong anti-interference ability, suitable for all kinds of large, medium and small conference.
5. The series of products have automatic mute and the balance hammer elimination circuit, eliminating switch machine balance hammer, avoid shock and noise impact of on-site atmosphere.
- 6.The series of products with reducing feedback function, pickup distance far, smooth, high reduction degree.
- 7.This series of products with high stability and high reliability of surface mounted components, surface application of installation technology (SMT) and production process, can significantly improve the product stability, reliability and service life.
- 8 In this series, each model is equipped with LCD display on receiver and emitter, showing a number of key information, working status at a glance, so that the operation and monitoring becomes easy and convenient, there by improving the use of performance.
- 9 This series of products all adopt XLR independent balanced output and 6.3 mixed non balanced output coexist in a way that can adapt to all kinds of occasions of the equipment connection, avoid confusion from the equipment connection does not match.



## 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 take apart the device. If devices are taken 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 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 a professional mechanic can assemble the devices if it is labeled with a hazard warning sign “⚡”.

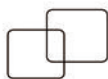
Recycle the replaced battery.

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.



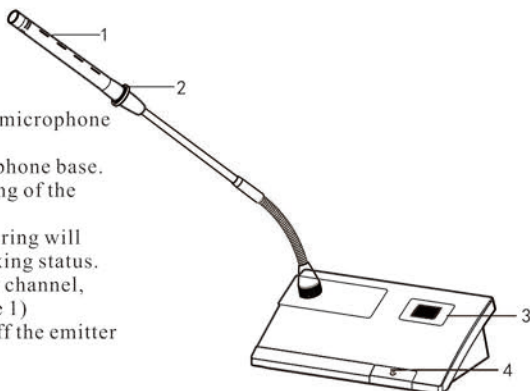
※ If the device is not going to be used, turn it off and pull out the battery to protect the equipment.



### 3.Operation instruction for Receiver

#### 3.1 Brief introduction

- 1.Insert the gooseneck microphone into the microphone base.(Figure 2)
- 2.Install 3 pieces at the bottom of the microphone base. Please pay attention that don't install wrong of the negative and positive electrode.
- 3.Press power button, LCD screen and light ring will shine. It means emitter enter into the working status.
- 4.In the working status, LCD screen display channel, battery power, working frequency.(Figure 1)
- 5.Press the power bottom 1 second to turn off the emitter power.



1.microphone head 2.power key  
3.LCD screen 4.light ring

#### 3.2 Graphic instruction

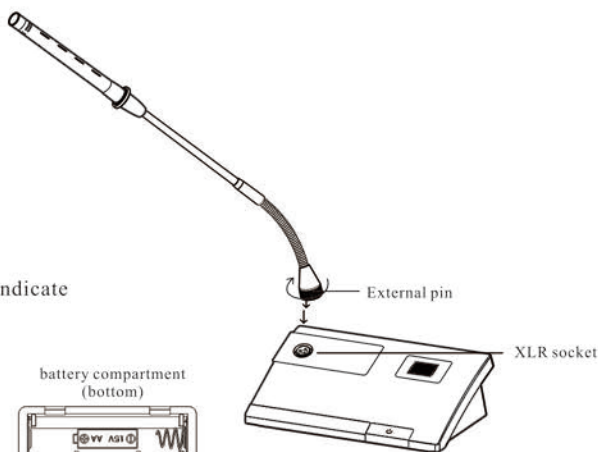
##### 1. LCD screen graphic



(Figure 1)

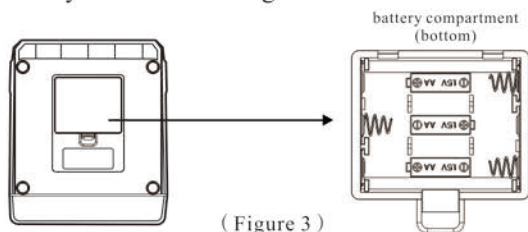
- 1.channel 2.frequency 3.battery power indicate

##### 2. Emitter installation diagram



(Figure 2)

#### 3.3 Battery installation diagram



(Figure 3)



**CAUTION:** Please don't installation wrong the positive and negative electrode which will damage the inside accessory.Please take out the battery is long time didn't use.



## 4.Receiver operating and screen graphics

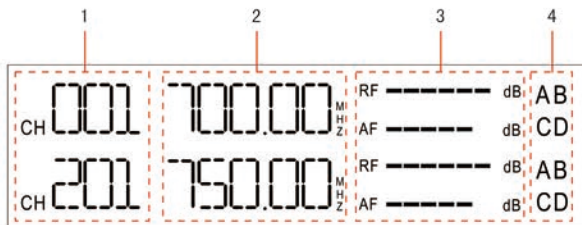
### 4.1 Receiver usage

After removing the receiver from the packing box, let the receive antenna connected to a receiver antenna faucet, and adjust the antenna to top up and with the ground vertical direction. Note that the large metal body and non-metallic body (such as wall body, etc.), will weaken the direct signal of the transmitter. In order to obtain good results, please follow the following rules to place the receiver: receiver should be close to the performance area, and with large metal objects, walls, scaffolding, ceiling and other objects at least 1.5 meters distance, and to ensure that the transmitter and receiver between the open signal.

### 4.2 Receiver operation

1. Plug in power, the receiver into the power state.
2. Press the switch, the receiver into the working state, at this time, the display will show the working frequency and working channel.
3. the OUT MIX of the receiver is connected with the MIC input of the power amplifier by using the audio connection line. Adjust the volume then you can use.
4. Channel frequency settings: the receiver is divided into four groups of ABCD frequency band, each band has been set up before the factory. If need to change channel, press the "SET" button, the frequency and the number of channels flashing, and then light press or long press "∧" or "∨" Keys, channels and frequencies are changed correspondingly. When you choose a good frequency, let the conference IR Infrared window face to the receiver IR infrared window, press the "SET" button to confirm the launch of the frequency signal, since the receiver screen shows "--IR-----OK" that means completed the frequency operation.
- 5 Each conference microphone can be used on any channels of the receiver.

### 4.3 LCD monitor graphic instruction

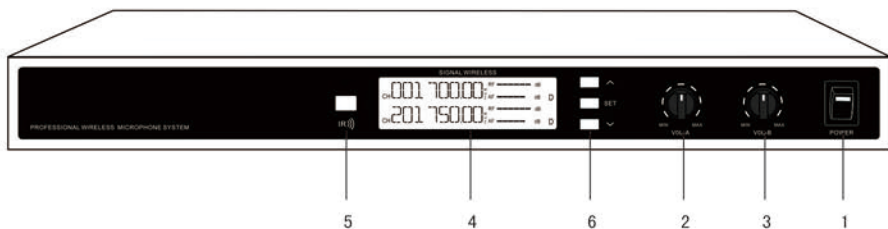


1. Working channel display
2. Working frequency display
3. Six level audio signal and receive signal display the
4. Display the frequency group



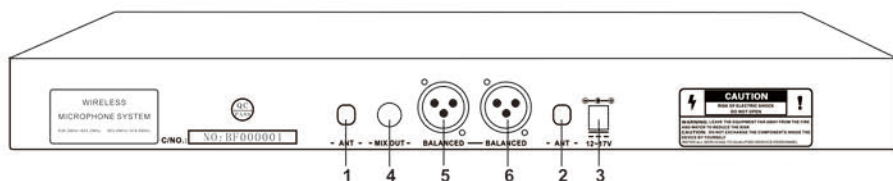
## 5. Two-channel receiver

### 5.1 Front panel of two-channel receiver



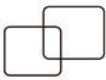
- 1. Power switch
- 2. A channel volume knob
- 3. B channel volume knob
- 4. A, B channels LCD screen
- 5. IR window
- 6. A, B channel frequency selected button

### 5.2 Back panel of two-channel receiver



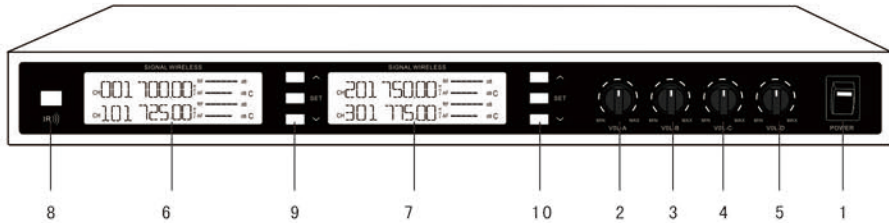
- 1. B channel antenna port
- 2. A channel antenna port
- 3. DC power socket
- 4. Mixed unbalanced output
- 5. B channel balanced output
- 6. A channel balanced output





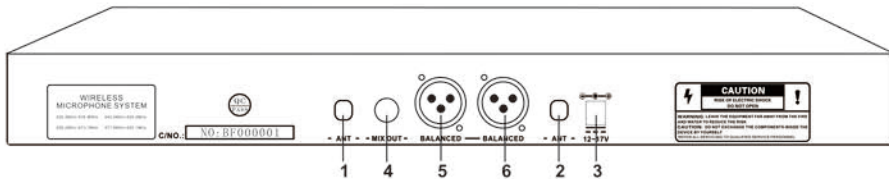
## 6. Four-channel receiver

### 6.1 Front panel of four-channel receiver



- 1. Power switch
- 2. A channel volume knob
- 3. B channel volume knob
- 4. C channel volume knob
- 5. D channel volume knob
- 6. A.B channels LCD screen
- 7. C.D channels LCD screen
- 8. IR window
- 9. A.B channel frequency selected button
- 10. C.D channel frequency selected button

### 6.2 Back panel of four-channel receiver

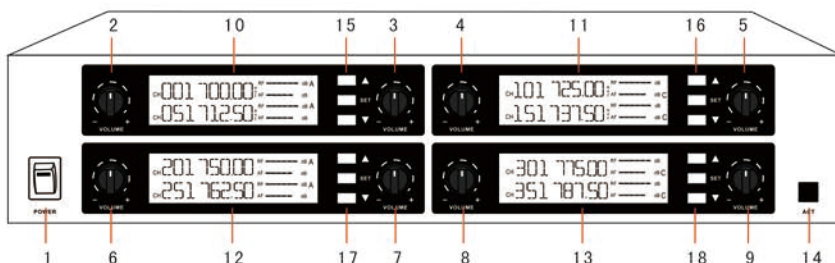


- 1. C.D channel antenna port
- 2. A.B channel antenna port
- 3. DC power socket
- 4. Mixed unbalanced output
- 5. C.D channel balanced output
- 6. A.B channel balanced output



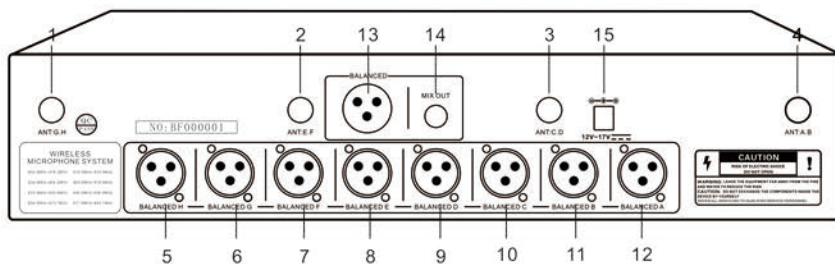
## 7. Eight-channel receiver

### 7.1 Front panel of eight-channel receiver



- |   |   |   |
|---|---|---|
| 1. Power switch                           | 2. A channel volume knob                  | 3. B channel volume knob                  |
| 4. C channel volume knob                  | 5. D channel volume knob                  | 6. E channel volume knob                  |
| 7. F channel volume knob                  | 8. G channel volume knob                  | 9. H channel volume knob                  |
| 10. A.B channels LCD screen               | 11. C.D channels LCD screen               | 12. E.F channels LCD screen               |
| 13. G.H channels LCD screen               | 14. IR window                             | 15. A.B channel frequency selected button |
| 16. C.D channel frequency selected button | 17. E.F channel frequency selected button | 18. G.H channel frequency selected button |

### 7.2 Back panel of eight-channel receiver



- |                              |                              |                              |
|------------------------------|------------------------------|------------------------------|
| 1. G.H antenna port          | 2. E.F antenna port          | 3. C.D antenna port          |
| 4. A.B antenna port          | 5. H channel balance output  | 6. G channel balance output  |
| 7. F channel balance output  | 8. E channel balance output  | 9. D channel balance output  |
| 10. C channel balance output | 11. B channel balance output | 12. A channel balance output |
| 13. Mixed balance output     | 14. Mixed unbalance output   | 15. DC power socket          |



## 8. Product parameters

### 8.1 Receiver parameter

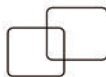
|                     |  |
|---------------------|--|
| Oscillation         | : PLL synthesized                          |
| Frequency range     | : UHF 500MHz-900MHz                        |
| Frequency Stability | : $\pm 0.001\%$                            |
| Modulation Mode     | : FM                                       |
| S/N Ratio           | : $>60\text{dB}$                           |
| T.H.D               | : $<0.5\% @ 1\text{KHz}$                   |
| Sensitivity         | : $1.2/\text{UV} @ \text{S/N}=12\text{dB}$ |
| Power Supply        | : DC 12V-17V                               |
| Audio Output        | : Independent 0-400mV<br>Mixed 0-300mV     |

### 8.2 Transmitter parameter

|                     |                                     |
|---------------------|-------------------------------------|
| Power Supply        | : DC 4.5V (1.5V AA*3)               |
| Power consumption   | : 100mA                             |
| Frequency range     | : UHF 500MHz-900MHz                 |
| Frequency stability | : $\pm 0.001\%$                     |
| Max.deviation Range | : $\pm 30\text{KHz}$                |
| S/N Ratio           | : $>60\text{dB}$                    |
| F/N Ratio           | : $>80\text{dB}$                    |
| Dynamic range       | : $\geq 100\text{dB}$               |
| Polar pattern       | : Ultra-cardioid                    |
| Frequency Response  | : 40Hz-20KHz                        |
| Sensitivity         | : $-43\pm 3\text{dB} @ 1\text{KHz}$ |

### 8.3 Comprehensive parameters

|                                     |   |
|-------------------------------------|---|
| Working frequency                   | : UHF 500MHz-900MHz                             |
| Modulation system                   | : FM  |
| Channel spacing                     | : 250KHz  |
| Frequency stability                 | : $\pm 0.001\%$                                 |
| Dynamic range                       | : $\geq 100\text{dB}$                           |
| Maximum frequency deviation         | : $\pm 30\text{KHz}$                            |
| Frequency response                  | : 40Hz-20KHz                                    |
| Comprehensive signal-to-noise ratio | : $>60\text{dB}$                                |
| Comprehensive distortion factor     | : $<0.5\% @ 1\text{KHz}$                        |
| Operating distance                  | : about 100 meter                               |
| Operating temperature               | : $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$ |



## 9. Solutions to breakdowns

| Breakdowns  | Causes  | Solutions   |
|---|---|---|
| Receiver can receive signal but with noise interference           | Battery level is too low                                  | Charge up the battery   |
|   | There is the same frequency emitter used at the same time | Turn off other emitter or change to other frequency           |
| The microphone's LCD screen is not operating                      | Battery level is too low                                  | Charge up the battery   |
| The microphone cannot be turned on                                | Battery level is too low                                  | Charge up the battery   |
| The receiver is not energized                                     | The utility is not energized                              | Check the electric socket                                     |
| 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 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  |
| Effective operating distance is short                             | Complicated environment                                   | Avoid metal, wall, crowds, etc as they will weaken the signal |
|   | Haven't install the receiving antenna                     | Install the receiving antenna                                 |

### 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.

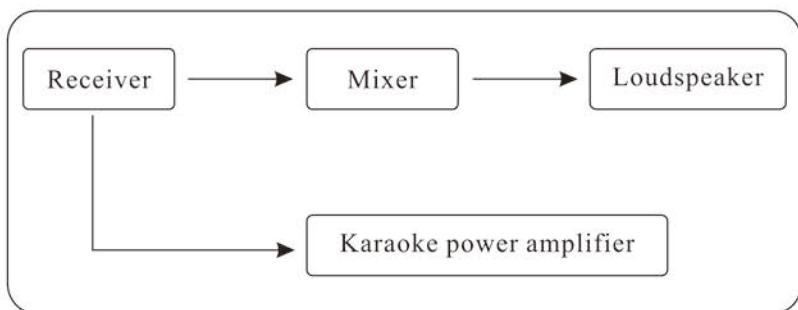


## 10.Connection instruction

### Operations

- 1.According to the connection diagram to connect the receiver with other audio equipment. Receiver MIX OUT mixed output connect with amplifier MIC input or use receiver independent output connect with amplifier MIC input.
- 2.The proper electricity supply is 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 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.