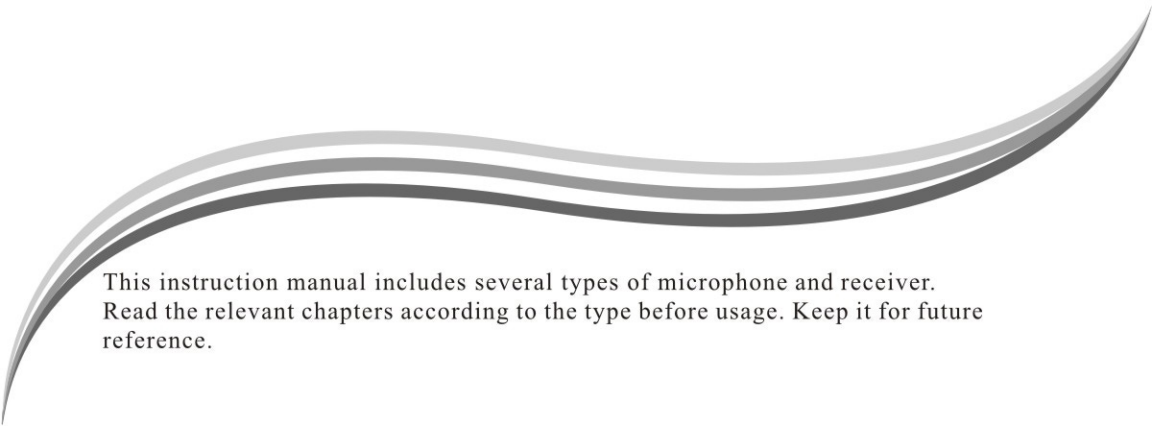


# **PROFESSIONAL WIRELESS MICROPHONE SERIES**

## **OPERATION INSTRUCTIONS**

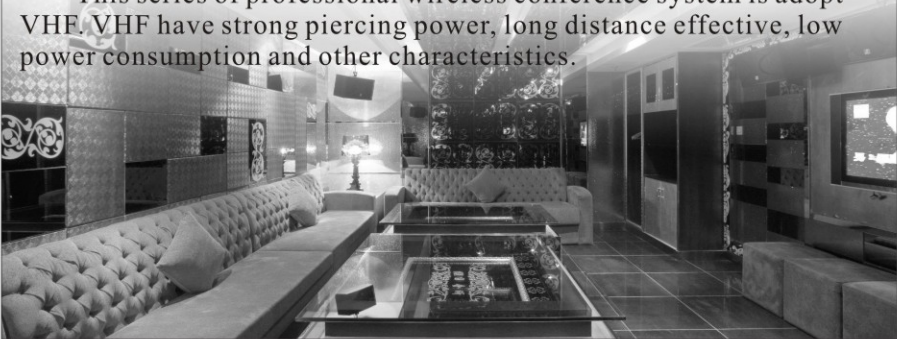
A decorative graphic consisting of three parallel, wavy lines that curve upwards from the bottom left towards the right side of the page.

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 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, VHF have strong piercing power, long distance effective, low power consumption and other characteristics.



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## 1.Features

1. Multi-level high quality sound surface wave filter with high quality of anti-interference This series of products has high quality of frequency selection.

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


3.LCD monitors are adopted in every model in this series, showing working data and situation, which makes the operation and control more convenient and easier.

4. Auto-mute and noise muffler circuit, eliminating the noise of turning on and off the machine

5. Adopt highly reliable SMT production

This series of products use high quality of components, apply SMT production, select only the high quality end-product.

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



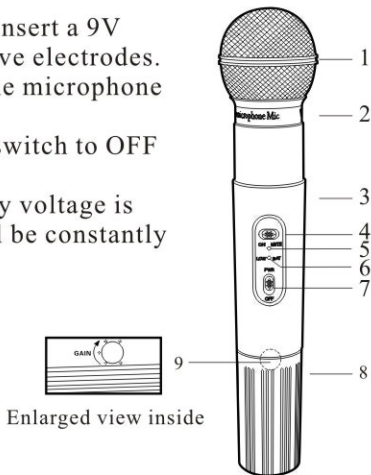
※ Adapter and circuit are working all the time as both receiver and transmitter have switch-noise-elimination circuits inside. So please unplug the power cord of receiver and take out the batteries of transmitter when they are not used.

### 3. Operation instruction for handheld microphone (Model A)

#### 3.1 Operation instruction

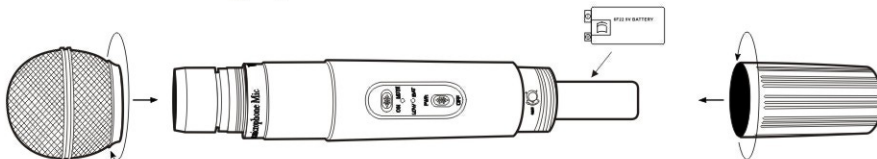
1. Open the bottom battery compartment and insert a 9V battery. Be aware of the positive and negative electrodes.
2. Push the power switch to PWR to turn on the microphone
3. Push the audio switch to ON to speak.
4. If long time no use, please push the power switch to OFF and take the battery out.
5. When the battery power is low or the battery voltage is under 7V, the low power indicator light will be constantly on. Then please replace a new battery.

- |                    |                              |
|--------------------|------------------------------|
| 1. Microphone head | 2. Interconnecting piece     |
| 3. Microphone body | 4. Audio switch              |
| 5. Power light     | 6. Low power indicator light |
| 7. Power switch    | 8. Battery compartment       |
| 9. Volume control  |                              |

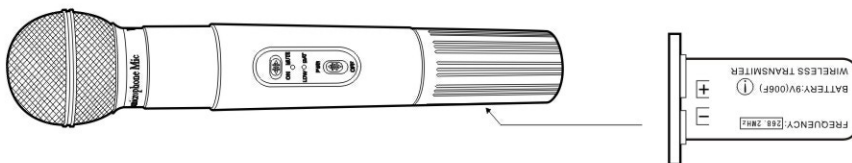


#### 3.2 Graphic instruction

##### 3.2.1 Installation graphic instruction



##### 3.2.2 Battery install instruction



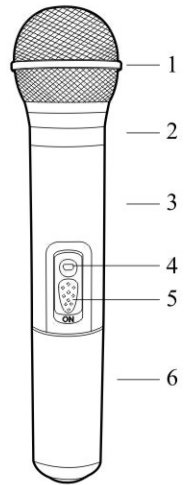
**WARNING:** BE AWARE OF THE POSITIVE AND NEGATIVE ELECTRODES WHEN INSERTING THE BATTERY! IF YOU ARE GOING TO NOT USE THE DEVICES FOR A LONG TIME, PLEASE PULL OUT THE BATTERIES.

### 4. Operation instruction for handheld microphone (Model B)

#### 4.1 Operation instruction

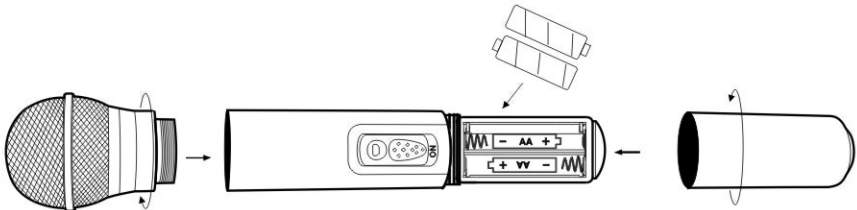
1. Open the battery compartment and insert 2 AA1.5V battery. Be aware of the positive and negative electrodes.
2. Push the power switch to PWR to turn on the microphone
3. Push the audio switch to ON to speak.
4. If long time no use, please push the power switch to OFF and take the battery out.
5. When the battery power is low or the battery voltage is under 2V, the low power indicator light will be constantly on. Then please replace a new battery.

- |                       |                          |
|-----------------------|--------------------------|
| 1. Microphone head    | 2. Interconnecting piece |
| 3. Microphone body    | 4. Power/Low power light |
| 5. Power/Audio switch | 6. Battery compartment   |

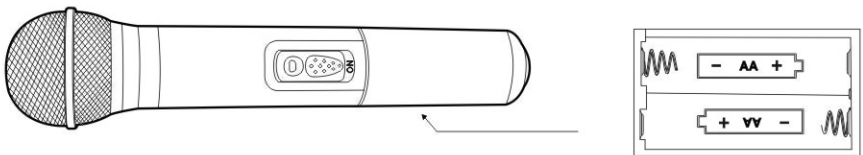


#### 4.2 Graphic instruction

##### 4.2.1 Installation graphic instruction



##### 4.2.2 Battery install instruction

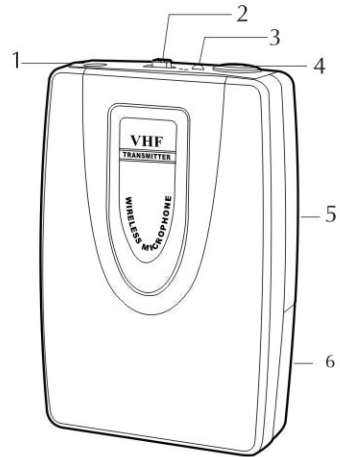


**WARNING:** BE AWARE OF THE POSITIVE AND NEGATIVE ELECTRODES WHEN INSERTING THE BATTERY! IF YOU ARE GOING TO NOT USE THE DEVICES FOR A LONG TIME, PLEASE PULL OUT THE BATTERIES.

## 5. Operation instruction for body-pack transmitter(Model A)

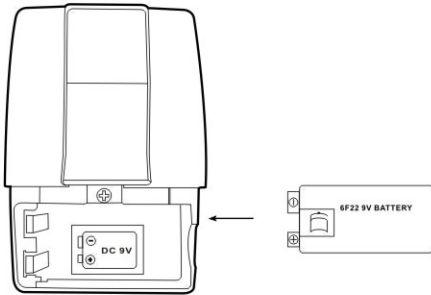
### 5.1 Operation instruction

1. Open the bottom battery compartment and insert a 9V battery. Be aware of the positive and negative electrodes.
2. Push the power switch to ON to turn on the device, and to middle gear to pause.
3. If long time no use, please push the power switch to OFF and take the battery out.



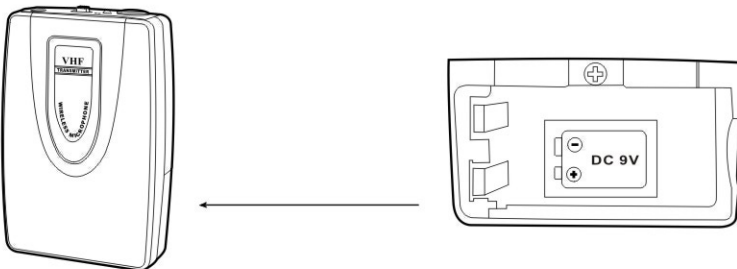
### 5.2 Graphic instruction

#### 5.2.1 Installation graphic instruction



- |                    |                        |
|--------------------|------------------------|
| 1. Potentiometer   | 2. Pull-out switch     |
| 3. Power light     | 4. Screw connector     |
| 5. Attaching clamp | 6. Battery compartment |

#### 5.2.2 Battery install instruction



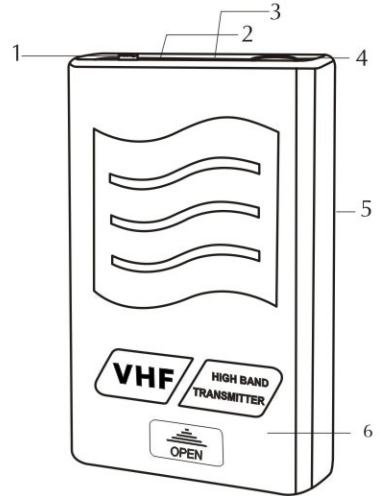
**WARNING:** BE AWARE OF THE POSITIVE AND NEGATIVE ELECTRODES WHEN INSERTING THE BATTERY! IF YOU ARE GOING TO NOT USE THE DEVICES FOR A LONG TIME, PLEASE PULL OUT THE BATTERIES.



### 6. Operation instruction for body-pack transmitter(Model B)

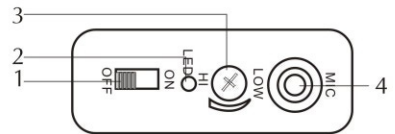
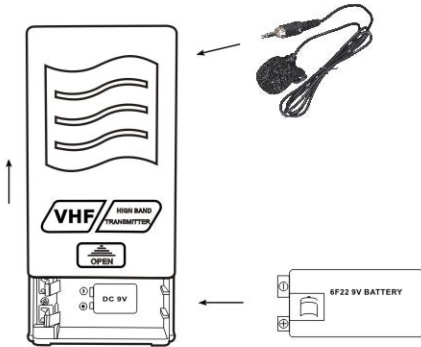
#### 6.1 Operation instruction

1. Push open the bottom battery compartment and insert a 9V battery. Be aware of the positive and negative electrodes.
2. Push the power switch to ON to turn on the device, and to middle gear to pause.
3. If long time no use, please push the power switch to OFF and take the battery out.



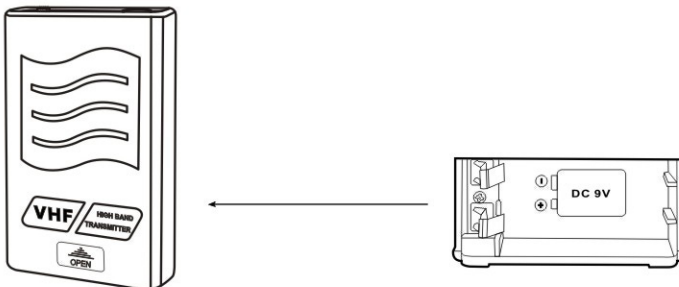
#### 6.2 Graphic instruction

##### 6.2.1 Installation graphic instruction



1. Pull-out switch
2. Power light
3. potentiometer
4. Screw connector
5. Attaching clamp
6. Battery compartment

##### 6.2.2 Battery install instruction



**WARNING:** BE AWARE OF THE POSITIVE AND NEGATIVE ELECTRODES WHEN INSERTING THE BATTERY! IF YOU ARE GOING TO NOT USE THE DEVICES FOR A LONG TIME, PLEASE PULL OUT THE BATTERIES.

## 7. Operation instruction for receiver.

### 7.1 Working 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 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.

### 7.2 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.

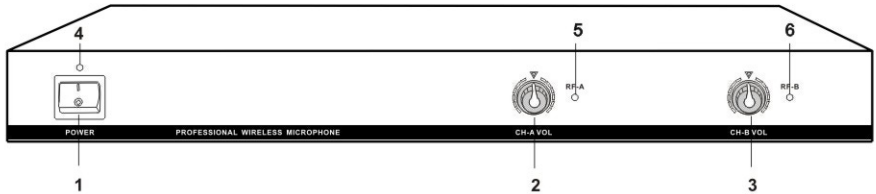
### 7.3.Receiver's LCD screen graphic instruction



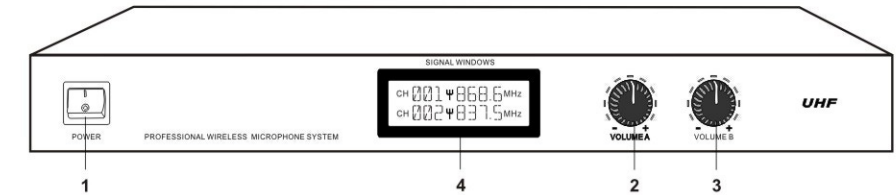
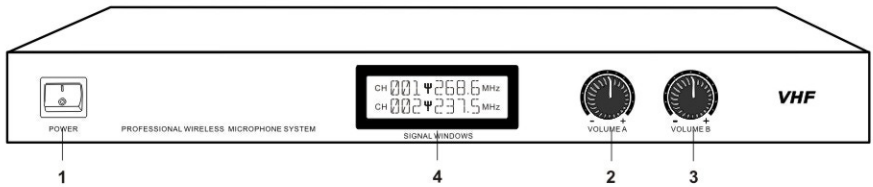
1.Channel display 2. Receive sign display 3. Frequency display

### 8. Two-channel receiver

#### 8.1 Front panel of two-channel receiver

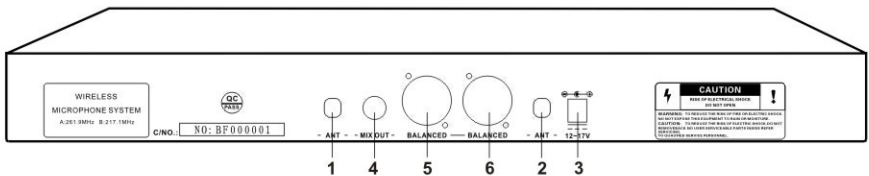


- 1. Power switch
- 2. A channel knob
- 3. B channel knob
- 4. Power light
- 5. A channel indicator light
- 6. B channel indicator light



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

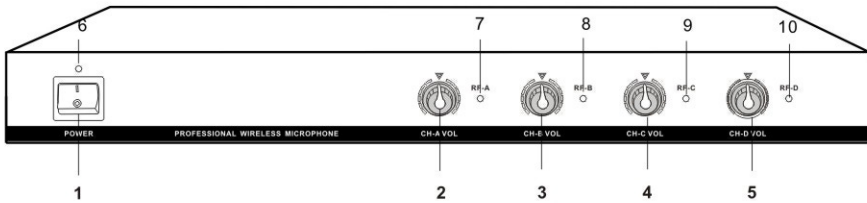
#### 8.2 Back panel of two-channel receiver



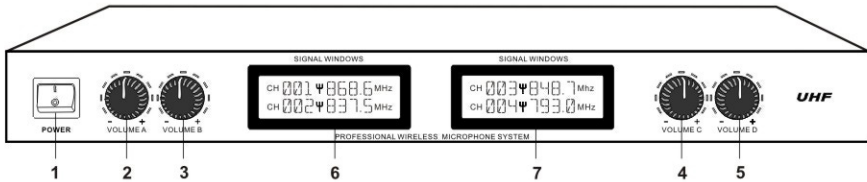
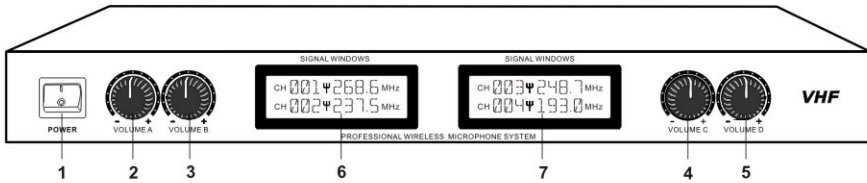
- 1. B channel antenna
- 2. A channel antenna
- 3. DC socket
- 4. Hybrid unbalanced output
- 5. B channel balanced output
- 6. A channel balanced output

## 9. Four-channel receiver

### 9.1 Front panel of four-channel receiver

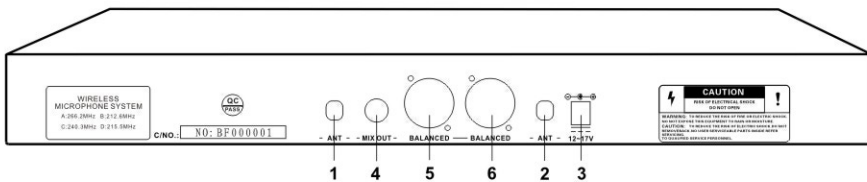


- |                   |                              |                               |
|-------------------|------------------------------|-------------------------------|
| 1. Power switch   | 5. D channel knob            | 9. C channel indicator light  |
| 2. A channel knob | 6. Power light               | 10. D channel indicator light |
| 3. B channel knob | 7. A channel indicator light |                               |
| 4. C channel knob | 8. B channel indicator light |                               |



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

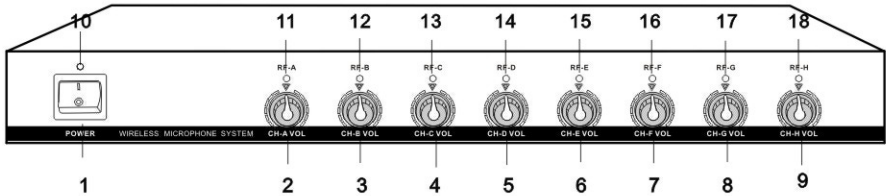
### 9.2 Back panel of four-channel receiver



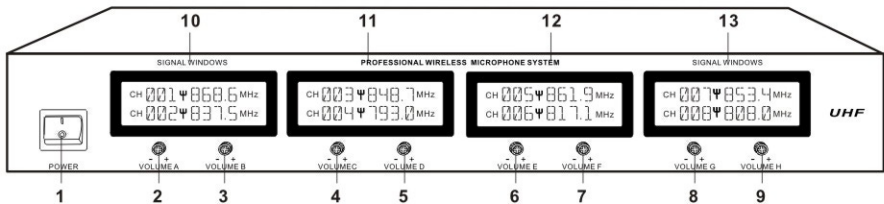
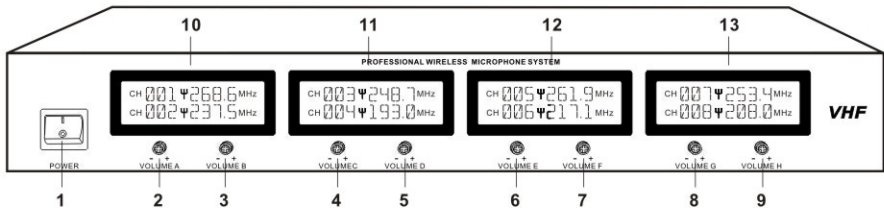
- |                        |                                |
|------------------------|--------------------------------|
| 1. C.D channel antenna | 4. Hybrid unbalanced output    |
| 2. A.B channel antenna | 5. C.D channel balanced output |
| 3. DC socket           | 6. A.B channel balanced output |

### 10. Eight-channel receiver

#### 10.1 Front panel of eight-channel receiver

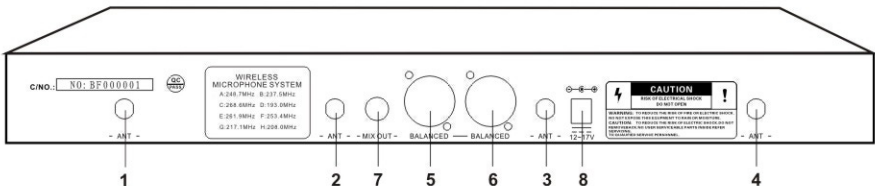


- |                   |                               |                               |
|-------------------|-------------------------------|-------------------------------|
| 1. Power switch   | 7. F channel knob             | 13. C channel indicator light |
| 2. A channel knob | 8. G channel knob             | 14. D channel indicator light |
| 3. B channel knob | 9. H channel knob             | 15. E channel indicator light |
| 4. C channel knob | 10. Power light               | 16. F channel indicator light |
| 5. D channel knob | 11. A channel indicator light | 17. G channel indicator light |
| 6. E channel knob | 12. B channel indicator light | 18. H channel indicator light |



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

#### 10.2 Back panel of eight-channel receiver



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

## 11. Product parameters

### 11.1 Receiver's parameters (VHF)

Mode of oscillation :	Quartz Crystal
Frequency range :	VHF170-270MHz
Frequency stability :	$\pm 0.001\%$
Maximum frequency deviation :	$\pm 25\text{KHz}$
Modulation system :	FM
Signal-to-noise ratio :	$> 105\text{dB}$
Distortion factor :	$< 0.5\% @ 1\text{Kz}$
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 :	5w

### 11.2 Receiver's parameters (UHF)

Mode of oscillation :	PLL syntheized
Frequency range :	UHF700-900MHz
Frequency stability :	$\pm 0.001\%$
Maximum frequency deviation :	$\pm 50\text{KHz}$
Modulation system :	FM
Signal-to-noise ratio :	$> 105\text{dB}$
Distortion factor :	$< 0.5\% @ 1\text{Kz}$
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 :	5w

## 11. Product parameters

### 11.3 Handheld microphone(Model A) parameters

RF Power :	>20mW
Antenna :	Built-in
Preemphasis :	50uS
Capsule Type :	Dynamic
Battery :	DC 9V
Battery consumption :	<30mA
Battery life :	8 hours continued working
Working temperature :	-10~55°C
Power :	10mw

### 11.4 Handheld microphone(Model B) parameters

RF Power :	>20mW
Antenna :	Built-in
Preemphasis :	50uS
Capsule Type :	Dynamic
Battery :	DC 3V (1.5V AA*2)
Battery consumption :	<60mA
Battery life :	10 hours continued working
Working temperature :	-10~55°C
Power :	10mw

## 11. Product parameters

### 11.5 Body-pack transmitter parameters

RF Power :	>20mW
Antenna :	External
Preemphasis :	50uS
Capsule Type :	Condenser
Battery :	DC 9V
Battery consumption :	<30mA
Battery life :	8 hours continued working
Working temperature :	-10~55°C
Power :	10mw



### 12. 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
	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

#### Care and maintenance

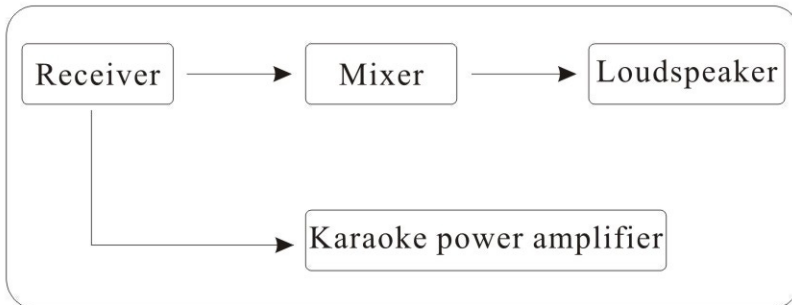
Before fixing or cleaning the device, cut of the electricity supply. Clean it with soft cloth. For spots, clean it with cloth that has neutral cleaning solvent and dry it with another cloth. Do not use gasoline, diluents or any other chemical product, or else the surface will be damaged.

## 13. Connection instruction

### Operations

1. According to the picture, connect the receiver with other devices.  
Receivers MIX OUT connect with amplifiers MIC or INDEPENDENT OUT 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 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.