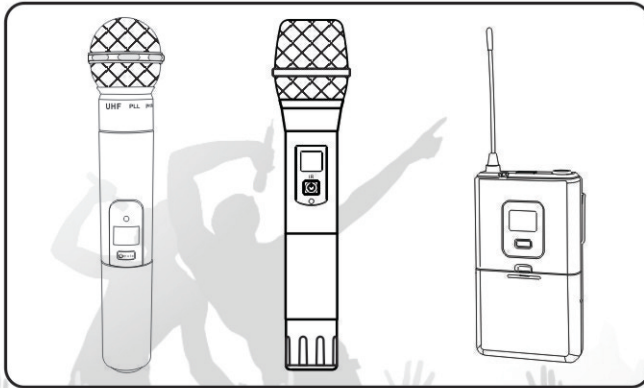


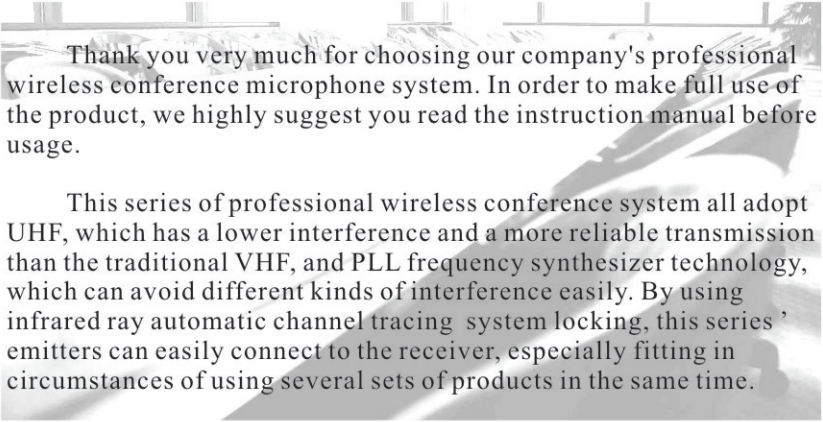
PROFESSIONAL WIRELESS MICROPHONE SERIES

Operation Instructions



This instruction manual includes several models of microphone and receiver.
Read the relevant chapters according to the model you buy 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 traditional VHF, and PLL frequency synthesizer technology, which can avoid different kinds of interference easily. By using infrared ray automatic channel tracing system locking, this series' 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. UHF international standard frequency range without interference

This series of products adopt UHF frequency range, 500 MHz~900MHz, the international standard range. Compared to the VHF low frequency range, UHF has a broader frequency band, cleaner electromagnetic space and lower interference.

2. Multi-users adjusting frequency to make sure several machines can be used simultaneously according to the practical issues

This series of products adopt micro-processor control and phase-locked loop frequency synthesis technique, overcoming the flaws of high subcarrier and high interference. Multi-user adjustable frequency can easily change the frequency to assure several machines can be used at the same time and to avoid external disturbance.

3. Multi-level high quality sound surface wave filter with high quality of anti-interference

This series of products has high quality of frequency selection.

4. 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.

5. 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.

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

7. 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.
The devices can only be used in the area with an altitude of below 2,000 meters.

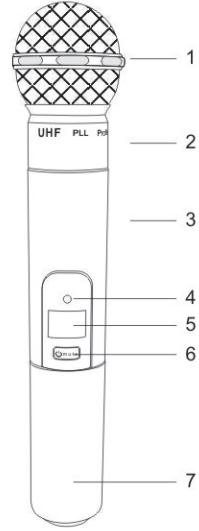


※ Adapter and circuit are working all the time as both receiver and transmitter have switch-noise-elimination circuits inside. So please unplug the power cord of receiver and take out the batteries of transmitter when they are not used.

3. Operation instruction for Handheld microphone(Model B)

3.1 Operation instruction

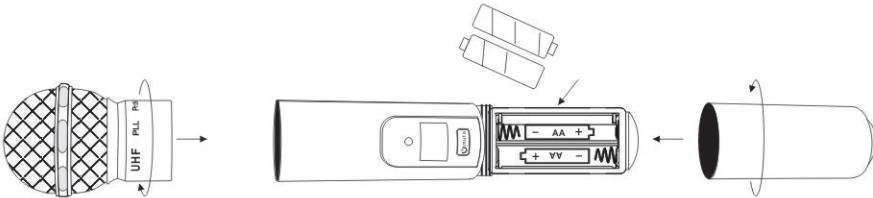
1. Open the bottom battery compartment and insert two AA 1.5V battery. Be aware of the positive and negative electrodes.
2. Push the power switch for 1 second to turn on the microphone
3. Press the power switch to show working frequency and battery level on screen. Screen backlight will go out in 5 seconds. Press power switch again to lighten the backlight, enabling to see working status in dark environment.
4. Press the power switch for 2 second to turn off the microphone.
5. To finish frequency pairing, open the battery compartment, and then face the microphone's bottom towards the receiver's ACT window and press "SET" to finish frequency process.



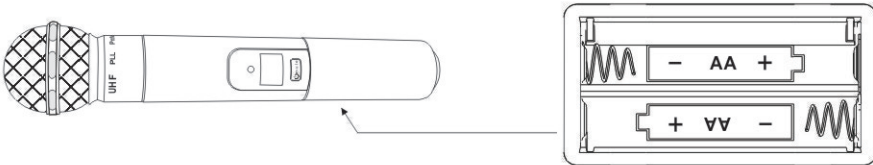
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|--------------------|--------------------------|
| 1. Microphone head | 2. Interconnecting piece |
| 3. Microphone body | 4. Power light |
| 6. Power switch | 5. LCD screen |
| | 7. Battery compartment |

3.2 Graphic instruction

3.2.1 Installation graphic instruction



3.2.2 Battery installs instruction

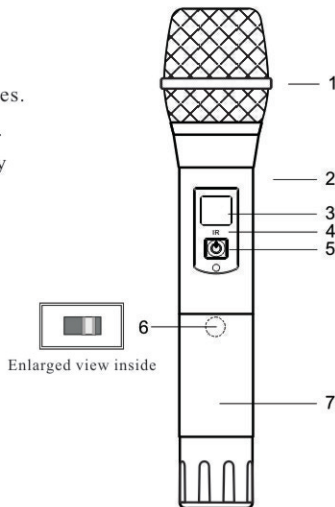


WARNING: BE AWARE OF THE POSITIVE AND NEGATIVE ELECTRODES WHEN INSERTING THE BATTERIES. 2 AA 1.5V BATTERIES IS REQUIRED. IF YOU ARE GOING TO NOT USE THE DEVICES FOR A LONG TIME, PULL OUT THE BATTERIES.

4. Operation instruction for Handheld microphone(Model B)

4.1 Operation instruction

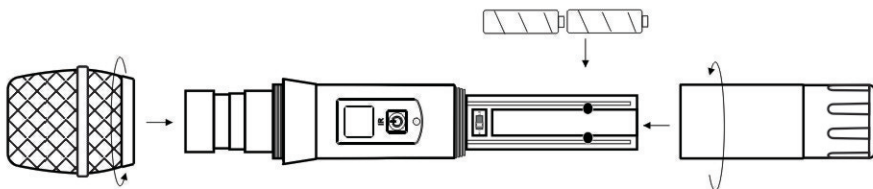
1. Open the bottom battery compartment and insert two AA 1.5V battery. Be aware of the positive and negative electrodes.
2. Push the power switch for 1 second to turn on the microphone.
3. Press the power switch to show working frequency and battery level on screen. Screen backlight will go out in 5 seconds. Press power switch again to lighten the backlight, enabling to see working status in dark environment.
4. Face the microphone's IR window towards the receiver's IR window and press "SET" to finish frequency process.
5. The handheld microphone has transmitting power selecting knob, which can select H (High) of L (Low) according to the distance of emitter and receiver. If L is selected, the power consumption of battery will be less and the time will be extended and interference for others will be less.
6. Press the power switch for 2 second to turn off the microphone.



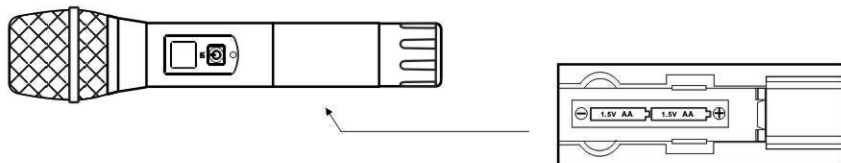
1. Microphone head
2. Microphone body
3. LCD monitor
4. IR transmitting window
5. Power switch
6. Transmitting power select knob
7. Battery compartment

4.2 Graphic instruction

4.2.1 Installation graphic instruction



4.2.2 Battery installs instruction



WARNING: BE AWARE OF THE POSITIVE AND NEGATIVE ELECTRODES WHEN INSERTING THE BATTERIES. 2 AA 1.5V BATTERIES IS REQUIRED. IF YOU ARE GOING TO NOT USE THE DEVICES FOR A LONG TIME, PULL OUT THE BATTERIES.

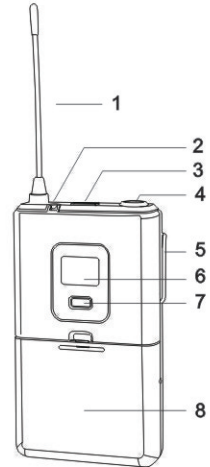
5. Operation instruction for Body-pack transmitter

5.1 Operation instruction

1. Open the bottom battery compartment and insert two AA 1.5V battery. Be aware of the positive and negative electrodes.
2. Push the power switch for 1 second to turn on the microphone
3. Press the power switch to show working frequency and battery level on screen. Screen backlight will go out in 5 seconds. Press power switch again to lighten the backlight, enabling to see working status in dark environment.
4. Press the power switch for 2 second to turn off the microphone.
5. To finish frequency process, open the cover of battery compartment, then face the microphone's IR window towards the receiver's ACT window and press "SET" on the receiver to finish frequency process.

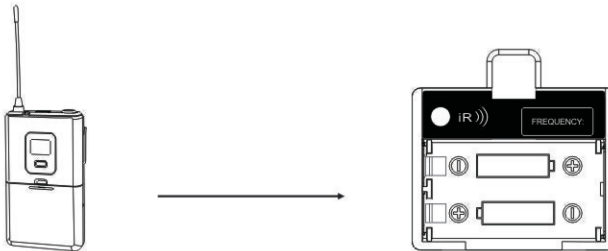
5.2 Graphic instruction

5.2.1 Installation graphic instruction



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|--------------------------|------------------------|
| 1. External antenna | 2. Power light |
| 3. Power switch | 4. Three-PIN socket |
| 5. Metal attaching clamp | 6. LCD screen |
| 7. LCD backlight switch | 8. Battery compartment |

5.2.2 Battery install instruction



WARNING: BE AWARE OF THE POSITIVE AND NEGATIVE ELECTRODES WHEN INSERTING THE BATTERIES. 2 AA 1.5V BATTERIES IS REQUIRED. IF YOU ARE GOING TO NOT USE THE DEVICES FOR A LONG TIME, PULL OUT THE BATTERIES.

6. Operation instruction for Receiver

6.1 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.

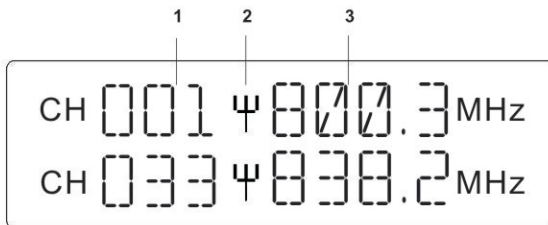
6.2 Operating procedure

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

6.3 Channel and frequency setting

The receiver has A, B, C, D four frequency groups. Long press UP or Down to change the frequency. After the frequency is selected, press SET for 1 second to confirm signal transmitting. Link the IR window of handheld or bodypack microphone with the ACT window on receiver to complete the frequency selection.

6.4 LCD screen graphic instruction



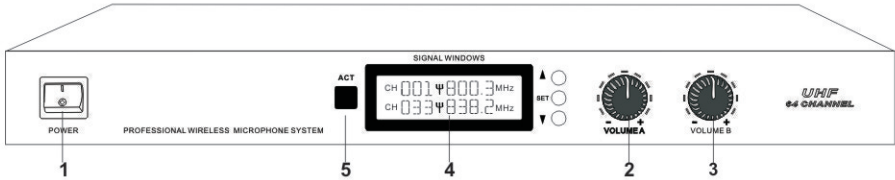
1. Channel number 2. Signal level display 3. Working frequency



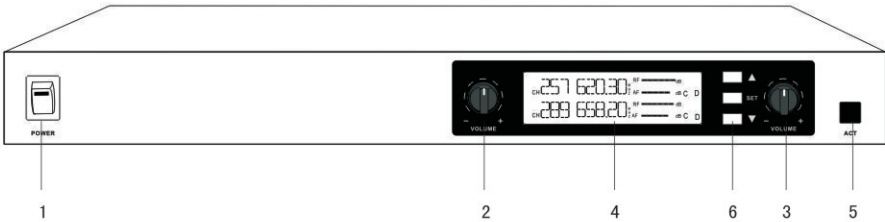
1. Channel number 2. Working frequency 3. Audio and signal level 4. Frequency group

7. Two-channel receiver

7.1 Front panel of two-channel receiver

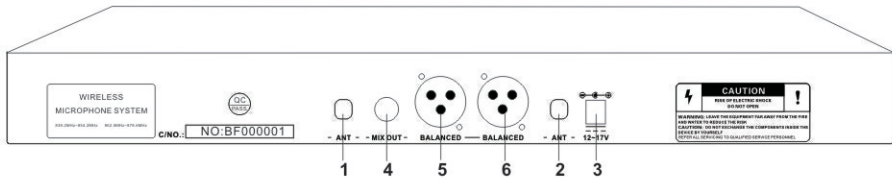


- 1. Power switch
- 2. A channel volume knob
- 3. B channel volume knob
- 4. A,B channel LCD screen
- 5. ACT window



- 1. Power switch
- 2. A channel volume knob
- 3. B channel volume knob
- 4. A,B channel LCD screen
- 5. ACT window
- 6. A,B channel Frequency selection button

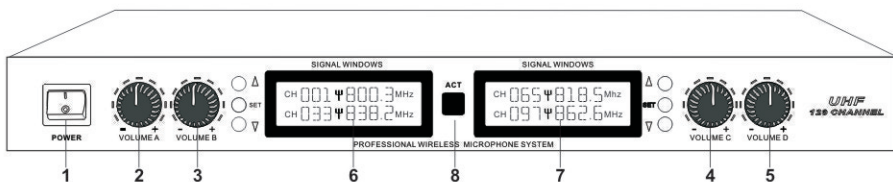
7.2 Back panel of two-channel receiver



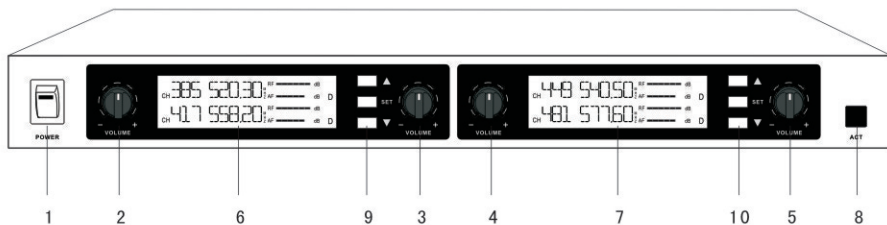
- 1. B channel antenna
- 2. A channel antenna
- 3. DC socket
- 4. Hybrid unbalanced output
- 5. B channel balanced output
- 6. A channel balanced output

8. Four-channel receiver

8.1 Front panel of four-channel receiver

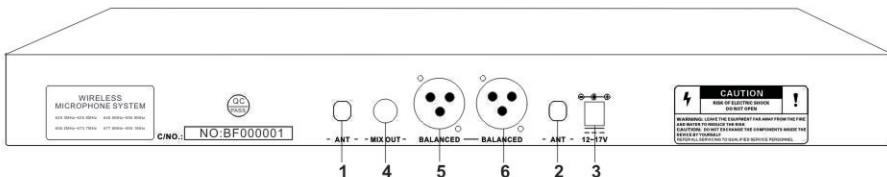


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| 1. Power switch | 4. C channel volume knob | 7. C, D channel LCD screen |
| 2. A channel volume knob | 5. D channel volume knob | 8. ACT window |
| 3. B channel volume knob | 6. A, B channel LCD screen | |



- | | |
|--------------------------|---|
| 1. Power switch | 6. A, B channel LCD screen |
| 2. A channel volume knob | 7. C, D channel LCD screen |
| 3. B channel volume knob | 8. ACT window |
| 4. C channel volume knob | 9. A, B channel Frequency selection button |
| 5. D channel volume knob | 10. C, D channel Frequency selection button |

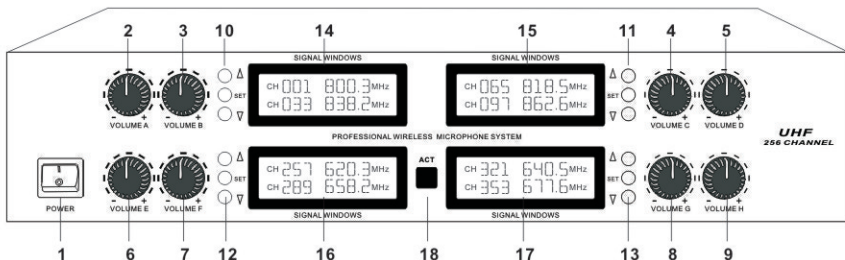
8.2 Back panel of four-channel receiver



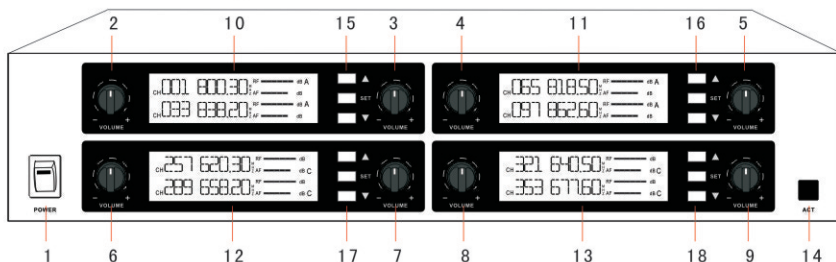
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| 1. C, D channel antenna socket | 3. DC socket | 5. C, D channel balance output |
| 2. A, B channel antenna socket | 4. Hybrid unbalanced output | 6. A, B channel balance output |

9. Eight-channel receiver

9.1 Front panel of eight-channel receiver

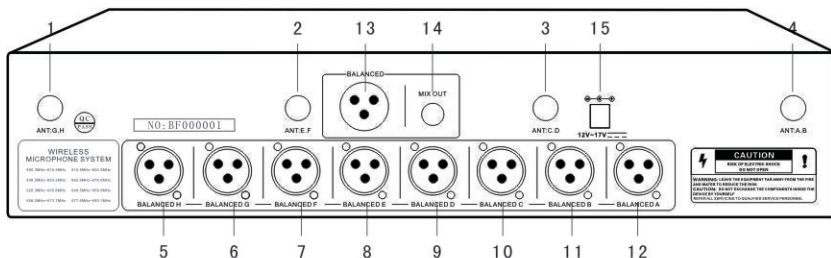


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|--------------------------|--|----------------------------|
| 1. Power switch | 8. G channel volume knob | 15. C,D channel LCD screen |
| 2. A channel volume knob | 9. H channel volume knob | 16. E,F channel LCD screen |
| 3. B channel volume knob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



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

9.2 Back panel of eight-channel receiver



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

10. Product parameters

10.1 Receiver's parameters

Oscillation:	PLL synthesized
Frequency range:	UHF500-900MHz
Frequency stability:	$\pm 0.001\%$
Max. frequency deviation:	$\pm 30\text{KHz}$
Modulation mode:	FM
S/N ratio:	$> 105\text{dB}$
T.H.D:	$< 0.5\% @ 1\text{Kz}$
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:	Two channel 4.5w Four channel 6W Eight channel 9W

10.2 Handheld microphone parameters(Model A)

Power supply:	DC 3V (1.5V AA*2)
Consumption:	100mA
Carry a frequency:	UHF500-900MHz
Frequency Stability:	$\pm 25\text{KHz}$
S/N Ratio:	$> 105\text{dB}$
F/N Ratio:	$> 80\text{dB}$
Dynamic range:	$\geq 100\text{dB}$
Type:	Dynamic
Frequency response:	40Hz ~ 20KHz
Sensitivity:	$-53 \pm 3\text{dB} @ 1\text{KHz}$
Power:	10mW

10. Product parameters

10.3 Handheld microphone parameters(Model B)

Power supply:	DC 3V (1.5V AA*2)
Consumption:	100mA
Carry a frequency:	UHF500-900MHz
Frequency Stability:	± 25 KHz
S/N Ratio:	> 105 dB
F/N Ratio:	> 80 dB
Dynamic range:	≥ 100 dB
Type:	Dynamic
Frequency response:	40Hz ~ 20KHz
Sensitivity:	-53 ± 3 dB@1KHz
Power:	0 or 10mW

10.4 Body-pack microphone parameters

Power supply:	DC 3V (1.5V AA*2)
Consumption:	100mA
Carry a frequency:	UHF500-900MHz
Frequency Stability:	± 25 KHz
S/N Ratio:	> 105 dB
F/N Ratio:	> 80 dB
Dynamic range:	≥ 100 dB
Type:	Condenser
Polar pattern:	Unidirectional
Frequency response:	40Hz ~ 20KHz
Sensitivity:	-47 ± 3 dB@1KHz
Power:	10mW

10. Product parameters

10.5 Integrated parameter

Working frequency:	UHF500-900MHz
Modulation mode:	FM
Channel spacing:	500KHz
Frequency stability:	$\pm 0.001\%$
Dynamic range:	$\geq 100\text{dB}$
Max. frequency deviation:	$\pm 30\text{KHz}$
Frequency response:	40Hz ~ 20KHz
Signal-to-noise ratio:	$> 105\text{dB}$
THD:	$< 0.5\% @ 1\text{Kz}$
Operating distance:	about 100m
Operating temperature:	-10~50°C

11. Solutions to breakdowns

Breakdowns	Causes	Solutions
Receiver can receive signal but with noise interference	Improper battery installation	Reinstall the battery
	There might be other devices with the same frequency near	Find the devices and shut it down
The microphone's LCD screen is not operating OR the microphone cannot be turned on	No battery	Install the qualified battery
	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

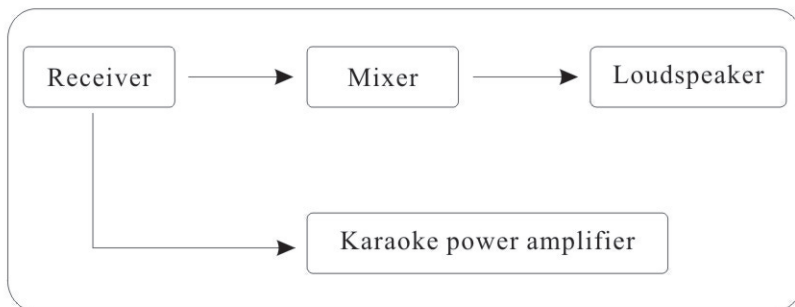
Before fixing or cleaning the device, cut off the electricity supply. Clean it with soft cloth. For spots, clean it with cloth that has neutral cleaning solvent and dry it with another cloth. Do not use gasoline, diluents or any other chemical product, or else the surface will be damaged.

12. Connection instruction

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.