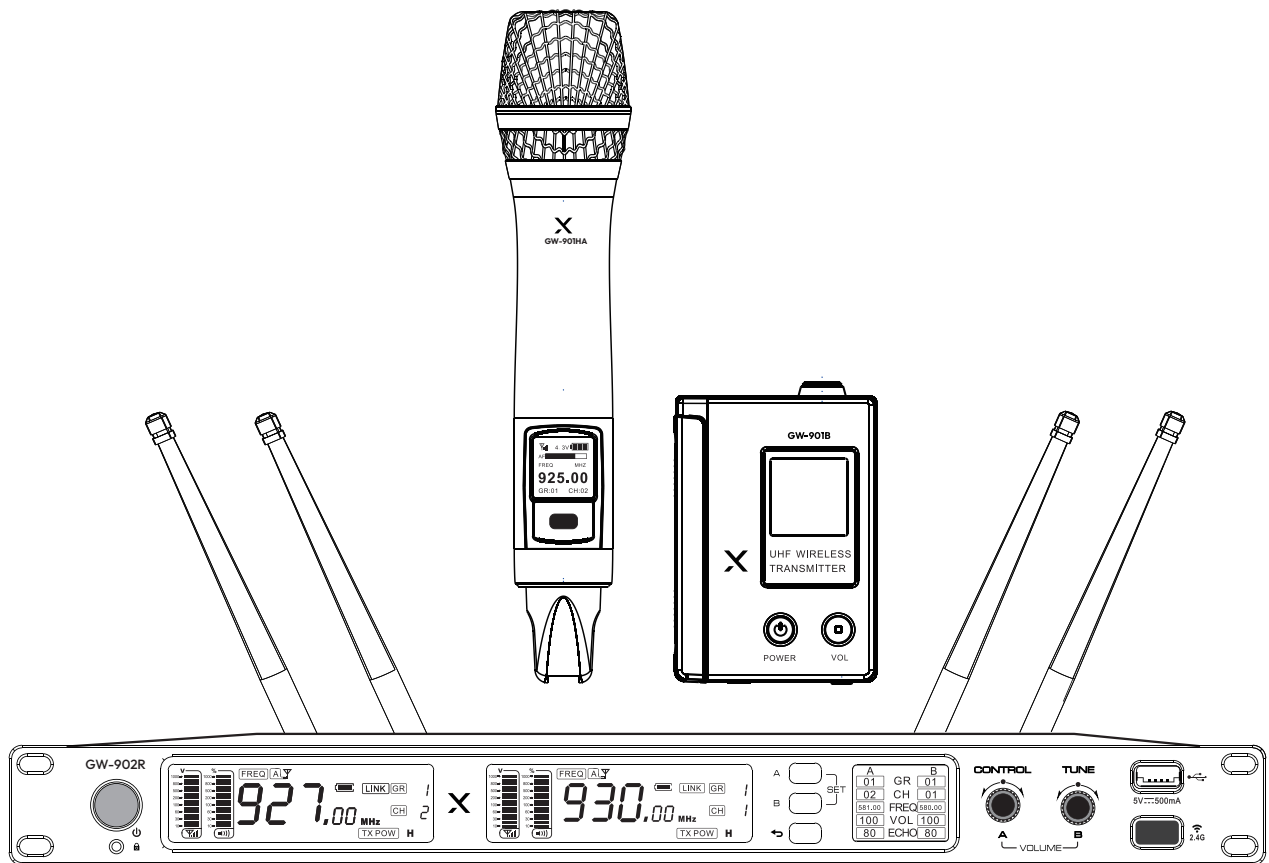


# DUAL WIRELESS MICROPHONE SYSTEM USER MANUAL



**GW Series**

RECEIVER : GW-902R  
HAND MIC : GW-901HA  
BELTPACK : GW-901B

# IMPORTANT SAFETY INFORMATION

## WARNING FOR YOUR PROTECTION READ THE FOLLOWING:

KEEP THESE INSTRUCTIONS

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

The apparatus shall not be exposed to dripping or splashing liquid and no object filled with liquid, such as vases, shall be placed on the apparatus.

CLEAN ONLY WITH A DRY CLOTH.

DO NOT BLOCK ANY OF THE VENTILATION OPENINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

DO NOT INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES, OR OTHER APPARATUS (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.

ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use only with the cart stand, tripod bracket, or table specified by the manufacture, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

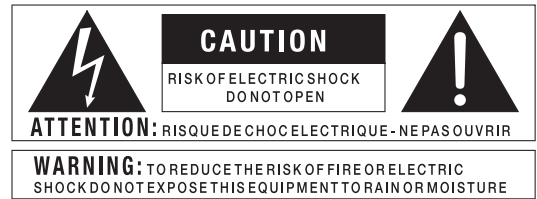
**POWER ON/OFF SWITCH:** If the equipment has a Power switch, the Power switch used in this piece of equipment DOES NOT break the connection from the mains.

**MAINS DISCONNECT:** The plug shall remain readily operable. For rack-mount or installation where plug is not accessible, an all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated into the electrical installation of the rack or building.

**FOR UNITS EQUIPPED WITH EXTERNALLY ACCESSIBLE FUSE RECEPTACLE:** Replace fuse with same type and rating only.

**MULTIPLE-INPUT VOLTAGE:** This equipment may require the use of a different line cord, attachment plug, or both, depending on the available power source at installation. Connect this equipment only to the power source indicated on the equipment rear panel. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel or equivalent.

If connected to 240V supply, a suitable CSA/UL certified power cord shall be used for this supply.



The symbols shown above are internationally accepted symbols that warn of potential hazards with electrical products. The lightning flash with arrowpoint in an equilateral triangle means that there are dangerous voltages present within the unit. The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the owner's manual.

These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.

# IMPORTANT SAFETY INFORMATION

## SAFETY INSTRUCTIONS

NOTICE FOR CUSTOMERS IF YOUR UNIT IS EQUIPPED WITH A POWER CORD.

WARNING: THIS APPLIANCE SHALL BE CONNECTED TO A MAINS SOCKET OUTLET WITH A PROTECTIVE EARTHING CONNECTION.

The cores in the mains lead are coloured in accordance with the following code:

**GREEN and YELLOW - Earth    BLUE - Neutral    BROWN - Live**

As colours of the cores in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The core which is coloured green and yellow must be connected to the terminal in the plug marked with the letter E, or with the earth symbol, or coloured green, or green and yellow.
- The core which is coloured blue must be connected to the terminal marked N or coloured black.
- The core which is coloured brown must be connected to the terminal marked L or coloured red.

This equipment may require the use of a different line cord, attachment plug, or both, depending on the available power source at installation. If the attachment plug needs to be changed, refer servicing to qualified service personnel who should refer to the table below. The green/yellow wire shall be connected directly to the units chassis.

CONDUCTOR		WIRE COLOR	
		Normal	Alt
L	LIVE	BROWN	BLACK
N	NEUTRAL	BLUE	WHITE
E	EARTH GND	GREEN/ YEL	GREEN

### WARNING

This device is equipped with high voltage elements. Do not open the shell if not necessary. Pay attention to the risk of electric shock when checking or modifying the device.

The responsibility of decline of quality or burn down of the device caused by owner's modifying or disoperation is not included in the warranty.

If the ground is defeated, certain fault conditions in the unit or in the system to which it is connected can result in full line voltage between chassis and earth ground. Severe injury or death can then result if the chassis and earth ground are touched simultaneously.

# CONTENTS

## Section 1 - Introduction

1.1 Brief Introduction.....	1
1.2 Product Features.....	1

## Section 2 - Quick Started

2.1 Receiver.....	2
2.2 Receiver Screen.....	3
2.3 Transmitter.....	5
2.4 Receiver Operation.....	6

## Section 3 - Install the Connection

3.1 Install the connections and Cautions.....	8
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## Section 4 - Appendix

4.1 Technical Specifications.....	10
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## Section 1-Introduction

### 1.1 Brief Introduction

This digital wireless microphone system has adopted the advanced technology delivers outstanding audio clarity, and is rugged and reliable. Antenna diversity circuits guarantees no dead spot in working area and with high strong anti-interference capability.

Using bidirectional data synchronization technology, realize automatic frequency, frequency selection, frequency hopping, operation and debugging more quickly. The transmitter uses rechargeable lithium ion battery with large capacity which can be used for more than 8 hours.

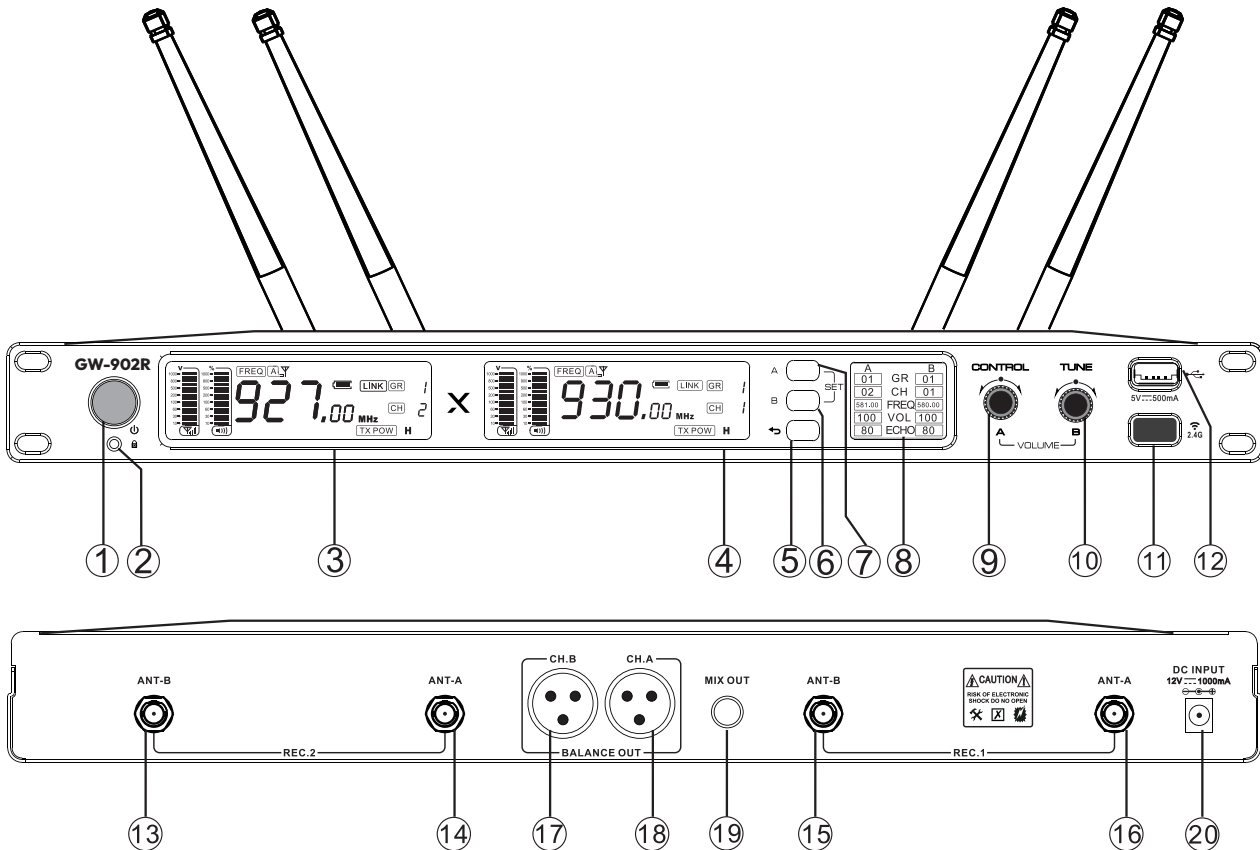
Three colorful LCD display shows working situation more clear, it is easy to set up and operate with advanced features for professional installations requiring multiple wireless microphone systems.

### 1.2 Main Features

- Using UHF band to avert interference frequency.
- Adopt advanced digital wireless audio technology. delivers outstanding audio clarity, and is rugged and reliable.
- Antenna diversity receiver, guarantees no dead spot in working area
- Bidirectional data sync technology, easy to set up and operate.
- Receiver has three color LCD with humanized menu makes more intuitive operation.
- The three-screen display design is more high-end and generous, and the working condition is more clear and intuitive:
- Using 18650 lithium battery makes transmitters longer working.
- Standard 19" size, ideal using distance: 80 meters
- Designed for KTV rooms, engineering installation and stage use

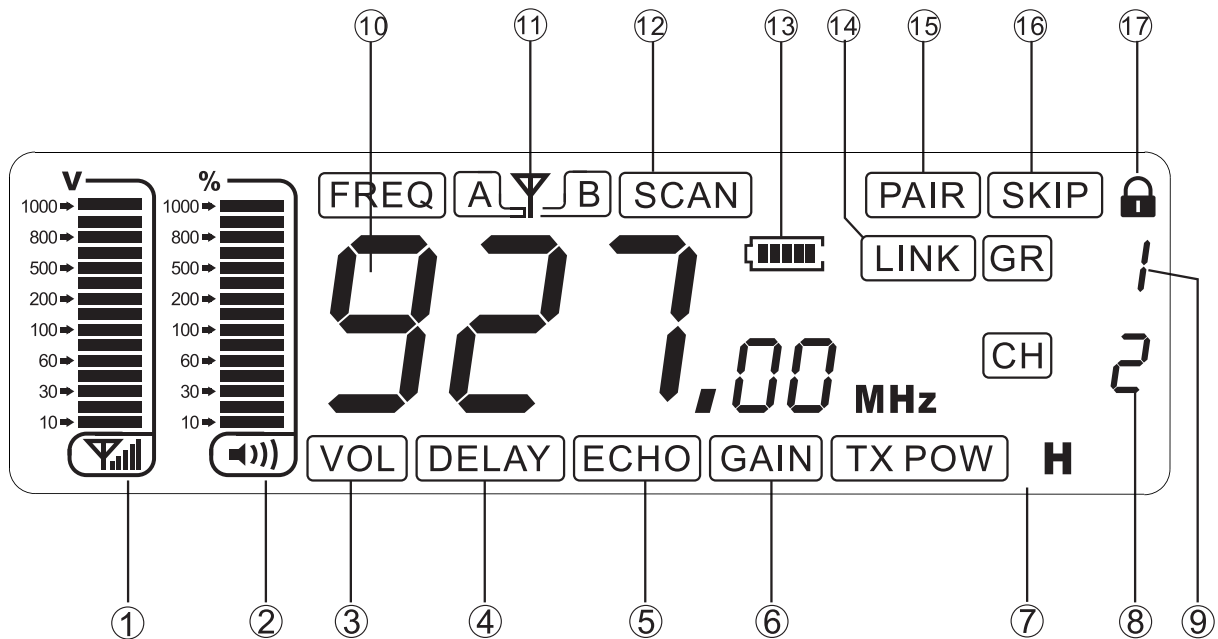
## Section 2-Quick start

## 2.1 Receiver



1. Power switch/ Mute  
Green light: Power ON  
Red light: Power OFF/ mute
2. Screen Lock: long-press 3 seconds to lock/unlock
3. CH-A LCD screen
4. CH-B LCD screen
5. Return button: short-press to return home page
6. CH-B SET button
7. CH-A SET button
8. TFT functions screen
9. Control Button: select menu
10. Tune Button: adjust parameters
11. 2.4GHz auto-sync module
12. DC recharge output
13. Antenna B1
14. Antenna A2
15. Antenna A1
16. Antenna B2
17. CH-A balance output
18. CH-B balance output
19. Unbalance 3.5mm jack output
20. 12V1ADC input

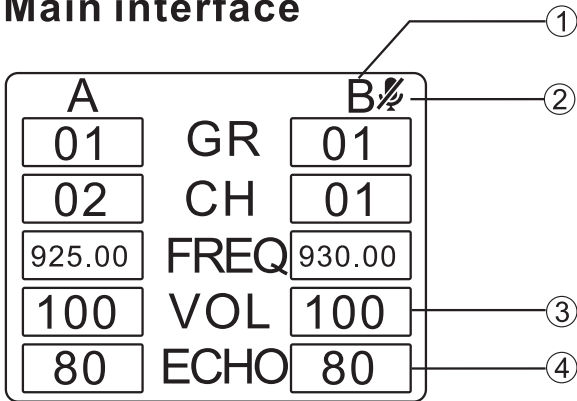
## 2.2 Receiver Screen



1. RF signal level
2. AF audio level
3. VOL: Volume
4. DELAY
5. ECHO
6. GAIN: microphone capsule sensitivity gain
7. TX POW: transmitter power  
( H- high, M- medium, L- low)
8. CH: working channel
9. GR: work group
10. FREQ: working frequency
11.  $\overline{A} \downarrow \uparrow B$  : antenna signal is A or B .
12. SCAN: Auto frequency scan.
13.  $\text{|||||}$  Transmitter battery level
14. LINK: Indicating connected condition of receiver & transmitter
15. PAIR: Indicating auto- sync condition of receiver & transmitter
16. SKIP: Frequency hopping condition.
17.  $\text{🔒}$  Screen locked

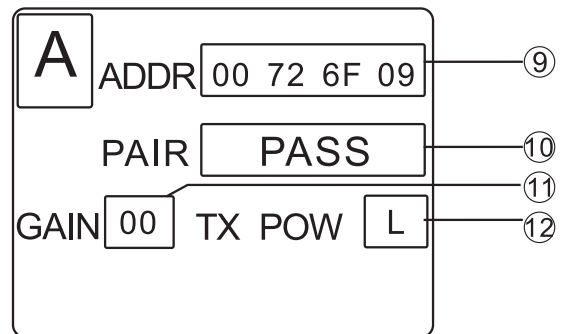
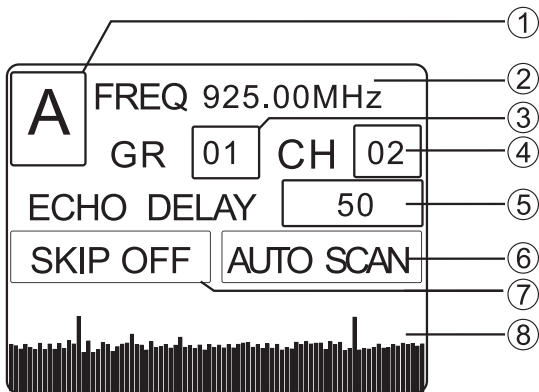
## Function screen

### Main interface



1. Channel A/ B.
2. Mute
3. VOL: A/B channel volume level
4. ECHO: A/B channel volume echo level

### Functions interface



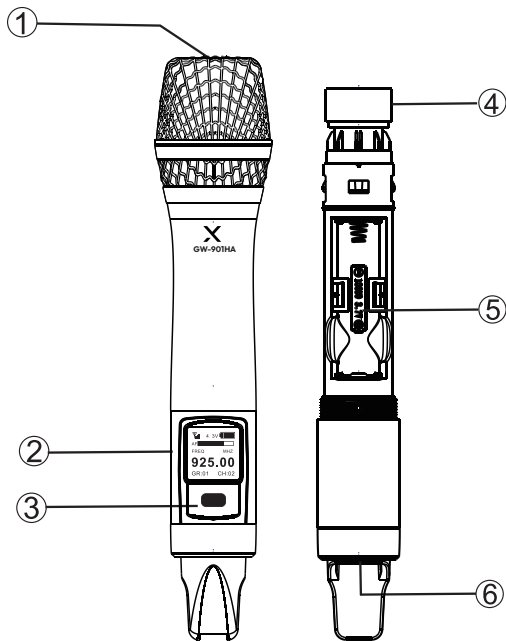
1. **A** Channel A.
2. FREQ: Working frequency is 581.00MHz.
3. GR: Working group 1
4. CH: Working channel is 2
5. Current echo delay is level 50
6. AUTO SCAN: auto frequency scan function
7. SKIP OFF: skip function is OFF  
SKIP MAUN: Manual mode  
SHIP AUTO: Auto mode
8. Spectrum display of Auto Scan function

9. ADDR: Transmitter IP-ADDR
10. PAIR(sync): **PASS** mean receiver and transmitter syncn successfully.
11. GAIN: Transmitter gain
12. TX POW: Transmitter power



## 2.3 Transmitter

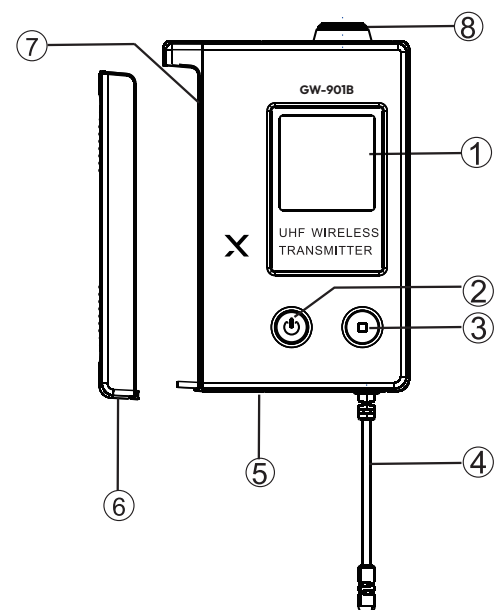
### Handheld Transmitter



1. Microphone grill
2. OLED screen
3. Power button: Long-press to power ON/OFF, short-press to mute
4. Microphone capsule
5. Battery sink: Use 1\*3.7V 18650 lithium battery
6. Type-c recharge port input

### Body-pack Transmitter

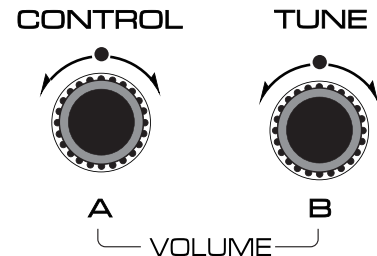
1. OLED Screen
2. Power button: long-press to power ON/OFF, short-press to mute
3. Volume
4. Antenna
5. Type-C recharge input
6. Battery cover
7. Use 1\*3.7V 18650 lithium battery
8. Type-C recharge input



## 2.4 Receiver Operation

1. Screen lock: when the screen in locking status, long-press unlock button(2) to unlock.

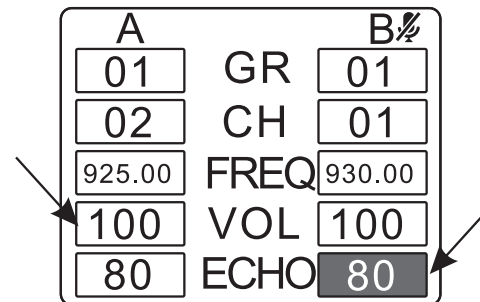
2. Control knob(9): Rotate to select menu  
TUNE knob(10): Rotate to adjust parameter,  
short-press to confirm



### Volume/Echo

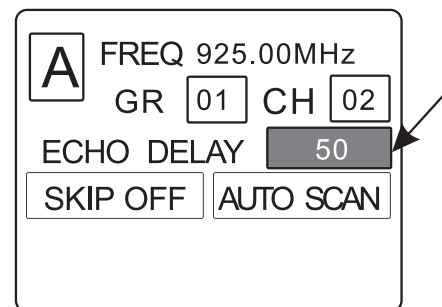
While the screen indicating right side interface,  
1. Volume: rotate the A/B(9)(10) knob to adjust  
left/right channel volume.

2. ECHO: short-press the A/B (9)(10)knob first,  
then adjust echo level between 1-100.



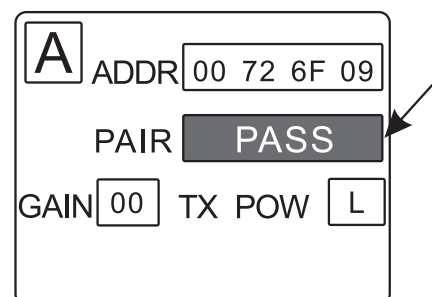
### Echo Delay

Short-press SET A or B button(6)(7) enter menu,  
then operate control knob(9) (10)the adjust delay  
level between 1-100



### SYNC Operation

Turn off the handheld first, then operate PAIR in  
the menu, when the screen flash 'pair' & '....',  
Turn on the handheld till the handheld screen  
indicating SYNC SUCCESSFULLY, that mean  
SYNC finish.

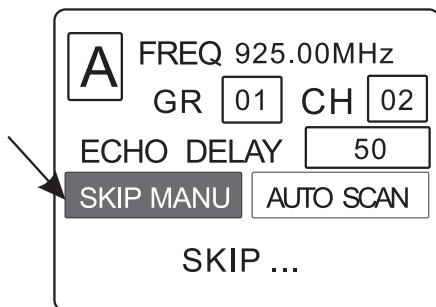


**Note! don't remove both receiver and transmitter more than 20 meters far way**

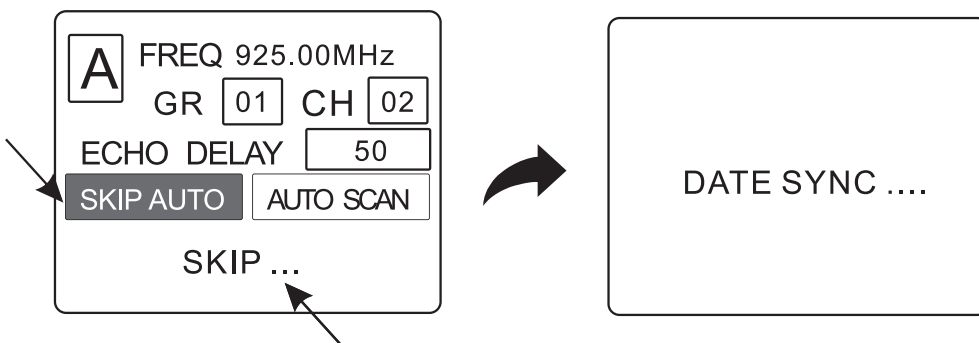
## Skip Frequency

**Note!** While the system is keeping in the interface and selecting this function is work, while move out the menu, the skip function is OFF.

1. **Manual mode:** When select 'SKIP MANU' mode, rotate the TUNE knob(10) to skip to next without interference frequency(then both receiver & transmitter sync automatically)

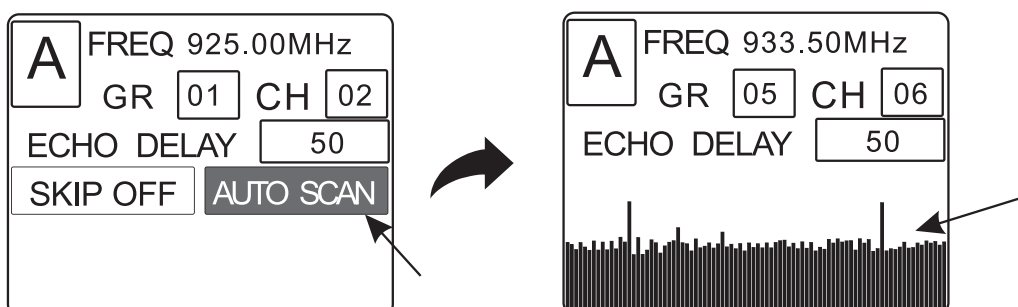


2. **Auto mode:** When transmitter meeting seriously interference, move menu to 'SKIP AUTO' mode, rotate the TUNE knob(10) to skip to a without interference frequency (then both receiver & transmitter sync automatically)



## Auto Scan

**Auto frequency scan:** It scanning the currently occasion first, then choose the best frequency to SYNC( both receiver & transmitter sync automatically)

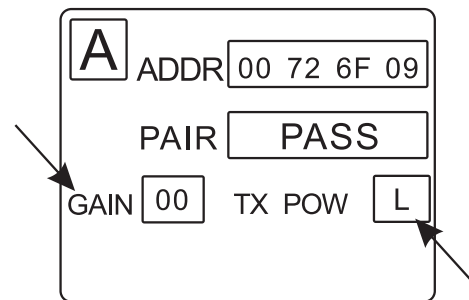


## Gain & Transmitter Power

**Gain:** Adjust transmitter sensitivity between  
-10 ~+10 level

**Transmitter Power:**

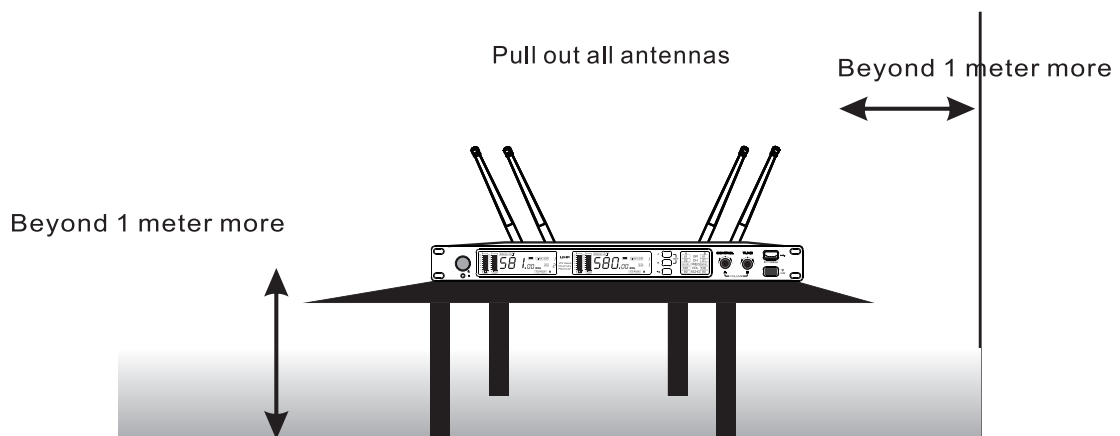
Setting H- high, M- medium, L- low hree level power.



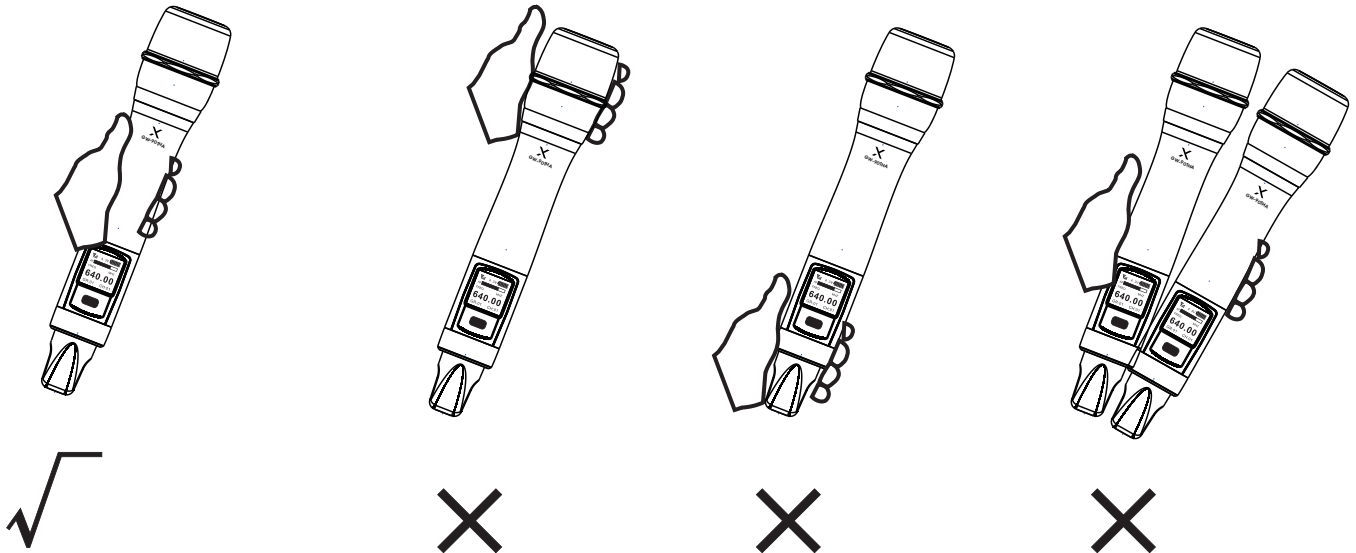
## Section 3-Installation

### 3.1 Installation guide

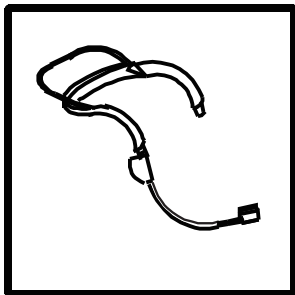
1. Pull out the antennas, make them to be perpendicular with receiver
2. Connect the power cable to the DC socket of the receiver, make sure the adaptor is suitable before using the Receiver.
3. Mix output: connect the audio cable (attached) to the MIX. OUT socket, while the other side connect to MIX. IN or AUX. IN socket of the mixer or amplifier.
4. Press the power button boot up the receiver, it enter to working interface on the screen, Receiver is in working status. Note: Before turn on the Receiver, turn the volume control knob to the minimum volume, adjust the volume as needed when the Receiver is working.
5. Please install the system according to the guide as bellow. Make sure that all the machines are power off before installing.



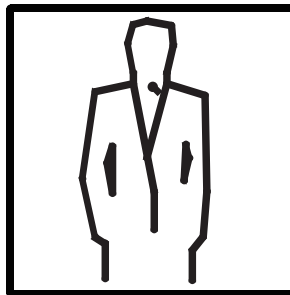
6. Microphone using tips, please refer below using ways.



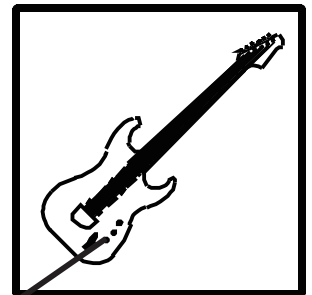
7. Please fixed headset or lavalier mic to the bodypack transmitter before using, pay attention to the using distance between microphone and mouth to avoid the sound distortion.



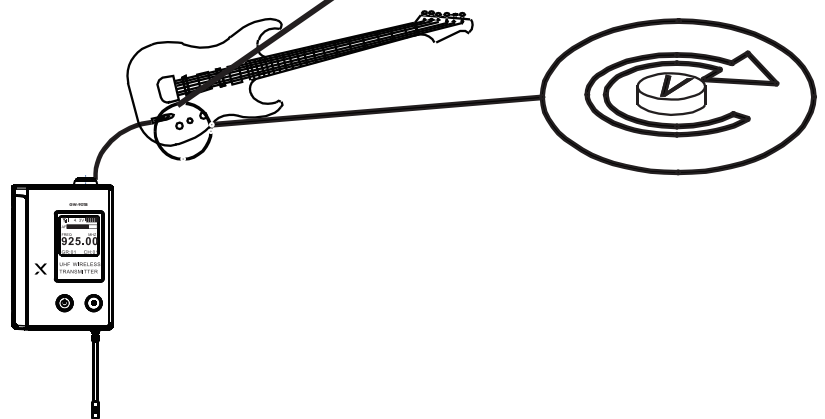
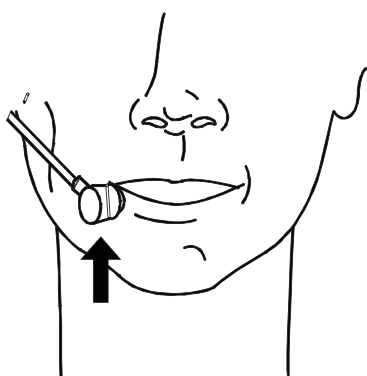
Headset



LAV MIC



Electronic guitar



## Section 4-Appendix

### 4.1 Specifications

#### **RECEIVER : GW-902R**

**Optional UHF band**

**Dynamic Range:** >96dB

**Total Harmonic Distortion:** <0.1%

**Frequency response:** 40Hz-18KHz/±1dB

**Signal/Noise Ratio:** >96dB

**Receiving sensitivity :** -95dBuV

**Power Supply :** DC12V 500mA

**Audio Output:** 1\*6.3mm MIX output  
2\*XLR Balance output

#### **HAND MIC : GW-901HA**

**Carrier Frequency:**UHF

**Frequency Switch:** 2.4G AUTO SYNC

**Harmonic Radiation:** >50dBc

**Battery:** 1\*18650 lithium battery

**Battery life:** 8 hours

#### **BELTPACK : GW-901B**

**Carrier Frequency:** UHF

**Frequency Switch:** 2.4G AUTO SYNC

**Harmonic Radiation:** >50dBc

**Battery:** 1\*18650 lithium battery

**Battery life:** 8 hours

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