FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

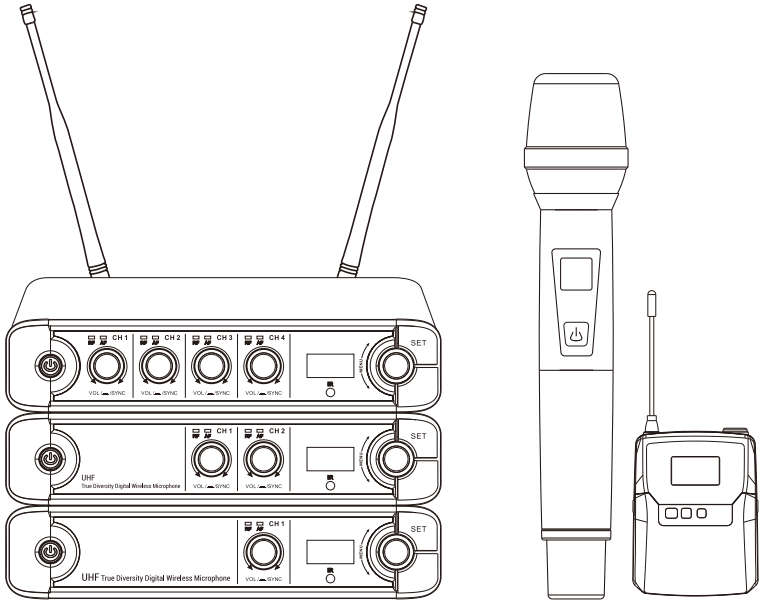
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure for Wireless Mcirophone
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.

As the product is constantly improved , there won't be any further notice for the improvement.
Actual product will not be as pictured, please make the object as the standard.

UHF True Diversity Wireless Microphone User Manual



※ Thank you for using this device. Please read this manual carefully before your operation. ※

SAFE INFORMATION

Operation and keeping

Don't use or keep this appliance in the environment of high dampness, strong magnetism, strong light, or high temperature, etc. If don’t use it for a long time, the plug should be pulled off from the power source, and the batteries should be taken out from the handheld microphone/bodypack. Do not cast, toss, throw or drop the handheld microphone/bodypack to avoid serious damage. And do not mix the new and old batteries, and only use equivalent types or effects batteries.

Power source

Only use the voltage shown in the indicative label for this product. Please ensure the local power grid provides correct type of electricity.

Accessories

Please use the accessories provided or recognized by the manufacturer.

Repair

Do not repair this appliance by yourself, because by opening or detaching the outer shell, you may be exposed to dangerous voltage or the problem scope may be expanded. Professional technicians should be referred to, or you can resort to our company for repair via the dealer.

Changing parts

In need of changing parts, the technician should use the original parts according to the manufacturer's specifications. If not changed properly, it may cause fire, electric shock, or other dangers.

Modification

If the appliance has troubles or declines in its performance, please do not dismantle the shell to modify the adjustable elements on the circuit by yourself, so as not to cause severe damage. You should ask an expert technician to adjust by using special equipment, or you can contact the local dealer, through whom we are here to serve!

Maintenance

This appliance does not contain any amendable parts. Please do not amend it by detaching it yourself, otherwise, you will lose your right of warranty.

Notices

* To ensure sufficient ventilation, the minimum space around the appliance is 30mm;
* The vent opening shouldn't be covered by items such as newspapers, table cloth or curtains;
* Nuke flame sources such as the kindling candles shouldn't be placed on the appliance;
* The appliance should be free from water drops or splashes, Do not put containers containing full liquid water like vases on the appliance;
* Use the power transformer equipped in the series;
* The terminals warning marks of device is a electricity danger warning; the external wires connection of these terminals should be installed by guided person, or use available leading cords or soft cords.
* Dispose of the used batteries properly, put them to the designated recycle box;
* The appliance can be used in the tropical or temperate climate conditions.

Introduction

Thank you for choosing this wireless system! The wireless microphone is specially designed for daily use under harsh environment. The sound quality is perfect. It has a flat frequency response in 50Hz-18KHz range of frequency response. Efficient and reliable radio frequency performance, can transmit stable audio carrier signal around 100 meters visual range. Applicable to all kinds of stage, suitable for small clubs, but also for large concerts, theaters, and etc.

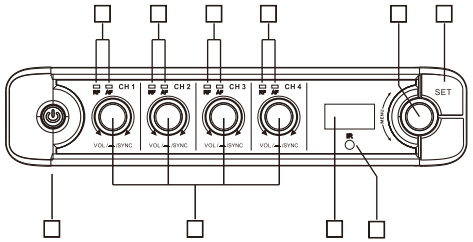
Package contents

- 4CH Receiver*1 / 2CH Receiver*1 / 1CH Receiver*1
- Handheld transmitter or Bodypack transmitter*4 / *2 / *1
- Power Adapter*1
- Antenna*2
- AA Battery*8 /*4 /*2
- User Manual*1

Contents

Product introduction..... 02
Product overview..... 03-06
Installation/Connection..... 07
In use..... 08
Frequency groups setting..... 09
Operation menu overview..... 10-12
Features and Specifications..... 13
Troubleshooting..... 14
Cleaning..... 14

Receiver Front Panel（4CH）



① Power switch: Turn on or off the receiver

② Single channel operation knob button (volume/IR Sync. signal transmission)

③ RF/AF indicator

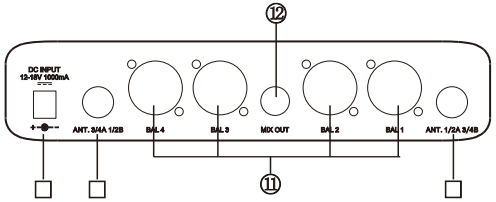
④ Full-color TFT display

⑤ IR sync. sender

⑥ Functions setting knob

⑦ Operation selection button

Receiver Rear Panel（4CH）



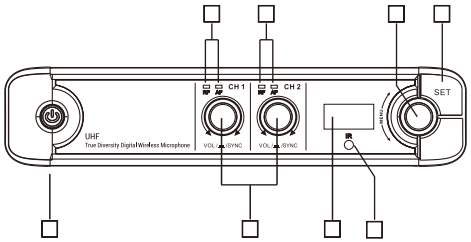
⑧ DC power input

⑨-⑩ BNC antenna interface

⑪ Balanced Output 1-4: The XLR socket can be connected with a standard balanced shield cable to the balanced microphone input of the mixer.

⑫ Unbalanced output: can use unbalance audio cable to connect to the mixer

Receiver Front Panel（2CH）



① Power switch: Turn on or off the receiver

② Single channel operation knob button (volume/IR Sync. signal transmission)

③ RF/AF indicator

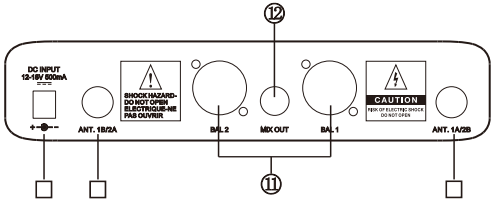
④ Full-color TFT display

⑤ IR sync. sender

⑥ Functions setting knob

⑦ Operation selection button

Receiver Rear Panel（2CH）



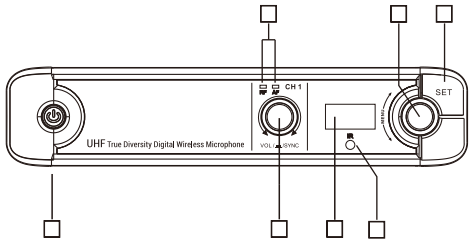
⑧ DC power input

⑨-⑩ BNC antenna interface

⑪ Balanced Output 1-2: The XLR socket can be connected with a standard balanced shield cable to the balanced microphone input of the mixer.

⑫ Unbalanced output: can use unbalance audio cable to connect to the mixer

Receiver Front Panel（1CH）



① Power switch: Turn on or off the receiver

② Single channel operation knob button (volume/IR Sync. signal transmission)

③ RF/AF indicator

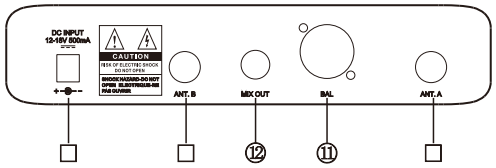
④ Full-color TFT display

⑤ IR sync. sender

⑥ Functions setting knob

⑦ Operation selection button

Receiver Rear Panel（1CH）

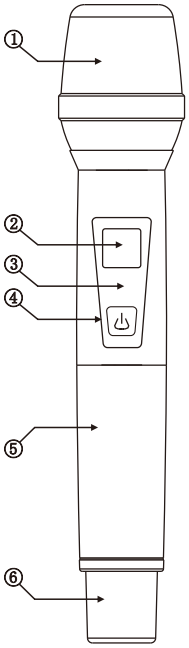


⑧ DC power input

⑨-⑩ BNC antenna interface

⑪ Balanced Output : The XLR socket can be connected with a standard balanced shield cable to the balanced microphone input of the mixer.

⑫ Unbalanced output: can use unbalance audio cable to connect to the mixer



Handheld transmitter

① Metal mic head

② LCD display

③ IR sync. detector

④ Power switch/mute button

⑤ Battery compartment (Use 1.5V*2 batteries)

⑥ Antenna/tailpipe

(To avoid affecting performance, do not hold the antenna position during using)

Handheld transmitter display overview

Press and hold the power button to turn on the transmitter, and it will show the standard information interface on the screen.

Bodypack transmitter

① RF antenna

② Mute button (to mute or unmute)

③ Mini XLR input

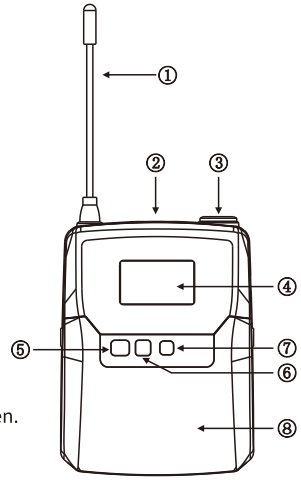
④ LCD display

⑤ Power switch button

⑥ IR sync. detector

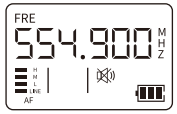
⑦ 4-level volume control button

⑧ Battery compartment (Use 1.5V*2 batteries)

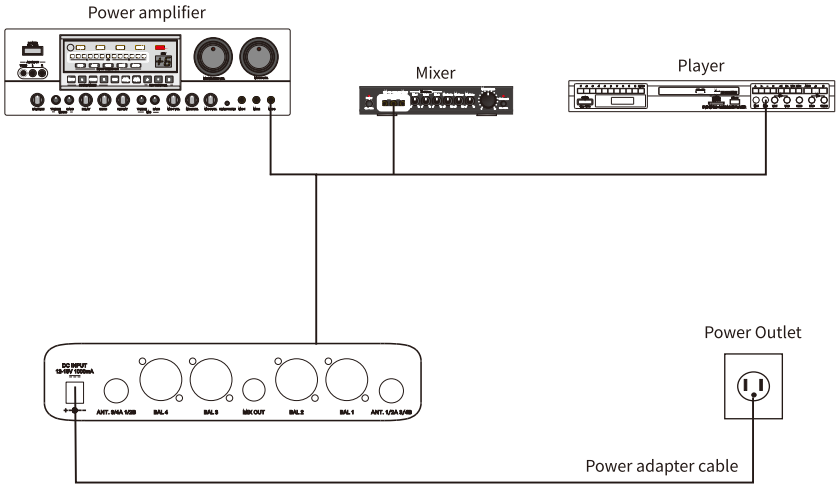


Bodypack transmitter display overview

Press and hold the power button to turn on the transmitter, and it will show the standard information interface on the screen.



Receiver installation



1. When use this system, the receiver should be placed on a flat surface or mounted with a 19 "bracket. The receiver should away from the ground more than 1 meter, and away from the wall /other surface more than 1 meter.
2. Keep the receiver antenna away from noise sources, such as computer equipment, digital equipment, television, etc.
3. Install the antenna on the rear panel, and position the antenna at a 45 degree angle to the plane
4. Position the receiver within the best available line of sight to the transmitters.

Receiver connection

1. Connect the DC jack of the supplied power adaptor to the receiver and the plug-top to the mains outlet.The input voltage of the power adapter must be consistent with the local power supply specification range.
2. A choice of mixed output of both microphones on 6.3mm jack or individual balanced XLR outputs is available on the rear panel of the receiver.

Unbalanced 6.35 mm (1/4 in.) : Connects to high impedance inputs such as guitar amplifiers.

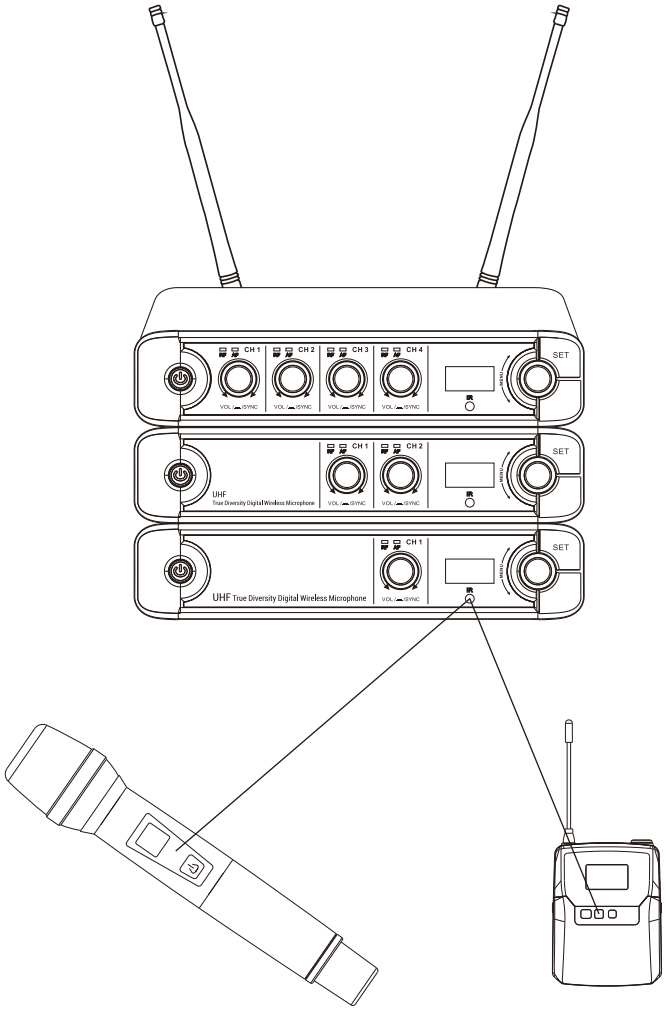
Balanced XLR: Connects to a mixer or other professional audio equipment.

Transmitter and receiver sync adjustment

Adjust the receiver and one transmitter, need to send the following parameters to the transmitter:

- Current set frequency
- Sync display colors

IR sync signal method:



Pre-set Frequency Groups

Step 1 : Turn on all the receivers, keep all the transmitters under OFF status.

Step 2 : Select " GR " in the main menu of receiver, and press the set button at the same time, make all the receivers select the same frequency group e.g. : GR:1 (Preset 1~10 freq. groups max optional).

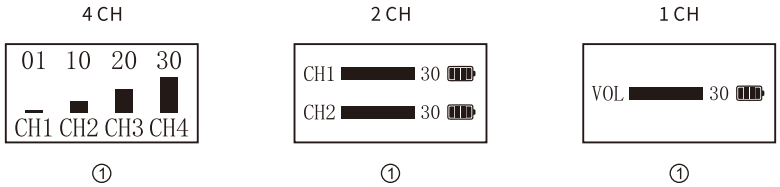
Step 3 : After setting all receivers in the same freq. group, then select each channel in the main menu one by one. Each receiver choose a different channel CH: 01～CH:24.

Step 4 : After setting Freq. group and channel, then use transmitters match the freq. with receiver via IR.

Note: The preset frequency groups and channels number depends on different countries frequency band.

Operation Menu Overview

1. Turn ON/Off Receiver



Press ON/OFF button, the receiver is on, the screen will show standard infromation. (as picture 1 shows)
Press ON/OFF button again, receiver will be OFF.

2. Freq. Groups Setting

Press “ SET ” button, open selection menu interface (as picture 2 shows), then press “MENU” knob, choose “GR” (as picture 3 shows) , and rotate “MENU” knob to select suitable group (as picture 4 shows), the standard interface will show the current selected group.

Note: Press “ SET ” button continuously to select different channels, and then use the same operation to set other channels.

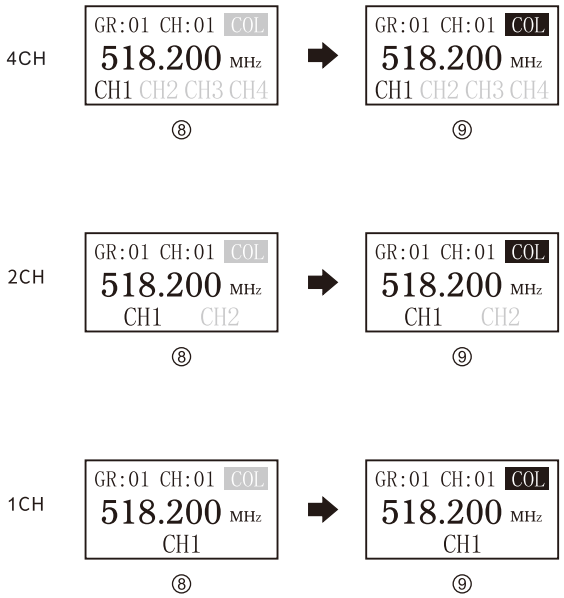
3. Freq. Channel Setting

Press “ SET ” button, open selection menu interface (as picture 5 shows), then press “MENU” knob in twice to choose “CH” (as picture 6 shows), rotate “MENU” knob to select suitable channel (as picture 7 shows). Meanwhile, menu interface will show current selected channel.

Note: Press “ SET ” button continuously to select different channels, and then use the same operation to set other channels.

Operation Menu Overview

4. Colour Setting



Press “ SET ” button, open selection menu interface (as picture 8 shows), then press “ MENU” knob in three times to choose “COL” (as picture 9 shows), rotate “MENU” knob to choose the color among green, yellow, red, dark blue, white and light blue 6 colors.

Note: Press “ SET ” button continuously to select different channels, and then use the same operation to set other channels.

Features & Specifications

Features

- Adopt adjustable UHF frequency, stable performance, reliable transmission.
- Integrated antenna distribution system, reduce antenna mutual radiation interference effectively.
- TFT color display to show functions.
- Half-U standard housing design.
- Max transmission power: 13dBm (depends on the regions)
- 50Hz-18KHz flat frequency response.

Receiver

- Receiving channel：1CH/2CH/4CH
- Carrier wave：470-960MHz, depends on the regions
- Oscillation：PLL phase-locked frequency synthesis
- Frequency sensitivity：Input 6dBμV, S/N>80dB
- Operating distance：60 meter
  (Note: the actual range depends on RF signal absorption, reflection and interference factors)
- T.H.D.：<0.5% @ 1KHz
- Transmission bandwidth：< 100KHz

Handheld transmitter

- Oscillation mode：PLL phase-locked frequency synthesis
- RF carrier ware range：470-960MHz depends on regions
- Pickup gain：Fixed gain
- Transmission power：13dB
- Current drain：standard＜130mA
- Display：LCD
- Cartridge mode：Dynamic cardioid cartridge

Bodypack transmitter

- Oscillation mode：PLL phase-locked frequency synthesis
- RF carrier ware range：470-960MHz depends on regions
- Pickup gain：Adjustable gain
- Transmission power：13dB
- Current drain：standard＜130mA
- Display：LCD
- Cartridge mode：Condenser cardioid cartridge

Troubleshooting

If you are having problems operating , or suspect something is wrong with the unit , please check the troubleshoot list below to see if the issue is a result of incorrect operation rather than equipment malfunction.

Issue	Reason	Solution
Microphone light not bright	• Microphone is using normal • Install battery polarity is wrong • Battery volume is not full • Battery connecting panel corrosion	• Some microphone light is not bright when using , it belong to normal phenomenon • Check it and install battery with correct polarity • Change new battery • Clean and change battery contact chip
Receiver no power supply reaction	• Electrical socket not connecting	• Check electrical socket
Receiver without receive signal	• Microphone turn off • Microphone and receiver with different frequency • Microphone exceed working distance	• Turn on relative microphone • Check operation instruction carefully and adjust frequency correctly • Back to available operation range
Receiver have receive signal without sound	• Volume is adjust to minimum • AF connect cable with wrong connection or breakdown	• Check it and adjust receiver and loud speaker volume • Check it and connecting AF connection cable correctly and reliably
Receiver have signal and the noise from loud speaker before tum on the receiver	• Same frequency device nearby	• Change system frequency to avoid interference , ensure receiver keep enough distance between computer , computer song-order machine and cellphone
Sound on and off	• Exceed working distance	• Back to available operation range
Short working distance	• Complicated working environment	• Don't use it in the complicated environment , such as large metal object , brick wall , a large crowds, which will affect available operation range.

CLEANING

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.