UHF SERIES

UHF

PLL

LCD

WIRELESS SYSTEM

THE GUITARIST UHF

THE PRESENTER UHF

THE VOCAL ARTIST UHF

THE HEADSET UHF

agent:

CATALOG

SYSTEM COMPOSITION

1. Receiver..... X1
2. Wireless hand-held or body-pack microphone.....X1/X2
3. Audio Cable.....X1
4. AC power adapter of special receiver.....X1
5. Battery 1.5V.....X2/X4
6. User guide.....X1

Thanks for purchasing this product, please read this instruction carefully so that can understand how to operate the product of style you bought correctly. Please store this instruction in a safe place after reading as a reference in the future.

This series of professional wireless microphone system used a super steady PLL-synthesized control technic and match with the high efficient, low comsumption discharging technique and the super sensitive discharging receiving technique, also apply an independent developed mobile frequency compression, expander circuit, image frequency limiting circuit, a multiple checked silent and noisy circuit, antenna diversity receiving circuit, switch impact noise defeat circuit. resist reverberation circuit and changed output controlled slowly system and finished on its item named pattern line. Eery system is available to an excellent electric function by Q.C. strictly.

FOREWORD

Your new series of wireless system is designed to give you the best of both sound reinforcement words, the freedom of wireless system, and the excellent quality. This manual covers each of the series system: The Vocal Artist-UHF, The Presenter-UHF The Headset-UHF and The Guitarist-UHF.

SYSTEM FEATURE

1. Adopt the PLL-Synthesized control technic, 46selectable UHF channel.
2. The UHF frequency range is 460-970MHz, avoiding the frequency interruption.
3. LCD information display.
4. Fully computerized numercal control, agility and convenience to operate.
5. Double noise squelch operation circuit and system will be higher efficient and much more steady.
6. Use the dynamic type and Uni-directional cartridge, clear to show the sound.
7. High efficient and low consumption design.
8. Use the high extension antennas, the operating distance will reach 100m.
9. A self-contained input&output connector, convenience to connect the sound equipment.
10. Adapt to use in the stage and other occasion.

SYSTEM TYPE

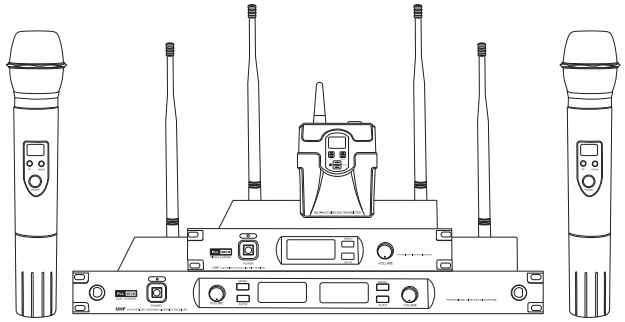
The Vocal Artist-UHF is a hand-held system designed for singers who desire the high quality microphones and the freedom of wireless performance.

The Presenter-UHF is a body-pack system designed for public speakers who prefer an inconspicuous, hands-free lavalier microphone.

The Headset-UHF is a body-pack system designed for users in physically active applications, who desire the freedom of hand-free microphone.

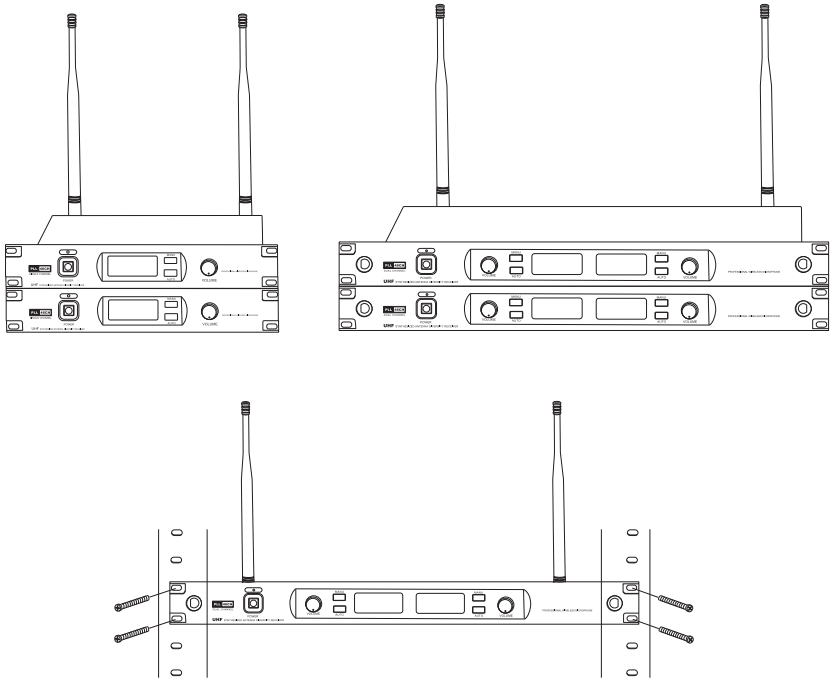
The Guitarist-UHF is a body-pack system designed for use with electric guitars, basses, and other electric instruments.

INTRODUCTION

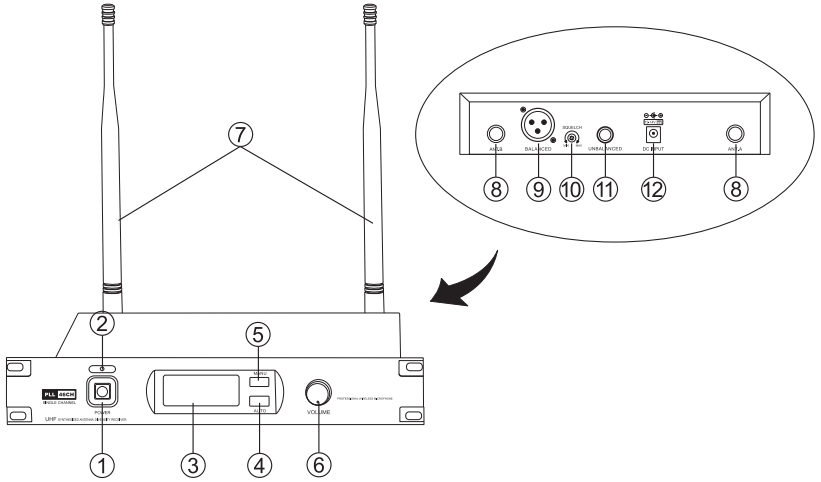


Hand-held transmitter(compose the handheld microphone system)
Body-pack transmitter(compose the Lavalier microphone/Guitarist microphone/Headset microphone system)
Single channel antenna diversity receiver.
Dual channel antenna diversity receiver.

STACKING AND RACK-MOUNTING RECEIVERS

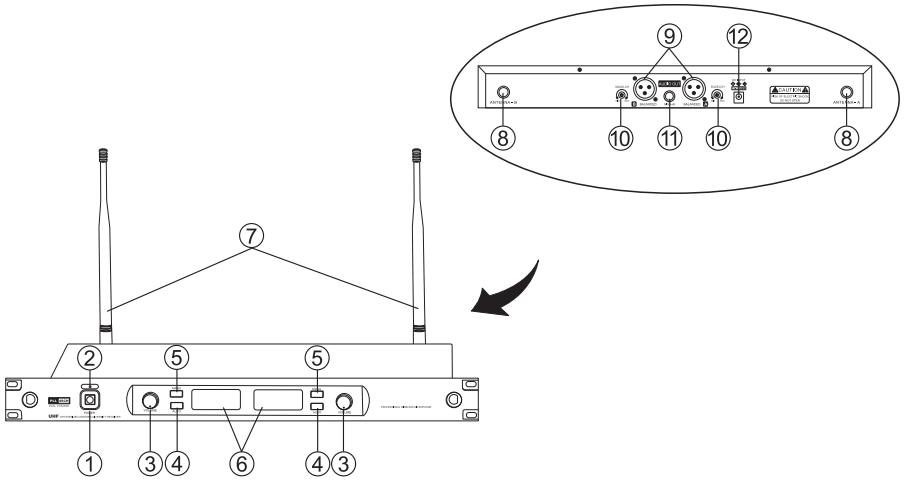


SINGLE CHANNEL RECEIVER FEATURES



1. **Power Button:** Turns the receiver ON/OFF.
2. **Power On Indicator:** This light glows when the receiver is plugged into and electrical outlet and switch is pushed, it indicates that the receiver is on.
3. **LCD Information Display:** show system frequency/RF signal strengh/AF audio level strengh ect..
4. **Down Function Button:** Sets channel data.
5. **Up Function Button:** Sets channel data.
6. **Volume Control:** Rotate the knob to increase or decrease the volume of the receiver output.
7. **Antennas:** Supply the RF for receiver.
8. **Antenna Input Connectors:** Using supplied telescopic antenna or other antenna system.
9. **XLR Output Connector:** Plug and XLR audio cable from this connector to the input to your mixer.
10. **Squelch Control:** Adjust squelch control setting to emphasize either signal quality or system range.This control is factory pre-set, and normally does not need further adjustment. Refer to Receiver Squelch adjustment section for more information.
11. **1/4" Phone Jack Audio Output Connector(Unbalanced high Z):** An unbalanced audio cable with 1/4" phone plug(such as standard guitar cable) can be used between this connector and your amplifier input.
12. **Power Input Connector:** Connect the AC adapter to this jack and then plug into an AC electrical outlet. (Please use supplied AC adapter)

DUAL CHANNEL RECEIVER FEATURES



1. **Power Button:** Turns the receiver ON/OFF.
2. **Power On Indicator:** This light glows when the receiver is plugged into and electrical outlet and switch is pushed, it indicates that the receiver is on.
3. **Channel A.B Volume Control:** Rotate the knob to increase or decrease the volume of the receiver output.
4. **Channel A.B Down Function Button:** Sets channel data.
5. **Channel A.B Up Function Button:** Sets channel data.
6. **Channel A.B LCD Information Display:** show system frequency/RF signal strengh/ AF audio level strengh ect..
7. **Antennas:** Supply the RF for receiver.
8. **Antenna Input Connectors:** Using supplied telescopic antenna or other antenna system.
9. **XLR Output Connector:** Plug and XLR audio cable from this connector to the input to your mixer.
10. **Squelch Control:** Adjust squelch control setting to emphasize either signal quality or system range.This control is factory pre-set, and normally does not need further adjustment. Refer to Receiver Squelch adjustment section for more information.
11. **1/4" Phone Jack Audio Output Connector(Unbalanced high Z):** An unbalanced audio cable with 1/4" phone plug(such as standard guitar cable) can be used between this connector and your amplifier input.
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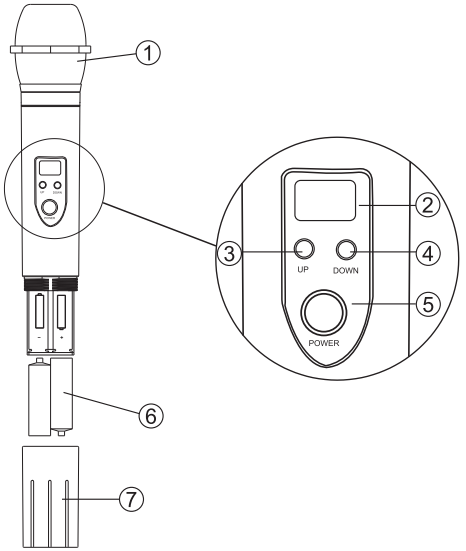
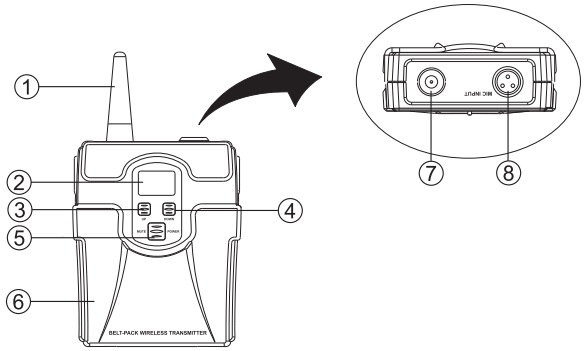
TRANSMITTER FUNCTION & FEATURES



1. **Grill:** Protects the microphone cartridge and helps reduce wind noise.
2. **LCD Information Display:** Show the transmitter power/frequency channel ect.
3. **Up Function Button:** Sets channel data.
4. **Down Function Button:** Sets channel data.
5. **Power / Mute Button:** Power ON/OFF transmitter.
6. **Battery:** 2 X AA(1.5V) alkaline batteries, or NI-MH rechargeable battery.
7. **Battery Cover:** Rotate clockwise to close and anti-clockwise to open.
8. Select the special charger to recharge.

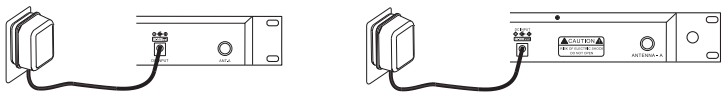
TRANSMITTER FUNCTION & FEATURES



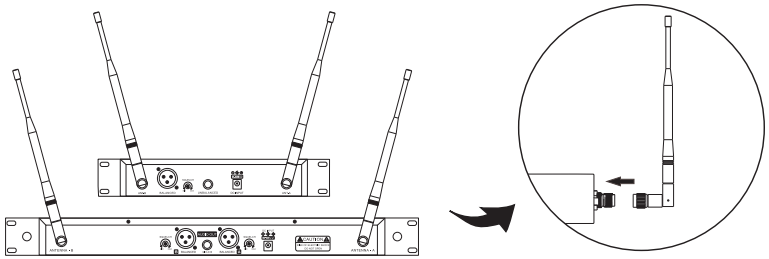
1. **Antenna.**
2. **LCD Information Display:** Show the transmitter power/frequency channel ect.
3. **Up Function Button:** Sets channel data.
4. **Down Function Button:** Sets channel data.
5. **Power / Mute Button:** Power ON/OFF transmitter.
6. **Battery Cover:** Open the cover and set 2XAA(1.5V) Alkaline batteries, or NI-MH rechargeable batteries.
7. **Antenna Connector.**
8. **Input Connector:** It is TA4 PINS connector; It is suitable for the lavalier microphone system/ Headset microphone systems/ Guitarist microphone system.

SYSTEM CONNECTIONS

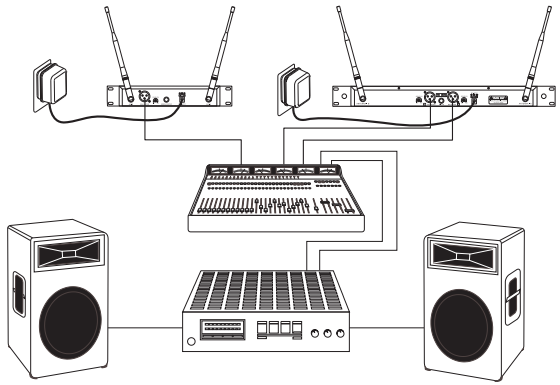
1. Receiver Power Connection: Connect the AC adapter into the DC power connector on the back of the receiver. Plug the AC adapter into a AC 120V/220 50Hz outlet.



2. Antenna Connection: Attach the two antenna to the ANTENNA connectors.

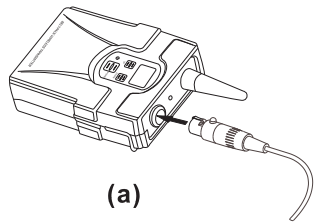


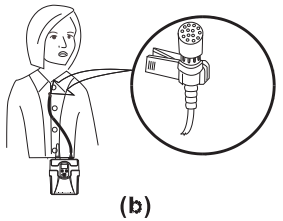
3. Audio Connection: Connect the audio cable from the audio output on the receiver to the input on your amplifier equipment.



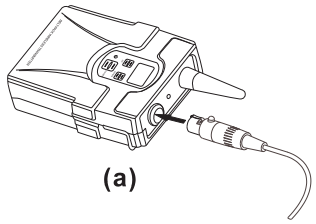
TRANSMITTER CONNECTIONS

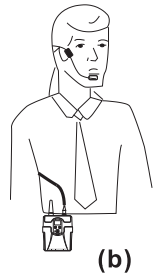
1. Lavalier microphone connection.



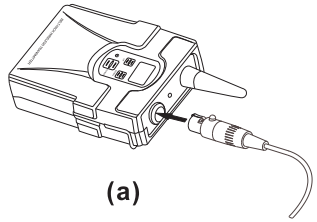


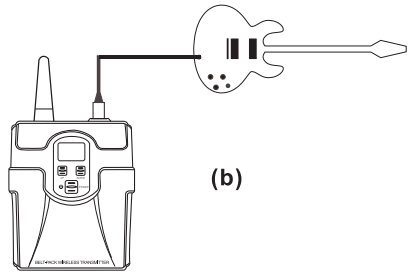
2. Headset microphone connection.



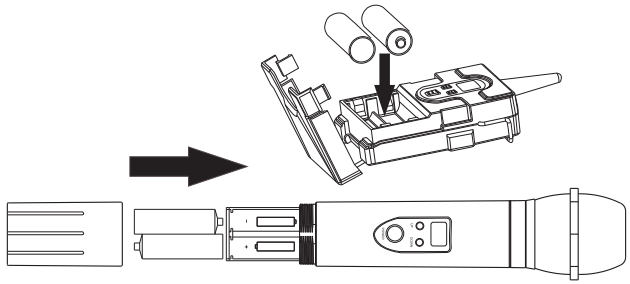


3. Guitarist microphone connection.



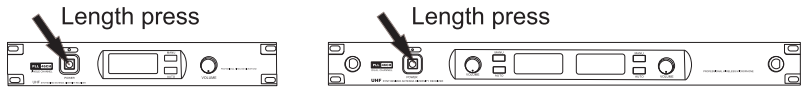


4. Transmitter Battery Installation: Open the battery cover and insert two AA (1.5V) Alkaline batteries. (Att. the battery polarity)



RECEIVER OPERATION INSTRUCTION (CHANNEL DATA SETTING)

1. Turn on the receiver.



2. Channel Set Up: Press Up and Down button to select the channel data.

2.1 Length press "MANU" to enter channel setting mode, the figure is flashing, during three seconds after operation is finished. the system will lock and save the message and then exit.

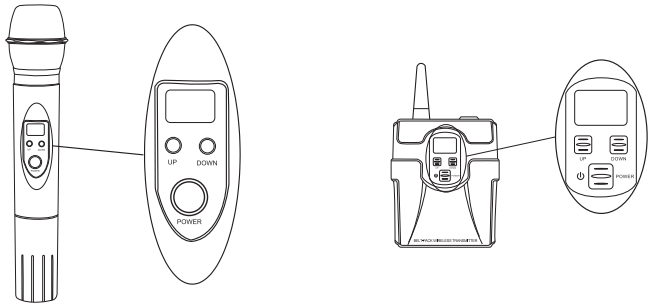
2.2 Length press "AUTO" to enter Automatic searching mode, when the usable channel is found, it will be lock and save, and then exit.

Att: When use the "AUTO" mode, the transmitter must be turned on.

NOTE: Overpass the channel setting, the receiver's data is finished, Data will be retained until the receiver is reset.

OPERATION INSTRUCTION

Turn on the transmitter.



1. Length press the power button to turn ON/OFF the transmitter, short press the "POWER" twice, it is turn ON/OFF the MUTE status.

2. Length press "up" to enter frequency setting, the figure is flashing, short press "DOWN", setting channel to make consistent with the receiver after three seconds it will be exit automatic. Length press "DOWN", it will show the exchange of frequency and channel.

3.Backlight will light when there are some action for the button, the light will crush out when the operation is finished.

SPECIFICATIONS

NOTE: For a list of compatible frequencies that are usable in your area, refer to the supplied frequency supplement.

RF Carrier Frequency Range

460.00MHz to 970.00 MHz (Available frequencies depend on the applicable regulations in the country where the system is used).

Effective Range

100m(300ft.) Under optimal conditions

NOTE: Actual working range depends on RF signal absorption, reflection, and interference from objects and environment.

Audio Frequency Response

Typically 50Hz to 15,000Hz, ±2 dB

NOTE: System response is depand on the using accessory of microphone

Body-Pack Transmitter Output

Actual Impedance:	50 Ω
Nominal Output Level:	10 mW

Hand-Held Transmitter Input

Input Configuration:	Unbalanced, active
Actual Impedance:	600 kΩ (GT)

Hand-Held Transmitter Output

Actual Impedance:	50 Ω
Nominal Output Level:	10 mW

Receiver Input

Connector:	Antenna	Power Input
Connector Type:	TNC	
Actual Impedance:	50 Ω	
Nominal Input Level:	-95 to -30 dBm	14 V DC
Maximum Input Level:	+6 dBm (-20 dBm recommended)	18 V DC
Voltage for Remote Power:	9 V DC, 100 mA maximum	

Receiver Output

Connector:	High Z Audio	Low Z Audio*
Output Configuration:	Unbalanced(1/4 in.)	Balanced(XLR)
Actual Impedance:	3kΩ	600Ω

* Output Level: Microphone Level=Line Level-20dB

Receiver Audio Output Level (25 KHz deviation, 400Hz tone)

XLR connector (into 600 ohm load): 24mV

1/4 inch connector (into 3000 ohm load): 360mV

Impedance: Body Pack (input): 500kΩ(GT)
Receiver : 50 ohms antenna level; 3000 ohm at mic level

Modulation: FM; ±25KHz

RF Power Output: 10 mW

Dynamic Range: >100 dB

RF Sensitivity: -105dBm (S/N -12dB)

Image Rejection: 80 dB typical

Spurious Rejection: 60 dB typical

Ultimate Quieting(reference 25KHz deviation): -105dBm

System Distortion: <1% total harmonic distortion, typical

Power Requirements: Transmitters: 2 x AA 1.5V Alkaline batteries
Single Channel Receiver:12-18V DC(negative ground),500mA
Dual Channels Receiver:12-18V DC(negative ground),800mA

Battery Life: Approximately 9 hours (varies with battery type)

Operating Temperature Range: -20 to 49°C (-4 to 120°F)
NOTE: Battery characteristics may limit this range.

Overall Dimensions:
Body-Pack: 83mm x 67mm x 25mm
Microphone: 245mm x 50mmx 50mm
Receiver: 271mm x177mm x 43mm
483mm x 213mm x 43mm