

Thanks for purchasing this product, please read this instruction carefully so that you 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 consumption 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. Every 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, 16 selectable UHF channel.
2. The UHF frequency range is 460-970MHz, avoiding the frequency interruption.
3. LED information display.
4. Fully computerized numerical 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

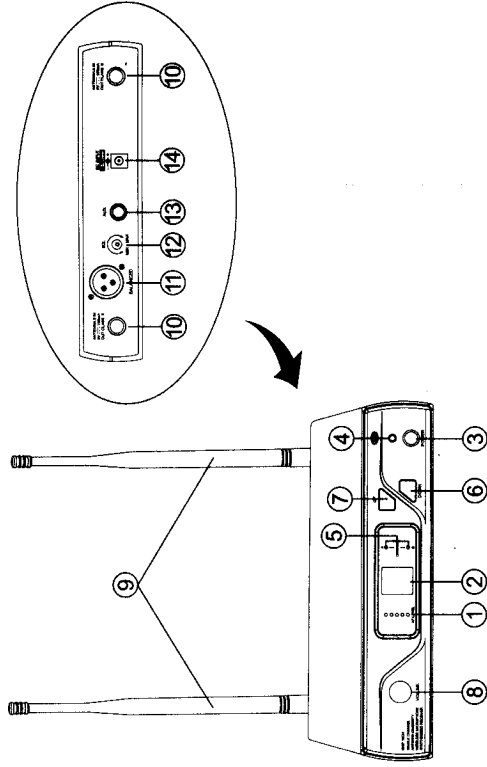
**The Vocal Artist-UHF** is a hand-held system designed for singers who desire the high quality microphones and the freedom of wireless performance.

**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.

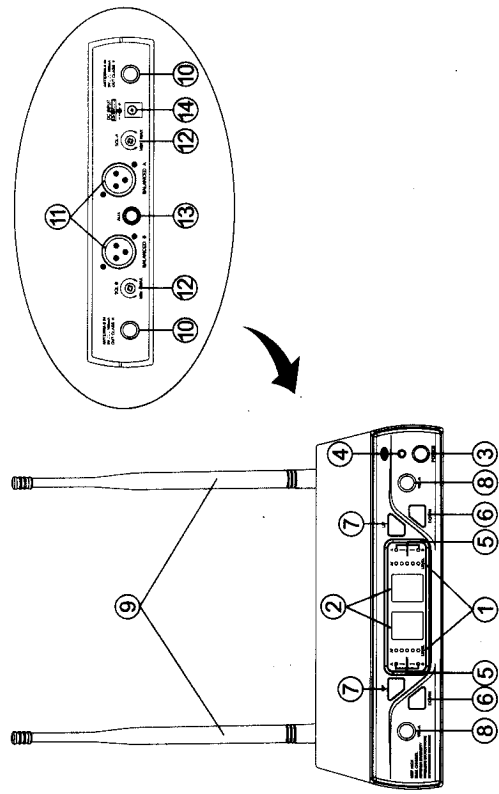
**The Guitarist-UHF** is a body-pack system designed for use with electric guitars, basses, and other electric instruments.

## SINGLE CHANNEL RECEIVER FEATURES



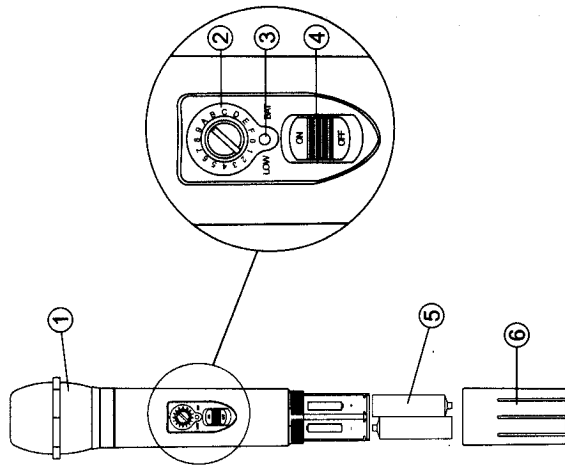
1. **AF Level Indicators:** Indicates audio signal strength. Green indicates normal operation. Red indicates overload or excessive audio level.
2. **Channel Display:** Indicates the frequency data of the selected channel group.(1-16CH)
3. **Power Button:** Turns the receiver ON/OFF.
4. **Power On Indicator:** This light glows when the receiver is plugged into and electrical outlet and switch is pushed, it indicates that the receiver is on.
5. **Diversity Signal Indicators:** The lights of diversity A/B glows when RF (radio frequency) signals are received from the transmitter, When A light is glowing, the channel A is being used, when B light is glowing, the channel B is being used.
6. **Down Function Button:** Sets channel data.
7. **Up Function Button:** Sets channel data.
8. **Volume Control:** Rotate the knob to increase or decrease the volume of the receiver output.
9. **Antennas:** Supply the RF for receiver.
10. **Antenna Input Connectors:** Using supplied telescopic antenna or other antenna system.
11. **XLR Output Connector:** Plug and XLR audio cable from this connector to the input to your mixer.
12. **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.
13. **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.
14. **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



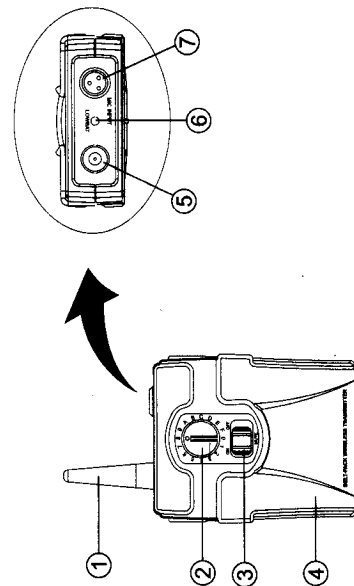
1. **Channel A,B AF Level Indicators:** Indicates audio signal strength. Green indicates normal operation. Red indicates overload or excessive audio level.
2. **Channel A,B Channel Display:** Indicates the frequency data of the selected channel group. (1-16CH)
3. **Power Button:** Turns the receiver ON/OFF.
4. **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.
5. **Diversity Signal Indicators.**
6. **Channel A,B Down Function Button:** Sets channel data.
7. **Channel A,B Up Function Button:** Sets channel data.
8. **Channel A,B Volume Control:** Rotate the knob to increase or decrease the volume of the receiver output.
9. **Antennas:** Supply the RF for receiver.
10. **Antenna Input Connectors:** Using supplied telescopic antenna or other antenna system.
11. **XLR Output Connector:** Plug and XLR audio cable from this connector to the input to your mixer.
12. **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.
13. **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.
14. **Power Input Connector:** Connect the AC adapter to this jack and then plug into an AC electrical outlet. (Please use supplied AC adapter)

## TRANSMITTER FUNCTION & FEATURES



1. **Grill:** Protects the microphone cartridge and helps reduce wind noise.
2. **Channel Selecting Knob:** Channel Selecting Knob value must be matched with the receiver indicator value.
3. **Battery Indicator:** Green light indicates the battery is normal. Red light indicate the battery should be recharge or renewed.
4. **Power Switch:** Power ON/OFF transmitter.
5. **Battery:** 2 X AA(1.5V) alkaline batteries, or Ni-MH rechargeable batteries.
6. **Battery Cover:** Rotate clockwise to close and anti-clockwise to open.
7. Select the special charger to recharge.

## TRANSMITTER FUNCTION & FEATURES



### 1. Antenna;

2. **Channel Selecting Knob:** Channel Selecting Knob value must be matched with the receiver indicator value.

3. **Power / Mute Switch:** Power ON/OFF transmitter.

4. **Battery Cover:** Rotate clockwise to close and anti-clockwise to open then put into 2 X AA (1.5V) alkaline batteries or NI-MH rechargeable batteries.

5. **Antenna Connector;**

6. **Battery Indicator:** It will be shined when turn on/off. Red light indicate the battery should be recharge or renewed.

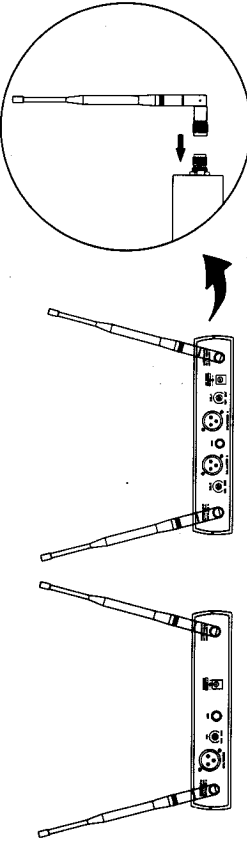
7. **Input Connector:** It is TA4 PINS connector; It is suitable for the lavalier microphones system/ Headset microphone system Guitarist microphone system.

### SYSTEM CONNECTIONS

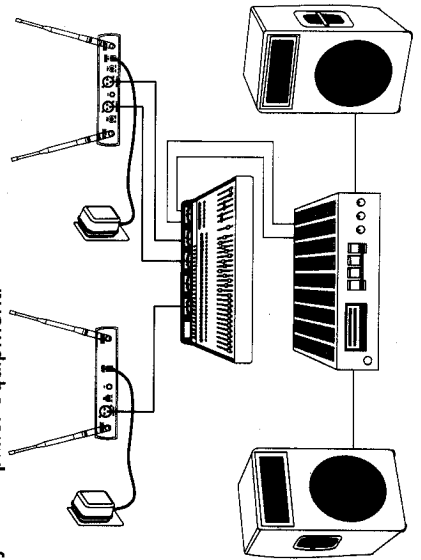
1. **Receiver Power Connection:** Connect the AC adapter into the DC power connector on the back of the receiver. Plug the AC adapter into a AC120V/220V 50Hz outlet.



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

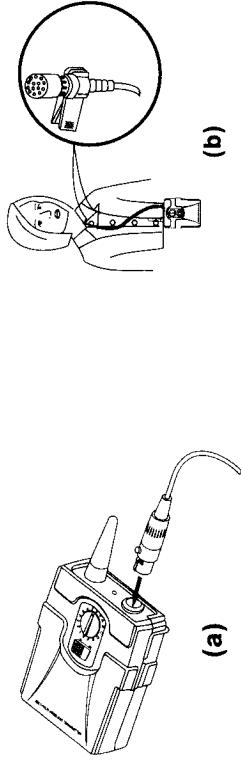


3. **Audio Connection:** Connect the audio cable from the audio output on the receiver to the input on your amplifier equipment.

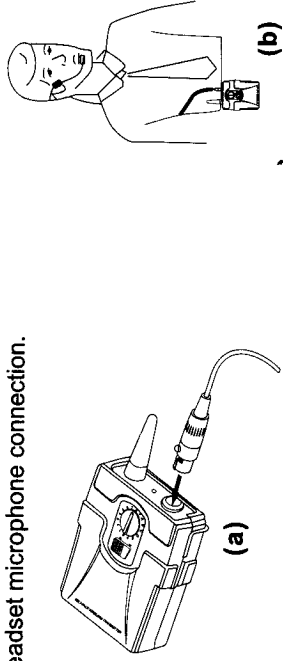


### TRANSMITTER CONNECTIONS

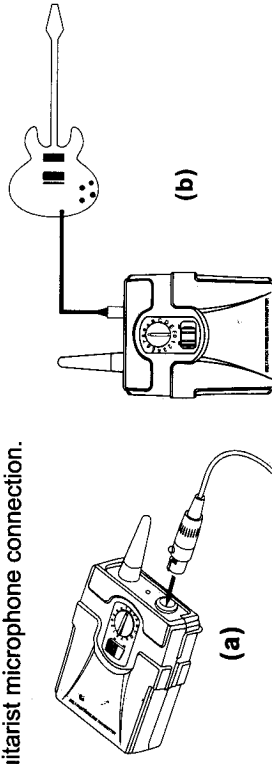
1. Lavalier microphone connection.



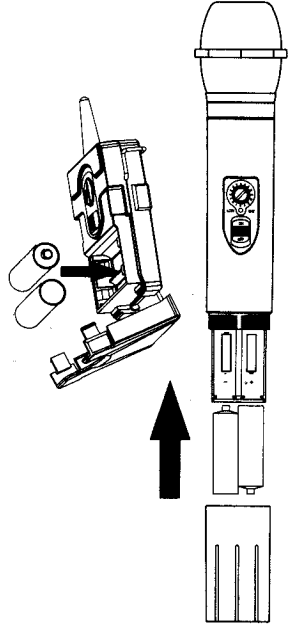
2. Headset microphone connection.



3. Guitarist microphone connection.

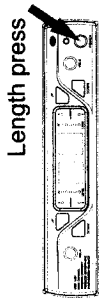
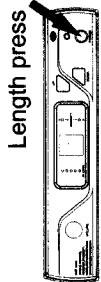


4. **Transmitter Battery Installation:** Open the battery polarity and insert two AA (1.5V) Alkaline batteries. (Att. the battery polarity)

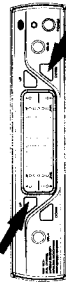


## RECEIVER OPERATION INSTRUCTION (CHANNEL DATA SETTING)

1. Turn on the receiver.



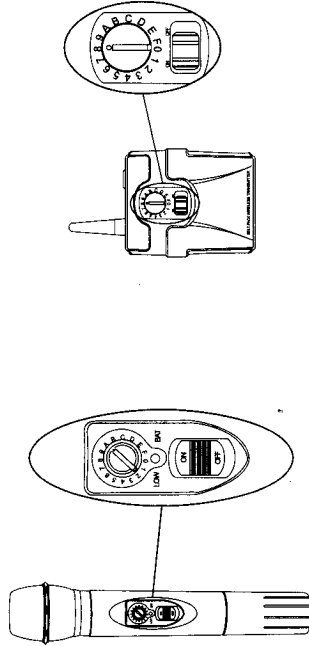
2. Channel Set Up: Length press Up and Down button to enter the channel setting mode, the display will flash, then press again to select the channel data.



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. Rotate the channel selecting knob to matched with the receiver indicator value.
2. Push the power switch to ON position.
3. If using the channel selecting knob to adjust the channel when the receiver is ON, please turn off the transmitter power and then turn on again after adjusting.

## 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,  $\pm 3$  dB

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

### Body-Pack Transmitter Output

Actual Impedance:	50 $\Omega$
Nominal Output Level:	10 mW

### Hand-Held Transmitter Input

Input Configuration:	Unbalanced, active
Actual Impedance:	500 k $\Omega$ (GT)

### Hand-Held Transmitter Output

Actual Impedance:	50 $\Omega$
Nominal Output Level:	10 mW

### Receiver Input

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

## Receiver Output

Connector:	High Z Audio	Low Z Audio*
Output Configuration:	Unbalanced(1/4 in.)	Balanced(XLR)
Actual Impedance:	3k $\Omega$	600 $\Omega$

\* 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): 500 k $\Omega$  (GT)

Receiver : 50 ohms antenna level; 3000 ohm at mic level

**Modulation:** FM;  $\pm$ 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 $^{\circ}$ C (-4 to 120 $^{\circ}$ F)

NOTE: Battery characteristics may limit this range.

**Overall Dimensions:**

Body-Pack: 83mm x 67mm x 25mm

Microphone: 245mm x 50mm x 50mm

Receiver: 213mm x150mm x 43mm

213mm x150mm x 43mm