

FCC Caution.

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.

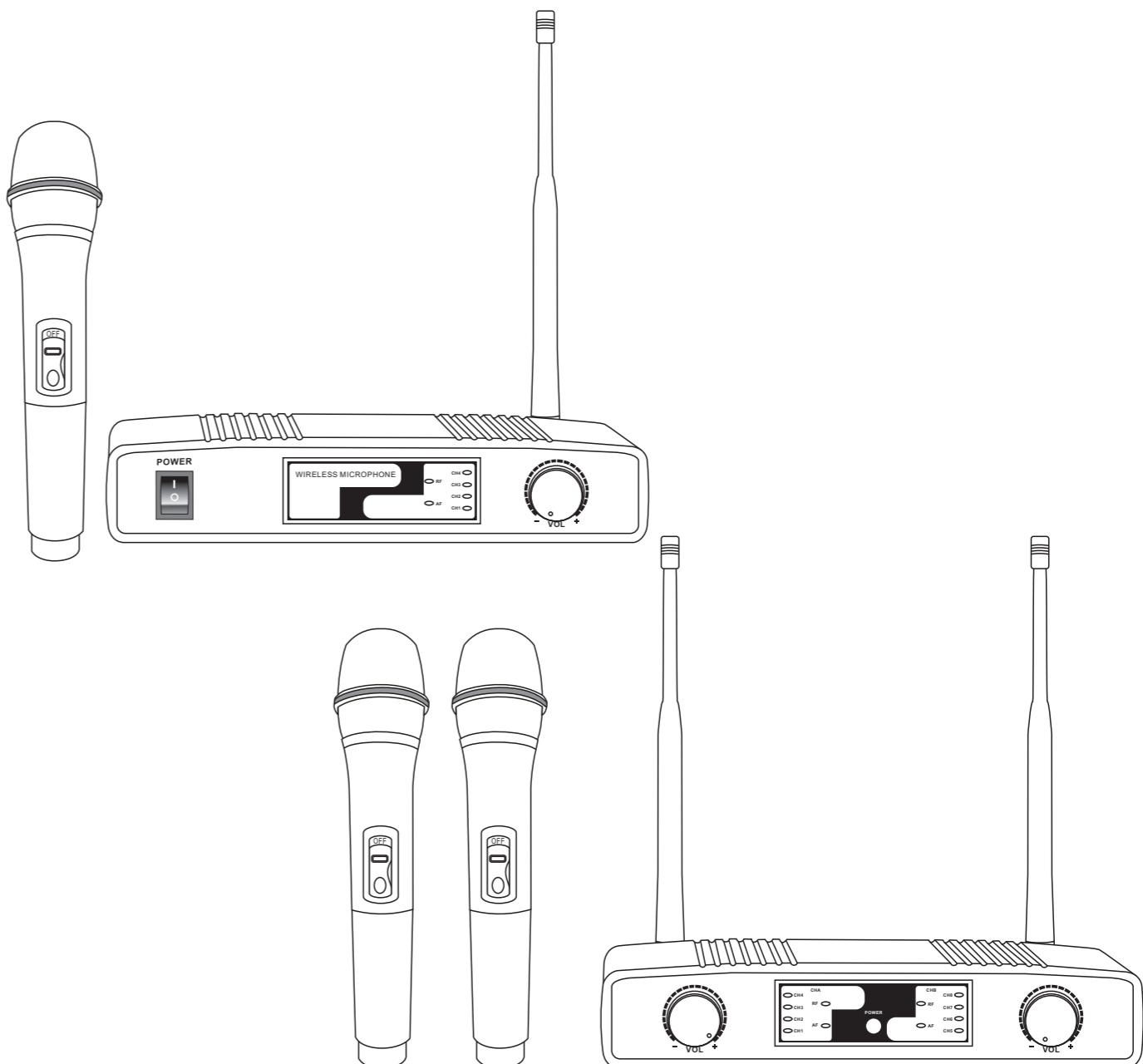
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

\* RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



## WIRELESS MICROPHONE SYSTEM USER GUIDE

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## INTRODUCTION

Thank you for purchasing the Wireless Microphone System and congratulations on your choice. The model is loaded with top professional operating features and is the best price value available in UHF wireless systems.

This Wireless System contains the following components:

- 4 frequencies selectable each channel wireless receiver
- 8 frequencies selectable transmitter
- Adapter
- Audio cable

## DESCRIPTION

### Wireless Receiver

- ① Volume Control
- ② Channel Indicator
- ③ RF LED-Indicates strength of incoming RF signal
- ④ Audio LED-Indicates strength of incoming audio signal
- ⑤ Power/ON/OFF switch

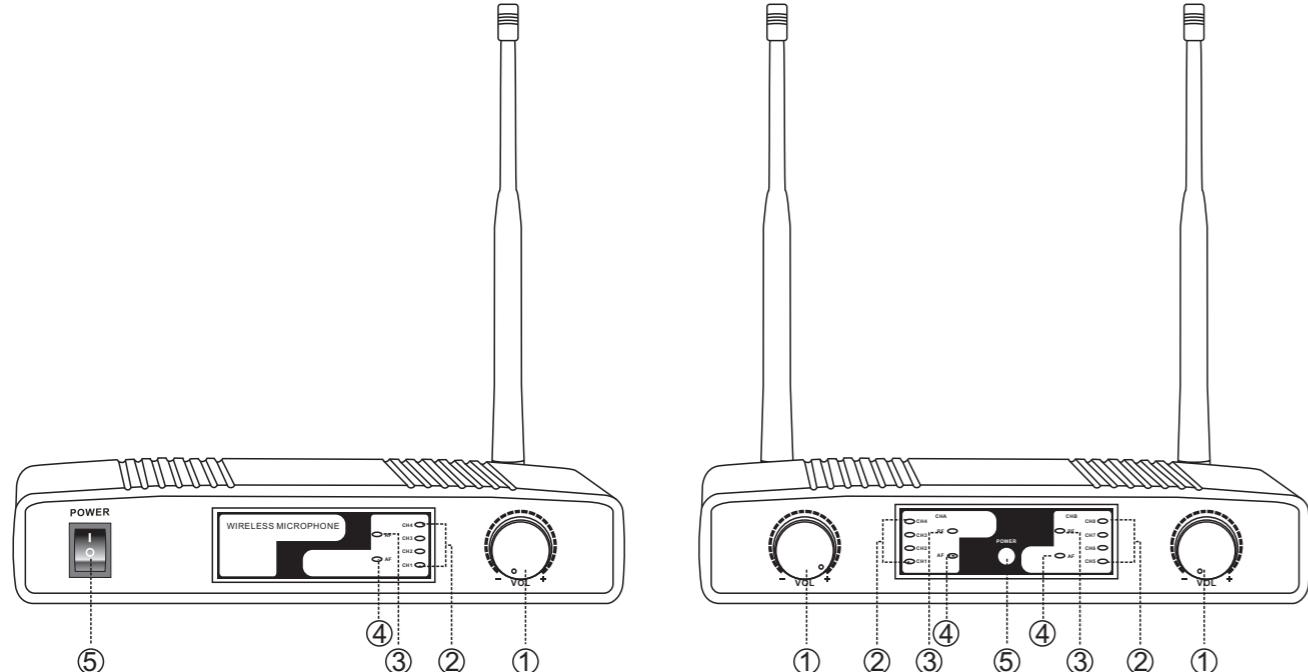


FIGURE 1

## PAGE

## REAR (FIGURE 2)

- ⑥ Antennas-to receive signals from the transmitter
- ⑦ Balance-Output
- ⑧ Frequency Channel Selecting Switch
- ⑨ Unbalanced Audio and Mixed Output
- ⑩ Power-DC Input

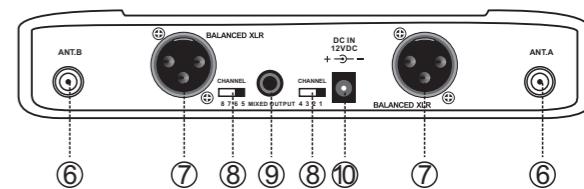
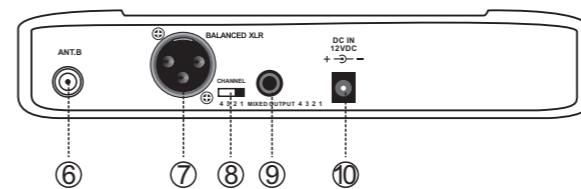


FIGURE 2

### Handheld Microphone Transmitter (FIGURE 3)

- ① Change to Head
- ② Power ON/OFF and MUTE ON/OFF Switch. When this red light is glowing, you have 20 minutes or less of useful operating time; change the battery.
- ③ 2 AA Alkaline Battery. Provides power to the microphone transmitter. Typical battery life is 8 hours.
- ④ Battery Cover. Take off the battery cover for two 1.5V alkaline batteries.
- ⑤ Channel Selector

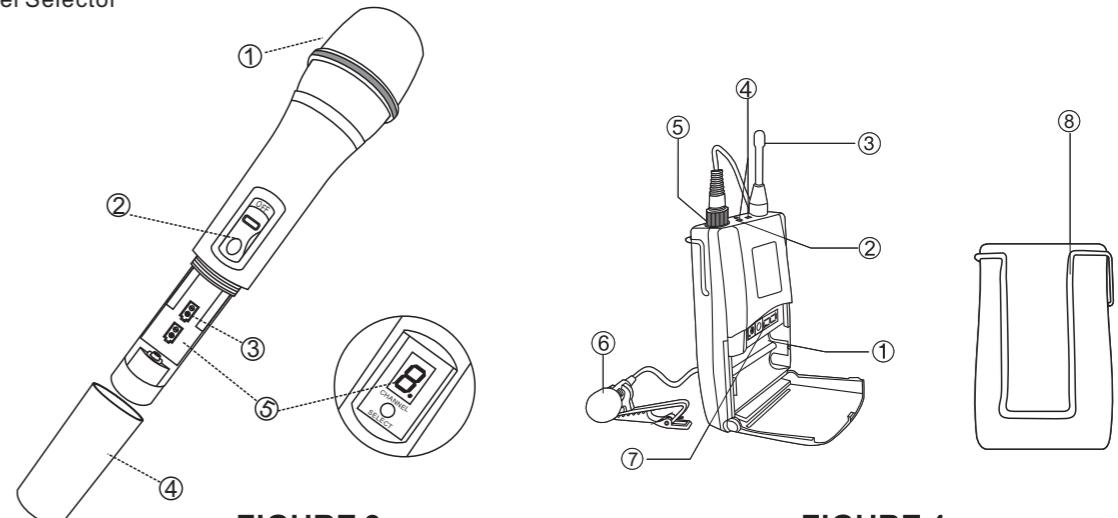


FIGURE 3

FIGURE 4

### Body-Pack Transmitter (FIGURE 4)

- 1. Battery Compartment.
- 2. Power and Low Battery Indicator. When this red light is glowing, you have 20 minutes or less of useful operating time; change the battery.
- 3. Antenna
- 4. Power and Mic MUTE ON/OFF Switch.
- 5. Microphone Input Connector. Connector provides connection to a variety of lavalier and headset microphone cables.
- 6. Lavalier Microphone. Condenser lavalier microphone supplied with a mount that clips onto a tie, lapel, or acoustic instrument.
- 7. Channel Selector.
- 8. Belt Clip.

## USING THE WIRELESS RECEIVER

### Connecting the Wireless Receiver (FIGURE 5)

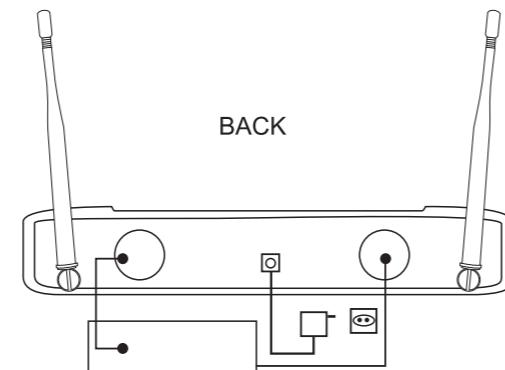
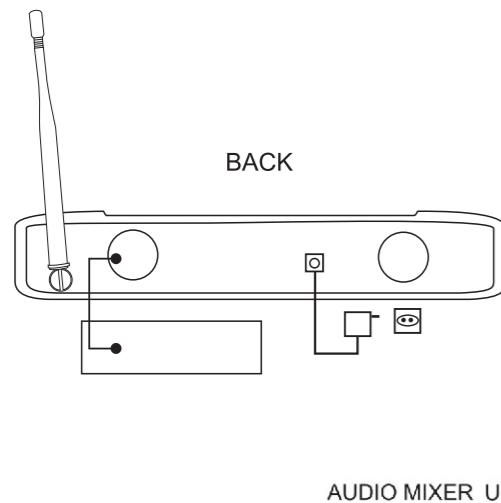


FIGURE 5

1. antenna for Channel A/B
2. balanced output XLR connector
3. unbalanced output Ø6.3 plug connector
4. DC 12 power input connector

## USING THE HANDHELD MICROPHONE

### TRANSMITTERS

#### Operating the Hand Microphone Transmitters (FIGURE 6)

1. Press the Power ON/OFF switch on the receiver to the ON position.
2. Slide the transmitter POWER ON/OFF switch to the ON position. Check the battery level. If the LOW BATTERY indicator is lit, Change the batteries. (see Transmitter Battery Installation below.)
3. Select the transmitter to the right frequency
4. Check the RF indicator on the receiver to see if the radio signal is being received.
5. If the RF light is lit, begin speaking or singing.
6. When the performance or presentation is over, slide the transmitter Power ON/OFF switch to OFF position, to conserve battery power.

#### Transmitter Battery Installation (FIGURE 7)

1. Slide the transmitter Power ON/OFF switch to the OFF position.
2. Take off the transmitter battery cover to expose the battery terminals.

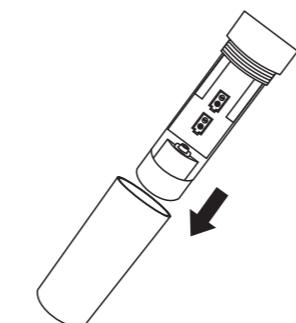
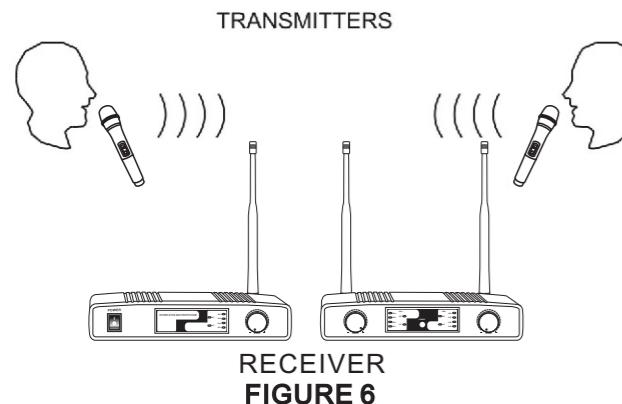


FIGURE 7

3. Insert two 1.5VAA alkaline batteries into the battery compartment. Two fresh 1.5V alkaline batteries should typically provide 8 hours of performance time. Two fully charged 1.2V Nicad batteries (1800 mA) should provide 12 hours of performance time. When the LOW BATTERY light on the transmitter turns on, you have 20 minutes of less of useful battery life remaining. Change the battery at your first opportunity.

**IMPORTANT:** Carbon-zinc and zinc-chloride will not provide adequate power and are not recommended.

4. Slide the battery cover back onto the mic body.

## USING THE BODY-PACK TRANSMITTERS

### Operating Body-Pack Transmitters

**NOTE:** The body-pack system is designed for use with other equipment, such as lavalier microphones, guitars, headset microphones, etc. Contact your dealer for details on ordering the proper equipment for your needs.

1. Clip the body pack transmitter to your belt or guitar strap.
2. Connect the lavalier microphone, headset or instrument adapter cable to the body-pack transmitter.
3. Select the transmitter to the right frequency
4. Turn the transmitter POWER switch ON and MUTE switch OFF.
5. Check the RF Signal Indicator on the receiver to see if the RF signal is being received.
6. Begin speaking or playing your instrument.
7. During the performance or presentation, slide the MUTE ON/OFF switch to the ON position when the system is not being used.
8. When the performance or presentation is over, slide the transmitter MUTE ON/OFF switch to ON position and Power ON/OFF switch to the OFF position to conserve battery power.

#### Transmitter Battery Installation (FIGURE 8)

1. Slide the transmitter Power ON/OFF switch to the OFF position.
2. Pull up on the OPEN side of the battery compartment cover, flip it open, as shown in FIGURE 8.
3. Insert fresh 1.5VAA alkaline batteries into the battery compartment as shown in Figure 8. Two 1.5VAA batteries should provide 8 hours of performance time. When the red LOW BATTERY light on the transmitter glows, you have 20 minutes or less of useful battery life remaining; change the battery at your first opportunity.

**IMPORTANT:** Carbon-zinc and zinc-chloride batteries will not provide adequate power and are not recommended.

4. Slide the battery cover back onto the body-pack transmitter.

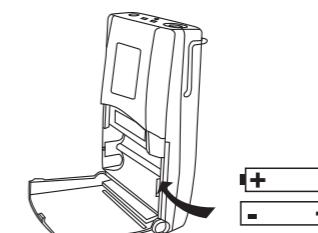


FIGURE 8

## TIPS AND TROUBLESHOOTING

### Tips for getting the best performance

- Maintain a line-of-sight between the transmitter and receiver antennas.
- Keep the receiver and antennas away from large metal objects.
- Avoid placing the receiver near computers or other RF generating equipment.
- Point the receiver antennas straight up.
- Avoid placing the receiver in the bottom of an equipment rack unless the antennas are remotely located.

### Troubleshooting

Some common problems and their solutions are identified in the table below. If you are unable to solve a problem, please contact your dealer for solutions.

| PROBLEM  | SOLUTIONS   |
|--|---|
| No sound, and RF light(s) not glowing.   | <ul style="list-style-type: none"> <li>• Make sure the transmitter POWER switch is ON and the receiver is plugged into a power source.</li> <li>• Check batteries and see if they need to be changed.</li> <li>• Check receiver squelch setting and see if it needs to be adjusted.</li> <li>• Check antennas and make sure they are in line-of-sight with the transmitter.</li> </ul>  |
| No sound, and RF light(s) glowing.   | <ul style="list-style-type: none"> <li>• Increase the volume by turning the VOLUME knob of the receiver clockwise.</li> <li>• Check for proper connection between receiver and audio mixer unit.</li> </ul>   |
| Transmitter is on, and signal received is noisy or containing extraneous sounds. | <ul style="list-style-type: none"> <li>• Check batteries and see if they need to be changed.</li> <li>• Remove local sources of RF interference.</li> <li>• Check connections if using an instrument.</li> <li>• Check transmitter frequencies to avoid that two transmitting frequencies are the same.</li> <li>• Signal may be too weak. Reposition the antennas. If possible, move them closer to the transmitters.</li> </ul> |
| Transmitter is off, and signal received is noisy.                                | <ul style="list-style-type: none"> <li>• Check receiver squelch setting and see if it needs to be adjusted.</li> <li>• Remove local sources of RF interference.</li> <li>• Reposition receiver or antennas.</li> </ul>  |
| Momentary loss of sound as transmitter is moving around performing area.         | <ul style="list-style-type: none"> <li>• Reposition receiver and perform another "walkthrough" test and observe the RF indicators. If audio dropouts persist, mark these "dead spots" in performing area and avoid them during performance.</li> </ul>  |

## SPECIFICATIONS AND INFORMATION

### Overall System

**Carrier Frequency range** 902.6 to 925.3 MHz

**Stability**  $\pm 0.005\%$ (at 25°C)

**Ambient temperature** -10°C - +50°C

**Max deviation**  $\pm 50\text{KHz}$  with level limiting

**Dynamic Range** 100 dB

**S/N ratio** <-105

**T.H.D.** >0.3%

**Pre/De-Emphasis** 50us

**Squelch** Tone control and noise lock dual squelch

**Frequency response** 50Hz-20KHz

**Operating Range** 60m (approximately 180 feet under typical conditions)

### Receiver

**Reception Mode** Phase Lock Loop Dual Channel receiving

**Sensitivity** >-102dB

**Image rejection** Over 80dB

**Audio output** Unbalanced, Hi Z - 360mV/10K Mixer

**Power requirement** AC 110 - 120V/220 - 240V(50-60)External DC 10V -18(1A)

**Dimensions (DXWxH)** 213x115x42mm

### Transmitter

**Mic** Dynamic microphone

**Antenna** Built - in

**RF output** <10mW

**Spurious emissions** 45dBc

**Battery** Two 1.5V AA battery or 1.2V AA rechargeable battery

**Battery life** 8 Hours

**Dimensions** 51dia X 265mm handheld

**Weight** 260g

**Safety Approvals** FCC.CE

THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.