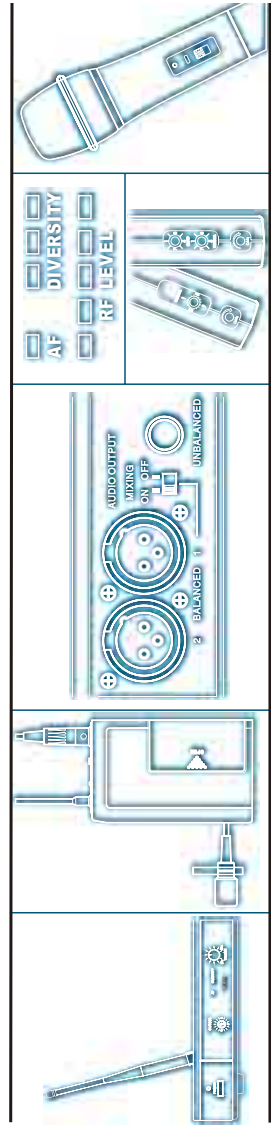


# UHF BAND DIVERSITY

## WIRELESS MICROPHONE SYSTEM



<b>Table of Contents</b>		<b>Page</b>
<b>1</b>	<b>Introduction</b> .....	<b>1</b>
<b>2</b>	<b>Safety</b> .....	<b>1</b>
<b>3</b>	<b>Environment</b> .....	<b>1</b>
<b>4</b>	<b>Description</b> .....	<b>1</b>
<b>5</b>	<b>Setup</b> .....	<b>5</b>
	5.1 Insert batteries.	
	5.2 Charge the batteries.	
	5.3 Connect the headphone or stereo audio output equipment.	
	5.4 Setup channel.	
	5.5 Power up and adjust the volume.	
	5.6 LED indication.	
<b>6</b>	<b>Application</b> .....	<b>7</b>
<b>7</b>	<b>Troubleshooting</b> .....	<b>8</b>
<b>8</b>	<b>Specification</b> .....	<b>9</b>

## INTRODUCTION

**INTRODUCTION**

Thank you for purchasing our product. This is a portable UHF receiver for use with MASCOT 16 or 64 channels selectable transmitter, handheld microphone, or Bodypack transmitter. The rotary switch makes the channel selection more easy and fast. This menu provides you important information of product operation, setup, and application. Please be patient and take few minutes to read through this menu.

**SAFETY**

- Do not spill liquid on the appliance and do not drop it on a hard surface.
- Do not place the appliance close to any heat or high temperature source.
- Keep the appliance away from direct sunlight, extremely dust, moisture, vibration, or shock environment.
- Please take out batteries from receiver, if the receiver is not going to be used for a long time. This will avoid the damage caused by a defective leaking battery.

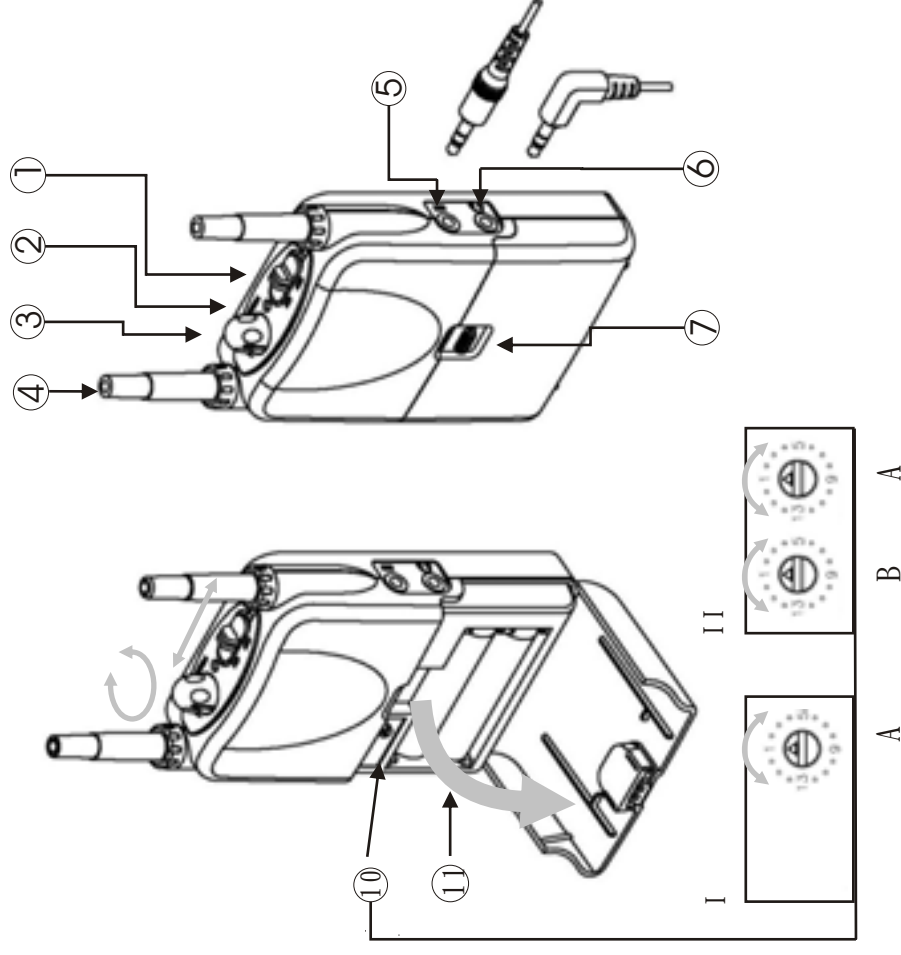
**ENVIRONMENT**

- Do not throw used batteries into fire. Be sure to dispose or recycle the used batteries in accordance with local waste disposal rule.
- When disposing the equipment, please remove the batteries, separate the case, circuit boards, and cables, and dispose the components according to the local waste disposal rules.

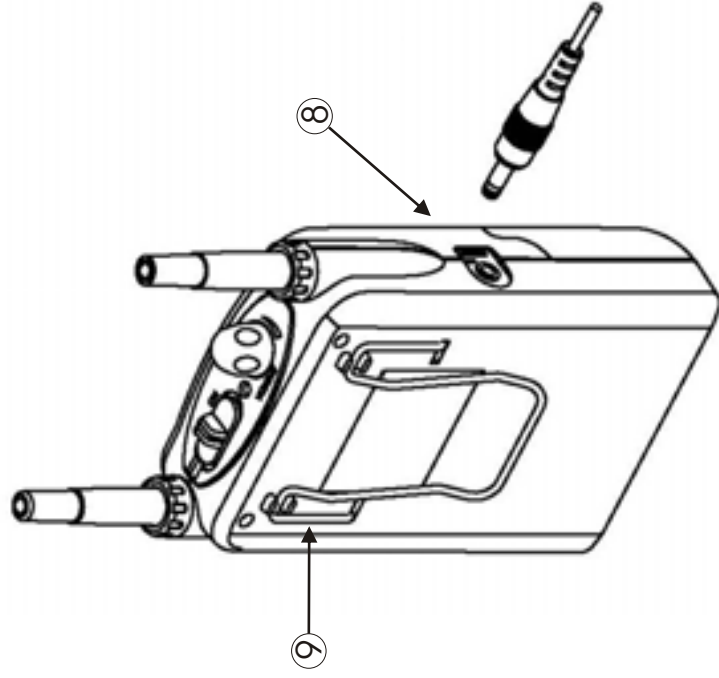
## PRODUCT DESCRIPTION

**DESCRIPTION****UR-5D MINI BODYPACK RECEIVER**

This is a mini Bodypack receiver for use with MASCOT 16 or 64 channels selectable stationary transmitter, handheld microphone, or bodypack transmitter. The receiver operates in UHF band frequency, and the receiver is powered by 2 x DC 1.5V AA size batteries or rechargeable batteries.



## PRODUCT DESCRIPTION



1. Power: slide power to turn on or off receiver.
2. Power LED:
  - I. When the power is turned on, the LED would flash up a red light. Then the red light would fade out.
  - II. The LED would keep the green light on, when the receiver keeps getting signals.
  - III. The LED would keep the red light on, when the power of batteries is run out.
  - IV. The LED would appear a red light flashing on and off, when the batteries are recharging.

3. Volume Control: Turn the rotary control to adjust the volume.
4. 1/4 wave antenna.
5. 3.5  $\Phi$  stereo recording signal output.
6. 3.5  $\Phi$  stereo output for earphone.
7. The battery compartment door switch.
8. Charging Input: The inserted rechargeable batteries can be recharged by using the supplied DC-plug cable connection with charger input on the receiver.
9. Belt Clip: Allows the receiver to be easily worn on a belt, waistband, or guitar strap.
10. group and channel rotary:
  - I. For 16 channels: Turn the A rotary button to the desired channel
  - II. For 64 channels: Turn the A rotary button to the desired group, and turn the B rotary button to the desired channel.
11. Battery Compartment: Insert two AA batteries or rechargeable batteries into the compartment and make sure the polarities of batteries are correct.

## PRODUCT DESCRIPTION

## SYSTEM SETUP

**SETUP**

1. Insert batteries.
  - Push down (7) to open the battery compartment door. Please follow the battery polarity indication to insert the batteries. Then close the compartment door.
2. Charge the batteries.
  - Follow the step 1 to insert rechargeable batteries.
  - Plug in the power supply plug into (8).
  - The rechargeable batteries require 20 hours to get full recharge.
  - After the use of each time, please recharge to let batteries keep full.
3. Connect the headphone or stereo audio output equipment.
  - Connect a stereo headphone by inserting the plug into (6).
  - Connect a stereo audio output equipment by inserting the plug into (5).
4. Setup channel.
 

16 channels model:

  - Turn the channel rotary of receiver and transmitter to the same channel.

64 channels model:




















  - First, turn the group rotary of receiver and transmitter to the same group.
  - Second, turn the channel rotary of receiver and transmitter to the same channel.
5. Power up and adjust the volume.
  - Slide the power switch to “ON” to power up the receiver. Slide the power switch to “OFF” to turn off the receiver.
  - Adjust the volume by turn the volume control clockwise or counterclockwise.

## SYSTEM SETUP

1. LED indication.
  - When the power is turned on, the LED would flash up a red light. Then the red light would fade out.
  - The LED would keep the green light on, when the receiver is getting signal.
  - The LED would keep the red light on, when the power of batteries is run out.
  - The LED would appear a red light flashing on and off, when the batteries are being recharged.

## PRODUCT APPLICATION

## APPLICATION :

 UF-141R x 1	 UR-5D x 1	 Reporter	 Performance Monitoring
 UF-181 x 1	 UR-5D x many	 Speech & Presentation	 Personal Karaoke Wireless Microphone System
 IEM-168 x 1	 UR-5D x many	 Reporter	
 IEM168 x many	 UR-5D x many	 Teaching	 Presentation
	 Middle Area Broadcasting or Commanding	 Instant Translation	
	 Multi Channels Silent Party or Concert	 Multi Channels Music Broadcasting	

## TROUBLESHOOTING

## TROUBLESHOOTING :

PROBLEM	SOLUTION
No Sound	<ul style="list-style-type: none"> <li>● Check the power supply of receiver and transmitter.</li> <li>● Make sure the receiver and transmitter are turned to the same frequency.</li> <li>● Check whether the receiver and transmitter are too far from each other.</li> <li>● Check whether the receiver is located too near a metal object, or there are obstruction between transmitter and receiver.</li> </ul>
Sound interference	<ul style="list-style-type: none"> <li>● If there are more than two transmitters, microphones or bodypack microphones, make sure the frequencies of any of them are set to be different.</li> <li>● Check if there are interference coming from other wireless equipments, such as cell phone, wireless phone, radio, etc..</li> </ul> <p>Turning off the interference source or change another frequency to avoid the interference.</p>
Distortion	<ul style="list-style-type: none"> <li>● Check if the receiver volume level is set too high or too low, adjust the volume to improve the situation.</li> <li>● Check if there are interference coming from other wireless equipments, such as cell phone, wireless phone, radio, etc..</li> </ul> <p>Turning off the interference source or change another frequency to avoid the interference.</p>

## SPECIFICATION

## NOTE

## SPECIFICATION :

Model no.	UR-5D
Frequency Range	UHF 630~930MHz. 16 or 64 CH
Case	Bodypack In Ear Monitor
Oscillator	PLL synthesized
Receiving Mode	Single channel. Diversity
Frequency Stability	±0.005%
Receiving Sensitivity	At 5 dBuV over 80dB S/N ratio
Image & Spurious Rej.	80dB minimum
Selectivity	> 50dB
Modulation Mode	FM
IF Frequency	1st: 56MHz 2nd: 10.7MHz
Dynamic Range	>96dB
S/N Ratio	>94dB, at 15KHz deviation and 60dBuV antenna input
AF Response	Headphone: 100Hz to 10KHz (±3dB) Line: 40Hz to 15KHz (±3dB)
T.H.D.	<1%(at 1KHz)
Power Supply	DC 3V ( 2 x 1.5V AA batteries or rechargeable batteries)
Audio Output	Headphone stereo output: 20mW, Line stereo output level: -10dB
Current Consumption	130mA ± 10mA
Dimension (mm)W x H x D	76 x 106 x 29

Design and specifications are subjects to be changed without notice