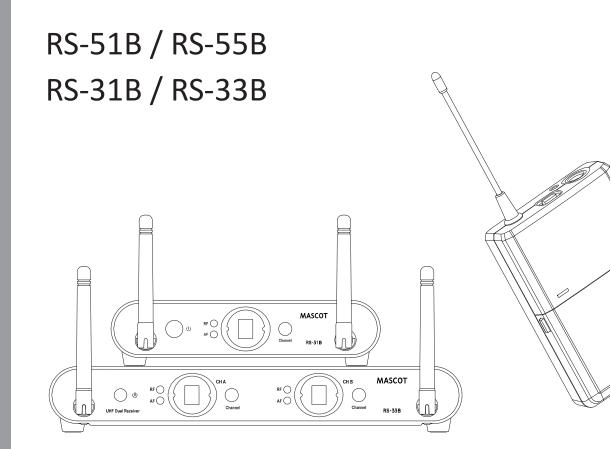
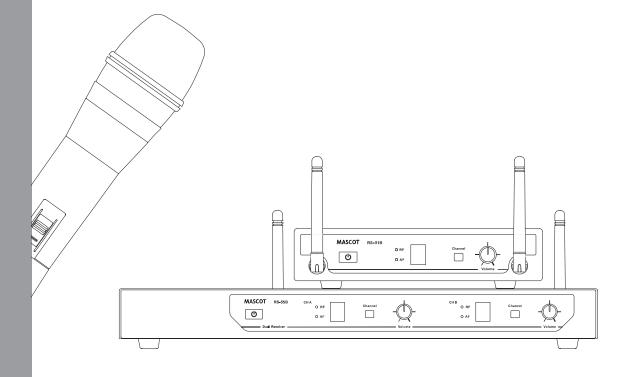


MASCOT

USER'S MANUAL

WIRELESS MICROPHONE SYSTEM





WIRELESS	
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INTRODUCTION WIRELESS

Introduction

Thank you for purchasing our product. This PLL synthesized wireless microphone system operates in UHF band frequency with 8 selectable channels. Please read this instruction manual carefully before operating the system. This manual covers the function and operation of the wireless microphone system.

FCC Statement

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.

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

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

Safety

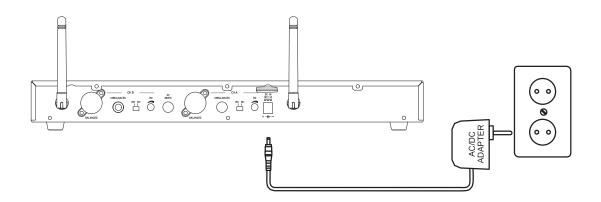
- > Do not spill liquid on the appliance and do not drop it on a hard concrete floor.
- > Do not place the equipment near heat sources such as radiators, heating ducts, amplifier, etc.
- ➤ Do not expose the equipment to direct sunlight, extremely dust, excessive moisture, rain, mechanical vibrations, or shock.
- ➤ Take out the battery from transmitter, if the appliance has been not used for a longer period. This will avoid the damage resulting from a defective leaking battery.
- ➤ If the equipment is not going to be used for a long time, disconnect the AC adapter from the power outlet. Please note that if you turn the equipment off while leaving the AC adapter plugged in, it is not fully isolated from the power supply.
- ➤ WARNING: To reduce the risk of fire or electric shock, do not use the products near water and do not expose them to rain or moisture.
- No guarantee claims for the equipment and no liability for any resulting personal damage or material damage will be accepted if the equipment is used for other purpose than originally intended, if the equipment is not correctly connected or operated, or if the equipment is not repaired in an expert way.

Environment

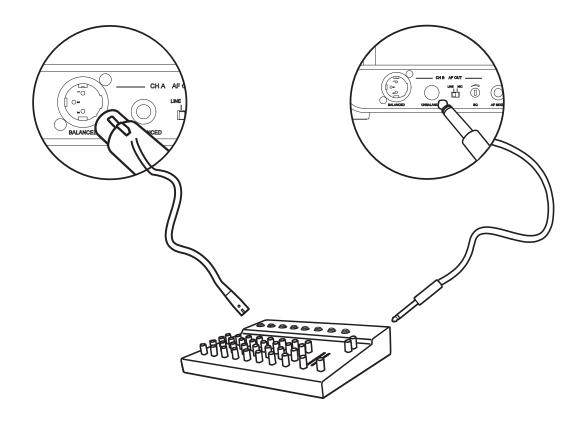
- ➤ Do not throw used batteries into a fire or garbage bin with domestic rubbish. Be sure to dispose of used batteries in accordance with local waste disposal rules.
- ➤ When disposing the equipment, remove the batteries, separate the case, circuit boards, and cables, and dispose of all components in accordance with local waste disposal rules.

Quick Start Guide

1. Connected Receiver Power Cable

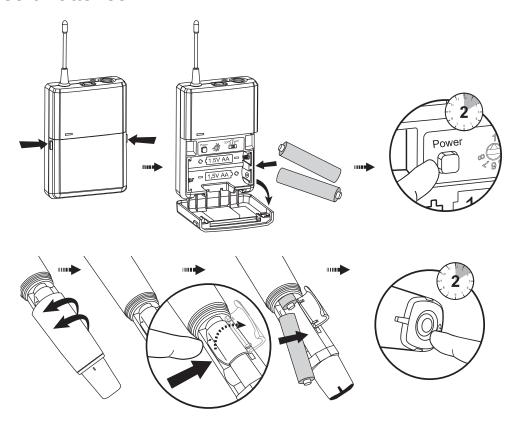


2. Connect Mixer or Amplifier

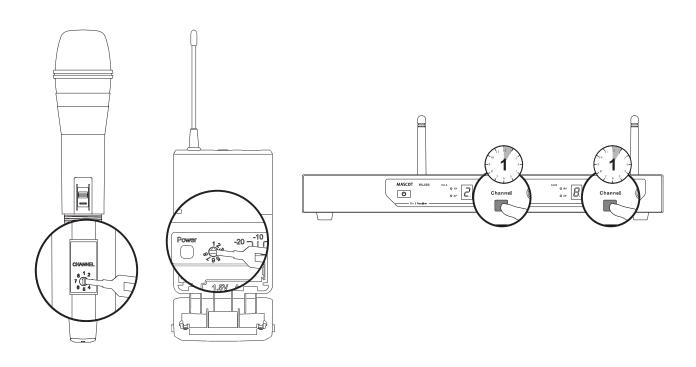


Quick Start Guide

3. Insert Batteries

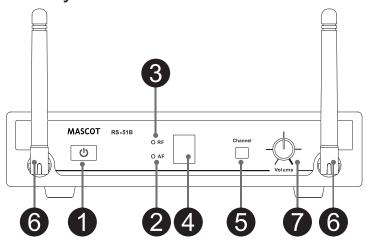


4. Select channel

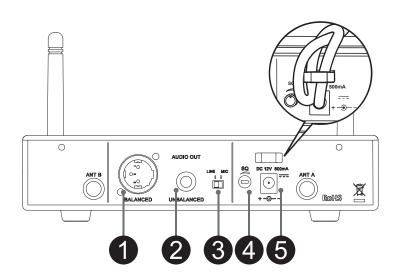


Front:

RS-51B: Diversity Receiver



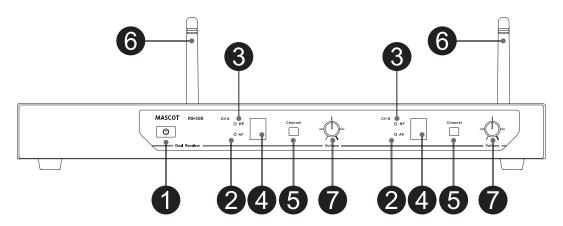
- 1. Power Button: Press and hold for 2 sec. to turn the power on. Press and hold for 2 sec. to turn the power off.
- 2. AF Indicator: The indicator glows to indicate that audio signal has been received.
- 3. RF Indicator: The indicator glows to indicate that RF signal has been received.
- 4. LED Display: The 7 segment LED display shows the selected preset channel.
- 5. Channel Selector: Press and hold for 1 sec. to select the operating channels.
- 6. Antenna: Fixed UHF antenna.
- 7. Volume Control: Adjust the receiver output level.



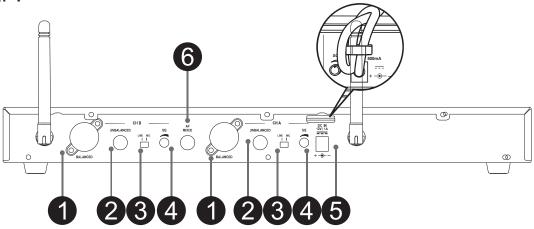
- 1. Balanced XLR Audio Output
- 2. Unbalanced 6.35mm Audio Output
- 3. MIC/LINE Switch: Use this switch to adjust audio output level for MIC level (-20dB) or LINE level (0dB).
- 4. Squelch: Turn the knob to adjust the noise floor level.
- 5. DC Input Jack

Front:

RS-55B: Diversity Receiver



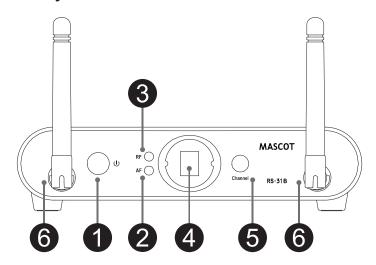
- 1. Power Button: Press and hold for 2 sec. to turn the power on. Press and hold for 2 sec. to turn the power off.
- 2. AF Indicator: The indicator glows to indicate that audio signal has been received.
- 3. RF Indicator: The indicator glows to indicate that RF signal has been received.
- 4. LED Display: The 7 segment LED display shows the selected preset channel.
- 5. Channel Selector: Press and hold for 1 sec. to select the operating channels.
- 6. Antenna: Fixed UHF antenna.
- 7. Volume Control: Adjust the receiver output level.



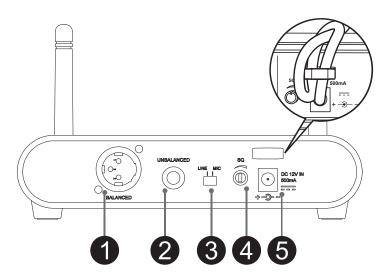
- 1. Balanced XLR Audio Output
- 2. Unbalanced 6.35mm Audio Output
- 3. MIC/LINE Switch: Use this switch to adjust audio output level for MIC level (-20dB) or LINE level (0dB).
- 4. Squelch: Turn the knob to adjust the noise floor level.
- 5. DC Input Jack
- 6. Mix Out: The audio output for CH A and CH B is mixed.

Front:

RS-31B: Diversity Receiver



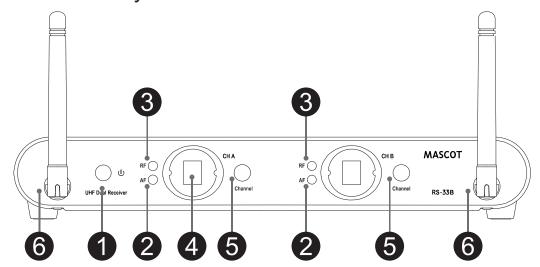
- 1. Power Button: Press and hold for 2 sec. to turn the power on. Press and hold for 2 sec. to turn the power off.
- 2. AF Indicator: The indicator glows to indicate that audio signal has been received.
- 3. RF Indicator: The indicator glows to indicate that RF signal has been received.
- 4. LED Display: The 7 segment LED display shows the selected preset channel.
- 5. Channel Selector: Press and hold for 0.5 sec. to select the operating channels.
- 6. Antenna: Fixed UHF antenna.



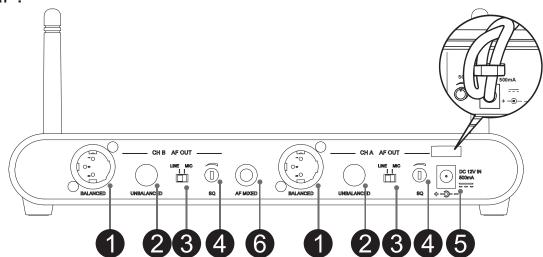
- 1. Balanced XLR Audio Output
- 2. Unbalanced 6.35mm Audio Output
- 3. MIC/LINE Switch: Use this switch to adjust audio output level for MIC level (-20dB) or LINE level (0dB).
- 4. Squelch: Turn the knob to adjust the noise floor level.
- 5. DC Input Jack

Front:

RS-33B: Diversity Receiver

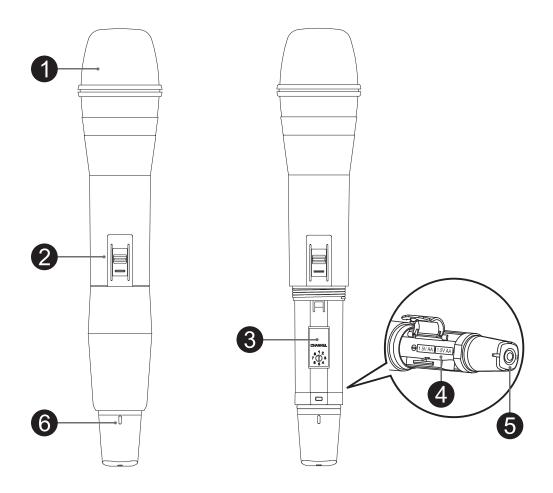


- 1. Power Button: Press and hold for 2 sec. to turn the power on. Press and hold for 2 sec. to turn the power off.
- 2. AF Indicator: The indicator glows to indicate that audio signal has been received.
- 3. RF Indicator: The indicator glows to indicate that RF signal has been received.
- 4. LED Display: The 7 segment LED display shows the selected preset channel.
- 5. Channel Selector: Press and hold for 0.5 sec. to select the operating channels.
- 6. Antenna: Fixed UHF antenna.



- 1. Balanced XLR Audio Output
- 2. Unbalanced 6.35mm Audio Output
- MIC/LINE Switch: Use this switch to adjust audio output level for MIC level (-20dB) or LINE level (0dB).
- 4. Squelch: Turn the knob to adjust the noise floor level.
- 5. DC Input Jack
- 6. Mix Out: The audio output for CH A and CH B is mixed.

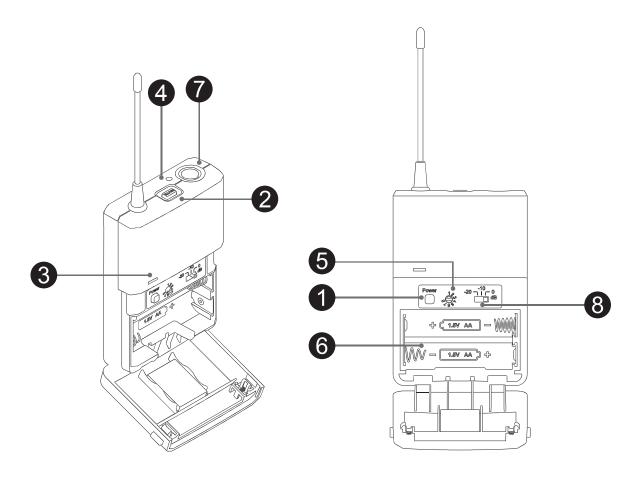
• UF-31B Handheld Microphone



- Grille: Protects the microphone capsule and helps reduce breath sounds and wind noise.
- 2. Talk Switch: Slide up the switch to talk and slide down to mute.
- 3. Channel Selector: 8 different selectable channels.
- 4. Battery Compartment: Insert two AA batteries here and make sure that the polarity of batteries is correct.
- 5. Power Button: Press and hold for 2 sec. to turn the power on or off.
- 6. Power LED: Indicate the power / low battery level status.

LED Indicator	Status
Green	Ready
Flashing Red	Low battery / power when less than 10 minutes operation

UT-51B Bodypack Transmitter



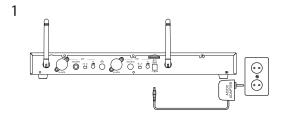
- 1. Power Button: Press and hold for 2 sec. to turn the power on or off.
- 2. Mute Button: With the transmitter on, a slight press for button will toggle between mute and unmute function.
- 3. Power LED: Indicate the power / low battery level status.

LED Indicator	Status
Green	Ready
Flashing Red	Low battery / power when less than 10 minutes operation

- 4. Mute LED: Blue LED light on in mute status.
- 5. Channel Selector: Select the channel.
- 6. Battery Compartment: Insert two AA batteries here and make sure that the polarity of batteries is correct.
- 7. Mini XLR Connector: Connect to the lapel microphone or headset microphone.
- 8. Gain Switch: The switch sets the audio input to -20dB, -10dB, 0dB

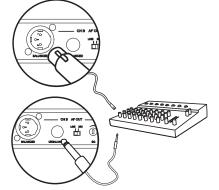
Connecting the receiver

Prior to setting up, please check that the transmitter and receiver are tuned to the same frequency or channel. Two or more transmitters operating in the same frequency can not be used at the same time and area.



Connected the provided DC power supply to the receiver power input with an appropriate AC power source. The LCD display will light and the receiver is on.





- Using a standard audio cable with 3-pin XLR connectors or 6.3mm phone plugs to connect the mixer or amplifier.
- Never use the balanced and unbalanced audio outputs at the same time! This may cause signal loss or increased noise.

3



Set the audio output level for

MIC: -20dB

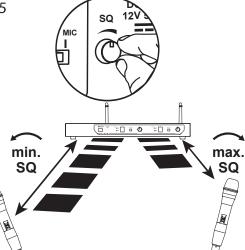
LINE: 0dB (Default Setting)

4



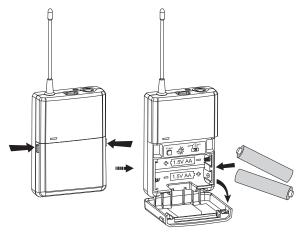
- Using the Volume Controller to adjust the AF audio level to the input of the amplifier or mixer.
- ♦ Default Setting: In minimum VOLUME position.



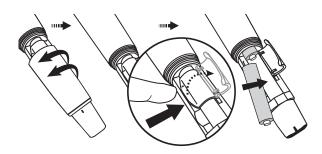


- Use squelch to eliminate or suppress the ambient RF noise.
- Defaulting Setting: In properly position.

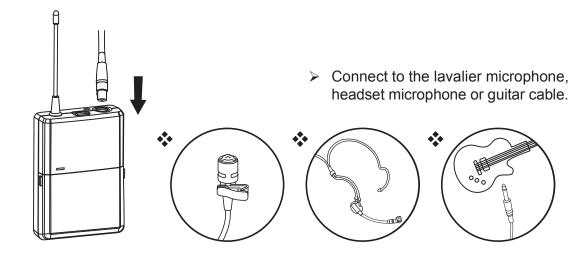
Set up the handheld microphone / bodypack transmitter



Open the battery cover and insert batteries into the battery compartment conforming to the polarity (+)(-) marks.

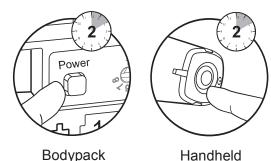


Unscrew the handheld Mic and open the battery cover to insert the battery into the battery compartment and confirm the marks of the polarity (+) (-).

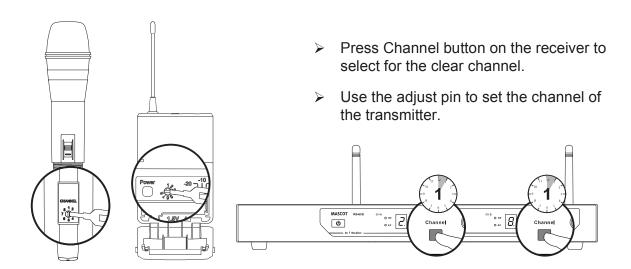


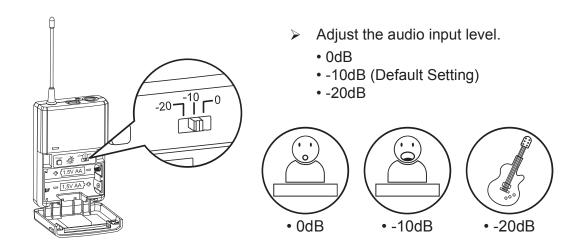
NOTE: When you don't use this device for a long term period, please switch the power switch to "off" mode to save more electric power.

Set up the handheld microphone / bodypack transmitter



- Press for 2 seconds to turn the Handheld/ Bodypack transmitter on.
- If the LED stays flashing, it indicates that the battery will out of power soon and should be changed.

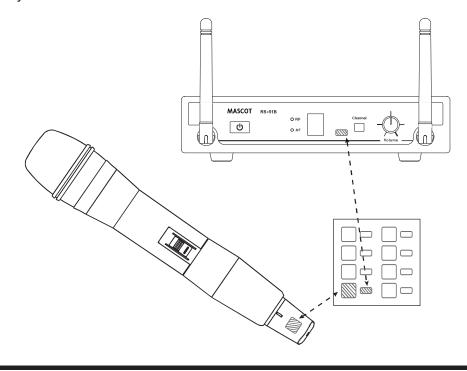


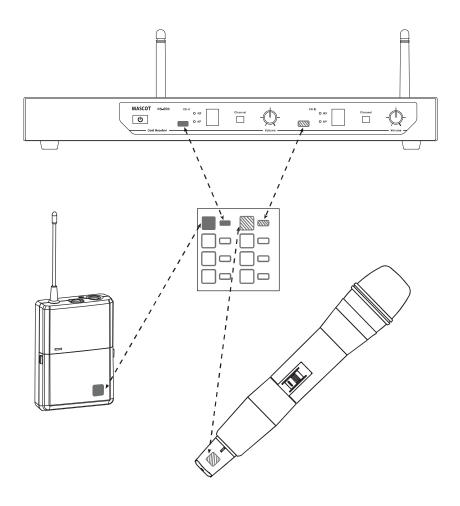


NOTE: When you don't use this device for a long term period, please switch the power switch to "off" mode to save more electric power.

Color Label Identification

You can also stick the color label on the receiver and transmitter for quickly identify the pair system.





WIRELESS TROUBLE SHOOTING	
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Trouble Shooting

Problem	Solution		
No sound	>	Check the power supply of the microphone and receiver.	
	>	Check that the transmitter and receiver are tuned to the same frequency.	
	>	Check whether the hi-fi appliance is switched on and the receiver output is connected to audio mixer or amplifier input.	
	>	Check whether transmitter is too far away from receiver or SQUELCH control set too high.	
	>	Check whether receiver is located too near metal object or there are obstructions between transmitter and receiver.	
Sound interference	>	Check the antenna location.	
	>	When using 2 or above microphone sets simultaneously, make sure that the chosen frequencies are not interfered.	
	>	Check whether the interference comes from other wireless microphones, TV, radio and etc.	
Distortion	>	Check the receiver volume level whether is set too high or too low.	
	>	Check whether the interference comes from other wireless microphones, TV, radio and etc.	

System Performance

Receiver

Frequency Range : UHF520 ~ 937.5MHz (Regionally Selected)

Case : RS-51B : Half 19" EIA Rack Case

RS-55B: 19" EIA Rack Metal Case

RS-31B : Mini Case RS-33B : Mini Case

Oscillator : PLL Synthesized

Modulation : FM

> S/N Ratio : >100dB, at 20KHz deviation and 60dBµV antenna input

> Image & Spurious Rejection : 70dB minimum

Receiving Sensitivity : At 5μV over 70dB S/N ratio

➢ AF Response : 50Hz to 18KHz
 ➢ T.H.D. : <1% (at 1KHz)

➤ IF Frequency : 1st: 243.95MHz 2nd: 10.7MHz

Dynamic Range : >100dBTone Signal : 32.768KHz

Audio Output : Balanced & Unbalanced

Power Supply : DC12V

Current Consumption : RS-51B : 150±10mA / RS-55B : 350±10mA

RS-31B: 120±10mA / RS-33B: 350±10mA

Dimension(MM) WxHxD : RS-33B : 262x42x102

RS-31B: 170x42x102 RS-55B: 400x42x183 RS-51B: 200x42x122

Weight : RS-51B : 365g / RS-55B : 1445g

RS-31B: 260g / RS-33B: 375g

Handheld/Bodypack Transmitter

➤ Frequency Range : UHF520 ~ 937.5MHz (Regionally Selected)

Channel Select : Rotary switch

Display : LED shows the battery status

RF Power Output : 10mW (max.)Frequency Stability : ±0.005%

➤ Spurious Emission : >60dB below carrier frequency

Gain Setting
 Mic Unit
 Bodypack : 0dB, -10dB, -20dB (3 settings)
 Handheld : Uni-Direction dynamic unit or

Uni-Direction electret condenser unit

Bodypack: Lavalier Mic / Headset Mic

> Battery : DC3V (1.5V x 2AA size batteries)

Current Consumption : 120±10mA

> Dimension(mm) WxHxD : Handheld : 260x54Φ

Bodypack: 65x97x25

Weight : Handheld : 240g Bodypack : 84g

^{*}The specifications are subject to change without notice.

MASCOT ELECTRIC CO.,LTD

Warranty card

Product Model:	Product Serial Numeber:		
Purchaser:	Phone:		
Address:			
Warranty Period:One year from purchase	e Date of purchase:		

Warranty& Service Terms:

- ◆ Please read the instruction manual carefully before opeation.
- ◆ The period of warranty shall start from the date of purchase of the product and shall cover a period of one year. If our product has malfunctioned under proper operation, we will repair it without any charge.
- During the warranty period, we may charge you maintenance cost if the following situations have happened:
 - 1. Improper usage or self-disassembly of the machine and accessories which cause product damage.
 - 2. Any damage due to natural disaster or force majeure.
 - 3. Consumable parts are excluded from warranty(e.g.microphone capsule, grille,etc.)
- Please well keep this warranty card.
 It will not be re-issed if lost or damaged.

