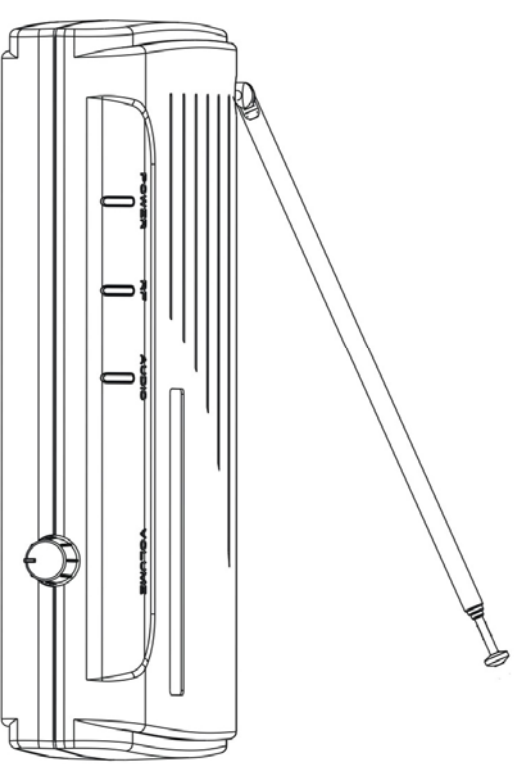




RW-100R

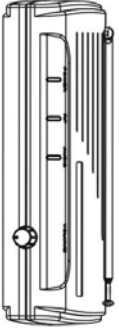
Wireless Microphone Systems User Guide



System Components

All systems include:

RW-100R receiver
2 "AA" batteries
A 1/4" RF connector
Power supply
User guide



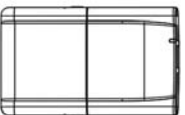
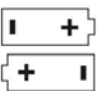
Vocalist system includes:

RW-100HT handheld transmitter



Lavalier/ Headworn system includes:

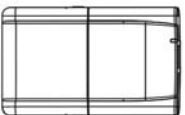
RW-100BT bodypack transmitter
Microphone (choice of PL-90 lavalier)



PL-90

Guitar system includes

RW-100BT bodypack transmitter



PL-90

Specifications

System

Frequency Range and Transmitter Output level

Band	Range	Transmitter RF level
UA	174.200-215.800MHz	13dBm
UB	630-660 MHz	13dBm
UC	740-770 MHz	10dBm
UD	800-822 MHz	10dBm
UE	838-865 MHz	10dBm

Operating Range under Typical Condition

50m (150 ft.)

Note: actual range depends on RF signals absorption, reflection, and interference.

Audio Frequency Response (+/-3 dB)
60Hz~16KHz

Total Harmonic Distortion

(+/- 30 KHz deviation, 1 KHz tone)

<1%

Dynamic Range

>90 dB (A - weighted)

Operating Temperature Range

-10°C to +50°C

Note: battery characteristics may limit the range

Body pack Transmitter

Audio Input Level Maximum

0 dBV ~+20 dBV

Gain adjustment Range

30 dB

Input Impedance

470 kilohm

105mm H × 65mm W × 23mm D

Weight

77 grams without batteries

Power Requirement

Two "AA" size alkaline or rechargeable batteries

Battery life

>8 hours (Alkaline)

Handheld Transmitter

Audio Input Level maximum

0 dBV

Dimensions (including the microphone)

245mm × 53mm Diameter

Weight

200 grams

Battery Requirements

2 "AA" alkaline batteries or rechargeable batteries
Battery Life

>8 hours (Alkaline)

Receiver

Audio Output Level Maximum (ref. +/-30 KHz, 1 KHz)

XL R connector (into 600 Ω load): -12 dBV

1/4inch connector (into 3000 Ω load): -18 dBV

Output Impedance

XL Rconnector 200ohm

1/4inch connector 1kilohm

XL R Output

Impedance balanced

Pin 1: Ground

Pin 2: (+)

Pin 3: (-)

Sensitivity (intermediate frequency adjustment
audio noise output <-92 dB)

Image Rejection

> 90 dB

Dimensions

150mm H × 118mm W × 35mm D

Weight

180 grams

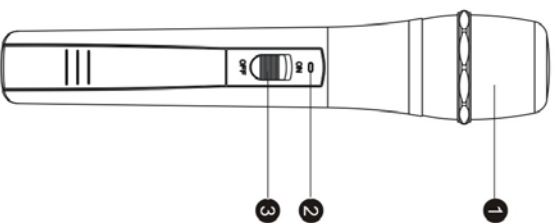
Power Requirements

12-18 Vdc at 400 mA, supplied by external
power supply

Handheld Transmitter:

Functions:

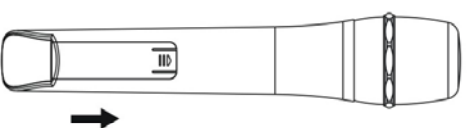
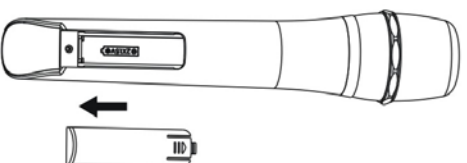
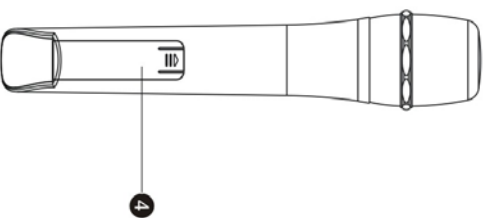
- ① Capsule Accessories
- ② Low Battery Indicator
Light On When The Battery Low
- ③ Power Switch
- ④ Battery Door



Changing Batteries:

Expected life for two 1.5V AA alkaline batteries is about 8 hours.

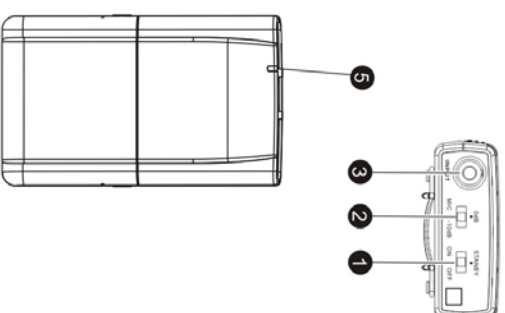
As the battery indicator on the screen keeps glowing, the batteries should be changed immediately (as shown below).



Backpack Transmitter

Features:

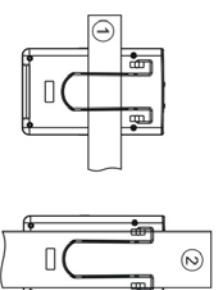
- ① On/Off switch, when it in middle, keeping mute.
Two gain settings are available on RW-100BT, choose the appropriate setting for your instrument
 - Mic: microphone
 - 0: Guitar with passive pickups
 - ② Gain adjustment switch and mute indicator -10dB: Guitar with active pickups
 - ③ Microphone Input Jack
 - ④ Power/Low indicator light
- Turn on switch and Flash red, if the light glows red, the batteries should be changed immediately.



Wearing the Backpack Transmitter:

Clip the transmitter to belt ①, or slide a guitar strap through the transmitter clip ②, as shown.

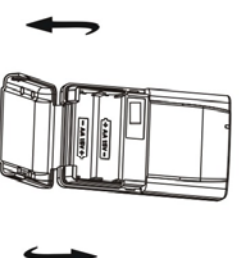
For best results, slide the transmitter until the belt ① is pressed against the base for the clip.



Changing batteries:

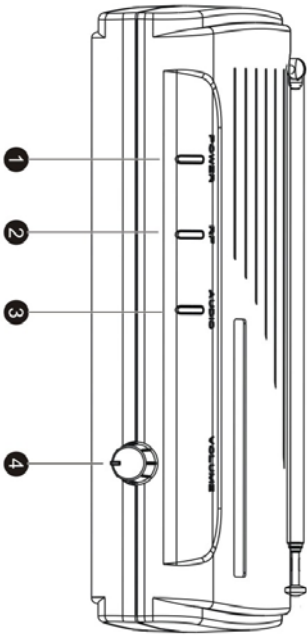
Expected life for Two 1.5V AA Alkaline batteries is approximately 8 hours.

When the transmitter light glows red, the batteries should be changed immediately, as shown on the left.



RW-100R Receiver Features

Front Panel



- 1

Power Indicator
- 2

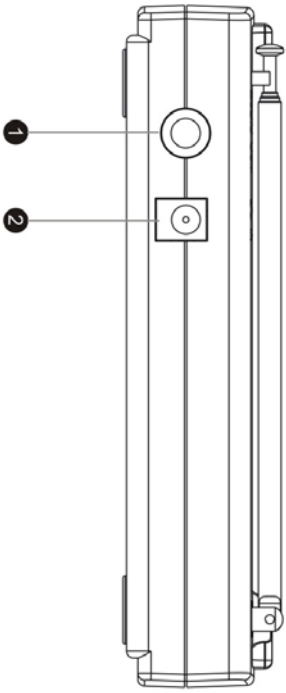
RF signal indicator
- 3

Channel Audio Signal Indicator
- 4

Output Audio Level Control Switch

Clockwise increase the power level, Counter Clockwise decrease the power level.

Rear Panel



- 1

Audio output Socket
- 2

Power adaptor socket

Trips for improving System Performance

- Maintain a line of sight between transmitter and antenna.
- Avoid placing the receiver near metal surfaces or any digital equipment (CD players, computes, etc)
- Keep the receiver away from the wall and over 1m to the ground
- Cellular telephones and two-way radio and so on can interfering the transmitting frequencies, maintain a distance from the interfering equipments or any cause interfering.

Troubles Shooting

Issue	Indicator Status	Solution
No sound or faint sound	Transmitter ON Indicator stop flashing	Turn on transmitter Make sure the +/- indicator on battery match the transmitter terminals
	Power indicator off	Make sure AC adapter is securely plugged into electrical outlet and into DC input connector on rear panel of receiver.
	Receiver RF indicator glows	Turn the receiver up Turn up the Gain adjustment switch in the transmitter Check the power connection of the receiver and amplifier or mixer
	Receiver RF indicator off, transmitter indicator ON	Take the receiver away from the metal objects Check whether there is hamper between receiver and transmitter Move the transmitter near the receiver Check the receiver and transmitter whether use the same frequency
	Transmitter low battery indicator ON	Change the batteries in transmitter
Distortion or unwanted noise bursts	Receiver RF indicator ON	Remove nearby sources of RF interference(CD players, computers , digital effects ,in-ear monitor systems, etc.)
Distortion level increases gradually	Transmitter low battery indicator ON	Change the batteries in transmitter
Sound level different from cabled guitar or microphone, or when using different guitars		Adjust transmitter again and receiver volume as necessary