

Saramonic

Sound.Remarkable. 

UHF Wireless Microphone System
无线麦克风系统

UwMic9 

User Manual
用户手册

Statement

Please read this manual carefully before use and operate and store in strict accordance with the instructions provided. Please retain for future reference.

For any issues that cannot be resolved with the user manual, please refer to your retailer for help or contact us at: **info@saramonic.com**.

Cautions

1. Take care not to use the unit underwater or unprotected in rainy conditions. Store in a cool, dry place.
2. Designed for use and storage at normal temperatures. Do not move the unit from overheated to cold conditions frequently, and keep away from heat sources such as heaters and ovens.
3. When in use, or when storing, avoid contact with dust and moisture.
4. Do not subject to device to violent collisions, as this can damage the device.
5. In order to avoid acoustic feedback, do not hold the microphone close to loudspeakers.
6. For optimal sound detection, do not hold your hand against the microphone head.

General Introduction

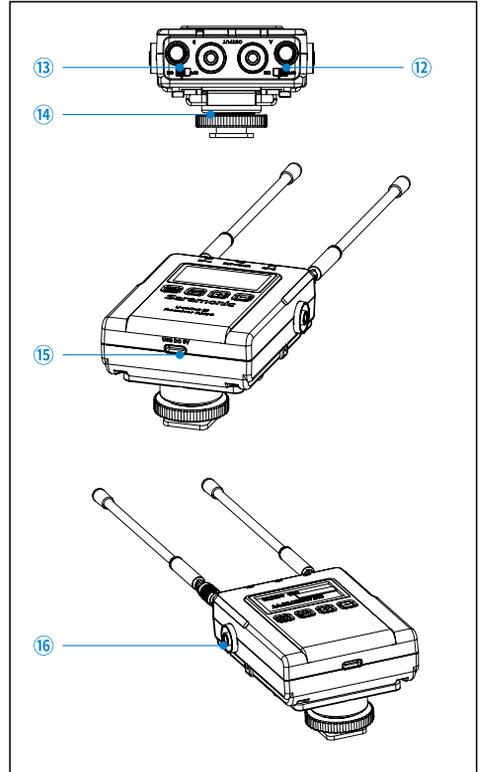
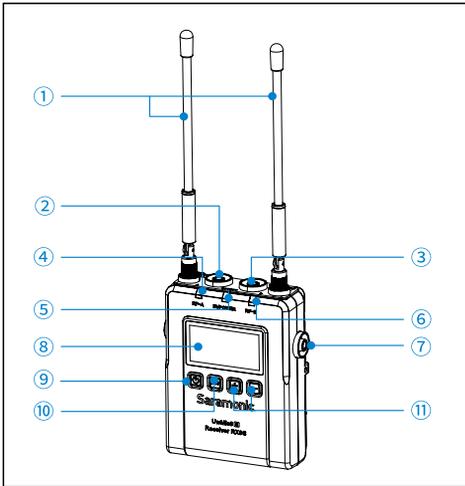
The Saramonic UwMic9S wireless microphone system provides a premium 2-person wireless audio solution for Broadcast & TV, ENG, filmmakers, vloggers, mobile journalists and content creators for a remarkable price. It is an easy-to-use, high-quality and flexible UHF system. The external input allows the receiver to be connected to a mic or line level device, such as a shotgun microphone, mixer, recorder or music player to capture additional sound or music. The system can be powered through its USB-C ports, allowing it to run for numerous hours on a USB-C 5V power bank.

RX9S Portable Receiver

Introduction

The Saramonic RX9S is a camera-mountable dual-channel UHF wireless receiver. It features wide switching RF bandwidth, a high-contrast OLED display and infrared synchronization between transmitter and receiver. The two detachable antennas can be rotated 360° for better reception. The receiver's output can be toggled between mono and stereo modes. The low-cut function on the receiver minimizes low-frequency rumble.

Product Structure



- ① **Detachable antennas**
- ② **Group A output jack**
Connect the RX9S to a video camera, camcorder, mixer or amplifier with the supplied output cables supplied.
- ③ **Group B output jack**
Connect the RX9S to a video camera, camcorder, mixer or amplifier with the supplied output cables.
- ④ **RF-A indicator**
The RF indicator displays the RF input level of group A as follows:
Solid Blue: RF signal is strong.
Lights off: RF signal is disconnected.
- ⑤ **IR/POWER indicator**
Indicates the battery level as follows:
Solid blue: battery fully charged and sufficient.
Solid Red: Battery low.
Charging Status:
Flashing Red: Charging.

⑥ **RF-B indicator**

The RF indicator displays the RF input level of group B as follows:
Solid Blue: RF signal is strong.
Lights off: RF signal is disconnected.

⑦ **MIC IN/LINE IN jack**

Connect a 3.5mm microphone or a line level device to receiver.

⑧ **OLED display**

Display menus, please refer to "OLED Display Operation Guide" (page 4) for more details.

⑨ **Power button**

Long Press to turn the RX9S on or off.

⑩ **SET button**

Long press the SET button to change settings on the display menu.

Then, short press the SET button to confirm your setting change, or long press again to exit without saving.

⑪ **+ or - button**

Selects functions or values shown on the display.

⑫ **ON/OFF switch A (for Group A)**

⑬ **ON/OFF switch B (for Group B)**

⑭ **Cold shoe mount adapter**

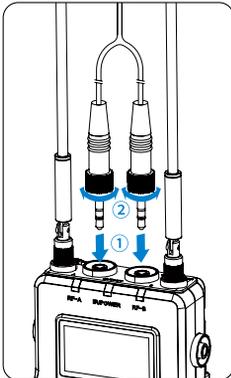
⑮ **USB-C charging port (DC 5V)**

⑯ **3.5mm headphone output**

Connect headphones to monitor the audio.

Attaching Accessories

Connect the supplied cable to the output jack.

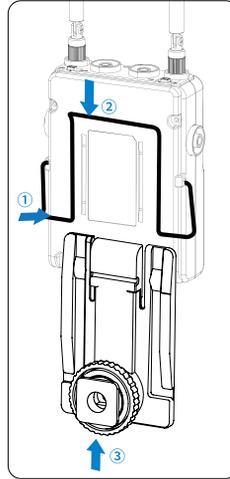


① Choose the corresponding cable and plug into the OUTPUT jack.

② For a secure connection, turn to lock the connector.

It is possible to attach a belt clip. Please Refer to "Attaching Accessories" (page 7).

Attaching the shoe mount adapter.



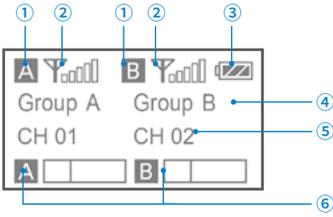
① Please attach the belt clip upside-down before attaching the shoe mount adapter.

② Push the bottom of the belt clip to make some space between the belt clip and the receiver.

③ Align the belt clip with the two vertical grooves on the shoe mount adapter and insert the adapter in the direction of the arrow.

④ Push the shoe mount adapter in fully until the belt clip fits into the horizontal groove on the adapter's holder.

OLED Display Operation Guide



Home screen: If no operation is performed for 20 seconds on the other screens, the display will automatically return to the home screen.

① **Group icon**

- [A] Indicates the power of group A is turned off.
- [A] Indicates the power of group A is turned on.

② **RF level indicator**

Indicates the current reception level.

③ **Battery level indicator**

Displays the battery level. Please charge the devices immediately as soon as the indicator starts flashing.

④ **Name of the channel group**

⑤ **Current channel**

Displays the current channel number.

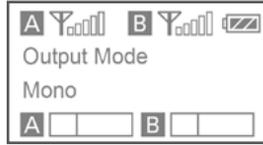
⑥ **Audio input level meter**

Displays the audio input level.

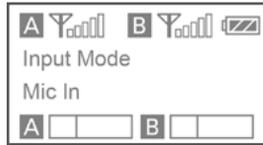


Power key: Long press the SET button to unlock or lock the power key. Lock the power key to prevent the receiver being turned off accidentally while in use.

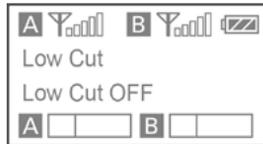
- **Unlocked:** Long press the power key to turn the receiver on or off (System default).
- **Locked:** The receiver will not be turned off even after the power key is pressed.



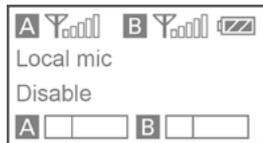
Output mode: The output mode can be set to mono or stereo. When the output mode is in mono, the audio from the left and right channel will be mixed. When in stereo, receiver A's and receiver B's audio output will be separated to the left and right of the stereo output. If using two transmitters, please make sure the ON/OFF switch of the group A and B are set to ON. System default is mono.



Input mode: The input mode can be set to Mic in or Line in.
 Mic in: for connecting a 3.5mm TRS microphone to the receiver.
 Line in: for connecting a line-level device to the receiver.
 System default: Mic in.



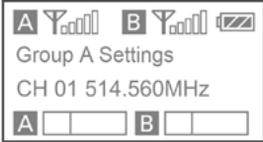
Low cut: Long press the SET button to turn the low-cut function on or off. To attenuate signals with frequencies lower than 150 Hz, the default is "Low Cut OFF."



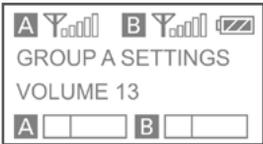
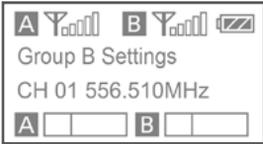
Local mic: Disable or enable the external input by long pressing the SET button.
 Enable: Allows the receiver to connect to an external audio device.
 Disable: The Mic/Line input jack of the receiver cannot be used when set to "Disable." Default is "Disable."



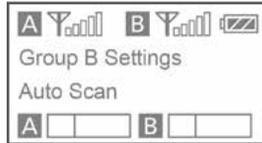
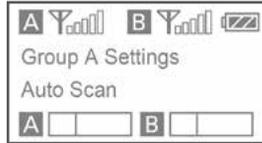
MIC GAIN: Adjust the external microphone's gain level (0-15). Default is "13".



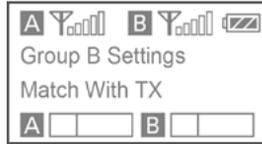
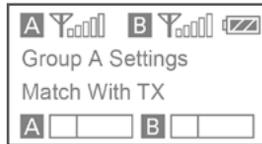
Select channel: For details of operation, please refer to "Manually setting the receiver channel" (page 10).



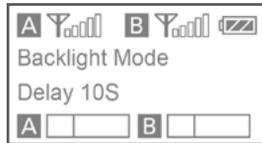
Set output volume: Set the volume of output audio within the range of 0 to 15. The setting is retained even after the power is turned off. Default volume is 13.



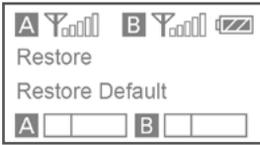
Auto scan function: Automatically scan an available and clear channel. For details of operation, please refer to "Using the auto scan function" (page 9).



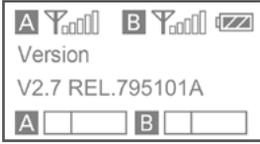
Infrared matching function: Match the receiver and transmitter via infrared. For details of operation, please refer to "Matching the receiver and transmitter channel" (page 10).



Set backlight: Set the background LED light to ON or Delay by 60, 30, or 10 seconds. Default setting is "Delay 30s."



Restoring default setting



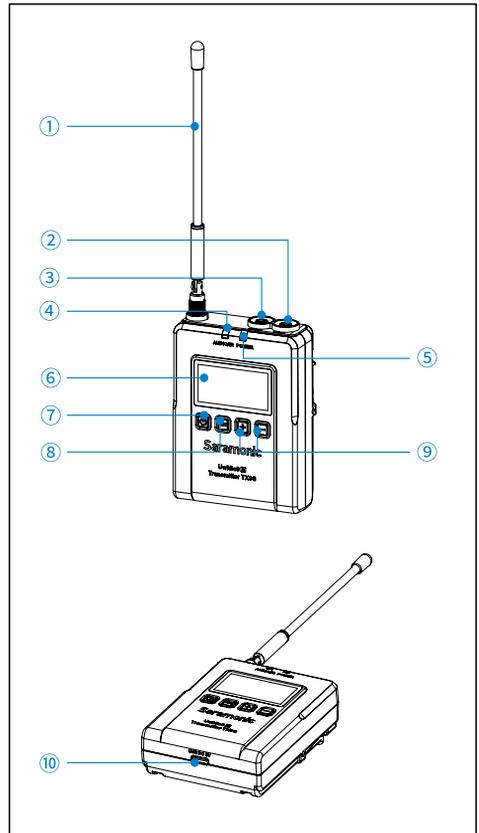
UwMic9S-RX9S Version

Body-pack Transmitter TX9S

Introduction

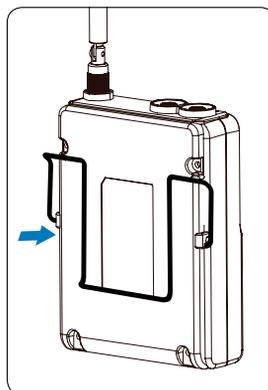
The Saramonic UwMic9S-TX9S is a mountable body-pack transmitter. It features an easy-to-read OLED display, a detachable antenna and built-in rechargeable battery. With the line input and mic input jack, it can accept audio from the included 3.5mm locking lavalier mic or other line-level devices. A short press of the power button mutes the mic between takes. The locking function prevents the transmitter from being muted or turned off accidentally.

Product Structure



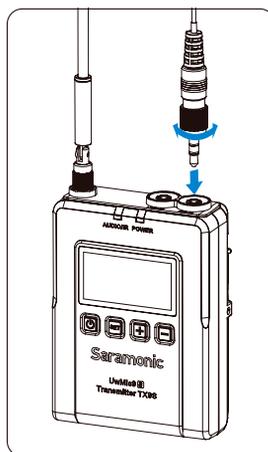
- ① **Detachable antenna**
- ② **MIC IN jack**
Connects to the supplied 3.5mm lavalier microphone.
- ③ **LINE IN jack**
Connects to the line level devices.
- ④ **AUDIO indicator / IR (infrared detector)**
AUDIO indicator: Indicates the audio input level. IR (infrared detector): Receives the frequency from the receiver.
Solid Blue: Audio input level is appropriate.
Flashing Red: Audio is muted (i.e. disabled).
For details on setting the mute function, please refer to "Set Mute key" (page 8).
- ⑤ **POWER indicator**
Indicates the battery level as follows: Solid Blue: Sufficient battery level.
Solid Red: Low battery.
Charging Status:
Flashing Red: Charging.
Solid Blue: Fully charged.
- ⑥ **OLED display**
For display menus, please refer to the "OLED Display Operation Guide" (page 8) for more details.
- ⑦ **Power / Mute button**
Power ON:
Press button for one second or longer
Power OFF:
Press button until it turns off
Mute ON/OFF:
Short press button
- ⑧ **SET button**
Long press the SET button to enter the displayed menu. Then, short press the SET button to confirm your option or long press again to exit without saving.
- ⑨ **+ or - button**
Selects functions or values shown on the display.
- ⑩ **USB-C charging port (DC 5V)**

Attaching Accessories



1. Attaching a belt clip

Insert one end of the belt clip into one of two holes on either side of the transmitter, and then insert the other end into the hole on the other side.

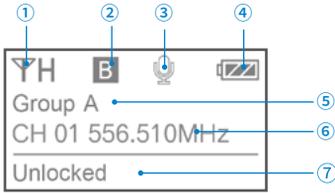


2. Connecting the microphone

For a secure connection, turn to lock the connector.

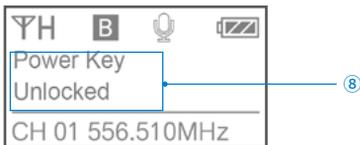
Note: Please turn off the transmitter before attaching or removing the microphone.

OLED Display Operation Guide

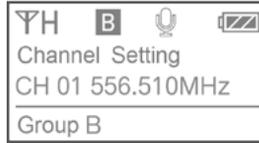


Home screen. If no operation is performed for 20 seconds on the other screens, the display will automatically return to the home screen.

- ① **RF transmission power indicator:**
indicates the current transmission power level.
For details on setting the level, please see "Select RF power level" (page 8).
- ② **Channel group indicator:**
indicates the current group.
- ③ **Mute indicator:**
Mute OFF Mute ON
- ④ **Battery level indicator:**
Displays the battery level. Please recharge the device immediately as soon as the indicator starts flashing.
- ⑤ **Name of the channel group**
- ⑥ **Channel and frequency:**
Indicates the current channel and frequency.
- ⑦ **The status of Power / Mute button.**



- ⑧ **Menu display section. Displays various functions. Press the + or - button to switch functions.**
Set Power key: Select Unlocked or Locked.
Set "Locked" to lock the power button to prevent the unit being turned off or muted accidentally while in use. Default is "Unlocked."



Select Channel: Long press the SET button to enter the menu. Use the "+" and "-" to select the channel you need and short press the SET button to confirm.



Select Group: You can choose "A" or "B" channel group. Each group has 96 channels. The default is "Group A."



Select RF power level: You can set the transmitted RF power to High, Medium or Low. The default is "High."



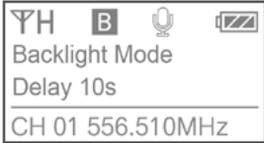
Set Mute key: If you want to mute the audio, please select "Enable" first and then short press the power button. The default is "Enable."



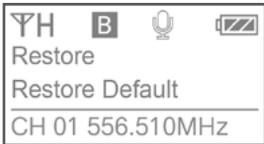
Microphone Sensitivity Setting:
If you want adjust the microphone's gain, you can set the microphone's gain from 00-08. The default is "05".



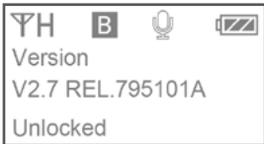
IR Match: Set to match with the receiver. The screen will display "Matching" when in process. After successful matching, it will read "Match success."



Set Backlight: Select ON or Delay by 10, 30, or 60 seconds. The default is "Delay 30s."



Restore default setting



UwMic9S-TX9S Version

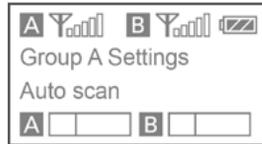
Operation Guide

1. Connect the receiver to the microphone input of a camera, camcorder or mixer with the supplied cable.

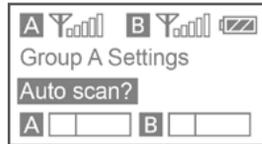
2. Turn on the receiver by long pressing the power button.

3. Set the channel of the receiver in two ways:

① By using the auto scan function



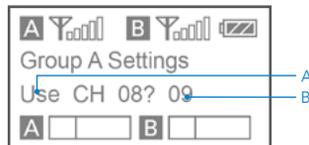
Using the + or - button to display the auto scan screen on the receiver.



Long press the SET button to select "Auto scan?"



Press the SET button to confirm.



The channel with the least noise and interference will be displayed.

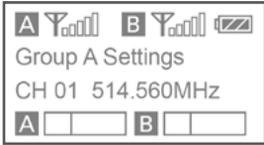
A. Indicates that the current channel with the least noise is CH 08 and asks you if you would like to use it. You can short press the SET button to confirm the channel within 20 seconds or long press the SET button to exit the displayed menu without saving.

B. 20 second Countdown

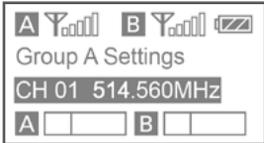
Note:

- ① After 20 seconds have elapsed, the display returns to the home screen without saving.
- ② Some noise may occur when power is turned on, so it is possible to turn down the audio input level of devices connected to the receiver accordingly.

② Manually setting the receiver channel:
Use the + or - button to display the channel menu on the receiver.



Long press the SET button to select the menu.



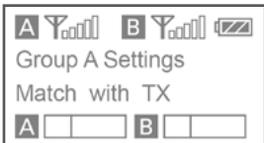
Use the + or - button to select the desired channel and confirm it by short pressing the SET button.

4. Matching the receiver and transmitter channel:

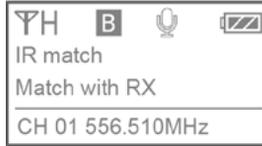
① Infrared transmission is used to transfer the frequency set on the receiver to a transmitter.

For the TX9S

- Turn on the transmitter and receiver.
- Use the + or - button to display the "Match with TX" menu on receiver.



- Use the + or - button to display the "Match with RX" menu on transmitter.



- Long press the SET button to select the menu and then short press it to confirm.
- Place the infrared transmitter port on the receiver near the infrared detector on the transmitter.
- If "Sync Finished" is displayed on the OLED screen, the frequency for use on the transmitter is set.
- After matching successfully, press the SET button on the receiver to return to the previous menu.

Specification

Receiver RX9S

Channel number	96
Channel group	A and B
Oscillator type	PLL synthesizer
Audio output connector	RX9S: 3.5 mm mini jacks (A and B channel output), 3.5mm headphone output
Audio input connector	RX9S: 3.5mm mini jack (MIC IN /LINE IN jack)
Antenna	1/4λ wire antenna
Audio output level	-60 dBV
Headphone output level	30mW (16 Ω)
Receive frequencies	514 MHz - 596 MHz
Receive sensitivity	-95 dBm
Signal-to-noise ratio	75 dB or more
Voice delay	12 ms
Reference deviation	±5 kHz (-60 dBV, 1 kHz input)
Frequency response	40 Hz to 18 kHz (+/-3dB)
Distortion	0.2% or less
Spur suppression	-60 dB
Reference audio input level	-60 dBV (MIC input, 0 dB attenuation)
Built-in battery capacity	2000mA
Power Requirements	Built-In Li-ion Battery or USB-C DC 5V
Continuous use time	8 hrs
Dimensions	RX9S: 220 *64*25 mm
Weight	RX9S: 193g (6.8 .oz)
Operating temperature	0 °C to 50 °C
Storage temperature	-20 °C to +55°C

Transmitter TX9S

Channel number	96
Channel group	A or B
Oscillator type	PLL synthesizer
Carrier frequencies	514 MHz - 596 MHz
Reference deviation	±5 kHz (-60 dBV, 1 kHz input)
Signal to noise ratio	75 dB or more
Spur suppression	-60 dB
Voice delay	12 ms
Antenna	1/4λ wire antenna
Audio input connector	TX9S: 3.5mm mini jacks (MIC IN and LINE IN jack)
Reference audio input level	-60 dBV (MIC input, 0 dB attenuation)
Distortion	0.2% or less
Built-in battery capacity	2000mA

Power Requirements	Built-In Li-ion Battery or USB-C DC 5V
Continuous use time	8 hrs
Dimensions	TX9S: 220 *64*25 mm
Weight	TX9S: 157g (5.5 .oz)
Operating temperature	0°C to 50°C
Storage temperature	-20°C to +55°C

List of contents

UwMic9S Kit1(TX+RX)

1×Body-pack transmitter: TX9S
1×Portable receiver: RX9S
1×DK3A Omnidirectional Lavalier Microphone
1×1'(30cm) SR-C2004 3.5mm TRS Male to Dual Locking-type 3.5mm TRS Male Y-Cable
1×1.3' (40cm) XLR to 3.5mm TRS Locking-type Plug Audio Cable
2×3.8'(1.2m) USB-C Charging Cables
1×2.6' (80cm) 3.5mm TRS Locking-type Plug Audio Cable for Cameras
3×Antennas
2×Belt Clips
1×Cold Shoe Mount Adapter

UwMic9S Kit2 (TX+TX+RX)

2×Body-pack transmitters: TX9S
1×Portable receiver: RX9S
2×DK3A Omnidirectional Lavalier Microphones
1×1'(30cm) SR-C2004 3.5mm TRS Male to Dual Locking-type 3.5mm TRS Male Y-Cable
2×1.3' (40cm)XLR to 3.5mm TRS Locking-type Plug Audio Cable
1×2.6' (80cm)3.5mm TRS Locking-type Plug Audio Cable for Cameras
3×3.8'(1.2m)USB-C Charging Cables
4×Antennas
3×Belt Clips
1×Cold Shoe Mount Adapter