Saramonic

Sound.Remarkable.

UHF Wireless Microphone System
无线麦克风系统

UwMic9S Kit2 (TX9S+TX9S+RX9S)

User Manual
用户手册

Statement

Please read this manual carefully before using and strictly operate and store in accordance with the instructions. Please save it for your future reference.
If the user manual can not help you to solve certain problems, please ask your retailer for help or email us: **info@saramonic.com.**

Cautions

1. Do not use the unit under water, don't expose it to rain. Please store it in a cool, dry place.
2. Please use and store it in normal temperature. Do ot move it from overheated to supercooled condition frequently as well as keep away from heat sources such as heater and oven.
3. When using and storing, please pay attention to dust and moisture.
4. Be careful to violent collision.
5. To avoid acoustical feed-back, do not hold the microphone close to the loudspeakers.
6. For the best sound pick-up pattern do not hold your hand against the microphone head.
7. Remove the batteries from the battery compartment when the device is not used for a long time.

General Introduction

The Saramonic UwMic9S UHF wireless microphone system is intended for portable wireless operation and can be used in several environments for applications such as DSLR video, field recording, broadcast TV, electronic news gathering (ENG), on-the-spot interviews, and more.

Portable Receiver RX9S

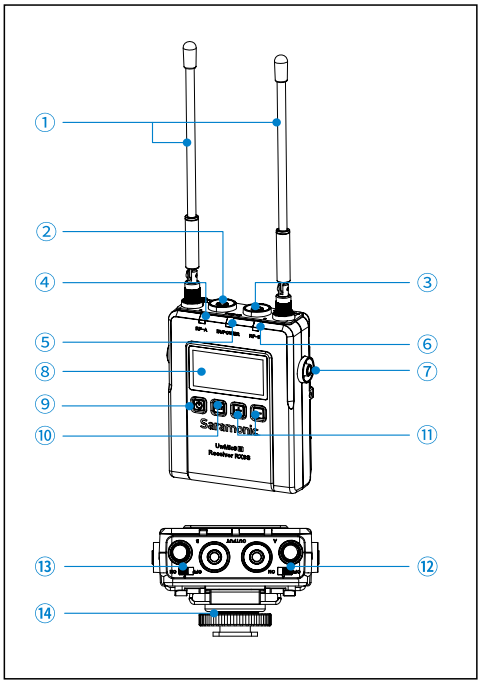
Introduction

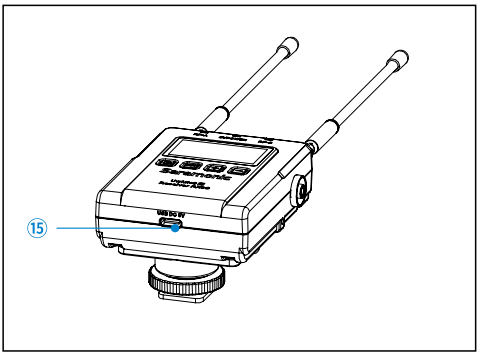
The Saramonic RX9S is a camera-mountable integrated wireless receiver. It features a wide switching RF bandwidth, an easy-to-read, high-contrast OLED display and infrared synchronization between transmitter and receiver.

Equipped with an auto-scan function, the RX9S can automatically search for an available transmission frequency.

The selectable output mode allows you to choose the output signal to be mono or stereo.

Product Structure



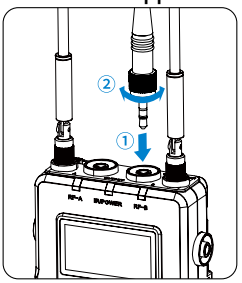


① **Antennas**
② **A channel output jack**
Connect the RX9S to a video camera, camcorder, mixer or amplifier with the supplied output cables.
③ **B channel output jack**
Connect the RX9S to a video camera, camcorder, mixer or amplifier with the supplied output cables.
④ **RF-A indicator**
RF indicator displays the RF input level as follows:
Solid Green: RF signal is strong.
Flash Green: RF signal is weak.
Lights off: RF signal is disconnected.
⑤ **IR/POWER indicator**
Indicates the battery level as follows:
Solid Green: Sufficient battery level.
Solid Red: Low batter level.
Charging Status:
Flashing Red: Charging.
⑥ **RF-B indicator**
RF indicator displays the RF input level as follows:
Green light: RF signal is strong.
Lights off: RF signal is disconnected.
⑦ **MIC IN/LINE IN jack**
It can be connected to the 3.5mm lavalier microphone or line-in devices
⑧ **OLED display**
Display menus, please refer to "OLED Display Operation Guide" (page 4) for more details.
⑨ **Power button**
Long Press to turn on or off the RX9S.

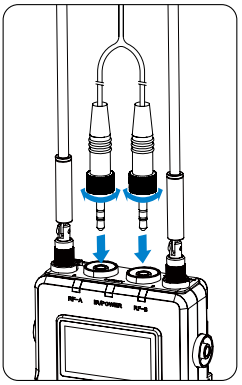
⑩ **SET button**
Long press the SET button to enter the displayed menu.
Then, short press the SET button to confirm your option or long press again to exit without saving.
⑪ **+ or – button**
Selects functions or values shown on the display.
⑫ **ON/OFF switch A (A channel)**
⑬ **ON/OFF switch B (B channel)**
⑭ **Cold shoe mount adapter**
⑮ **USB-C charging port (DC 5V)**

Attaching Accessories

Connect the supplied cable to the output jack.



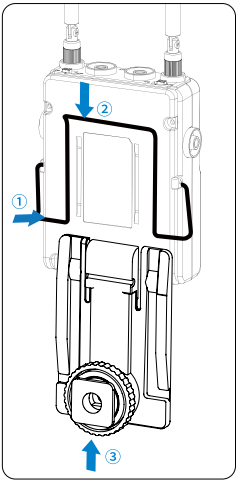
① Choose the corresponding cable and plug into the OUTPUT jack.
② For a secure connection, turn to lock the connector.



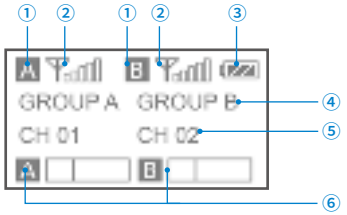
Attach a belt clip. Please Refer to "Attaching Accessories" (page 7).

Attach the shoe mount adapter.

① Please attach the belt clip upside-down before attach-ing 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 holds.



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 replace both batteries immediately when the indicator starts flashing.

④ **Name of the channel group**

⑤ **Current channel**

Displays the current channel number.

⑥ **Audio input level meter**

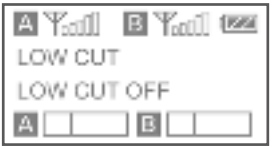
Displays the audio input level.

Power key. Long press the SET button to unlocked or locked the power key. Lock the power key to prevent the receiver being turned off unwittingly while using.

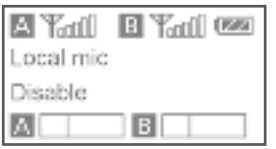
- **Unlocked:** Long press the power key to turn the receiver on or off (System default).
- **Locked:** The receiver will not be turned off even after pressing the power key.

Output mode. The output mode can be selected to mono or stereo. When the output mode is mono, the audio from left and right channel will be mixed. When it is stereo, the left (Group B) and right (Group A) audio channel output will be separated. Please make sure the ON/OFF switch of both channels have been turn to ON position. System default is mono.

Input mode. The input mode can be selected to Mic in or Line in. When the input mode is Mic in mode, the receiver can be connected to the 3.5mm lavalier microphone. When the input mode is Line in mode, the receiver can be connected to the line-in devices. System default is "Mic in".



Low cut. Long press the SET button to turn on or off low cut function. Attenuate low-frequency rumble from audio at 1kHz. System default is low cut off. Default is"Low cut off".



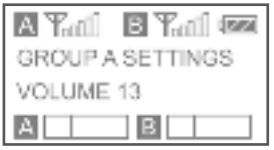
Local mic

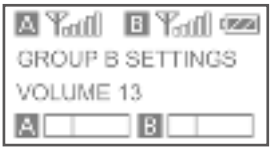
Long press the set button to adjust the input type between Enable and Disable.

When the receiver is connected to 3.5mm lavalier microphone or line-in devices, please set the Local mic to "Enable". If not, please set the Local mic to "Disable". Default is "Disable". When the mode is disable, the mic/line in jack of receiver can not be operated normally.

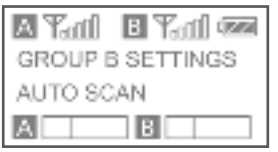
MIC GAIN. Adjust the microphone's gain value as request (0-15). Default is "13".

Select channel. Details of operation, please refer to "Manually setting the receiver channel" (page).

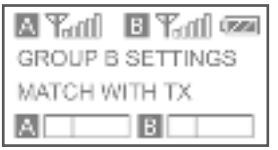




Set output volume. Set the volume of output audio within the range 0 to 15. The setting is retained even after the power is turned off. Default is 13.



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



Infrared matching function. Match the receiver and transmitter via infrared. Details of operation, please refer to "Match the channel of receiver and transmitter" (page).

Set backlight. Set the backgroud LED light to ON or Delay 60 /30 /10 seconds. Default is "Delay 30s."

Restore default setting.

Version of the UwMic9S RX9S.

Body-pack Transmitter UwMic9S TX9

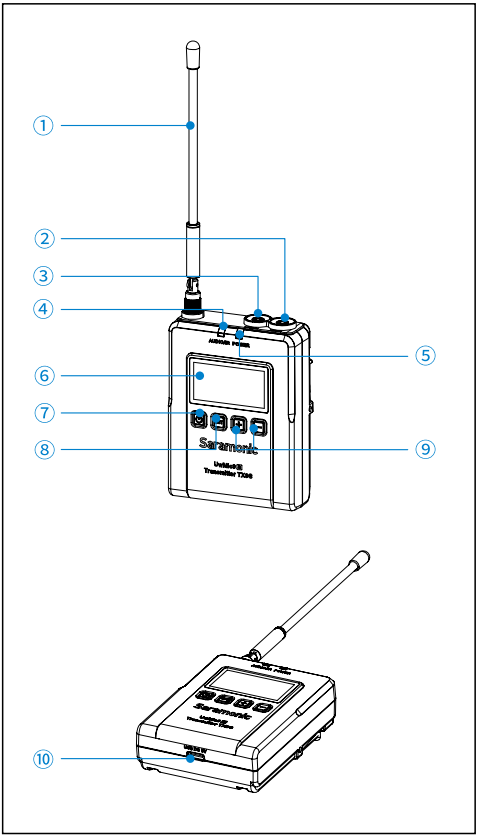
Introduction

The Saramonic UwMic9S TX9S is a camera-mountable body-pack transmitter.

It features a wide switching RF bandwidth, an easy-to-read OLED display and infrared synchronization between transmitter and receiver.

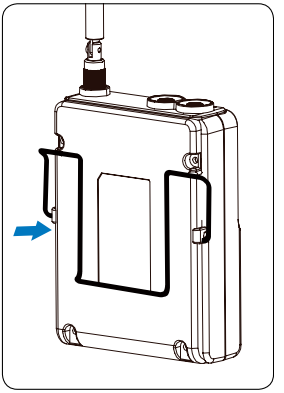
Auto-scan function, no longer has to be disturbed by the channel adjustment and offers more intuitive and faster operation for users. Moreover, it is equipped with a muting function and a BMP-type microphone input connector.

Product Structure

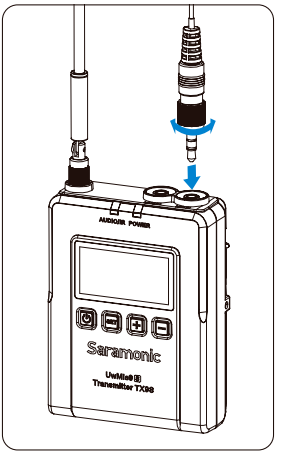


① **Antennas**
② **Connect to the 3.5mm lavalier microphone**
③ **Connect to the line-in devices**
④ **AUDIO indicator / IR (infrared detector)**
AUDIO indicator: Indicates the audio input level. IR (infrared detector): Receives the frequency from the receiver.
Solid Green: Audio input level is appropriate.
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 Green: Sufficient battery level.
Solid Red: Low battery.
Charging Status:
Flashing Red: Charging.
⑥ **OLED display**
Display menus, please refer to "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



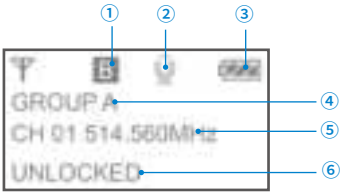
1. Attach a belt clip
Insert one end of the belt clip into one of two holes on either side of the transmitter, and then insert the other end into the port of MIC IN on the other side.



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

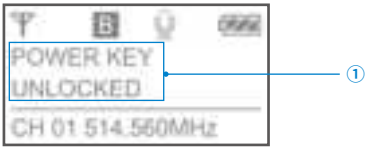
Note: Please turn off the transmitter before attaching or removing the microphone.

OLED Display Operation Guide



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

① **Channel group indicator**
Indicates the channel group.
② **Mute indicator**
Mute OFF Mute ON
③ **Battery level indicator**
Displays the battery level. Please replace both batteries immediately when the indicator starts flashing.
④ **Name of the channel group**
⑤ **Channel and frequency**
Indicate the current channel and frequency.
⑥ The status of Power / Mute button.

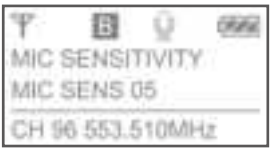


① **Menu display section. Displays various functions. Press the + or - button to switch functions.**
Set Power key. Select Unlocked or Locked.
Set "Locked" to lock the power button to prevent the unit being turned off or muted unwittingly while using. Default is "Unlocked."

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

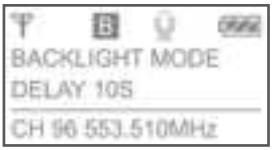
Select Group. You can choose "A" or "B" channel group. Each group has 96 channels. Default is 'Group A."

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



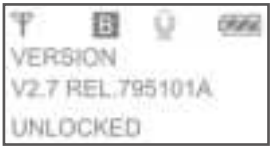
Microphone Sensitivity Setting:
If you want adjust the microphone's gain, you can set the microphone's gain from 00-08. Default is "05".

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



Set Backlight. Select ON or Delay 10 / 30 /60 seconds. Default is "Delay 30s."

Restore default setting.



Version of the UwMic9S TX9S.

Operation Guide

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

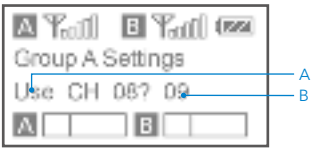
2. Turn on the receiver by long pressing the power button.

3. Set the channel of the receiver by two ways:
① Using the auto scan function

Use 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.

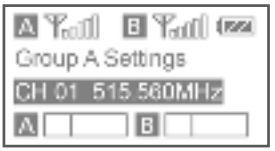
A. Indicates the current least noise channel is CH 03 and ask you if you would like to use it. You can short press the SET button to confirm the channel within 20 seconds or long press the SET button to exit the displayed menu without saving.

B. Counting down 20 second

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, you could 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. Match the channel of receiver and transmitter.
① Using infrared transmission 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.

- Both long press the SET button to select the menu and short press it to confirm.
- Place the infrared transmitter port on the receiver near the infrared detector on the transmitter.
- If "Match success" displayed on the OLED screen, the frequency for use on the transmitter is set.
- After matching successfully, press the SET button of 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 jack
Antenna	1/4λ wire antenna
Audio output level	–60 dBV
Headphone output level	30mW (16 Ω)
Receive frequencies	514.56MHz - 595.46MHz
Receive sensitivity	-95 dBm
Signal to noise ratio	70 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	0.5% or less
Spur suppression	-60 dB
Reference audio input level	–60 dBV (MIC input, 0 dB attenuation)
Weight (excluding batteries)	RX9S: Approx. 218.7g
Power Requirements	Built-In Li-ion Battery or USB-C DC 5V
Dimensions	RX9S: 170.9 × 63.5 × 30.0 mm
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	514.56MHz - 595.46MHz
Reference deviation	±5 kHz (–60 dBV, 1 kHz input)
Signal to noise ratio	70 dB or more
Spur suppression	-60 dB
Voice delay	12 ms
Antenna	1/4λ wire antenna
Audio input connector	TX9S: 3.5mm mini jack
Reference audio input level	–60 dBV (MIC input, 0 dB attenuation)
Distortion	0.5% or less
Weight	TX9S: Approx. 211.4g
Power Requirements	Built-In Li-ion Battery or USB-C DC 5V
Dimensions	TX9S: 170.9 × 63.5 × 30.0 mm
Operating temperature	0°C to 50°C
Storage temperature	–20°C to +55°C

Packing list

Body-pack transmitter: TX9S
Portable receiver: RX9S
DK3A Omnidirectional Lavalier Microphone Kit
SR-C2004 3.5mm TRS Male to Dual Locking-type 3.5mm TRS Male Y-Cable
XLR to 3.5mm TRS Locking-type Plug Audio Cable
3.5mm TRS Locking-type Plug Audio Cable for Cameras
Antenna
Belt Clip
Cold Shoe Mount Adapter

For better recording experience, the app-lication **SmartRecorder** is recommended.

为获得更好的录制体验，推荐使用枫笛 Saramonic 自主研发应用软件 **SmartRecorder**。

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全国服务热线：400-613-1096

中国制造 Made in China

FCC Caution:

This device for License use only.

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.

IMPORTANT NOTE:

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.

FCC Radiation Exposure Statement:

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