Saramonic®

UHF Wireless Microphone System UwMic9

User Manual

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.

CONTENTS

General Introduction **2**

Portable Receiver UwMic9-RX9 ..... **2**

Introduction 2

Product Structure 2

Attaching Accessories 4

LCD Display Operation Guide 5

Body-pack Transmitter UwMic9-TX9 ..... **8**

Introduction 8

Product Structure 9

Attaching Accessories 11

LCD Display Operation Guide 12

Hand-held Microphone UwMic9-HU9 ..... **15**

Introduction 15

Product Structure 16

Setup Guide 17

Plug-on Transmitter UwMic9-TX-XLR9 ..... **18**

Introduction 18

Product Structure 18

Attaching Accessories 20

LCD Display Operation Guide 21

Operation Guide **24**

Specification **29**

Receiver RX9 29

Transmitter TX9, HU9 and TX-XLR9 29

Packing list **31**

General Introduction

The Saramonic UwMic9 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), onthe-spot interviews, and more.

Portable Receiver UwMic9-RX9

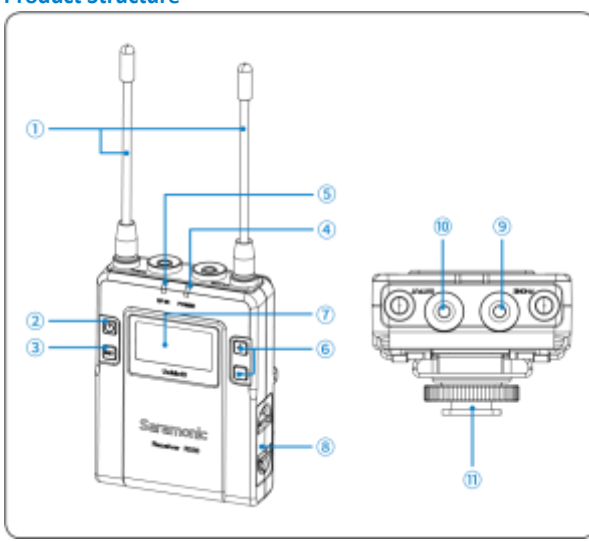
Introduction

The Saramonic UwMic9-RX9 is a camera-mountable integrated wireless receiver. It features a wide switching RF bandwidth, an easy-to-read LCD display and infrared synchronization between transmitter and receiver.

Equipped with an auto-scan function, the RX9 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 **Power button**

Press to turn on or off the RX9. ③

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. ④ **POWER indicator**

Indicates the battery level as follows:
Green light: Sufficient battery level.
Red light: Low battery level.

⑤ **RF indicator and infrared transmitter port**

The infrared transmitter port sends the set frequency to a transmitter.
RF indicator displays the RF input level as follows:
Green light: RF signal is strong.
Red light: RF signal is weak or disconnected.

⑥ **+ or – button**

Selects functions or values shown on the display.

⑦ **LCD display**

Display menus, please refer to "LCD Display Operation Guide" (page 5) for more details.

⑧ **Battery compartment**

Operates on two AA batteries (not included). ⑨

PHONE jack

It is a 3.5mm diameter and stereo mini headphone jack. Connect a headphone to monitor the audio output.

> **Note:** Please do not connect a headphone with a monaural mini jack. As this may short-circuit the headphone jack and distorted sound output.

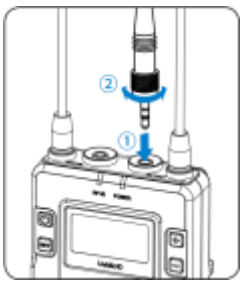
⑩ **OUTPUT jack**

Connect the RX9 to a video camera, camcorder, mixer or amplifier with the supplied output cable.

⑪ **Standard cold shoe**

Attaching Accessories

1 Connect the supplied cable to the output jack.

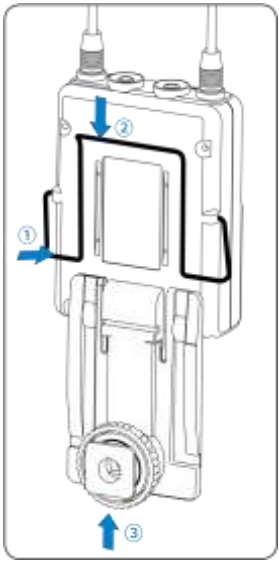


① Plug the supplied cable into the OUTPUT jack.

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

2 Attach a belt clip. Please Refer to "Attaching Accessories" (page 10).

3 Attach the shoe mount adapter.

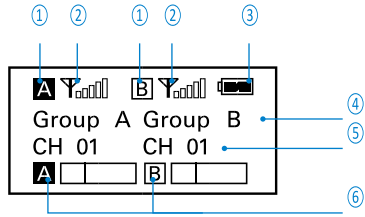


① Please attach the belt clip upside-down before attaching the shoe mount adapter. ② Push the bottom of the belt clip to make some space between the belt clip and the receiver.

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 holds.

LCD 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.

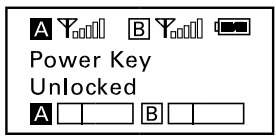
④ Name of the channel group

⑤ Current channel

Displays the current channel number.

⑥ Audio input level meter

Displays the audio input level.



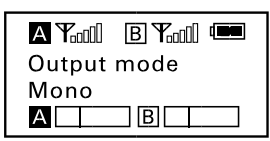
2

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.

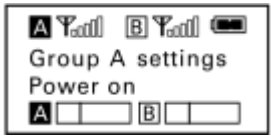
- **U nlocked:** Long press the power key to turn the receiver on or off (System default).
- **L ocked:** The receiver will not be turned off even after pressing the power key.

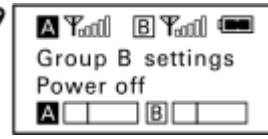
Note: If the batteries are removed and reinserted while the power key is set to Locked, the lock state of the Power key will not be changed. You can turn on the receiver by long pressing the power button.

3



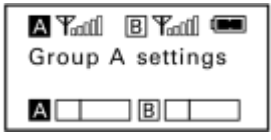
Output mode. The output mode can be selected to mono or stereo. When the output mode is mono, the audio from left and right channel will be mixed. When it is stereo, the left (Group B) and right (Group A) audio channel output will be separated. System default is mono.

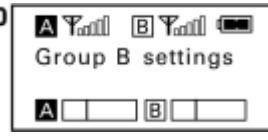




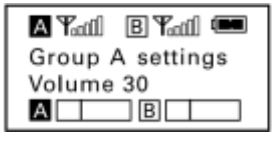
Power of the Group. When you only use one group signal, please turn off the other group to save battery. To save battery, system default of the Group B is power off while the Group A is power on.

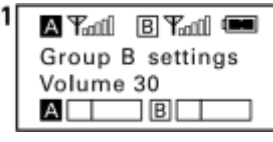
When operating two transmitters simultaneously, please set each transmitter to a different group to prevent interference or noise.



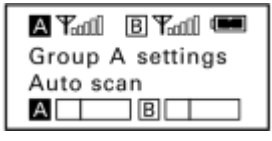


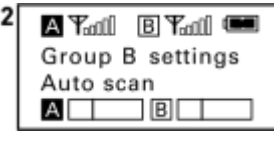
Select channel. Details of operation, please refer to "Manually setting the receiver channel" (page 24).



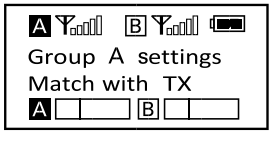


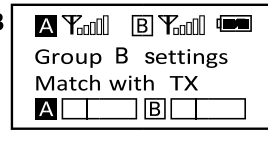
Set output volume. Set the volume of output audio within the range 0 to 30. The setting is retained even after the power is turned off. Default is 30.





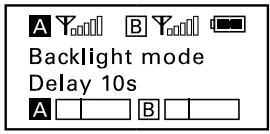
Auto scan function. Automatically scan an available and clear channel. Details of operation, please refer to "Using the auto scan function" (page 23).





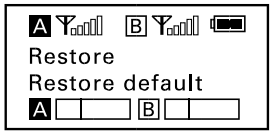
Infrared matching function. Match the receiver and transmitter via infrared. Details of operation, please refer to "Match the channel of receiver and transmitter" (page 24).

14



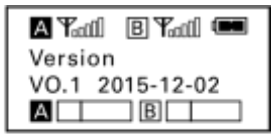
Set backlight. Set the backgroud LED light to ON or Delay 60 /30 /10 seconds or OFF. Default is "Delay 10s."

15



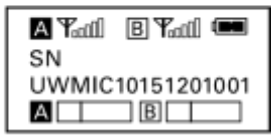
Restore settings. Confirm it then the parameters of RX9 are restored to their factory default settings.

16



Version of the UwMic-RX9.

17



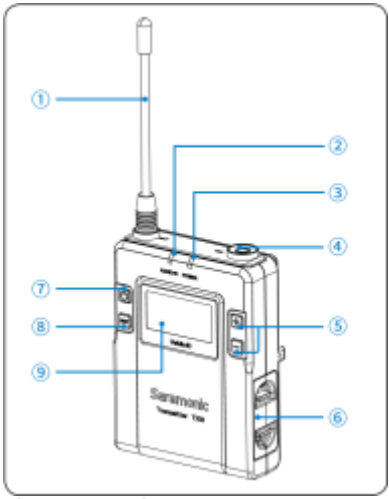
Serial Number.

Body-pack Transmitter UwMic9-TX9

Introduction

This transmitter is a compact transmitter that employs a crystal-controlled PLL synthesizer. It is equipped with a muting function and a locking-type microphone input connector. The RF power output can be switched among high, middle and low.

Product Structure



① **Antenna** ② **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 12). ③ **POWER indicator**

Indicates the battery level as follows:
Solid Green: Sufficient battery level.
Solid Red: Low battery.

④ **Audio input connector (3.5mm locking-type plug)** Connect to the supplied lavalier microphone.

⑤ **+ or – button**

Selects functions or values shown on the display.

⑥ Battery compartment

Accepts two AA batteries (alkaline, nickel metal hydride, or lithium batteries).

⑦ Power / Mute button

Function	Operation
Power ON	Press button for one second or longer
Power OFF	Press button until it turns off
Mute ON	Short press button
Mute OFF	

⑧ SET button

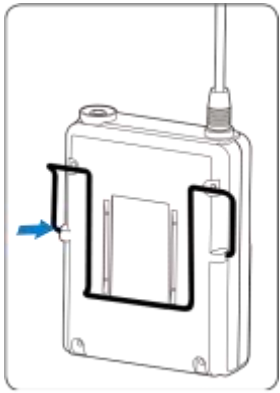
Long press the SET button to enter the displayed menu.

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

⑨ LCD display

Display menus, please refer to "LCD Display Operation Guide" (page 11) for more details.

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 hole on the other side.

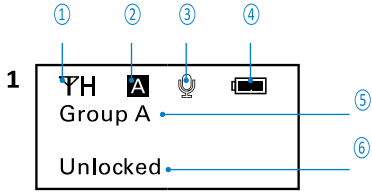


2 Connect the mcirophone.

For a secure connection, turn to lock the connector.

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

LCD 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 12).

② Channel group indicator

Indicates the channel group.

③ Mute indicator

Mute OFF Mute ON

④ Battery level indicator

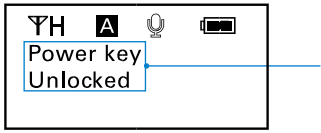
Displays the battery level. Please replace both batteries immediately when the indicator starts flashing.

⑤ Name of the channel group

⑥ Channel and frequency

Indicate the current channel and frequency.

⑦ The status of Power / Mute button.



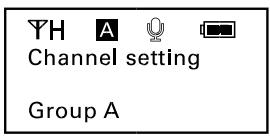
2

①

① Menu display section. Displays various functions. Press the + or - button to switch functions.

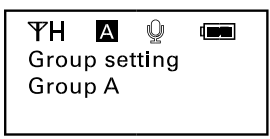
Set Power key. Select Unlocked or Locked.
Set "Locked" to lock the power button to prevent the unit being turned off or muted unwittingly while using. Default is "Unlocked."

3



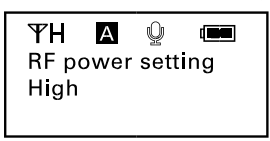
Select Channel. Long press the SET button to enter the menu. Use the "+" and "-" to select the channel you need and shot press the SET button to confirm.

4



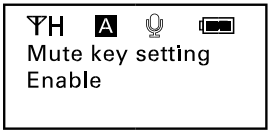
Select Group. You can choose "A" or "B" channel group. Each group has 96 channels. Default is 'Group A."

5

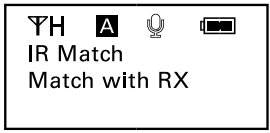


Select RF power level. You can set the transmitted RF power to High, Middle or Low. Default is "High."

6

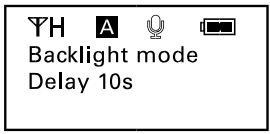


Set Mute key. If you want to mute the audio, please select "Enable" first and then short press the power button. Default is "Enable."



7

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



8

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

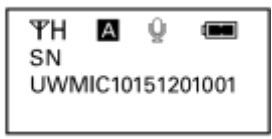


9

Restore default setting.



Version of the UwMic9-TX9.



Serial Number.

10

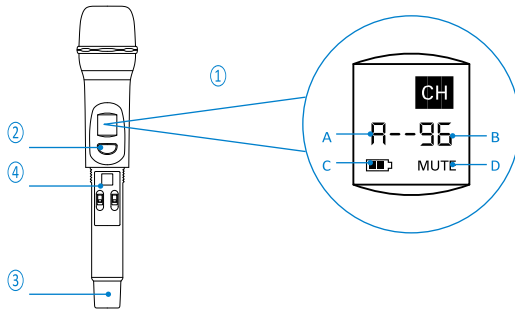
11

Hand-held Microphone UwMic9-HU9

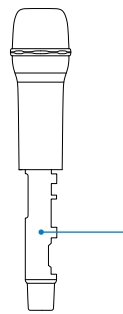
Introduction

Saramonic HU9 is a handheld wireless UHF microphone transmitter features a compact metallic body, an easy-to-read LCD display, a RF power switch and a PLL synthesizer. The broadcast quality microphone will capture crystal clear and rich sound. It has a built-in antenna, a muting function and power lock function. The channel of HU9 is synced up with the receiver via infrared.

Product Structure



① LCD screen



A. Channel Groups.

Two channel groups: A and B. Each group has 96 channels. B. Channel number.

C. Battery level indicator.

D. MUTE. Audio is muted.

This LCD display indicates it is ⑤ operating on channel 96 of group A.

② Power / Mute button

Power: Long press to turn on/off the HU9.

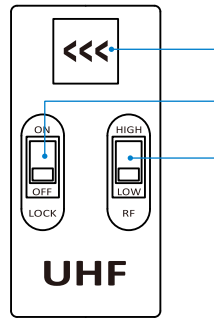
Mute: Short press the button while transmitting, the audio will be muted. Press it again to restore the audio output.

Note: In muting, the audio signal is not output but an RF signal is still transmitted.

③ Antenna

④ **Operation panel**

A. Infrared detector. Receives the frequency set on the receiver.
B. Lock switch. Set to ON will [A] lock the power button. It will prevent the power being [B] turned off inadvertently during transmission. [C]
C. RF power. Set the transmit output level to HIGH or LOW.



> **Note:** The lock switch will not lock the mute function.

⑤ **Battery compartment**

Operates on two AA batteries (not included).
You could use alkaline, lithium or nickel metal hydride batteries.

Setup Guide

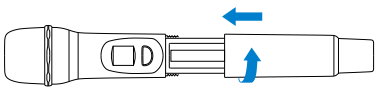
1 Install the batteries. Refer to "UwMic9-HU9" (page 22) **2** (Option) Set the lock switch to ON or OFF.

3 (Option) Set the RF power to HIGH or LOW. The transmit power level varies depending on the model.

4 Press the power button to turn on the HU9

5 Turn on the receiver UwMic9-RX9 and sync with the transmitter HU9. Details of operation, please refer to "For HU9" (page 25).

6 When sync successfully, the screen of HU9 will show the group and channel same as the receiver. **7** Close the grip in the direction of the arrows.



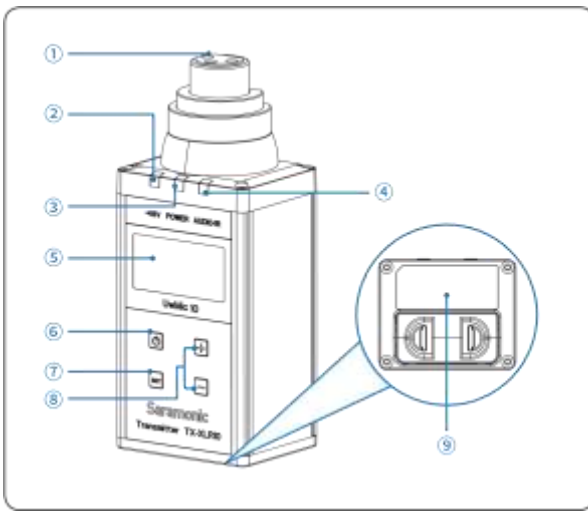
8 Now it is ready to use.

Plug-on Transmitter UwMic9-TX-XLR9

Introduction

The Saramonic TX-XLR9 is a compact XLR plug-on type transmitter features a wide switching RF bandwidth, an easyto-read LCD display, +48V phantom power and mute function. It is suitable for portable wireless operation and can be used in a wide range of applications such as DSLR video, broadcast TV, ENG and more.

Product Structure



① **XLR audio input jack**

Connects to an XLR microphone or audio devices with line output.

② **+48V power indicator**

Lights up when the +48V phantom power is on. ③

POWER indicator

Indicates the battery level as follows:

Solid Green: Sufficient battery level.

Solid Red: Low battery.

④ AUDIO indicator / IR (infrared detector)

AUDIO indicator: Indicates the audio input level.

IR (infrared detector): Gets 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 20). ⑤

LCD screen

Displays menus, please refer to "LCD Display Operation Guide" (page 19) for more details.

⑥ Power / Mute button

Turns the power or mute function to on or off.

Function	Operation
Power ON	Press the button for one second or longer
Power OFF	Press the button until it turns off
Mute ON	Short press the button
Mute OFF	

⑦ SET button

Long press the SET button to enter the displayed menu.

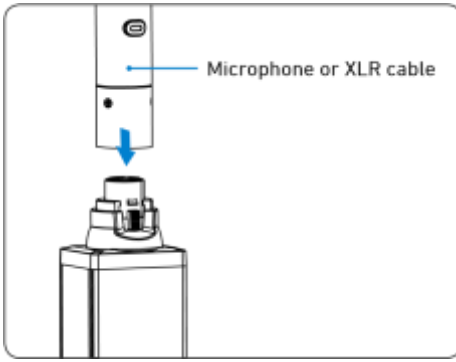
Then short press the SET button to confirm your option or long press again to exit without saving. ⑧ **+ or – button**

Selects functions or values shown on the display.

⑨ Battery Compartment

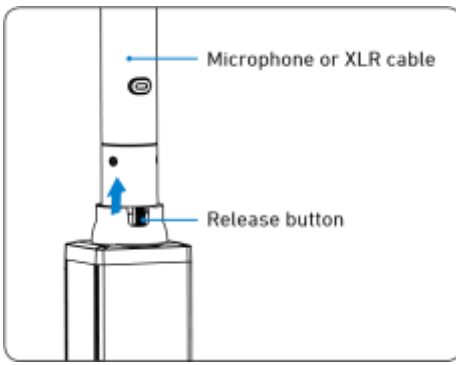
Operates on two AA batteries (alkaline, nickel metal hydride, or lithium batteries). For details on how to insert batteries, please refer to "Install the batteries" (page 22).

Attaching Accessories



1 Attach a microphone or XLR cable.

Push the microphone or cable connector into the XLR audio input jack of the TX-XLR9 until it clicks into place.

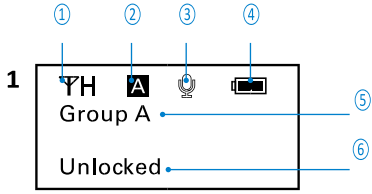


2 Disconnect a microphone or XLR cable.

Press the release button and pull the microphone or XLR cable out carefully in the direction of arrow.

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

LCD 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 20).

② Channel group indicator

Indicates the channel group.

③ Mute indicator

Mute OFF Mute ON

④ Battery level indicator

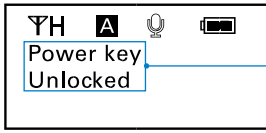
Displays the battery level. Please replace both batteries immediately when the indicator starts flashing.

⑤ Name of the channel group

⑥ Channel and frequency

Indicate the current channel and frequency.

⑦ The status of Power / Mute button.

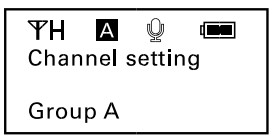


2 ①

① Menu display section. Displays various functions. Press the + or - button to switch functions.

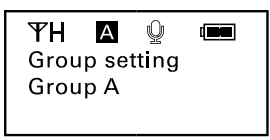
Set Power key. Select Unlocked or Locked.
Set "Locked" to lock the power button to prevent the unit being turned off or muted unwittingly while using. Default is "Unlocked."

3



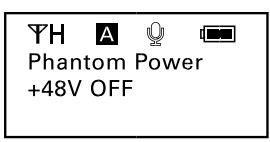
Select Channel. Long press the SET button to enter the menu. Use the "+" and "-" to select the channel you need and shot press the SET button to confirm.

4



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

5

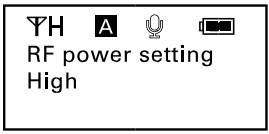


Set the microphone drive power supply (+48V). When set to ON, 48V phantom power is supplied to the connected microphone and the "+48V" indicator lights up. Default is "+48V OFF."

Note: Please DO NOT turn on the phantom power when using with microphones that do not operate on phantom power,

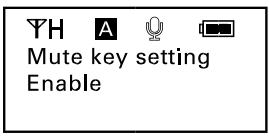
mixing boards or any unbalanced devices, because it may cause damage to both transmitter and audio device.

6

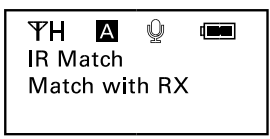


Select RF power level. You can set the transmitted RF power to High, Middle or Low. Default is "High."

7

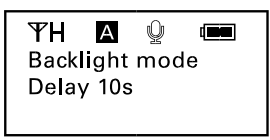


Set Mute key. If you want to mute the audio, please select "Enable" first and then short press the power button. Default is "Enable."



8

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



9

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

10



Restore default setting.



Version of the UwMic9-TX-XLR9.



Serial Number.

11

12

Operation Guide

1 Install the batteries.

① UwMic9-RX9 and UwMic9-TX9. Batteries can be inserted in the plug-on transmitter UwMic9-TX-XLR9 in the same 9 manner.



- L ong press the Power key to turn the unit off.
- S lide the two catches inward and pull out the battery compartment.
- I nsert two AA size batteries according to the polarity

indicators and close the compartment. Please be sure the battery compartment is locked securely.

Long press the power button to turn the power off.

T urn the grip in the direction of the arrow, and pull the grip down until the battery compartment is visible.

I nsert two new AA batteries into the battery compartment with ⊕ and ⊖ polarities in the correct orientation.

Note:

① Please remove the batteries from the battery compartment when the device is not used for a long time. ② Please always use sets of the same type of battery.

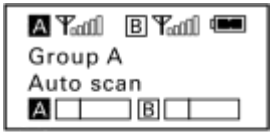
③ Replacing the batteries during operation may generate noise. Please make sure that the unit is turned off before replacing batteries.

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

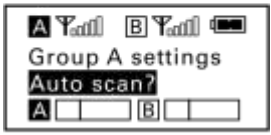
3 Turn on the receiver by long pressing the power button.

4 Set the channel of the receiver by two ways:

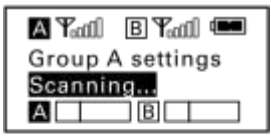
① Using the auto scan function



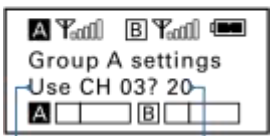
- Use the + or – button to display the auto scan screen on the receiver.



- 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 in 20 seconds or long press the SET button to exit the displayed menu without saving.

B. Counting down 20 second

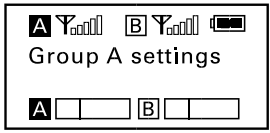
Note:

① After 20 seconds have elapsed, the display returns to the home screen without saving.

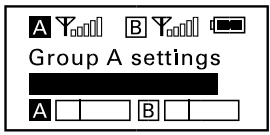
② Some noise may occur when power is turned on, you could turn down the audio input level of devices connected to the receiver accordingly.

② Manually setting the receiver channel.

- U se the + or – button to display the channel menu on the receiver.



- Long press the SET button to select the menu.



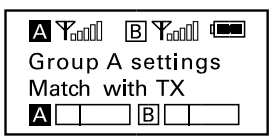
- U se the + or – button to select the desired channel and confirm it by short pressing the SET button.

5 Match the channel of receiver and transmitter.

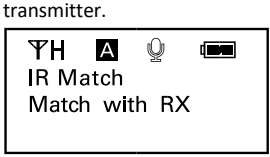
① Using infrared transmission to transfer the frequency set on the receiver to a transmitter.

For the TX9 and TX-XLR9

- Turn on the transmitter by long pressing the power button.
- U se the + or – button to display the “Match with TX” menu on receiver.



- U se the + or – button to display the "Match with RX" menu on transmitter.

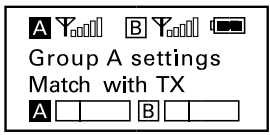


- B oth long press the SET button to select the menu and short press it to confirm.
- P lace the infrared transmitter port on the receiver near the infrared detector on the transmitter.

- If "Sync finished!" displayed on the LCD screen, the frequency for use on the transmitter is set.
- A fter matching successfully, press the SET button of receiver to return to the previous menu.

For HU9

- Turn the transmitter power on.
- U se the + or – button to display the "Match with TX" menu on receiver.

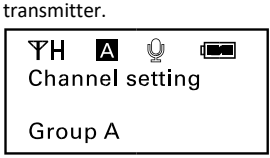


- P lace the infrared transmitter port on the receiver near the infrared detector on the transmitter.
- I f sync successfully, the group and channel of HU9 are the same as the receiver's.
- A fter matching successfully, press the SET button of receiver to return to the previous menu.

Note: When using the infrared link, please place the receiver and transmitter within about 20cm of each other within 20 seconds. After 20 seconds have elapsed, the infrared transmission finishes and the display returns to the previous menu.

② Manually setting the transmitter channel (Only available on the UwMic9-TX9 and the UwMic9-TX-XLR9

- Turn on the transmitter by long pressing the power button.
- Use the + or – button to display the channel setting menu on the transmitter.



- Long press the SET button to select the menu.

- Use the + or – button to select the same channel as the receiver and confirm it by short pressing the SET button. **6 Attach the accessories you need for the receiver and transmitter. Refer to "Attaching Accessories" (page 4, page10 and page18).**

7 You are ready to record.

Specification

Receiver RX9

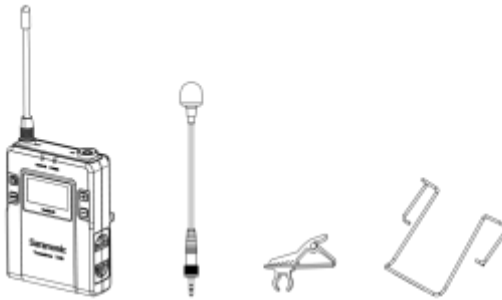
Channel number	96
Channel group	A and B
Oscillator type	PLL synthesizer
Audio output connector	3.5 mm mini jack
Antenna	1/4λ wire antenna
Audio output level	–60 dBV
Headphone output level	30mW (16 Ω)
Receive frequencies	514.56 MHz-595.46 MHz
Receive sensitivity	-95 dBm
Signal to noise ratio	70 dB or 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
Weight	Approx. 218.7g (excluding batteries)
Battery	Two AA size batteries
Dimensions	170.9 × 63.5 × 30.0 mm
Operating temperature	0 °C to 50 °C
Storage temperature	–20 °C to +55°C

Transmitter TX9, HU9 and TX-XLR9

Channel number	96
Channel group	A or B
Oscillator type	PLL synthesizer
Carrier frequencies	514.56 MHz-595.46 MHz

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	TX9: 3.5mm mini jack
	HU9: none
	TX-XLR9: XLR-3-11C type (female)
Reference audio input level	–60 dBV (MIC input, 0 dB attenuation)
Distortion	0.5% or less
Weight	TX9: Approx. 211.4g (excluding batteries)
	HU9: Approx. 338.2g (excluding batteries)
	TX-XLR9: Approx. 138g (Excluding batteries)
Battery	Two AA size batteries
Dimensions	TX9: 170.9 × 63.5 × 30.0 mm
	HU9: 254.0 × 52.0 × 52.0 mm
	TX-XLR9: 105.5 × 43 × 34.7 mm
Operating temperature	0°C to 50°C
Storage temperature	–20°C to +55°C

Packing list



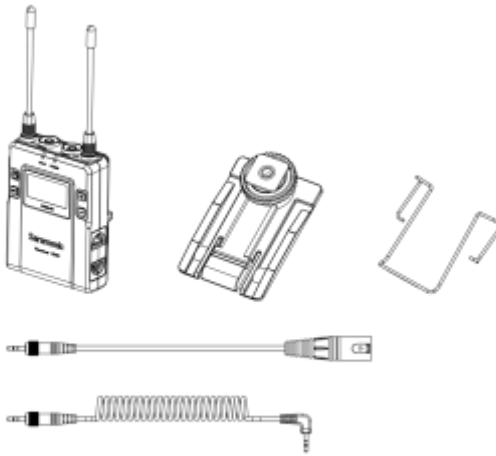
TX9

- Body-pack transmitter: TX9
- Omni-directional lavalier microphone
- Microphone holder clip
- Wind screen
- Belt clip



TX-XLR9

- Plug-on transmitter: TX-XLR9



RX9

- Portable receiver: RX9
- Shoe mount adapter
- Belt clip
- XLR to 3.5mm locking-type plug audio output cable
- 3.5mm locking-type plug audio cable



HU9

- Hand-held microphone: HU9

Warranty card

User manual