Saramonic

Dual-Channel Digital UHF Wireless Audio System for Filmmakers

双通道数字 UHF 无线麦克风系统

K9

User Manual
用户手册

Statement

Please read this manual carefully before using the product and strictly operate & store it in accordance with the instructions. Please save the manual for your future reference. If you need further assistance than the user manual, please consult your retailer for help or email us: **support@saramonic.com.**

Cautions

1. Non-professionals are strictly prohibited from disassembling this unit on their own.
2. Please keep it away from heat sources such as radiators or spotlights.
3. Do not remove the battery without professionals' help.
4. Please clean the unit with only a soft, dry cloth.
5. When using and storing, please keep away from dust and moisture.
6. For the best pick-up pattern, do not hold your hand against the microphone capsule cover.

General Introduction

Meet the Saramonic K9, our first digital UHF wireless microphone for professional filmmakers. Featuring an ultra-wide 550-960 MHz UHF spectrum and audio frequency scanning, it resists interference in crowded RF clutter. With digital transmission, a 130 dB dynamic range, and 32-bit float onboard recording, the system captures detail-rich recordings and ensure safe backup. Timecode-enabled, K9 syncs with cameras down to the frame, eliminating manual syncing in post-production. The Ø3 mm ultra-miniature lav mic delivers unmatched durability, and flawless sound in any environment. With Saramonic System, all info and configurations are taps away on the phone, giving recordists easy full control.

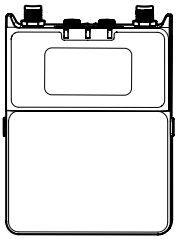
Features

1. Ultra-wide 550-960 MHz UHF for anti-interference performance across the globe
2. High dynamic range (130 dB input & 120 dB analog output) and digital transmission for uncompressed recordings
3. 32-bit float onboard recording* with 32 GB storage for secure backup
4. Timecode sync - wirelessly via Saramonic System or wired via 3rd-party TC box
5. Saramonic System - up to 48 devices' control and info hub on your phone
6. IFB allows directors to monitor actor sound in real-time without waiting for playback

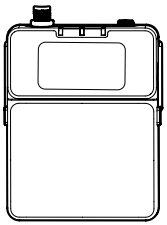
* K9 systems sold and operated in the US cannot transmit wirelessly and record simultaneously.

Contents

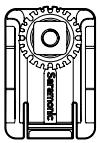
What's in the Box



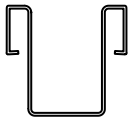
Receiver (K9RX) ×1



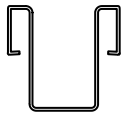
Transmitter (K9TX) ×2



Cold Shoe Mount ×1

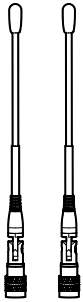


Belt Clip for RX ×1



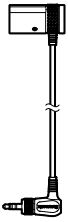
Belt Clip for TX ×2

Lavalier Microphone × 2

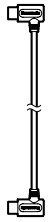


SMA Elbow Antenna × 2

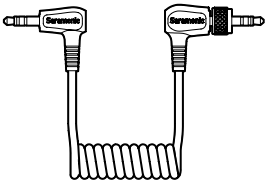
SMA Antenna × 2



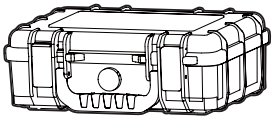
3.5 mm TRS to XLR Audio Cable × 2



USB-C to USB-C Data Cable × 1



3.5 mm TRS to TRS Audio Cable × 1



Portable Carrying Case × 1

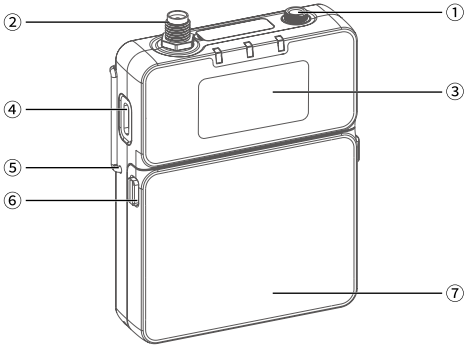
Foam Windscreen for Lavalier Microphone × 2
Fur Windshield for Lavalier Microphone × 2
Microphone Clip × 2
Weather-Sealed Carrying Case for Lavalier Microphones × 1
Lithium Iron Battery Pack × 3
USB-C to USB-A Adapter × 1
32 GB MicroSD Card × 2
QR Code Card for Instructions × 1
QR Code Card for APP Installation × 1
Antenna Length and Frequency Description Card × 1
Colored Tag for Transmitter × 16
Colored Tag for Receiver × 16

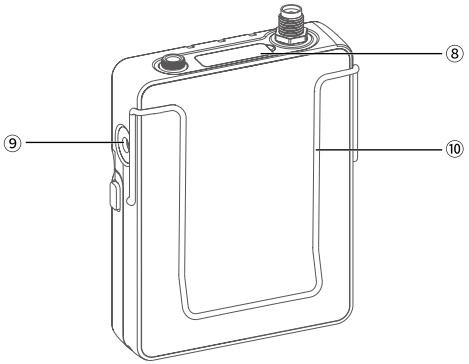
Sold Separately

3.7V Lithium Rechargeable Battery
8-Bay Battery Charger
DC Power Adapter
US, EU, and CN Adapter Plugs

Product Overview

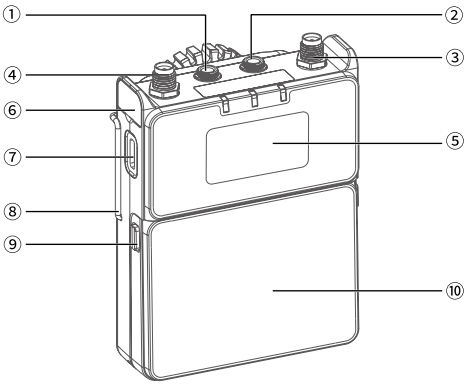
Transmitter (K9TX)

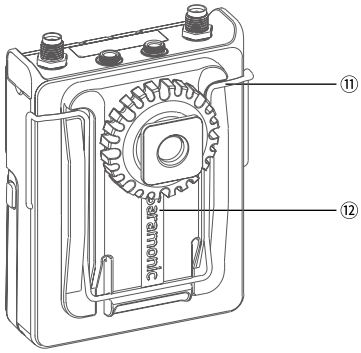




① MIC / LINE IN
② Antenna Socket
③ Screen
④ USB-C Port
⑤ Belt Clip Hole
⑥ Battery Compartment Switch
⑦ Battery Compartment Cover
⑧ Colored Tag
⑨ Monitor Port
⑩ Belt Clip

Receiver (K9RX)

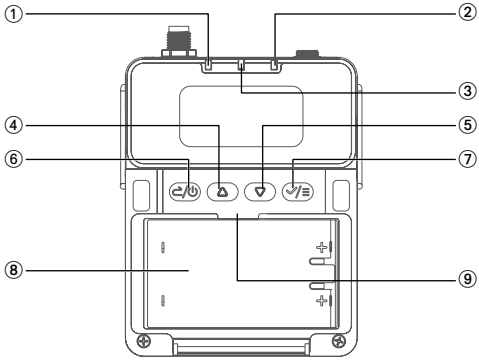




① 3.5 mm Audio Output A
② 3.5 mm Audio Output B
③ Antenna Socket
④ Antenna Socket
⑤ Screen
⑥ Colored Tag
⑦ USB-C Port
⑧ Belt Clip Hole
⑨ Battery Compartment Switch
⑩ Battery Compartment Cover
⑪ Belt Clip
⑫ Cold Shoe Mount

Buttons and LED Information

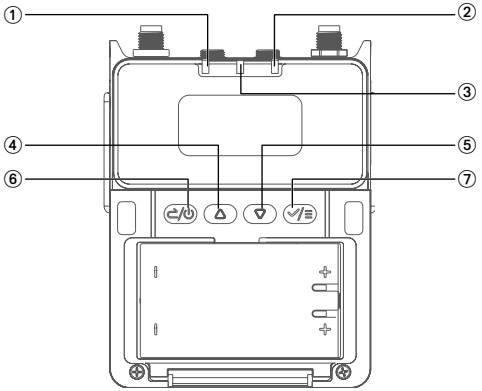
Transmitter (K9TX)



① **REC (RECORDING) LED:** glows solid red when the TX is recording.
② **AUDIO (VOLUME) LED:** its brightness and color vary in real time from the current volume level. The higher the volume, the brighter this LED. The color of this LED corresponds to the volume value of the level meter displayed on the screen. When the value is between -40 dB and -10 dB, the LED is blinking blue. When the volume is between -10 dB and 0 dB, the LED is blinking red. When the microphone is muted, the LED is solid red.
③ **POWER LED:** glows solid blue when the battery level is enough; glows solid red in low battery.

④ **Up Button:** press this button once to select relevant settings and adjust values; on the home screen, press and hold the up button to enter the recording page.
⑤ **Down Button:** press this button once to select relevant settings or adjust values; on the home screen, press and hold the down button to enter the timecode setting page.
⑥ **Power Button / Back Button:** press and hold for 2 seconds to power on or off. When the screen is on the home screen, press it once to enable or disable the mute function of the TX. This button doubles as a back button, a short press will return to the previous page.
⑦ **Menu Button / Confirm Button:** press it once to enter menus or confirm the selected items.
⑧ **Battery Compartment**
⑨ **SD Card Slot**

Receiver (K9RX)

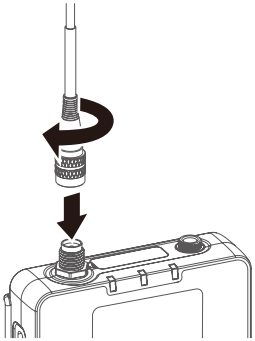


① **TX1 VOLUME LED:** its brightness and color vary in real time from the corresponding transmitter's volume level. The higher the volume, the brighter the LED. When the value is between -40 dB and -10 dB, the LED is blinking blue. When the volume is between -10 dB and 0 dB, the LED is blinking red.
② **TX2 VOLUME LED:** its brightness and color vary in real time from the corresponding transmitter's volume level. The higher the volume, the brighter the LED. When the value is between -40 dB and -10 dB, the LED is blinking blue. When the volume is between -10 dB and 0 dB, the LED is blinking red.
③ **POWER LED:** glows solid blue when the battery level is enough; glows solid red in low battery.
④ **Up Button:** press once to select relevant settings and adjust values; on the home screen, press and hold the up button to set the gain of audio output A.
⑤ **Down Button:** press once to select relevant settings or adjust values; on the home screen, press and hold the down button to set the gain of audio output B.
⑥ **Power Button / Back Button:** press and hold for 2 seconds to power on or off. This button doubles as a back button, a short press will return to the previous page.
⑦ **Menu Button / Confirm Button:** press it once to enter menus or confirm the selected items.
⚠ **Note: When audio output B is set as monitor mode, a short press of the up or down button directly adjusts the monitor volume.**

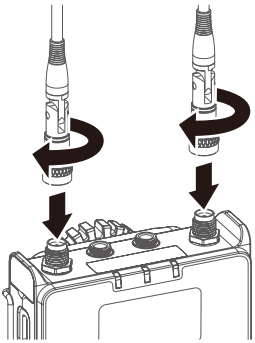
Installation and Connection

Antenna Installation

Screw the SMA antenna into the antenna socket of the TX as shown in the figure below.

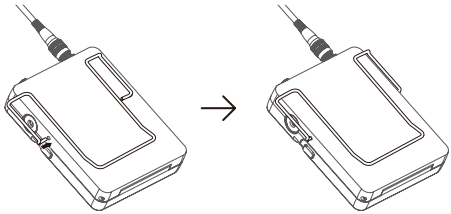


Screw the SMA elbow antennas into the antenna sockets of the RX as shown in the figure below.



Belt Clip Installation

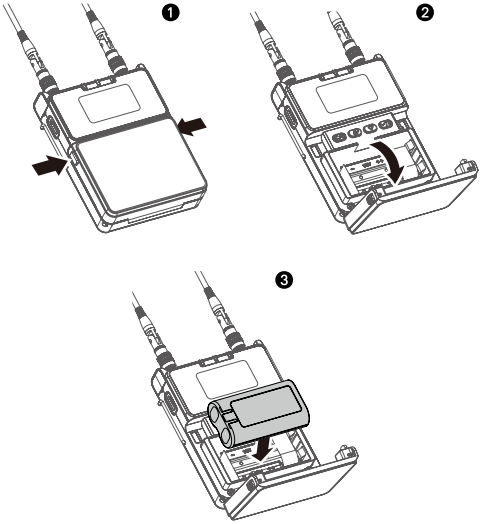
As shown in the figure, align the belt clip with the holes on both sides of the transmitter and receiver. Insert one end of the belt clip into one hole, then insert the other end into the other hole.



⚠ Note: The receiver's belt clip is slightly larger than the transmitter's. Please make sure to distinguish between them when using.

Battery Installation

Simultaneously press the two switches to open the battery compartment cover and insert the batteries as indicated in the battery compartment. Note that observe correct polarity. Finally, close the battery compartment cover, which locks into place with an audible click.

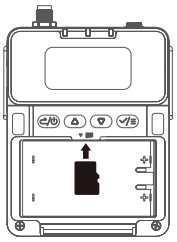


⚠ Warning

- When using external batteries, select the battery type in both the transmitter and receiver for accurate battery level display.
- When not using the device for an extended period, remove the batteries to prevent them from leaking.
- Always use sets of the same type of battery. Do not use batteries of different types or batteries with different charge levels together.

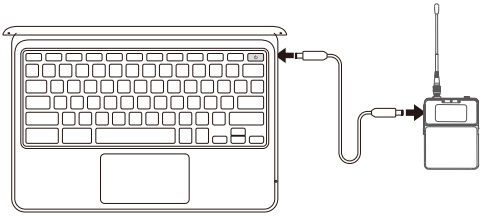
Inserting MicroSD Card

Simultaneously press the two switches on the TX to open the battery compartment cover, where you will find the SD label indicating its slot location. If the battery has not been installed, you can insert the MicroSD card directly into the TX. If the battery is already installed, you will need to remove the battery first.



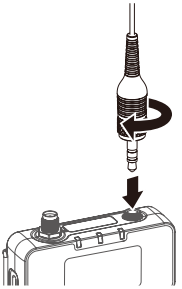
Reading Audio Files

Navigate to the “Read” menu (please refer to page 15) on the TX, and connect the USB-C port on the side of the TX to your computer using the USB-C to USB-C data cable to access and download the audio files stored on the MicroSD card. You will fail to access the audio files if you do not operate the TX to enter the “Read” menu, and its USB-C port will only support powering the device.

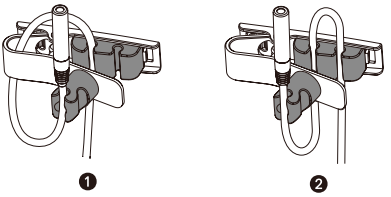


Connecting Microphone

Connect the lavalier microphone to the 3.5 mm audio input on the top of the TX. The lavalier microphone features a locking connector, and you need to rotate it to ensure the microphone is securely attached to the TX.

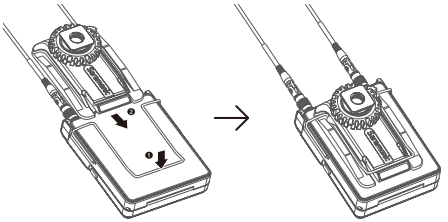


Connecting Microphone Clip



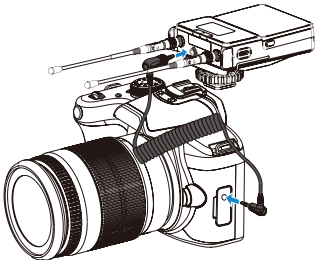
Install Cold Shoe Mount

Once the belt clip is installed, attach the cold shoe mount to the RX. Gently press the bottom of the belt clip, align the cold shoe mount with it as shown in the figure below, then slide down the cold shoe mount into place until you hear an click.

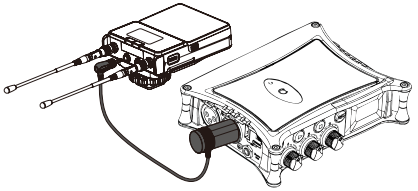


Connecting Recording Device

To record and transmit audio to a recording device such as a recorder, camera, or computer, connect the audio output A or B of the RX to the microphone port of the recording device using the included audio cable as shown below. K9 provides several audio cables featuring diverse connectors, please select an appropriate audio cable according to the port of the connected device.

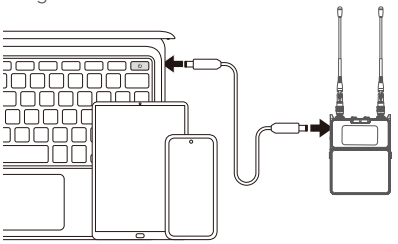


Connect to Camera



Connect to Recorder

Connect the USB-C port of the RX to a smartphone or computer using the included USB-C to USB-C data cable, enabling real-time audio transmission to the recording device.



Connect to Smartphone or Computer

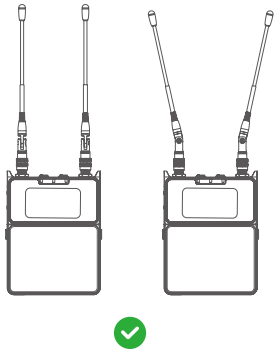
⚠ TIP: K9 provides a USB-C to USB-A adapter for connecting a computer without a USB-C port.

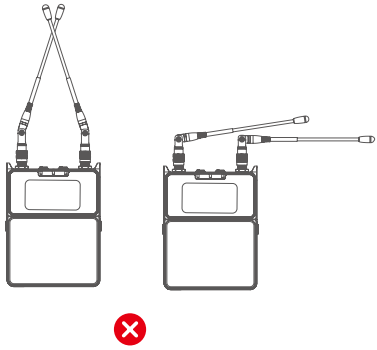
Antenna Angle

The SMA elbow antennas of the RX can be adjusted. For optimal signal reception, it is recommended to adjust the receiver antennas according to the following guidelines:

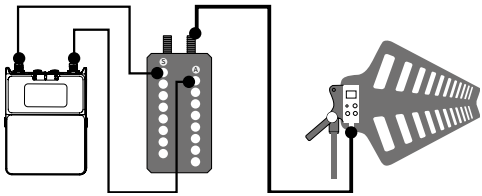
• Keep the antennas vertical or angled outward (as shown in the figure below).

• Avoid crossing the antennas or folding them completely against the side of the device (as shown in the figure below).





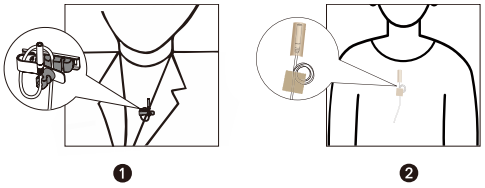
The method of connecting a receiver to an external RF muti SMA and antenna (not included) is as follows



⚠ Warning

Incorrect antenna positioning may result in signal attenuation or interference. Please follow the recommended instructions carefully.

Attach the Lavalier Microphone



Operation Guide

1. Activation (Applicable to the K9 Standard Version Only)

When using the K9TX and K9RX for the first time, please connect the K9 device to the mobile phone app “Saramonic System” for activation.

• When powering on the K9TX and K9RX for the first time, the QR code for downloading this app will appear on the K9 device's screen.

• If you have already installed the app, you can launch it directly and add the K9TX and K9RX to the device list via "Add Devices." The app will then automatically assign a legally compliant frequency band to the device based on your smartphone's location information. Once the frequency band has been successfully assigned, the K9 device will be activated and ready for use.

• If location permissions are not enabled on your smartphone, the app will fail to assign the correct legal frequency band, preventing the K9 device from functioning properly.

Solution for Unable to Search for the Device

If you are unable to search for the K9 when adding a new device in the Saramonic System app:

• Select the "BT - RESET" button on the device screen.

• Press the confirm button to reset the device’s Bluetooth.

• Make sure that Bluetooth is enabled on your smartphone, then try searching for the device again in the app and reconnect.

2. Device Network Construction

① Enable Bluetooth on your mobile device and reset the Bluetooth on the K9 device.

② In the "All Devices" page of the Saramonic System app, tap the "+" button to add a device. The app will search for nearby pairable devices.

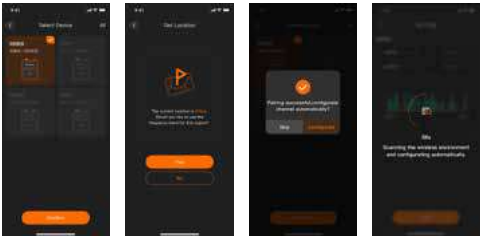
③ After selecting the target device, tap "Confirm" to establish a device network.

④ After the device network is established, the Saramonic System app will identify the devices to be activated and prompt you to enter the activation page, where you can choose whether to activate the device.

• If activated, the app will determine the local legal frequency band based on your smartphone's current location, and you can select an appropriate frequency band as needed.

• The device will then be added to the device list.

⑤ Once the device network is established, the app will prompt you to decide whether to assign frequency points automatically. You can either enter the device list immediately or allow the system to auto-assign frequency points.



Important Note

If you are using the K9 Standard Version in the United States, after the device accesses the local legal frequency band through the app, the onboard recording and wireless transmission cannot be used simultaneously.

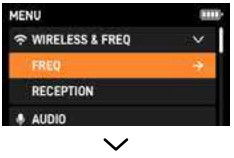
3. Frequency Settings

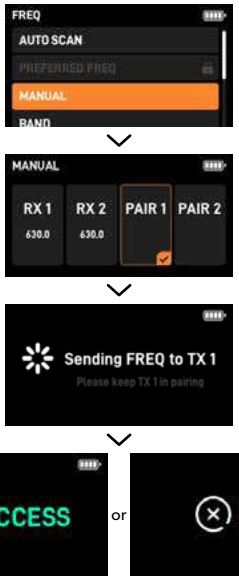
Networking Method I: Operate the K9TX and K9RX to get into pairing mode simultaneously.

K9RX:

Enter the K9RX menu, go to “WIRELESS & FREQ > FREQ > MANUAL”, and select the channel corresponding to the K9TX you want to pair with (PAIR 1 or PAIR 2, corresponding to Pair TX1 or Pair TX2).

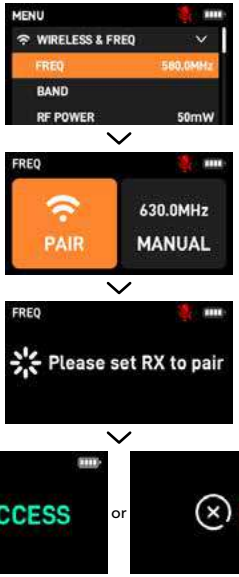
The following is an example of pairing with the TX1: select "PAIR 1" and press the confirm button once to initiate the RX’s pairing with the TX1. The screen will display “SUCCESS" if the pairing is successful, and it will display "FAIL" if the pairing fails. Please repeat the pairing steps above or check whether the antenna is installed correctly.





K9TX:

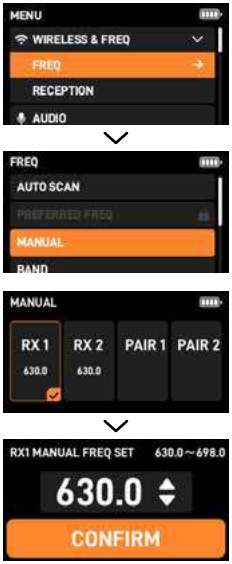
Enter the K9TX menu, go to “WIRELESS & FREQ > FREQ > PAIR”, and press the confirm button once to initiate the TX’s pairing mode. The screen will display “SUCCESS" if the pairing is successful, and it will display "FAIL" if the pairing fails. Please repeat the pairing steps above or check whether the antenna is installed correctly.



Networking Method II: Set the K9TX and K9RX to the same frequency point manually.

K9RX:

Enter the K9RX menu, go to “WIRELESS & FREQ > FREQ > MANUAL”, and select the channel corresponding to the K9TX you want to pair with (RX 1 or RX 2).
The following is an example of pairing with the TX1: select "RX 1" and press the confirm button once to enter the frequency adjustment page, where you can adjust the frequency point in increments or decrements of 0.1 MHz by short-pressing the up or down buttons, or quickly adjust the value to a clean, usable frequency by long-pressing the up or down buttons.



K9TX:

Enter the K9TX menu and go to “WIRELESS & FREQ > FREQ > MANUAL”. In this menu, you can adjust the frequency point in increments or decrements of 0.1 MHz by short-pressing the up or down buttons, or quickly adjust the value to a clean, usable frequency by long-pressing the up or down buttons. Once the frequency values for the corresponding channels on the K9TX and K9RX are adjusted to be the same, the pairing networking will be complete.

4. Transmitter Menu Introduction

The transmitter screen provides a quick access to its status information. The screen view may differ slightly from the illustrations in this User Manual due to the ongoing product updates. Please refer to the actual device.

Buttons for Navigating Menu

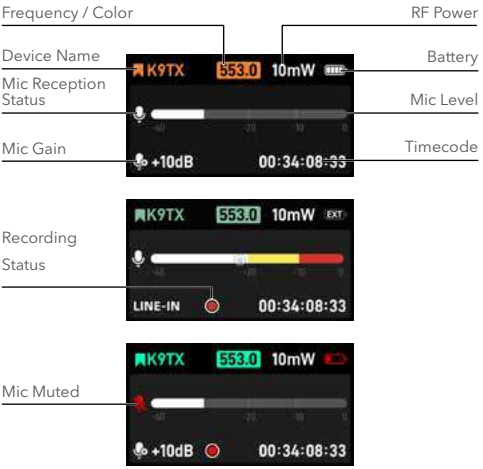
Use the following buttons to navigate through the transmitter's menu.

Menu Button / Confirm Button: Jumps from the home screen to menus; access a menu item; saves settings.

Up or down buttons: Selects a menu item; adjusts values or changes settings.

Back button: Changes to the previous page.

(1) Home Screen



⚠ Note: If the battery is not installed, directly connecting a USB-C to USB-C data cable to the transmitter's USB-C port for charging, or use dry batteries for power will cause the battery icon to change to EXT.

(2) Shortcut Menu

• Recording

When the TX is on the home screen, you can press and hold the up button to quickly enter the REC (recording) page, where a short press of the confirm button will start the audio recording. If you press the confirm button again during the recording process, a prompt will appear on the screen asking "Are you sure to stop recording?". At this point, selecting CONFIRM and pressing the confirm button will stop recording.

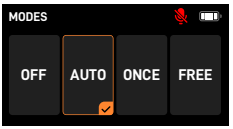
•Timecode Sync

When the TX is on the home screen, you can press and hold the down button to enter the TC SYNC (Timecode Sync) page, where a short press of the up or down button will allow you to select the corresponding setting options, and a short press of the confirm button will enter the sub menu. When connecting to an external timecode device, the screen will display the external timcode data.

☑ Select "23.98"

Enter this menu option to set the framerate for timecode as 23.98, 24, 25, 29.97, 29.97DF and 30. DF stands for drop frame. The default framerate is 25. It is recommended to set a suitable framerate according to the framerate of the timecode from the external device.

☑ Select “AUTO”



Enter this menu option to adjust timecode modes, which can be configured to off, auto, once, or free mode.
OFF: Disables the timecode.
AUTO: The default setting, which automatically recognizes and syncs wired or wireless timecode.
ONCE: Automatically syncs the timecode information once and locks it; it will not sync again until the mode is switched, which will unlock it.
FREE: The time information set on the current device acts as the timecode; it does not support resetting the timecode and does not accept external timecode signals.

☑ Select “SYNC”

When the device is in "OFF" or "FREE" mode, the "SYNC" option will appear greyed out, indicating that the device cannot be synchronized by an external timecode signal. When the timecode mode is set to "AUTO" or "ONCE", the "SYNC" option will become active (white), indicating that the device can be synchronized by an external timecode signal.

☑ Select "GROUP"

Enter this menu option to set the timecode channel. To facilitate the management of Saramonic timecode, the K9 device offers eight timecode sync groups, labeled A-H. Only devices within the same group can sync timecode.

☑ Select "SET"

Enter this menu option to adjust the timecode data. You can manually customize the initial timecode, and start the timecode operation. Use the up and down buttons to select the reset icon ↻, then press the confirm button to reset the timecode to "00:00:00:00".

☑ INPUT MODE

Enter this menu option to select either MIC IN or USB-C IN as the timecode input mode. This feature is designed to improve efficiency when synchronizing with third-party timecode, reducing the need for frequent microphone unplugging. It is recommended to use USB-C IN to avoid conflicts with MIC IN.

• Audio Gain

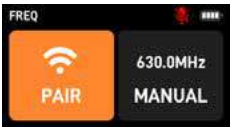
On the home screen, press the up button to set the mic gain in 1 dB increments, or press the down button to set the mic gain in 1 dB decrements. Moreover, each increment or decrement in 1 dB can be set to 3 dB per adjustment in the Saramonic System app.

(3) Operating Menu

Press the menu button to enter the operating menu, select various menu options by pressing the up or down button, and then press the confirm button to enter the selected menu option or confirm the selected items.

Wireless and frequency

•Frequency



☑ Select "PAIR", and press the confirm button to put the TX into pairing mode. Then the TX attempts to pair with the RX. If the RX also enters pairing mode at the same time, the TX and RX will pair with each other successfully.

☑ Select "MANUAL", and press the confirm button to enter the "MANUAL SET" menu. Use the up and down buttons to set the TX frequency point. If both the RX and TX are set to the same frequency point, they will successfully pair.

• Band Range

After entering this menu, please select the appropriate frequency band according to the regulations in your area.

• RF Power

After entering this menu, the TX will automatically match the selectable RF power levels based on the chosen frequency band.

⚠ Note: In the United States, the RF and recording functions cannot be enabled simultaneously.

• Timecode Sync

For details, please refer to “Shortcut Menu> Timecode Sync” (page 11).

Audio Setting

• Audio Gain

You can press the up or down button to set the mic gain in 1 dB increments or decrements ranging from 0 dB to +30 dB.

• In Signal

After entering this menu, you can select the microphone's power supply voltage according to your needs or switch the input signal to "LINE" input.

•Low Cut

In this menu, you can select the low cut value as needed or disable the low cut function.

• Monitor

☑ The monitor function is enabled by default. Select "ENABLE", and press the confirm button to turn the monitor switch off or on. Once the monitor is enabled, plug your headphones into the monitor jack on the TX side to monitor the recording in real time.

☑ Select "OUTPUT VOLUME", press the confirm button, and then use the up and down buttons to adjust the output volume ranging from level 1 to level 11.

Recording and Files

• Recording

For details, please refer to “Shortcut Menu > Recording” (page 11).

• Recording Modes

☑ In this menu, you can set the recording bit rate, selecting between "24" (24-bit) or "32F" (32-bit float recording) formats.

☑ You can also set the default recording mode, selecting from auto recording, manual recording, or sync recording.

① AUTO: Automatically starts recording after powering on, stops recording, and automatically saves the recording file upon powering off.

② MANUAL: Manual recording status, which is the default setting.

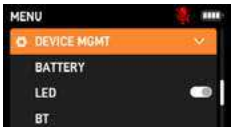
③ SYNC: Automatically starts recording after timecode sync.

⚠ Note: In the United States, the RF and recording functions cannot be enabled simultaneously.
When the recording status is set to sync recording, the recording will start automatically after manual recording + timecode sync. When the sync recording is turned off, the audio recording will not automatically start after synchronizing the timecode. If the device is recording during timecode sync, you must stop recording first before proceeding with timecode sync. After sync, The recording will not start automatically.

• Recorded Files

You can view and playback the recorded files stored on the recording card. Files recorded on the current day can be accessed.

Device Management



• Battery

Please select the battery type according to the actual usage in order to provide a more accurate battery level indication.
⚠ Note: The battery characteristics change according to battery type and environmental conditions. It is recommended that you understand the battery characteristics before using them.

• LED

You can turn on or off the three LED indicators on the device as needed. Select the "LED" and press the confirm button to toggle the LED indicators on or off.

• Bluetooth

☑ Select "ENABLE", then press the confirm button to turn Bluetooth on or off. Bluetooth is turned on by default.
☑ Select "RESET", then press the confirm button to reset Bluetooth. A prompt will appear upon successful reset.
⚠ Note: the MAC address is the physical Bluetooth address of the current device, which serves as a unique identification from the factory, allowing differentiation between devices when the mobile phone is connected with Bluetooth.

• System

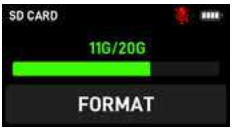
☑ Auto Screen Off

You can set the auto screen-off time during inactivity. Four options are available: never, 15 seconds, 1 minute, and 5 minutes. The system defaults to 15 seconds. After you adjust this setting, the system will retain it.

☑ Brightness

You can adjust the screen brightness across 5 levels. The configurable values are given as follows: (Dark) 1 2 3 4 5 (Bright). The default brightness setting is 5. Once adjusted, the system will retain your setting.

☑ SD Card



Access this menu for storage space usage view. After selecting "FORMAT" and confirming, the system will format the SD card.

⚠ Note: To enhance recording stability, it is recommended to format the SD card after inserting it into the device before use.

☑ Read

Enter the read menu, and connect the USB-C port on the side of the TX to your computer using the included USB-C to USB-C data cable to transfer the recorded files.

☑ Shortcut

You can enable or disable the shortcut button function on the home screen.

① When the “MUTE” shortcut is enabled and the TX screen is on the home screen, a short press of the power button will quickly mute or unmute the TX.

② When the “REC/TC” (recording/timecode) shortcut is enabled and the TX screen is on the home screen, a long press of the up button will quickly enter the recording page, while a long press of the down button will quickly enter the timecode page.

③ When the “GAIN” shortcut is enabled and the TX screen is on the home screen, pressing the up button will quickly increase the mic gain; pressing the down button will quickly decrease the mic gain.

☑ Date and Time

In this menu, you can customize the current date and time of the device. Select an item, press the confirm button once to access its sub menu, and use the up and down buttons to adjust the time digits. Then press the confirm button to save the updated time value, or press the back button to revert to the previous or default time settings.

☑ Language

You can set the language displayed on the screen to either Chinese or English.

☑ System Reset

Enter this menu, select "CONFIRM", and press the confirm button to reset the device to factory settings. Resetting will only restore the device's system settings, and it will not erase the frequency data.

☑ Version

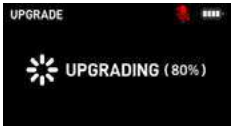
Enter this menu to view the current version, SN (serial number) information, or the date when the device version is upgraded.

☑ Upgrade

The TX can be upgraded via a SD card:

① Download the up-to-date firmware from the Saramonic official website and place it in the root directory of the SD card.

② After the SD card is inserted into the TX, select the "SD CARD" option in the "UPGRADE" menu, then select "CONFIRM" and press the confirm button to proceed with the firmware upgrade. Once the upgrade is complete, the firmware version will display the latest version. You can access the "VERSION" option in the SYS menu to check the current firmware version information of the device.



If the SD card is not inserted into the TX or the TX cannot read the upgrade files from the SD card, a prompt of "NO SD CARD" will appear on the screen. Please check whether the SD card is properly inserted into the device and ensure that the upgrade files on the SD card are complete and placed in the required location.

•Device Name

In this menu, you can customize the device name. Use the up and down buttons to select the character you want to adjust, and then press the confirm button to save the adjustment.

5. Receiver Menu Introduction

The receiver screen provides a quick access to vital information on the receiver as well as the connected transmitter status. The screen view may differ slightly from the illustrations in this User Manual due to the ongoing product updates. Please refer to the actual device. The following is an example of the receiver screen when the receiver is connected to two transmitters at the same time.

Buttons for Navigating Menu

Use the following buttons to navigate through the receiver's menu.

Menu Button / Confirm button: Jumps from the home screen to menus; access a menu item; saves settings.

Up or down buttons: Selects a menu item; adjusts values or changes settings.

Back button: Changes to the previous page.

(1) Home Screen

① The device name and battery information of RX

K9RX	RX Device Name
	RX Battery

② / ③ The device information of TX1 / TX2

TC	The timecode of TX1/TX2 has been synchronized by an external timecode
	The Connection Signal Strength of TX1 / TX2
	The Battery of TX1 / TX2
553.0	The Frequency of TX1 / TX2
	The Recording Status of TX1 / TX2
	The Level of TX1 / TX2
	The Mic Reception Status of TX1 / TX2

⚠ Note: If the battery is not installed, directly connecting a USB-C to USB-C data cable to the receiver's USB-C port for charging, or use dry batteries for power will cause the battery icon to change to EXT.

(2) Auxiliary Screen

The auxiliary screen is designed to allow the user to quickly glance at the connection signal strength and battery status displayed, without removing the receiver from the recording bag. The auxiliary screen automatically powers on and off in sync with the the receiver.

1*TX+1*RX

2*TX+1*RX

• Signal Priority

In the signal priority page, the sign icon is enlarged for display.

1*TX+1*RX

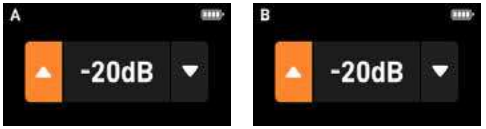
2*TX+1*RX

• Level Priority
In the level priority page, the level icon is enlarged for display.

2	TX1
	TX2
	The signal of TX1 / TX2
1	The battery of TX1 / TX2
	The level of TX1 / TX2

(3) Shortcut Menu

• Gain



When the RX screen is on the home screen, a long press of the up button will enter the output gain adjustment page for audio output A, while a long press of the down button will enter the adjustment page for audio output B. You can use the up and down buttons to adjust the values for the output gain, with a range of -20 dB to +10 dB.

• Monitor

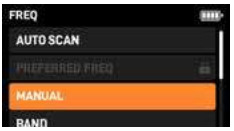
When audio output B is set to monitor mode, pressing the up and down buttons on the home screen allows you to adjust the monitor volume, which has 12-level adjustments. You can customize the volume level based on the usage scenario. Please refer to page 18, "Out Modes" for monitor mode settings.

(4) Operating Menu

Press the menu button to enter the operating menu, select various menu options by pressing the up or down button, and then press the confirm button to enter the selected menu option or confirm the selected items.

Wireless and Frequency

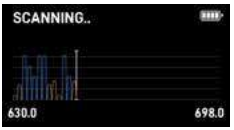
• Frequency

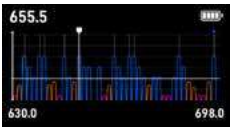


After entering this menu, you can configure the frequency-related settings.

☑ Automatic Frequency Scanning

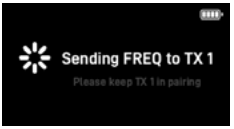
In this menu, you can scan for available wireless frequency points in the current environment and select clean, interference-free frequencies for use.





Once the scanning is complete, the optimal frequency point will be automatically assigned.

Select "CONFIRM" and press the confirm button to send the scanned frequency to the TX.



If you do not wish to use the automatically assigned frequency, you can press the back button and use the up and down buttons to select a frequency based on the scanning results, then send it to the TX for use.

☑ Preferred Frequency

After scanning, the RX will list 10 clean frequency points with less interference in the current environment. You can access the “PREFERRED FREQ”menu to select the desired frequency from the list and press the confirm button to synchronize it to the TX.

⚠ **Note: If the device has not performed a frequency scan after powering on, the preferred frequency function will be unavailable.**

① Selecting "AUTO SET" will default to the preferred frequency after scanning.

② The signal quality of the 10 listed preferred frequency points is indicated by 1 to 3 thumbs up, with 3 thumbs representing the strongest signal.

☑ Manual Set

In this menu, you can manually adjust the frequency point information for the corresponding RX channel to match the same frequency point information with the corresponding TX.

During wireless pairing, the TX must also go into the pairing page; selecting "PAIR 1" will assign the synchronized transmitter to channel A, while selecting "PAIR 2" will assign it to channel B.

☑ Band Range

After entering this menu, please select the appropriate frequency band according to the regulations in your area.

☑ Color

After entering this menu, you can choose a color label and synchronize the selected color to the paired TX, making it easier to distinguish devices that are paired and connected to the same frequency band.

• Reception

In this menu, you can press the confirm button to enable or disable the RX2 RF channels. By default, this function is fully enabled. You can disable any unnecessary RF channels based on your actual usage to reduce RF power consumption, thereby minimizing battery waste to extend the device's usage time.

Audio

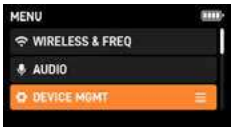
•Out Modes

Enter this menu to adjust the audio output settings for the current channel. Channel A can output audio from its corresponding channel alone, or can be set to dual-channel output where the left channel carries audio from channel A and the right channel carries audio from channel B. Channel B can also be set to output audio from its corresponding channel alone or to dual-channel output, with the left channel carrying audio from channel A and the right channel carrying audio from channel B. Additionally, channel B can be set to monitor output mode, in which case the output audio will be the same as that of channel A.

• Out Signal

In this menu, you can set the gain parameters for the audio output of the corresponding channel. The monitor volume parameters can only be adjusted when output channel B is set to monitor output mode.

Device Management



• Auxiliary Screen

The auxiliary screen is turned on by default, and automatically powers on and off in sync with the the RX. It adjusts its page according to the connected TX. Its brightness is divided into three levels: 1, 2, and 3, with level 3 being the maximum brightness, allowing the user to view the screen clearly from within 1 meter. The brightness setting defaults to the maximum. The auto screen-off time of the auxiliary screen defaults to "Never", but you can manually set it to turn off after 30 seconds. After the adjustment, the system will retain the adjusted settings even the receiver is restarted. If you conduct a system reset, the auto screen off time will revert to the default settings.

• Battery

Please select the battery type according to the actual usage in order to provide a more accurate battery level indication.

⚠ Note: The battery characteristics change according to battery type and environmental conditions. It is recommended that you understand the battery characteristics before using them.

• Sleep

In this menu, you can set the sleep function for the connected TX. In sleep mode, the TX will only maintain Bluetooth connectivity, 2.4 GHz connection, and timecode function. You can enable or disable the sleep function for RX1 or RX2. Exiting this mode will immediately wake the paired TX.

• Bluetooth

☑ Select "ENABLE", then press the confirm button to turn Bluetooth on or off. Bluetooth is enabled by default.
☑ Select "RESET", then press the confirm button to reset Bluetooth. A prompt will appear upon successful reset.
⚠ Note: The MAC address is the physical Bluetooth address of the current device, which serves as a unique identification from the factory, allowing differentiation between devices when the mobile phone is connected with Bluetooth.

• System

☑ Auto Screen Off

You can set the auto screen-off time during inactivity. Four options are available: never, 15 seconds, 1 minute, and 5 minutes. The system defaults to 15 seconds. After you adjust this setting, the system will retain it.

☑ Brightness

You can adjust the screen brightness across 5 levels. The configurable values are given as follows: (Dark) 1 2 3 4 5 (Bright). The default brightness setting is 5. Once adjusted, the system will retain your setting.

☑ Language

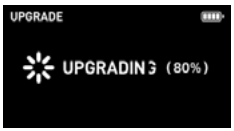
You can set the language displayed on the screen to either Chinese or English.

☑ System Reset

Enter this menu, select "CONFIRM", and press the confirm button to reset the device to factory settings. Resetting will only restore the device's system settings, and it will not erase the frequency data.

☑ Upgrade

The RX can be upgraded via its internal storage:
① Connect the RX to your computer using the included USB-C to USB-C data cable, then a window for RX internal storage will pop up on your computer. Download the up-to-date firmware from the Saramonic official website and place it in the pop-up window.
② Enter the “UPGRADE” menu of the RX, and select the "CONFIRM" option, then press the confirm button to proceed with the firmware upgrade. Once the upgrade is complete, the firmware version will display the latest version. You can access the "VERSION" option in the SYS menu to check the current firmware version information of the device.



If the RX is not connected to your computer or the upgrade files from it cannot be read, a prompt of "NO FIRMWARE" will appear on the screen. Please check whether the RX is properly connected to your computer and ensure that the upgrade files are complete and placed in the required location.

☑ Version

Enter this menu to view the current version, SN (serial number) information, or the date when the device version is upgraded

• Device Name

In this menu, you can customize the device name. Use the up and down buttons to select the character you want to adjust, and then press the confirm button to save the adjustment.

Specifications

Transmitter

RF Modulation	Proprietary Digital RF Modulation
RF Freq Range	550 MHz to 960 MHz (Assign local legal frequency bands based on the region)
RF Power	10 mW, 25 mW, 50 mW, 100 mW
RF Frequency Step	100 KHz
RF Bandwidth	200 KHz
Channel RF Spacing	700 KHz
Antenna Connector	50 Ω SMA
Dynamic Range	130 dB
Distortion	<0.5%
Frequency Response	20 Hz to 20 kHz
Low Cut	0FF, 75 Hz, 100 Hz, 150 Hz
Mic Power	MIC-3 V, MIC-5 V, LINE
Mic Connector	3.5 mm TRS
Gain Range	0 dB to 30 dB
ADC Sampling-Rate	48 KHz
Bit Depth	24 bit
Clock Accuracy	0.15 PPM (1 frame out in 48 hours)
Timecode Type	LTC (SMPTE)
Timecode Framerate	23.98, 24, 25, 29.97, 29.97DF, 30

Media	MicroSD Card (Up to 256 GB)
File Format	Wav
Sampling-Rate	48 KHz
Record Format	24-bit or 32-bit Float
EIN	-132 dBV (-130 dBu) max (A-weighting, gain= 30 dB, 150 ohm source impedance)
Power Supply	External Battery / Power
Battery Life	Up to 9+ Hours with 2 NICE AA
Dimensions (mm)	80 x 62 x 19 mm
Weight (g)	85 g (excluding batteries and antenna) 120.5 g (including batteries and antenna)
Operating Temperature	-20°C to +45°C
Storage Temperature	-30°C to +60°C

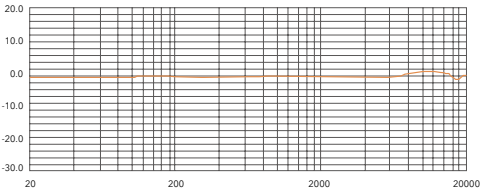
Receiver

RF Modulation	Proprietary Digital RF Modulation
RF Freq Ranges	550 MHz to 960 MHz (Assign local legal frequency bands based on the region)
RF Power	10 mW, 25 mW, 50 mW, 100 mW
RF Frequency Step	100 KHz
RF Bandwidth	200 KHz
Channel RF Spacing	700 KHz
Antenna Connector	2 x50 Ω SMA
Receiver Audio	Analog Output (x 2)
Analog Output Dynamic Range	120 dB
Distortion	<0.5%
DAC Bit-Depth	24 bit
Output Type	Mono, Stereo, Headphone
Power Supply	External Battery / Power
Battery Life	Up to 8+ Hours with 2 NICE AA
Dimensions (mm)	88.1 x 66.1 x 23.6 mm
Weight (g)	112 g (excluding batteries and antenna) 157.5 g (including batteries and antenna)
Operating Temperature	-20°C to +45°C
Storage Temperature	-30°C to +60°C

Lavalier Microphone

Polar Pattern	Omnidirectional
Max SPL	118 dB
Dynamic Range	110 dB
Sensitivity	-35 dB (1.5 V, 2.2 K, at 1 KHz)
Equivalent Noise Level of Self-Noise	Typ 25 dB (A-weighted, Equivalent Sound Pressure Level))
Signal-to-noise Ratio	>68 dB
Operating Voltage	1.3 V to 5.0 V
Frequency Response	20 Hz to 20 KHz
Distortion	<3%
Weatherproof Standard	IP67
Operating Temperature	-20°C to +70°C
Tensile Performance	≥50 N
Tensile Strength	Maximal pulling force ≥50 N
Electromagnetic Interference Resistance	Passed EMI testing, suitable for complex environments such as stages and lighting interference scenarios
Weight	11 g
Cable Length	1.8 m
Mic Head Size	Ø 3mm*17.5mm
Connector	Locking 3.5 mm
Mic Input Compatibility	Locking 3.5 mm TRS with Sennheiser Pin-Out

Frequency Response



声明

请在使用前仔细阅读本手册，并严格按照说明进行操作和存储。请妥善保存好说明书以供将来参考。如果用户手册不能帮助您解决某些问题，请向零售商寻求帮助或给我们发送电子邮件：support@saramonic.com

注意事项

1. 请勿擅自拆开机壳；
2. 请勿将本机靠近热源，如散热器、聚光灯或其他产生热量的设备。
3. 电池不可自行更换。
4. 请使用柔软的干布清洁本设备。
5. 在使用和储存时，请注意防尘和防潮。
6. 为获得最佳拾音效果，请勿将手放在麦克风咪头上。

概述

K9，枫笛首款双通道 UHF 数字无线麦克风，采用 550-960 MHz 超宽频 UHF，自动扫频，实现超强抗干扰性能，应对各类复杂环境音频录制。130 dB 超大动态范围，内置时间码接收功能简化多机位音频同步，32-bit 浮点内录，确保音频安全备份，细腻呈现层次细节。K9 搭配 Ø3 mm 超微型领夹麦克风，大隐于形，三防性能无惧严苛环境，为专业录音提供顶级表现。搭载 Saramonic System 可视化交互系统，辅助创作全程高效、精准。枫笛 12 年音频工程技术匠心之作，K9 助力专业录音师实现更高品质无线音频体验。

特点

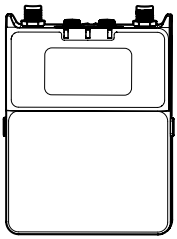
1. 550-960 MHz 超宽频 UHF，全球频段稳定覆盖
2. 130 dB 输入 +120 dB 模拟输出动态范围，数字传输，收音更真实更细腻
3. 32-bit 浮点内录*，搭配 32 GB 内存，修复突发爆音和低音细节
4. 时码功能，支持 Saramonic System 无线同步，支持第三方时码器有线输入
5. Saramonic 音频师系统，支持 GPS 改频、设备分组、一键休眠、固件升级等智能控制
6. IFB 返送功能，能让导演实时监听演员声音，无需等待回放

* 美国购入的 K9 系统无法同时在美无线传输和内录。

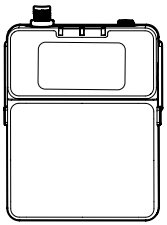
目录

配件清单

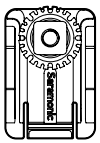
标配



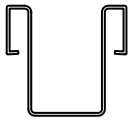
接收机（K9RX）（1）



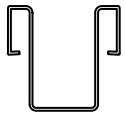
发射机（K9TX）（2）



冷靴扣板（1）

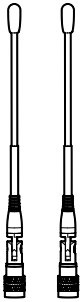


RX 钢丝背夹（1）



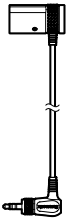
TX 钢丝背夹（2）

领夹麦（2）

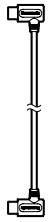


SMA 弯头天线（2）

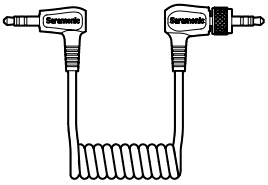
SMA 鞭状天线（2）



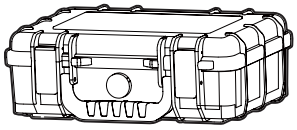
3.5 mm TRS 转
XLR 音频线（2）



USB-C 转 USB-C
数据线（1）



3.5 mm TRS 转 TRS 音频线（1）



便携式收纳箱（1）

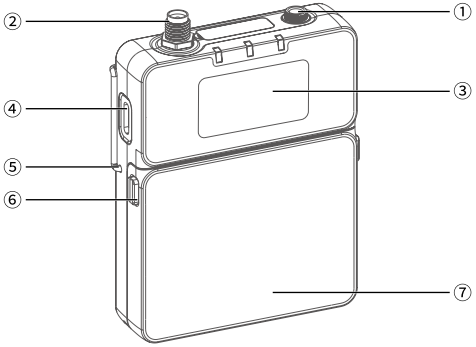
领夹麦防风海绵、防风毛套、麦克风夹（2）
领夹麦收纳盒（1）
锂铁电池组（3）
USB-C 转 USB-A 转接头（1）
32GB MicroSD 卡（2）
操作指引二维码纸卡（1）
APP 下载二维码纸卡（1）
天线长度频率描述纸卡（1）
TX 色片（16）
RX 色片（16）

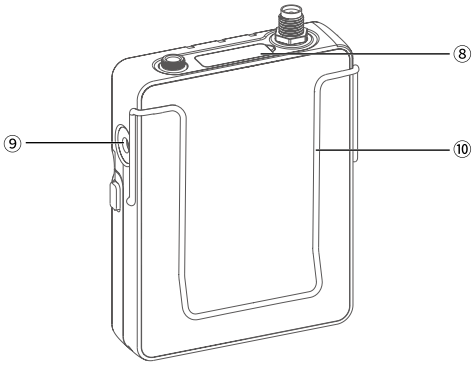
选配

3.7V 充电锂电池
8 口充电座
适配器
转接头

产品结构

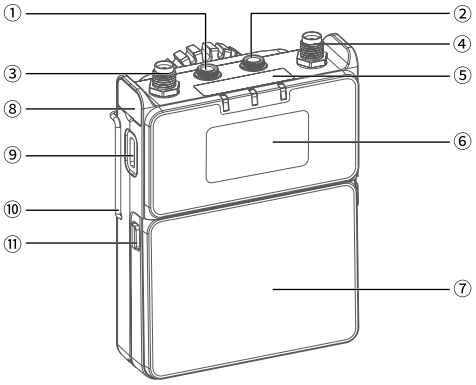
发射机（K9TX）

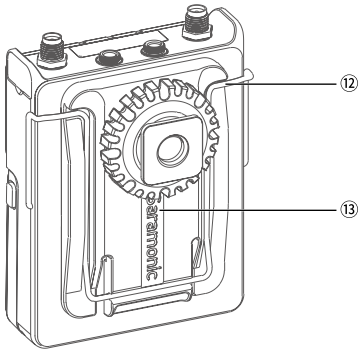




① MIC/LINE IN 音频输入接口
② SMA 天线座子
③ 显示屏
④ USB-C 接口
⑤ 钢丝背夹安装孔
⑥ 电池仓开关按钮
⑦ 电池仓保护盖
⑧ 色片
⑨ 监听接口
⑩ 钢丝背夹

接收机（K9RX）

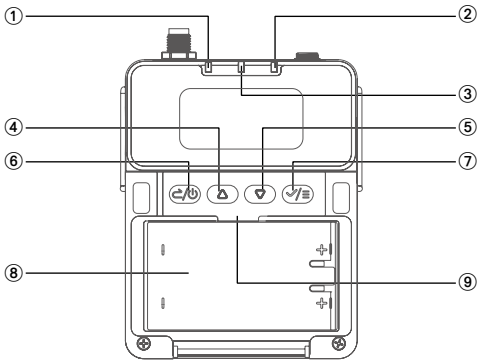




① 3.5 mm 音频输出口 A
② 3.5 mm 音频输出口 B
③ SMA 天线座子
④ SMA 天线座子
⑤ 副屏
⑥ 显示屏
⑦ 电池仓保护盖
⑧ 色片
⑨ USB-C 接口
⑩ 钢丝背夹安装孔
⑪ 电池仓开关按钮
⑫ 钢丝背夹
⑬ 冷靴扣板

按键与指示灯信息

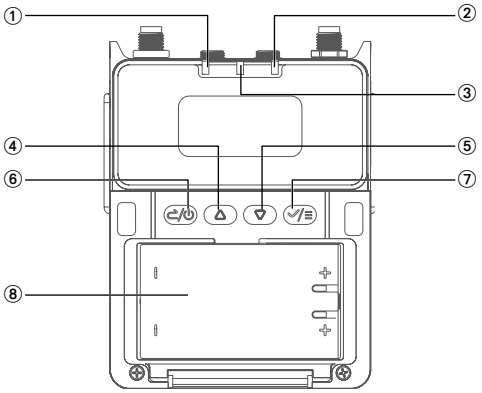
发射机（K9TX）



① REC（录音）指示灯
TX 正在录音时，该指示灯保持红灯常亮。
② AUDIO（音量）指示灯
亮度和颜色随当前音量大小实时变化。音量越大，指示灯亮度越高。
指示灯颜色与屏幕上的电平表音量数值相对应，当发射机显示屏显示音量为 -40 dB 至 -10 dB 时，该指示灯呈蓝灯闪烁。当音量为 -10 dB 至 0 dB 时，该指示灯呈红灯闪烁。如果麦克风设置为静音状态，该指示灯呈红色常亮。
③ POWER（电源）指示灯
电量正常时，呈蓝灯常亮；低电量时，呈红灯常亮。

④ **上按键**
短按向上选择菜单内的选项或调整数值；长按进入录制界面。
⑤ **下按键**
短按向下选择菜单内的选项或调整数值；长按进入时间码设置界面。
⑥ **电源键 / 返回键**
长按 2 秒开机或关机；
当显示屏处于主界面时，短按此键将 TX 静音或取消静音；
当显示屏处于其他界面时，短按此键返回上一页。
⑦ **菜单键 / 确认键**
短按进入菜单或确认所选择的内容。
⑧ **电池仓**
⑨ **SD 卡槽**

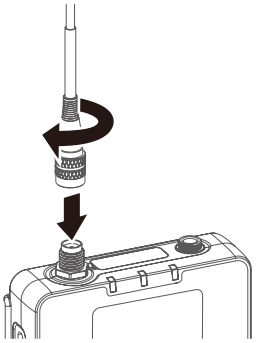
接收机（K9RX）



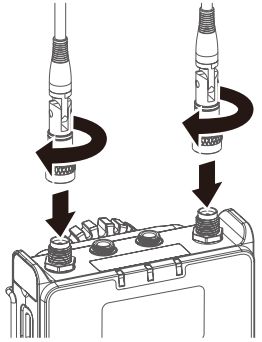
① **TX1 音量指示灯**
亮度和颜色随 TX 的音量大小实时变化，音量越高，指示灯的亮度越高。当音量为 -40 dB 至 -10 dB 时，该指示灯呈蓝灯闪烁。当音量为 -10 dB 至 0 dB 时，该指示灯呈红灯闪烁。
② **TX2 音量指示灯**
亮度和颜色随 TX 的音量大小实时变化，音量越高，指示灯的亮度越高。当音量为 -40 dB 至 -10 dB 时，该指示灯呈蓝灯闪烁。当音量为 -10 dB 至 0 dB 时，该指示灯呈红灯闪烁。
③ **POWER（电源）指示灯**
电量正常时，呈蓝灯常亮；低电量时，呈红灯常亮。
④ **上按键**
短按向上选择菜单内的选项或调整数值；长按进入音频输出口 A 的增益设置。
⑤ **下按键**
短按向下选择菜单内的选项或调整数值；长按进入音频输出口 B 的增益设置。
⑥ **电源键 / 返回键**
长按 2 秒开机或关机。
当显示屏未处于主界面时，短按此键可返回上一页。
⑦ **菜单键 / 确认键**
短按进入菜单或确认所选择的内容。
注：当音频输出口 B 设为监听模式时，短按上 / 下按键可直接调节监听音量。
⑧ **电池仓**

安装与连接

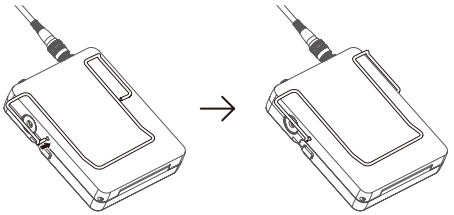
安装天线
将标配的 SMA 鞭状天线安装于 TX 顶部的 SMA 天线座子，并旋转拧紧。



将标配的 SMA 弯头天线安装于 RX 顶部的 SMA 天线座子，并旋转拧紧。



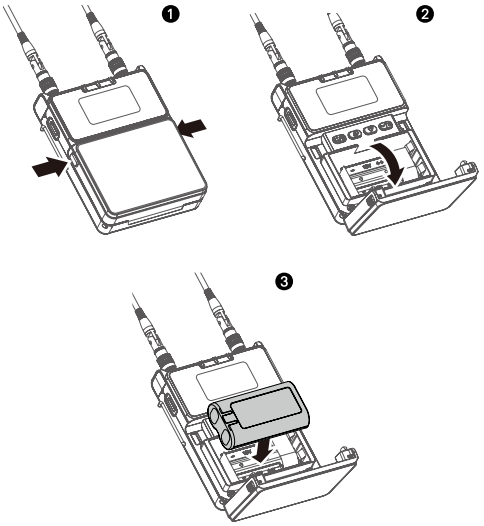
安装钢丝背夹
如图所示，将标配的 TX、RX 钢丝背夹对准机身两侧的背夹安装孔，先插入钢丝背夹的一侧，再插入钢丝背夹的另一侧。



⚠ **注意：接收机的钢丝背夹比发射机的略大一些，使用时请注意区分。**

安装电池

同时按住两侧的电池仓开关按钮，打开电池仓保护盖，按照仓内标识的正负极方向安装电池，然后关上电池仓保护盖。

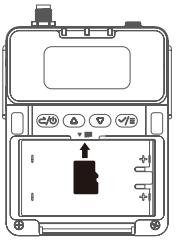


⚠ 注意

- 使用外置电池时，一定要在发射机和接收机内选择电池类型，以保证电量显示准确。
- 长期不使用设备时，应取出电池，以防电池出于某些原因泄漏。
- 务必使用相同类型的电池组。请勿使用不同类型的电池或混用不同电量的电池。

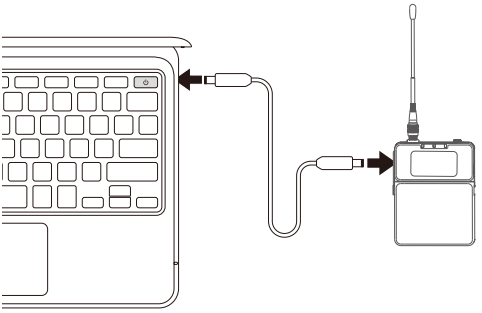
安装储存卡

同时按住 TX 两侧的电池仓开关按钮，打开电池仓保护盖即可看到 SD 标识，指示卡槽位置。若电池未安装，可直接将储存卡插入卡槽内；若电池已安装，请先取出电池，再将储存卡放入卡槽即可完成安装。



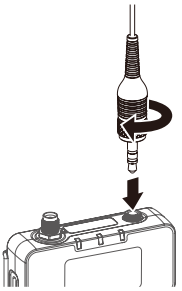
读取内录文件

TX 进入“读取模式”菜单后（参考第 33 页），通过标配的 USB-C 转 USB-C 数据线将机身侧面的 USB-C 接口连接至电脑，即可访问储存卡中的录音文件。如果未进入“读取模式”菜单，则储存卡中的文件无法被读取，此时该接口仅用于设备供电。

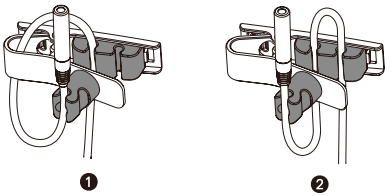


连接麦克风

将领夹麦插入 TX 顶部的 3.5 mm 麦克风输入口，并旋转拧紧锁头，确保领夹麦克风连接稳固。

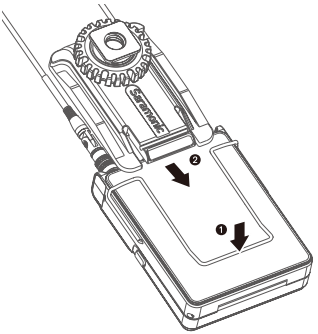


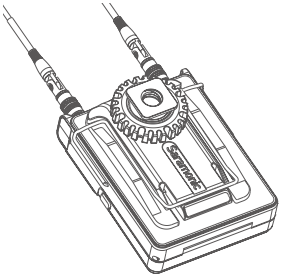
连接麦克风夹



安装冷靴扣板

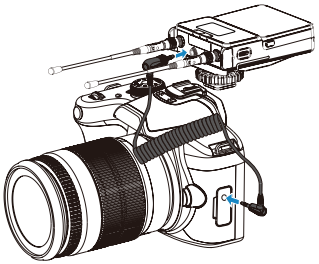
在 RX 安装冷靴扣板之前，需先完成钢丝背夹的安装。按压钢丝背夹底部，然后将冷靴扣板对准背夹的竖直方向往下推，直至扣板凹槽卡入钢丝背夹，即可完成冷靴扣板的安装。



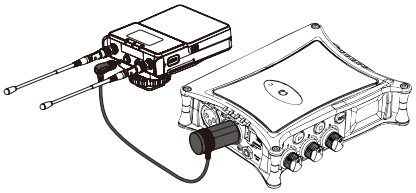


连接录音设备

RX 顶部的音频输出口 A、B 可接入标配的 3.5 mm 音频线，将 TX 的音频输出至录音机、相机、电脑等录音设备，请根据所连接设备的接口选择合适的 3.5 mm 音频线。

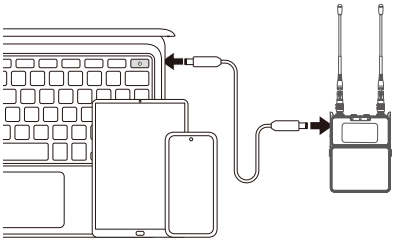


连接相机



连接录音机

RX 也可以通过侧面的 USB-C 接口连接 USB-C 转 USB-C 数据线，将声音实时传输至手机、电脑等设备。



连接手机或电脑等移动设备

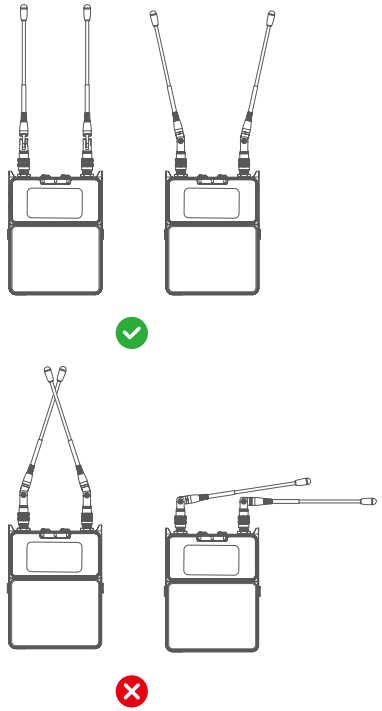
⚠ 注意：请根据实际需求选择是否使用 USB-C 转 USB-A 转接头连接电脑设备。

天线角度

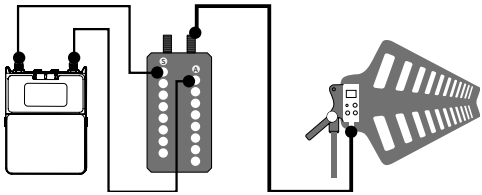
为确保最佳信号接收效果，请按照以下指导调整接收机天线：将天线保持垂直或以一定角度朝外展开（如下图绿色勾选部分所示）。

避免天线彼此交叉或完全折叠至设备侧面（如下图红色叉号部分所示）。

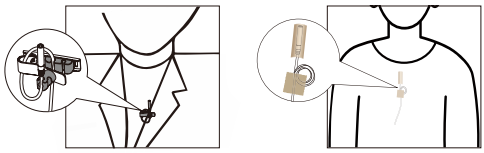
⚠ 注意：错误的天线方向可能导致信号衰减或干扰，请务必按照建议操作。



外接射频分配器（接收机）+ 鲨鱼鳍天线（不包含）



佩戴领夹麦



❶ ❷

操作指南

1. 设备激活（仅适用于 K9 标准版）

首次使用 K9 标准版（包含 K9TX 与 K9RX）时，需要连接手机应用程序 Saramonic System 进行激活。

• 当您开启 K9TX 和 K9RX 后，设备屏幕会显示“Saramonic System”下载二维码。

• 若您已安装该 APP，可直接打开并通过“添加设备”将 K9TX 和 K9RX 加入设备列表。此时，应用会自动跳转至激活界面。

• Saramonic System 会根据手机定位信息为您的 K9 分配符合当地法规的合法频段，分配成功后，设备即可完成激活并投入使用。

• 如果您未开启手机定位权限，应用将无法分配正确的合法频段，导致 K9 无法正常使用。

无法搜索到设备的解决方法

如果在 Saramonic System 中添加新设备时无法搜索到 K9：

• 在 K9 的设备屏幕上选择“蓝牙 - 重置”。

• 确认后，设备的蓝牙设置将被重置。

• 请确保手机的蓝牙已开启，然后重新在应用中搜索设备并进行连接。

2. 组建设备网络

1. 打开手机的蓝牙，并重置 K9 设备的蓝牙。
2. 在 Saramonic System 的“全部设备”页面，点击“+”号添加按钮，应用会搜索附近可配对的设备。
3. 勾选目标设备后，点击“确定”，即可完成组网。
4. 组网成功后，应用会识别待激活的 K9 并提示进入激活界面。您可选择是否立即激活：

• 若选择激活，应用会根据当前定位信息分配当地合法频段；您也可自行选择可用频段。

• 设备成功激活后会出现在设备列表中。

5. 当组网完成后，Saramonic System 会询问您是否需要自动分配频点信息，您可选择立即进入或自动分配。

重要提示

• 若您在美国地区使用 K9 标准版，设备通过 APP 获取当地合法频段后，将无法同时使用内录功能与无线传输功能。

3. 连接组网

K9TX 和 K9RX 组网方式一：需要将 K9TX 和 K9RX 同时进入配对模式。

K9RX：

进入 K9RX 的菜单，选择“无线与频率设置 > 频率设置 > 手动设置”，在该菜单内选择想要配对 K9TX 对应的通道（配对 1 或配对 2，即配对 TX1 或配对 TX2）。

以配对 TX1 为例：选择“配对 1”并短按确认键，RX 即可进入配对模式并尝试与 TX1 配对。配对成功后，屏幕将显示“频段发送成功”；如果配对失败，屏幕将显示“频段发送失败”，请重新执行配对步骤或检查天线是否正确安装。

K9TX：

进入 K9TX 的菜单，选择“无线与频率设置 > 频率 > 进入对码”，短按确认键后 TX 即进入配对模式，配对成功即显示“对码成功”；如果配对失败，屏幕将显示“对码失败”，请重新执行配对步骤或检查天线是否正确安装。

K9TX 和 K9RX 组网方式二：需要将 K9TX 和 K9RX 分别手动设置为相同的频点。

K9RX：

进入 K9RX 的菜单，选择“无线与频率设置 > 频率设置 > 手动设置”，在该菜单内选择想要配对 K9TX 对应的通道（接收 1 或接收 2）。

以配对 TX1 为例：选择“接收 1”后短按确认键即可修改该通道的频点数值，通过短按上、下按键实现 0.1 MHz 的频点微调或长按上、下按键快速将数值调整至干净可用的频点。

K9TX：

进入 K9TX 的菜单，选择“无线频率设置 > 频率 > 手动”，短按上、下按键实现 0.1 MHz 的频点微调或长按上、下按键快速调整频点数值。将 K9TX 和 K9RX 对应通道的频点调整为相同的数值后，即可完成配对组网。

4. 发射机菜单功能介绍

发射机显示屏显示发射机的状态信息。由于产品的持续更新，发射机的菜单页面可能与本《用户手册》中的图示有细微差异，请以实际为准。

菜单导航按钮

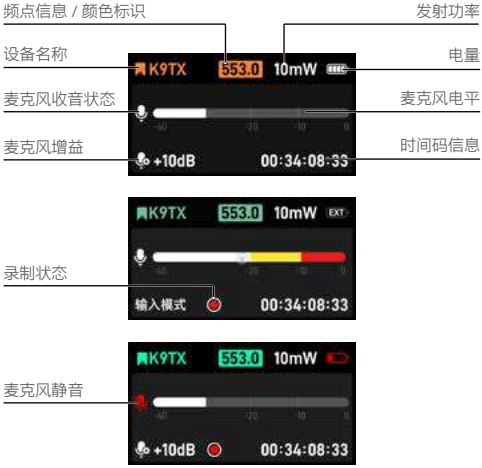
使用以下按钮在发射机的菜单中进行导航：

菜单键 / 确认键：从主界面跳转到菜单；进入菜单选项；保存设置。

上或下按键：选择菜单项；调整数值或更改设置。

返回键：返回上一个页面。

（1）主界面



注：如果不安装电池，直接将 USB-C 转 USB-C 数据线插入 TX 的 USB-C 接口充电，或者使用干电池供电，电池图标将变为 EXT。

（2）快捷菜单

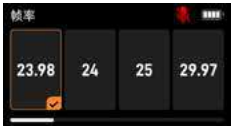
• 录制

当发射机显示屏处于主界面时，长按上按键可快速进入录制界面，然后短按确认键开始录制音频。在录制过程中，再次短按确认键，显示屏上将弹出“是否停止录音”的提示，确认后即可停止录制。

• 时间码同步

当发射机显示屏处于主界面时，长按下按键可进入时间码设置界面，然后短按上、下按键可选择相应设置项，短按确认键进入下一级菜单。连接外部时间码时，屏幕将显示外部时间码数据。

☑ 选择“23.98”



您可以设置时间码帧率为 23.98、24、25、29.97、 29.97DF 和 30。DF 代表丢帧。系统默认的时间码帧率为 25。建议根据外部设备时码的帧率进行匹配设置。

☑ 选择“自动”

您可以设置时间码模式为“关闭”、“自动”、“一次”、或“自由”模式。

关闭：关闭时间码。

自动：默认设置，自动识别并同步有线或无线时间码。

一次：自动同步一次时间码信息后锁定，锁定后不再进行同步，切换模式后解除锁定。

自由：当前设备设置的时间信息为时间码，不支持重置时间码，也不接受外面时间码信号。

☑ 选择“同步”

当设备的时间码模式设置为“关闭”或“自由”时，“同步”操作选项为灰色，表示当前设备无法被外部时码器同步时间码信息。

当时间码模式设置为“自动”或“一次”时，“同步”操作选项变为白色，表示当前设备可以被外部时码器同步时间码信息。

☑ 选择“设备组”

您可以设置时间码通道。为了方便管理 Saramonic 时间码，K9 设备提供 A-H 共八个时间码同步组别，只有在相同组别下的设备才能进行时间码同步。

☑ 选择“设置”

您可以手动调节时间码数据，自定义初始时间码，并启动时间码运行。通过上、下按键选择重置图标，然后短按确认键可将时间码重置为“00：00：00：00”。

☑ 选择输入模式

你可以通过设置输入模式选择时间码的输入模式为“MIC IN 输入”或着“USB-C 输入”，此功能主要是为了与第三方时间码进行同步时提升效率，减少插拔麦克风的动作。通过设置 USB-C 输入时间码还可以降低 MIC IN 接口的占用冲突。

• 音频增益

当显示屏处于主界面时，短按上按键，可增大麦克风的增益；短按下按键，可减小麦克风的增益。每次增大或减小 1 dB（您也可以在 App 上设置成每次以 3 dB 的幅度调整）。

（3）操作菜单

短按菜单键进入操作菜单，通过上、下按键选择相应的菜单选项，短按确认键即可进入所选择的菜单项或确认所选择的内容。

无线与频率设置

• 频率

☑ 选择“进入对码”，短按确认键，TX 即进入配对模式，尝试与 RX 进行配对。如果 RX 同时也进入配对模式，TX 与 RX 将成功配对。

☑ 选择“手动”，短按确认键进入“手动设置”菜单，通过上、下按键手动设置 TX 的频点信息。如果 RX 与 TX 设置为相同的频点，TX 与 RX 将成功配对。

• 频段范围

进入该菜单后，请根据所在地区选择合适的频段。

• 无线功率

进入该菜单后，TX 将根据所选频段，自动匹配可供选择的射频功率。

注：在美国地区，射频功能与录音功能不能同时启用。

• 时间码同步

详情请参考 “快捷菜单 > 时间码同步”（第 31 页）。

音频设置

• 增益

进入该菜单后，您可以短按上、下按键来调整麦克风的增益。每短按一次，增益以 1 dB 幅度变化，在 0 dB 至 +30 dB 的范围内设定增益。

• 输入信号

进入该菜单后，您可根据需求选择麦克风的供电电压或将输入信号切换为 “线路输入”。

• 低切

进入该菜单后，请根据需要选择低切值或关闭低切功能。

• 监听

☑ 选择 “开关”，短按确认键可开启或关闭监听。监听功能默认设置为开启状态。开启监听后，将您的耳机插入 TX 侧面的监听接口即可实现实时监听或回放监听。

☑ 选择 “输出音量”，短按确认键，然后通过上、下按键可设置输出音量。输出音量分为 1 至 11 档。

录音与文件管理

• 录音

详情请参考 “快捷菜单 > 录音”（第 31 页）。

• 录音模式

☑ 在该菜单内，您可以设置录音的比特率，可选择 “24”（24-bit）或 “32F”（32-bit 浮点录制）格式。

☑ 在该菜单内，您还可以设置录音的默认状态，可选择 “自动录制”、“手动录制” 或 “同步录制”。

① 自动录制：开机后自动开始录制，关机停止录制并自动保存录制文件。

② 手动录制：手动录制状态，默认状态为手动录制。

③ 同步录制：时间码同步后自动开始录音。

注：在美国地区，射频功能与录音功能无法同时进行。
当录音状态设置为同步录制时，手动录制 + 时间码同步后自动开启录音。
关闭同步录制后，同步时间码后将不会自动开启录音。
如果在同步时间码时设备正在录音，需先停止录音再进行时间码同步，同步后不自动开启录音。

• 录音文件

可查看和回放录制储存卡内的录音文件，支持回放当天录制的文件。

设备管理

• 电池

请根据所用电池的类型设置，以便 K9 设备准确计算剩余电量。
注意：电池特性因电池类型和环境条件而异，建议在使用前了解电池的特性。

• 指示灯

您可根据需求选择开启或关闭设备上的三颗 LED 指示灯。选择“指示灯”菜单项，短按确认键即可打开或关闭 LED 指示灯。

• 蓝牙

☑ 选择“蓝牙开关”，然后短按确认键可开启或关闭蓝牙。蓝牙默认开启。

☑ 选择“重置蓝牙”，短按确认键即可重置蓝牙，重置成功后会有提示消息出现。
注：MAC 地址为当前设备的蓝牙物理地址编号，是设备出厂的唯一识别码，可以在手机蓝牙连接时区分不同的设备。

• 系统设置

☑ 熄屏时间

进入该菜单后，您可以调整屏幕在不操作时持续点亮的时间，共有“从不，15 秒，1 分钟，5 分钟”四种选项。系统默认是 15 秒。在您调整设置后，系统将保留该设置。

☑ 背光亮度

进入该菜单后，您可以调整屏幕的亮度，共 5 个亮度档位可选：（暗）1 2 3 4 5（明亮）。
默认亮度为 5。在您调整设置后，系统将保留该设置。

☑ 储存卡

进入该菜单后，可查看储存卡的空间使用情况。选择“格式化”并确认后，系统将对储存卡进行格式化操作。
注：为确保更高的录制稳定性，建议将储存卡插入设备后，先进行格式化后再使用。

☑ 读取模式

进入该菜单后，通过标配的 USB-C 转 USB-C 数据线将 TX 侧面的 USB-C 接口连接至电脑，即可传输 TX 存储卡中的录音文件。

☑ 快捷键

您可以选择是否开启主界面快捷键的功能。
① 开启“静音”快捷键后，在主界面上短按电源键，可将 TX 快速静音或取消静音。
② 开启“录制 / 时间码”快捷键后，在主界面上长按上按键可快速进入录制界面；长按下按键可快速进入时间码设置界面。
③ 开启“增益调节”快捷键后，在主页面上短按上按键，可快速增大麦克风的增益；短按下按键，可快速减小麦克风的增益。

☑ 日期与时间

在该菜单内，您可以自定义设备当前的日期与时间。选择相关选项后短按确认键即可调整时间，通过上下按键调整时间数字。调整完成后，短按确认键即可保存调整后的时间信息，或者短按返回键恢复上一次或初始设置的时间信息。

☑ 语言

您可以设置显示屏上显示的语言为中文或英语。

☑ 恢复出厂

进入该菜单后，选择“确定”并短按确认键即可将设备恢复出厂设置。恢复出厂设置仅重置设备系统设置，不会对频段数据重置。

☑ 版本信息

进入该菜单后，您可以查看当前设备的版本信息、SN 码以及版本更新时的日期信息。

☑ 升级

TX 可通过储存卡进行固件升级：
① 从 Saramonic 官网下载最新固件，并将其放置于储存卡的根目录。
② 将储存卡安装至 TX 后，在“升级”菜单内选择“储存卡”选项，然后选择“确认”并短按确认键，即可进行固件更新。更新完成后，固件版本显示最新版本编号。您可以通过系统设置菜单中的“固件版本”选项查看当前设备的固件版本信息。

如果储存卡未插入 TX 内或 TX 无法读取储存卡中的升级文件，系统将提示“未检测到 SD 卡”。请检查储存卡是否正确插入设备，并确保储存卡中的升级文件完整并按要求放置在对应位置。

• 设备名称

进入该菜单后，您可以自定义设备名称。通过上、下按键来选择需要调整的字符，并短按确认键即可保存选择。

5. 接收机菜单功能介绍

接收机显示屏会显示接收机的状态信息以及已连接的发射机的状态信息。由于产品的持续更新或不同的连接设备下，接收机界面可能与本《用户手册》中的图示有细微差异，请以实际为准。下面以连接两个发射机的显示情况为例。

菜单导航按钮

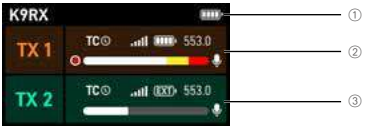
使用以下按钮在接收机的菜单中进行导航：

菜单键 / 确认键：从主界面跳转到菜单；进入菜单选项；保存设置。

上或下按键：选择菜单项；调整数值或更改设置。

返回键：返回上一个页面。

（1）主界面



① RX 的设备名称和电量信息。

K9RX	RX 设备名称
	RX 电量

②/③ TX1/TX2 的设备信息。

TC	TX1 / TX2 时码已通过外部时码同步
	TX1/TX2 连接信号强度
	TX1/TX2 电量
553.0	TX1/TX2 频点
	TX1/TX2 录制状态
	TX1/TX2 电平
	TX1/TX2 麦克风状态

注：如果不安装电池，直接将 USB-C 转 USB-C 数据线插入 TX 的 USB-C 接口充电，或者使用干电池供电时，插入 USB-C 充电线，电池图标将变为 EXT。

（2）副屏界面

副屏设计旨在让录音师在工作时能够快速查看连接信号强度和电池状态，无需将接收机从录音包中取出，便于及时监控设备状况。副屏随接收机的开 / 关机同步点亮或关闭。

信号优先页面，信号图标被放大呈现

一拖一状态

一拖二状态

电平优先页面，电平图标被放大呈现

一拖一状态

一拖二状态

2	TX2
	TX1 / TX2 设备信号
	TX1 / TX2 设备电量
1	TX1
	A/B 通道电平

（3）快捷菜单

• 增益

当显示屏处于主界面时，长按上按键可以进入音频输出口 A 的输出增益调节界面，长按下按键可以进入音频输出口 B 的输出增益调节界面。进入增益调节界面后，可通过上、下按键来调节输出增益的大小，可调整范围为 -20 dB 至 +10 dB。

• 监听

音频输出口 B 输出设置为监听模式时，在主界面上短按上、下按键可调节监听音量大小，共有 12 个档位的音量调节，可根据使用场景自定义音量大小。如何设置监听模式，请参考第 37 页“输出模式”。

（4）操作菜单

短按菜单键进入操作菜单，通过上、下按键选择相应的菜单选项，短按确认键即可进入所选择的菜单项或确认所选择的内容。

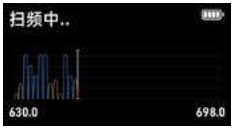
无线与频率设置

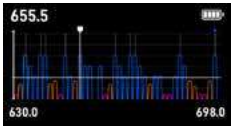
• 频率设置

进入该菜单后，您可以设置频率相关的功能。

☑ 自动扫频

进入该菜单后，您可以扫描当前环境内的无线频点信息，选择干净且干扰少的频点使用。





扫描完成后，可以自动分配最优的频点。

选择“确定”并短按确认键后同步扫描后的频点下发给 TX。

如果不使用自动分配的频点信息，可以短按返回键，然后根据扫频的结果，通过上下按键手动选择频点来下发同步给 TX 来使用。

☑ 推荐频段

扫频后，RX 将列出 10 个优选的干净频点。您可以进入“推荐频率”菜单，在列表中选择需要同步的频点，短按确认键即可将其同步下发到 TX。

注：如果设备开机后未进行扫频操作，则推荐频率功能为不可选择状态。

① 选择“自动设置”后，会默认扫频后的推荐频率。

② 罗列出的 10 个优选频点的信号质量用 1 到 3 个“大拇指”来表示，3 个表示信号最强。

☑ 手动设置

进入该菜单后，您可以手动调整 RX 对应通道的频点信息，用来同对应的 TX 来匹配相同的频点信息。

在进行无线配对时，需将 TX 同时进入相应的配对界面，选择“配对 1”将无线同步的发射机分配到 A 通道，选择“配对 2”会将无线同步的发射机分配到 B 通道。

☑ 频段范围

进入该菜单后，请根据所在地区选择合适的频段。

☑ 颜色标识

进入该菜单后，您可以选择颜色标记，将对应的颜色标记同步到配对的 TX 上，以便区分已配对连接至相同频段的设备。

• 接收控制

进入该单后，短按确认键可开启或关闭接收 2 的射频通道。默认情况下，该功能是全部开启的。请根据实际使用情况选择是否关闭不需要的射频通道，以降低射频功耗，从而减少电量浪费，延长设备的使用时间。

音频设置

• 输出模式

进入该菜单后，您可以调整当前通道输出的声音方式。通道 A 可以单独输出对应通道的声音，也可以设置为双通道的声音输出，此时输出的声音左声道为通道 A 的音频，右声道为通道 B 的音频。通道 B 可设置单独输出对应通道的声音，或者设置双通道的声音输出，此时输出的声音左声道为通道 A 的音频，右声道为通道 B 的音频。通道 B 还可以设置为监听输出模式，此时输出的音频与通道 A 的音频一致。

• 输出信号

进入该菜单后，您可以设置对应通道音频输出的增益参数。输出通道 B 为监听输出模式时，可设置监听音量的大小。

设备管理

• 副屏设置

副屏默认开启，并随 RX 的开 / 关机同步点亮或关闭。副屏屏幕根据 RX 连接的 TX 自适应调整页面。副屏亮度分为 1、2、3 三个档位（第 3 档为最大亮度），默认设置为最大亮度，确保用户在 1 米内能够清晰地查看屏幕。显示时间默认为“从不”，您也可以手动设置为 30 秒熄屏。调整后，系统将保留该设置。如果您恢复出厂设置，则重置为默认值。

• 电池

请根据所用电池的类型设置，以便 K9 设备准确计算剩余电量。

注意：首次使用外置电池时，一定要在发射机和接收机内选择电池类型，以保证电量显示准确。

• 休眠

进入该菜单后，您可以设置已连接 TX 的休眠功能。在休眠模式下，TX 仅保留蓝牙连接、2.4 G 连接和时间码功能。您将可以通过开关选择是否开启控制接收 1 或接收 2 的休眠功能。退出该模式，即刻唤醒匹配过的 TX。

• 蓝牙

☑ 选择“蓝牙开关”，然后短按确认键可开启或关闭蓝牙，蓝牙默认开启。

☑ 选择“重置蓝牙”，短按确认键即可重置蓝牙，重置成功后会有提示消息出现。

MAC 地址为当前设备的蓝牙物理地址编号，是设备出厂的唯一识别码，可以在手机蓝牙连接时区分不同的设备。

• 系统设置

☑ 熄屏时间

进入该菜单后，您可以调整屏幕在不操作时持续点亮的时间，共有“从不，15 秒，1 分钟，5 分钟”四种选项。系统默认是 15 秒。在您调整设置后，系统将保留该设置。

☑ 背光亮度

进入该菜单后，您可以调整屏幕的亮度，共 5 个亮度档位可选：（暗）1 2 3 4 5（明亮）。
默认亮度为 5。在您调整设置后，系统将保留该设置。

☑ 语言

您可以设置显示屏上显示的语言为中文或英语。

☑ 恢复出厂设置

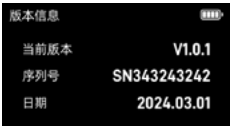
进入该菜单后，选择“确定”并短按确认键可将设备恢复出厂设置。恢复出厂设置仅重置设备系统设置，不会对频段数据重置。

☑ 升级

RX 可通过内置储存进行固件升级：
① 通过 USB-C 转 USB-C 数据线连接 RX 至电脑，电脑上将弹出 RX 内置储存的窗口。从 Saramonic 官网下载最新固件放置于弹出的窗口选项中。
② 进入 RX “升级” 菜单内，然后选择 “确认” 并短按确认键，即可进行固件更新。更新完成后，固件版本显示最新版本编号。您可以通过系统设置菜单中的 “固件版本” 选项查看当前设备的固件版本信息。

如果未连接电脑或无法读取升级文件，系统将提示“未检测到固件”。请检查 RX 是否正确连接电脑，并确保升级文件完整并按要求放置在对应位置。

☑ 版本信息



进入该菜单后，您可以查看当前设备的版本信息、SN 码以及版本更新时的日期信息。

• 设备名称

进入该菜单后，您可以自定义设备名称。通过上、下按键来选择需要调整的字符，并短按确认键即可保存选择。

参数

发射机

信号调制	专有数字射频调制
射频范围	550 MHz ~ 960 MHz 根据不同地区分配符合当地的合法频段
射频输出功率	10 mW, 25 mW, 50 mW, 100 mW
射频步进	100 KHz
射频带宽	200 KHz
通道射频间隔	700 KHz
天线接口	50 Ω SMA
输入动态范围	130 dB
失真	<0.5%
频率响应	20 Hz ~ 20 kHz
低切	0FF, 75 Hz, 100 Hz, 150 Hz
麦克风电源	MIC-3V、MIC-5V, LINE
麦克风接口类型	3.5 mm TRS
增益范围	0 dB ~ 30 dB
ADC 采样率	48 KHz
位深度	24 bit

时间码时钟精度	0.15 PPM（48 小时内漂移一帧）
时间码类型	LTC (SMPTE)
时间码帧速率	23.98, 24, 25, 29.97, 29.97 DF, 30
媒体	MicroSD 卡（最大支持 256GB）
文件格式	Wav
采样率	48 KHz
录制格式	24-bit or 32-bit 浮点
等效输入噪声	最大 -132dBV（-130dBu）(A 加权，增益 =30dB，150 欧姆源阻抗）
供电方式	外部电池 / 电源
续航时长	≥ 9 小时（搭配优质 AA 电池）
尺寸 (mm)	80 × 62 × 19 mm (长 × 宽 × 高)
重量（g）	85g（不带电池不带天线）120.5g（带电池带天线）
工作温度	-20℃ ~ +45℃
存储温度	-30℃ ~ +60℃

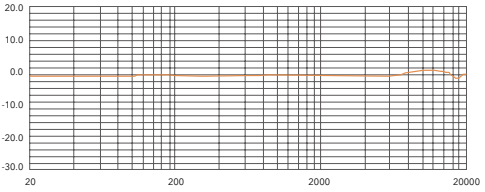
接收机

信号调制	专有数字射频调制
射频范围:	550 MHz ~ 960 MHz 根据不同地区分配符合当地的合法频段
射频输出功率	10 mW, 25 mW, 50 mW, 100 mW
射频步进	100 KHz
射频带宽	200 KHz
通道射频间隔	700 KHz
天线接口	2 x50 Ω SMA
接收机音频输出	模拟输出（x 2）
模拟输出动态范围	120 dB
失真	<0.5%
DAC 位深度	24 bit
输出类型	单声道、立体声、耳机
供电方式	外部电池 / 电源
续航时长	≥ 8 小时，搭配优质 AA 电池
尺寸（mm）	88.1 × 66.1 × 23.6 mm (长 × 宽 × 高)
重量（g）	112 g（不带电池不带天线）157.5 g（带电池带天线）
工作温度	-20℃ ~ +45℃
存储温度	-30℃ ~ +60℃

领夹麦

指向性	全指向型
最大声压级	118 dBSPL
动态范围	110 dB
灵敏度	-35 dB (1.5V, 2.2K, at 1KHz)
等效噪声级	Typ 25 dB（A 加权，等效声压级）
信噪比	＞ 6 8dB
工作电压	1.3 V to 5.0 V
频率响应	20 Hz~20 KHz
失真度 THD	＜ 3%
防护等级	IP67
工作温度	-20℃ ~+70℃
抗压性能	≥ 50 N
抗拉力	线缆可承受≥ 50 N 拉力
抗电磁干扰	通过 EMI 测试，适合复杂环境（如舞台、灯光干扰场景）
重量	1 1g
线长	1.8 米
咪头尺寸	直径 3 mm*17.5 mm
插头类型	3.5 mm 带锁
插头线序	支持森海塞尔，DPA 外置领夹麦接入

频率响应



For better recording experience, the application **Saramonic System** 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 **Saramonic System。**

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