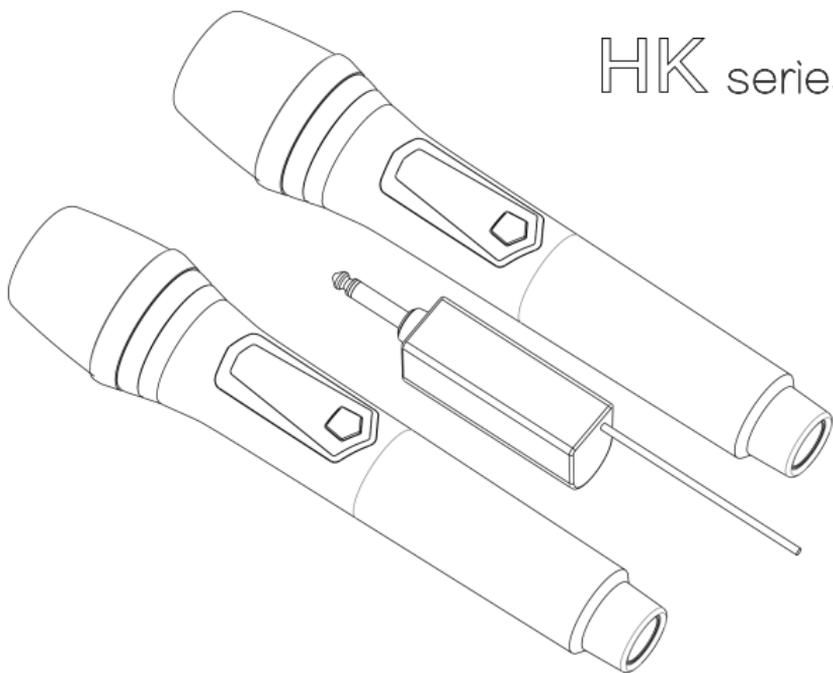


SaiPin[®] by Sine Audio

Wireless Mic System

HK series



HK11 HK12 HK13

HK20 HK21 HK22 HK23

User Manual

E-mail:support@sineaudio.com.cn



> Important Notes

→ Do Most users do not need a license to operate this wireless microphone system. Nevertheless, operating this microphone system without a license is subject to certain restrictions; the system may not cause harmful interference; it must operate at a low power level; and it has no protection from interference received from any other device. Purchasers should also be aware that the FCC is currently evaluating use of wireless microphone systems, and these rules are subject to change. For more information, call the FCC at 1-888-CALL-FCC (TTY:1-888-TELL-FCC) or visit the FCC's wireless microphone website at <https://www.fcc.gov/cgb/wirelessmicrophones>.

→ Before you use this wireless microphone system, please follow the secure reminder below in order to keep the product is safe to use.

1. Please use the charge equipment which output voltage is less than 5.15V and output current is more than 0.9A.
2. Please do not put this product in rain, moist , over high temperature environment or under strong sunshine.
3. Please do not drop / throw / squeeze in case of product damage.
4. Do not let it touch benzol or thinner that chemicals have corrosivity.
5. Please do not use this product when you are riding a bike / motorcycle or driving a car.
6. Please charge this product over 4 hours before you begin your first use because its battery is not full charged when this product is packaged
7. The battery's working life is relevant to your charge time and its operation environment, you can lengthen its working life by following the advise below:
 - Please use this product at least one time every two weeks.
 - Please do not let the battery in the state of power off, when you are planning not to use the product you should charge this product at lease one time every month.
 - Please keep the product far away from heat source ,strong magnetic equipment and wireless transmitter, such as router.
 - Please charge this product when it is power off and not to charge it frequently.
8. Please do not throw or burn this product when it is damaged, it contains battery, throw it away without selecting location is harmful to people's health and environment, you should ask for the help of authoritative local department. You can contact the local relevant department to dispose this product according to the specific laws.
9. Please do not take apart this product by yourself, you can contact seller or customer service if the product is under warranty.



→ Do not make unauthorized alterations to the system, doing so may compromise safety, regulatory compliance, and may void the warranty.

→ This system contains magnetic material, contact your physician if you have questions on whether this might affect the operation of your implantable medical device.

> Warranty information

The warranty period for this product is 12 months from the date of its original purchase. If manufacturing defects occur, please contact your dealer at the first time, we will instruct you on how to return the defective unit back to us for repair or replacement.

The following are excluded from the Sine Audio warranty coverage:

- Product over warranty.
- Damage resulted from misuse and abusive action.
- Damage resulted from chemical, fire, radioactive substance, and poison, liquid.
- Damage resulted from natural disaster.
- Remove all packaging and check for the presence of all parts and for transport damage. In case of damage or incomplete delivery, please contact your dealer.
- Please keep the packaging. The system can be stored in it, if not used for a longer period of time.
- Make sure the power adapter is disconnected from the electrical outlet before making any mounting and connection.
- During operation, if the cables require to be reconnected, the power adapter must be disconnected first, otherwise damage to the system may result.

> FCC information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changers or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of more of the following measure:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

> Package Contents

HK1X: 1 x Receiver (RX)

1 x Handheld microphone (TX)

1 x USB charging cable

1 x 3.5 to 6.35mm adapter

1 x User manual 1 x Anti-slip ring

HK2X: 1 x Receiver (RX)

2 x Handheld microphone (TX)

1 x USB charging cable

1 x 3.5 to 6.35mm adapter

1 x User manual 2 x Anti-slip ring

> Features

- UHF wireless handheld microphone system
- Built-in replaceable 18650 lithium battery
- Rechargeable receiver and rechargeable microphone
- Adjustable frequency, Automatic pairing, Plug and play
- Constant frequency, Anti-interference, Anti-howling
- Digital frequency modulate, Frequency range : 470-960MHz

> Specifications

Transmission power: 8dBm

Operating range : up to 200 feet (60m)

Total harmonic distortion : <1%@1KHz

Signal to noise ratio : 90dB (A-Weight)

Frequency response : 45Hz – 18KHz

Receiver

Receiving sensitivity: -95dBm

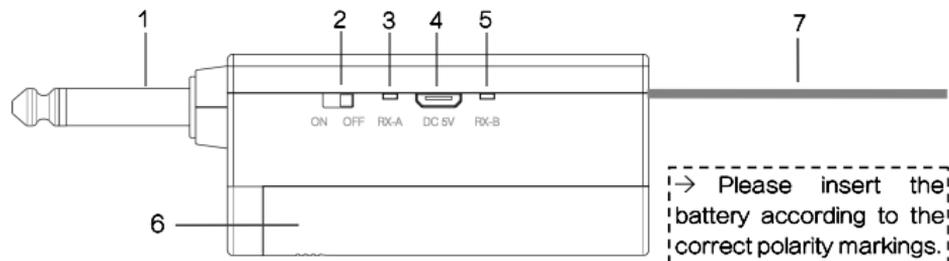
Audio output: 300mV (Max.)

Receiving delay: 2.5mS

Note: Accessories and specifications are subject to change without notice.

> System Overview

>> Receiver



1. 6.35mm(1/4") Plug

2. Power switch

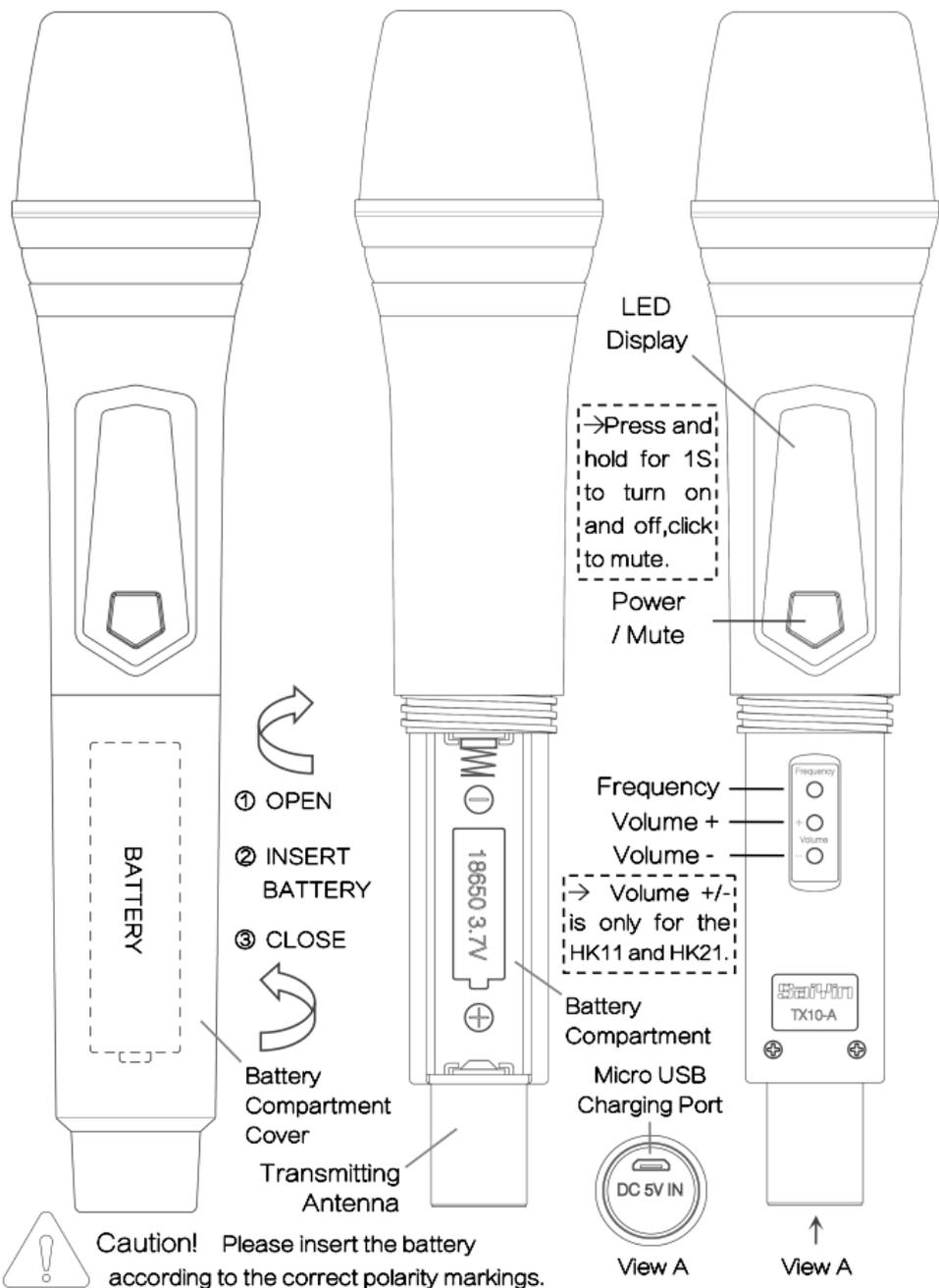
3. A channel indicator

4. Micro USB Port (For Charging)

5. B channel indicator

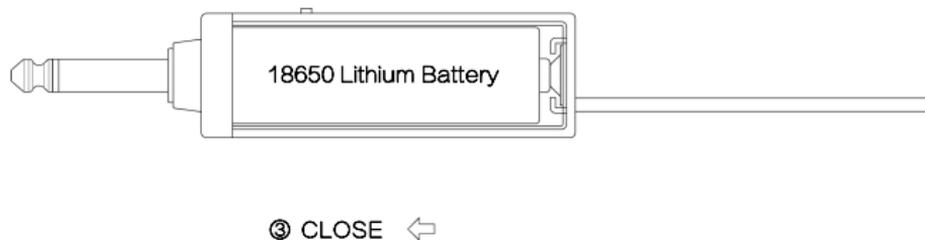
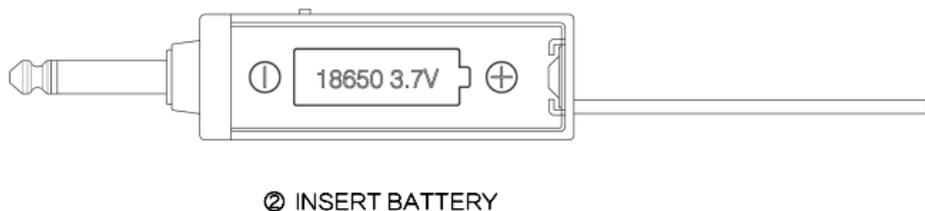
6. Battery Cover

7. Receiving antenna



> Inserting / Replacing Battery

1. Slide to open the battery compartment cover.
2. Insert the batteries into the battery compartment. Match the polarity markings in the battery compartment.
3. Close the battery compartment cover.



Caution!

- Remove the battery from the receiver and the handheld microphone if you are not using it for an extended period.
- Always insert the battery according to the correct polarity markings.

→ Use only high quality battery, low quality batteries might leak and cause damage.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

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