

# TAKSTAR® 得胜



## SC系列 | 无线麦克风

Wireless Microphone

## ■ Preface

Dear Customer,

Thank you for purchasing Takstar SC Series Wireless Microphone. In order to better understand and use the product, please read this manual carefully.

If you have any questions or suggestions, please contact our local dealer.

## ■ Features

### SC-4R Four-Channel Wireless Receiver

- UHF broadband design, pre-programmed with 400 optional channels, usable simultaneously in multiple sets.
- D-PLL RF frequency lock technology for accurate frequency and stable performance.
- Dual-conversion receiving technology for strong anti-interference capability and transmission up to 50m.
- Pro audio companding technology for low noise & tail sound and large dynamic range.
- Intelligent microcomputer control enables 4 wireless microphones to work simultaneously.
- MIC/LINE switching option adapts to different on-site requirements for sound reinforcement.
- 4 independent XLR audio outputs and 1 Type-C output for convenient connection.
- 6.3mm cascade output/input, configurable for multi-device cascaded output.
- Monitor output with adjustable volume for different usage scenarios.

### SC-2R Dual-Channel Wireless Receiver

- UHF broadband design, pre-programmed with 400 optional channels, usable simultaneously in multiple sets.
- D-PLL RF frequency lock technology for accurate frequency and stable performance.
- Dual-conversion receiving technology for strong anti-interference capability and transmission up to 50m.
- Pro audio companding technology for low noise & tail sound and large dynamic range.
- Intelligent microcomputer control enables 2 wireless microphones to work simultaneously.
- MIC/LINE switching option adapts to different on-site requirements for sound reinforcement.
- 2 independent XLR audio outputs and 1 Type-C output for convenient connection.
- 6.3mm cascade output/input, configurable for multi-device cascaded output.
- Monitor output with adjustable volume for different usage scenarios.

## SC-TD Wireless Handheld Microphone

- UHF band design, avoiding industrial frequency interference.
- Wide frequency design, 400 selectable channels, wireless transmission up to 50 meters.
- D-PLL RF frequency lock technology for accurate frequency and stable performance.
- Pro audio companding technology for low noise & tail sound and large dynamic range.
- Intuitive LCD display presents real-time device info such as battery and channel status.
- Powered by 2pcs 1.5V AA batteries, long battery life, easy to maintain and replace.

## SC-TL Wireless Bodypack Transmitter

- UHF band design, avoiding industrial frequency interference.
- Wide frequency design, 400 selectable channels, wireless transmission up to 50 meters.
- High performance pickup, capturing sound clearly, naturally and effortlessly at distance.
- Low-cut function, effectively reducing the impact of environmental noise or stage vibration.
- Low battery reminder notifies users to replace battery in time; no more sudden power outage.
- Intuitive LCD display presents real-time device info such as battery and channel status.
- Powered by 2pcs 1.5V AA batteries, long battery life, easy to maintain and replace.

## SC-TW Wireless Conference Microphone

- UHF band design, avoiding industrial frequency interference.
- Wide frequency design, 400 selectable channels, wireless transmission up to 50 meters.
- High performance pickup, capturing sound clearly, naturally and effortlessly at distance.
- Low-cut function, effectively reducing the impact of environmental noise or desk vibration.
- Gain control, adaptable to different on-site requirements.
- Wireless charging/Type-C wired charging supported; use while charging.
- Capacitive mute control, eliminating mechanical noise from conventional switch.

## TW-C Wireless Charger

- Designed with safe and efficient wireless charging function.
- Charger with two charging areas enables two-device simultaneous charging.
- Universal Type-C charging interface, supports mainstream power adapters (5V 2A/5V 3A/9V 2A or above).
- Supports charging for SC-TW and other smartphones/mobile devices with wireless charging function.

## ■ Package Contents

### SC-4R

- SC-4R Receiver ······ 1 pc
- Audio Cable ······ 1 pc
- Power Adapter ······ 1 pc
- Antenna ······ 4 pcs
- Angle Bracket ······ 1 set
- User Manual ······ 1 pc

### SC-TD (Optional)

- Handheld Microphone ······ 1 pc
- Alkaline AA Battery ······ 2 pcs

### SC-TL (Optional)

- Bodypack Transmitter ······ 1 pc
- Headset Microphone ······ 1 pc
- Lavalier Microphone ······ 1 pc
- Alkaline AA Battery ······ 2 pcs

### SC-TW (Optional)

- Wireless Conference Microphone ······ 1 pc
- 1.5m Type-C Power Cable ······ 1 pc

### TW-C (Optional)

- TW-C Charger ······ 1 pc
- 1.5m Type-C Power Cable ······ 1 pc

### SC-2R

- SC-2R Receiver ······ 1 pc
- Audio Cable ······ 1 pc
- Power Adapter ······ 1 pc
- Antenna ······ 2 pcs
- Angle Bracket ······ 1 set
- User Manual ······ 1 pc

## ■ Specifications

### SC-4R Four-Channel Wireless Receiver/SC-2R Dual-Channel Wireless Receiver

- Frequency Range: 640~690 MHz (segmented)
- Modulation: broadband FM
- Adjustable Range: 50MHz
- Number of Channels: 400
- Channel Spacing: 250KHz
- Squelch Control: pilot ID code
- Frequency Stability:  $\pm 0.015\%$
- Dynamic Range:  $\geq 100\text{dB A+}$
- Frequency Deviation:  $\pm 48\text{KHz}$
- Audio Response: 60Hz~18KHz
- Overall S/N Ratio:  $\geq 100\text{dB A+}$
- Overall Distortion:  $\leq 0.5\%$  (at 1KHz)
- Audio Output: discrete bal and combo 6.3mm & 3.5mm headphone jack
- Audio Max Output Level: 1.4V/RMS(at 1KHz THD=1%)
- Use Distance: 50m (open area)
- Antenna Connector: TNC (50 ohms impedance)
- Sensitivity:  $-103\pm 3\text{dBm}$
- Operating Temperature:  $-20^{\circ}\text{C}\sim +50^{\circ}\text{C}$

### SC-TD Wireless Handheld Microphone

- Frequency Range: 640~690 MHz (segmented)
- Transmitter Power Supply: 2pcs AA batteries
- Transmitter Power:  $\leq 10\text{mW}$
- Second Harmonic:  $\geq -40\text{dBc}$
- Frequency Stability:  $\pm 0.015\%$
- Battery Life: approx. 8 hours (subject to battery capacity)
- Handheld Mic Size (D\*H): 53\*270mm
- Handheld Mic Weight: approx. 350g

## SC-TL Wireless Bodypack Transmitter

- Frequency Range: 640~690 MHz (segmented)
- Transmit Power:  $\leq 10\text{mW}$
- Second Harmonic:  $\geq -40\text{dBc}$
- Frequency Stability:  $\pm 0.015\%$
- Spurious Rejection:  $\geq 50\text{dB}$
- Power Supply: 2pcs AA batteries
- Interface Type: 3.5mm self-locking jack
- Battery Life: approx. 8 hours (subject to battery capacity)
- Bodypack Transmitter Size (L\*W\*H): 79\*32\*15.5mm
- Bodypack Transmitter Weight: approx. 100g

## SC-TW Wireless Conference Microphone

- Frequency Range: 640~690 MHz (segmented)
- Transmit Power:  $\leq 10\text{mW}$
- Spurious Rejection:  $\geq 50\text{dB}$
- Second Harmonic:  $\geq -40\text{dBc}$
- Frequency Stability:  $\pm 0.015\%$
- Battery Capacity: 1000mAh 3.7Wh
- Pickup Distance:  $\leq 50\text{cm}$
- Battery Life: approx. 8 hours
- Mic Size (L\*W\*H): 129\*101\*325mm
- Mic Weight: approx. 625g
- Charge Time: approx. 3hrs
- Charge Mode: 5V-12V wired, or 10W wireless

## TW-C Wireless Charger

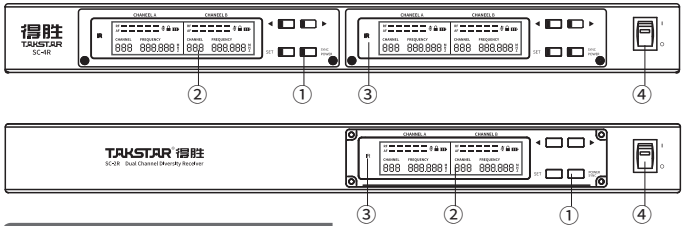
- Power Input: for charging two devices, supports mainstream adapters at 5V/2A, 5V/3A, 9V/2A or above; for charging one device, supports at least 5V/1A
- Output Power: 5W or more
- Sensing Distance: within 5mm

**Note: The above data is measured by Takstar laboratory.**

## ■ Function Descriptions

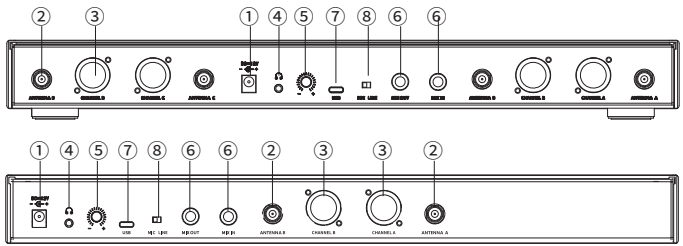
### Receiver Front Panel

- ① Function Keys: for channel selection, frequency adjustment, sync, and scan.
- ② LCD Display: displays info such as sync status, frequency, and received signal level.
- ③ IR Sync Window: sends frequency parameters to transmitter when SYNC key is pressed.
- ④ Power Switch: controls internal power supply of the receiver.



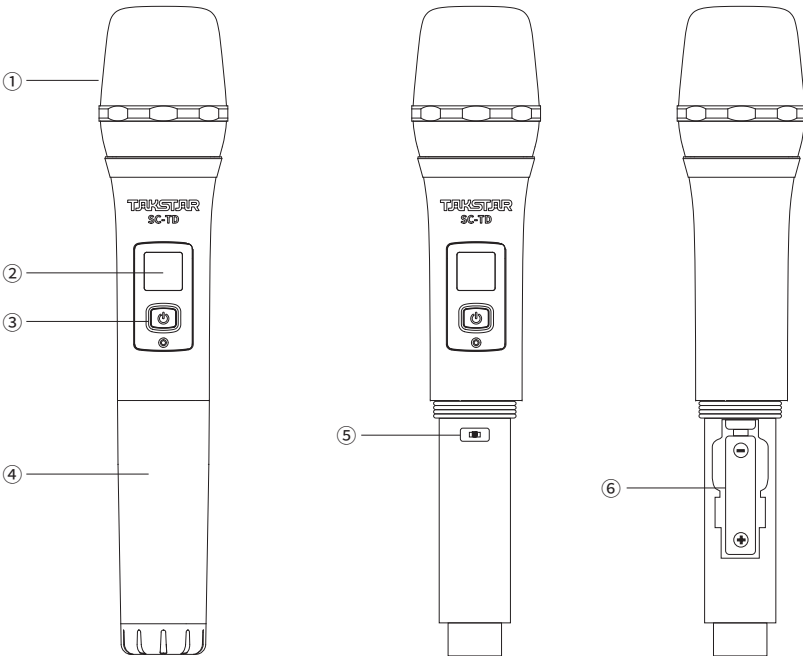
### Receiver Rear Panel

- ① Power Socket: input for DC 12V power supply; the center electrode of the socket is positive.
- ② Antenna Socket: connects to external antenna to increase the distance of use.
- ③ Audio Balanced Output: XLR type socket, provides independent signal output for each channel.
- ④ Headphone Jack: used to connect headphone for monitoring.
- ⑤ Volume Control: adjusts the output volume; rotate clockwise to increase volume, or counterclockwise to decrease.
- ⑥ Mixed Input/Output: for cascading multiple devices.
- ⑦ USB Interface: used to output digital signal to an audio interface via Type-C data cable.
- ⑧ Gain Selector: used to adjust the output of MIC and LINE.



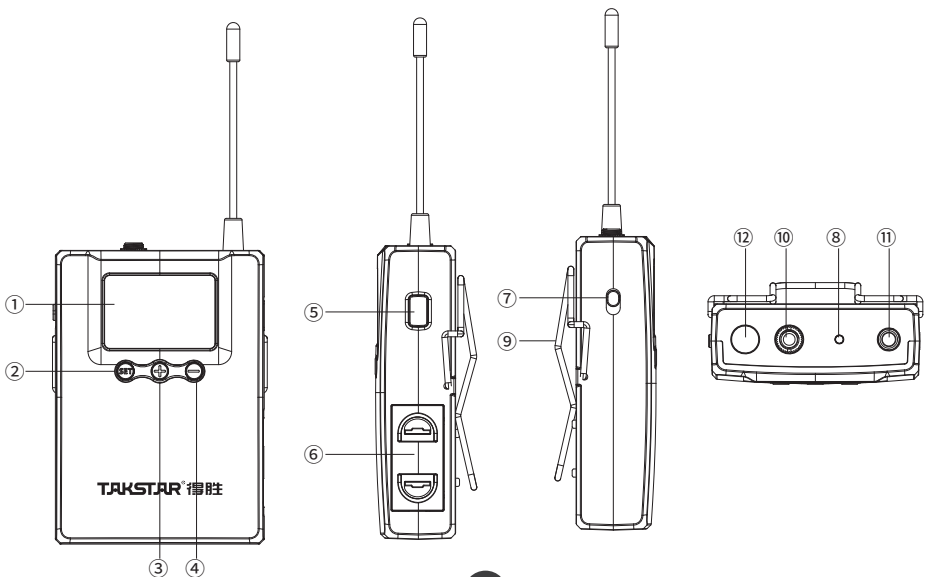
## SC-TD Handheld Microphone

- ① Grille and Capsule: the grille protects the capsule which converts sound into electrical signal, and prevents the mic from rolling when placed on a surface.
- ② LCD Display: displays operating frequency, battery level.
- ③ Power: used to turn on/off the transmitter power.
- ④ Microphone Body: on the top assembles the grille and capsule, inside houses the battery, transmitting circuit board, with transmitting antenna built in at the bottom.
- ⑤ IR Sync Window: sends frequency parameters to transmitter when SET key on receiver is pressed. (IR window is inside the bottom of mic body)
- ⑥ Battery Compartment: for loading 2 pieces of AA batteries. (Please observe polarity during battery installation)



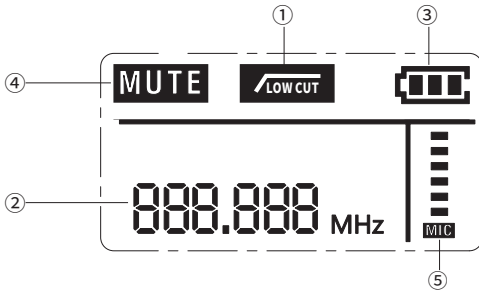
## SC-TL Bodypack Transmitter

- ① Display Screen: shows info such as operating frequency and battery level.
- ② SET Key: press and hold SET to enter Gain Adjustment Mode which will auto exit after 2s of inactivity. Recommended gain level is: 4 for headset mic, and 8 for lavalier mic.
- ③ + Key: in Gain Adjustment Mode, press to increase mic gain.
- ④ - Key: in Gain Adjustment Mode, press to decrease mic gain.
- ⑤ Power/Mute Button: press and hold for 2s to power on/off, press to turn on/off the mute function.
- ⑥ Battery Compartment: for installing AA batteries.
- ⑦ Low Cut Switch: dial to “ON” position to attenuate low-frequency environmental noise below 150Hz (e.g., traffic, air conditioner and vibration noise); dial to “OFF” to restore normal sound pickup.
- ⑧ Mute Indicator: lit in solid green when mute function is off, or in solid red when on.
- ⑨ Back Clip: used to buckle the transmitter on belt or trouser.
- ⑩ Microphone Jack: for connecting a mic with a 3.5mm connector.
- ⑪ External Antenna: 1/4 wavelength antenna, used to increase signal transmission distance.
- ⑫ IR Sync Window: transmits infrared signal when syncing.



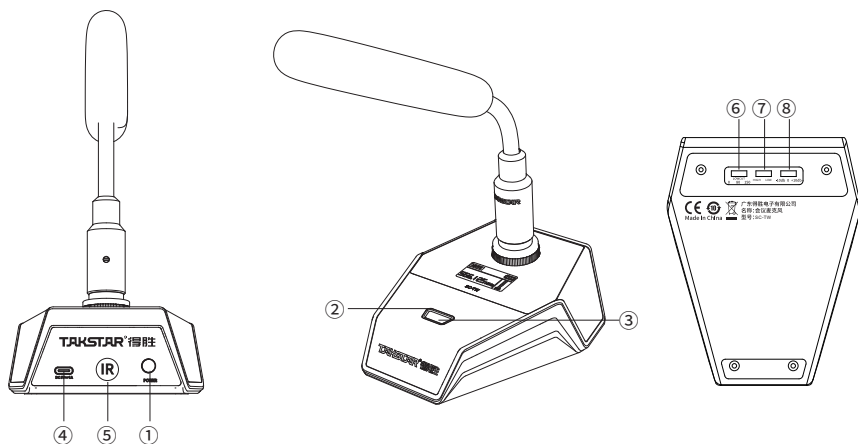
## Transmitter Display

- ① Low Cut: shown/hidden when low cut is enabled/disabled.
- ② Operating Frequency: current transmitter operating frequency.
- ③ Battery Level: indicated by a bar meter; flashes when power is severely low.
- ④ Mute Indicator: shown/hidden when muted/unmuted.
- ⑤ Mic Audio Signal Meter: changes as per mic audio signal strength.



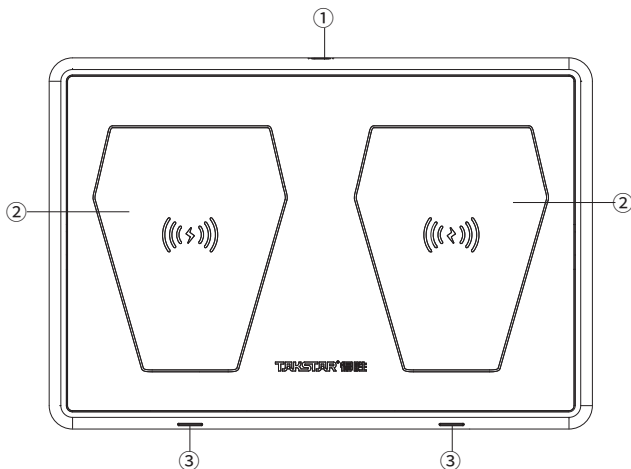
## SC-TW Wireless Conference Microphone

- ① Power Button: press and hold for 2s to turn on/off mic.
- ② Mute Indicator: lit in solid blue when unmuted (enables sound pickup), or is off when muted.
- ③ Mute Switch: touch the switch to mute/unmute. Mute indicator lights up in solid blue when unmuted; touch the switch again to mute, in which case the indicator goes off.
- ④ Charging Port: charge the mic via a Type-C charging cable.
- ⑤ IR Sync Window: during sync process, point this window towards the receiver's IR window.
- ⑥ Low Cut Switch: when set to "0", mic is in normal sound pickup status; when set to "80", it filters out low-frequency environmental noise below 80Hz (e.g., breathing sound and plosives); when set to "150", it filters out low-frequency environmental noise below 150Hz (e.g., traffic, air conditioner and vibration noise).
- ⑦ High/Low Power Switch: used to switch between high and low transmitting power.
- ⑧ Gain Selector: used to manually adjust gain according to the site requirements; when the source signal is too strong, dial to "-10dB" position to attenuate to avoid distortion of the output signal; in most cases, it is recommended to dial to "0" position; when the pickup source is far away or the source signal is weak, dial to "+10dB" position to enhance the signal for clearer pickup.



## TW-C Charger

- ① Charging Port: used to supply power to the charger via a Type-C charging cable.
- ② Rechargeable Area: place the wireless mic base in this area to charge.
- ③ Indicator: lights up white when the charger is powered; breathes blue when the mic is placed for charging.



## ■ Operation Instructions

### How to Use SC-2R/4R Receiver

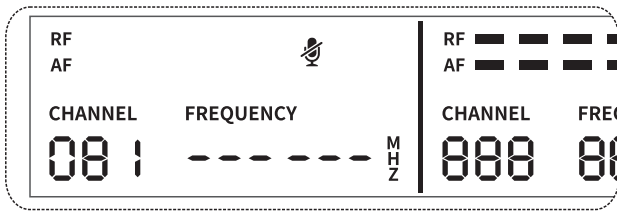
## Adjust Frequency

### 1. Manual Frequency Adjustment

First, tap SET and use ◀ or ▶ to select which channel to adjust; the display of the selected channel will flash. Next, tap SET again and use ◀ or ▶ to select a desired frequency for the selected channel. Then, tap SYNC to start syncing by aligning the IR windows of both the receiver and a powered-on transmitter (sync distance at 10~30cm). Sync is successful if the transmitter screen shows the same frequency as the receiver. In case of sync failure, the process will auto exit after 8s, please redo the aforementioned steps to retry.

### 2. Automatic Frequency Sweep & Sync

First, tap SET and use ◀ or ▶ to select which channel to adjust; the display of the selected channel will flash. Next, press and hold SYNC for 2s to start automatic frequency scan in the selected channel. The frequency on screen will change until a clean frequency is found, after which the receiver will automatically start IR sync, as shown below. Then, align the IR windows of both the receiver and a powered-on transmitter to sync.



(Note: To use multiple transmitters simultaneously, the already-paired transmitters must be turned on when performing auto scan for another transmitter)

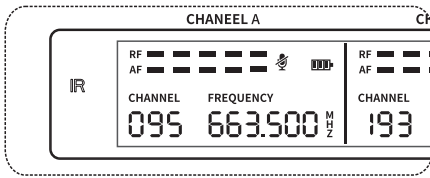
### 3. Volume Adjustment

First, tap SET and use ◀ or ▶ to select which channel to adjust; the display of the selected channel will flash. Then press and hold ◀ or ▶ for 2s to start volume control, tap ◀ or ▶ to select a desired volume level (9 steps from 1~9).

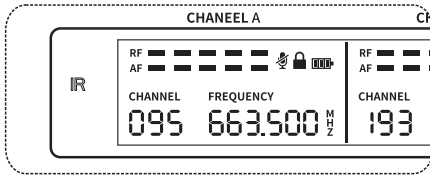
### 4. System Lock

Lock: press and hold SET for 2s in the default UI to lock all function keys (except for the power switch), the screen will change from Figure ① into Figure ②.

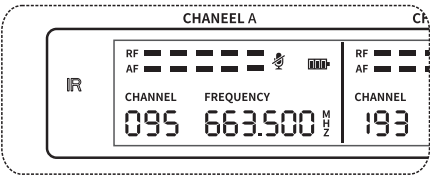
Unlock: press and hold SET for 2s to unlock, as shown in Figure ③.



①



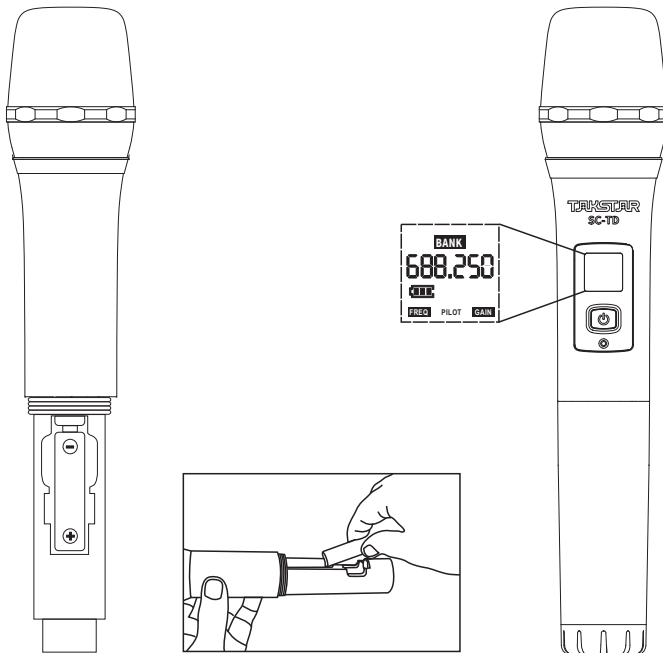
②



③

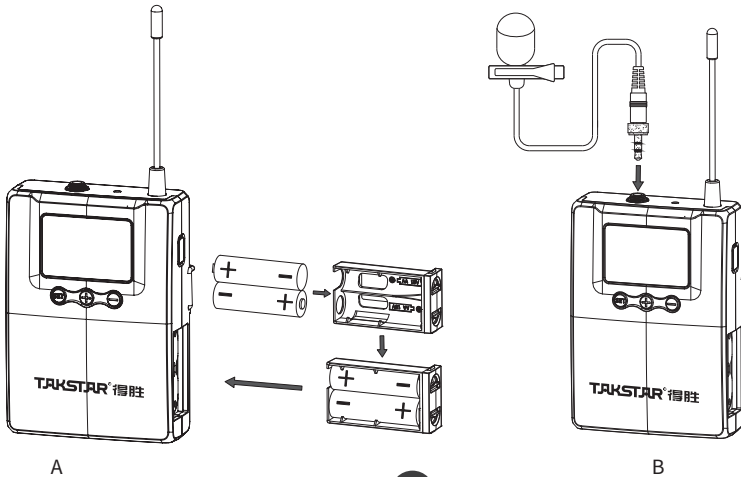
## How to Use SC-TD Handheld Microphone

1. Install two AA batteries into battery holder in correct direction. Press and hold power button for about 2s, the LCD display will light up, and the mic will power up, as shown below. The LCD screen also shows the current operating channel and battery level.
2. To change the operating channel, you should change the receiver channel first, then align the IR windows of both the transmitter and the receiver, and press SYNC on the receiver panel to send the new channel parameters to the transmitter (please refer to the Adjust Frequency section for receiver instructions).
3. To turn off the mic, press and hold power button for about 2s until the display shows "OFF" and goes off.



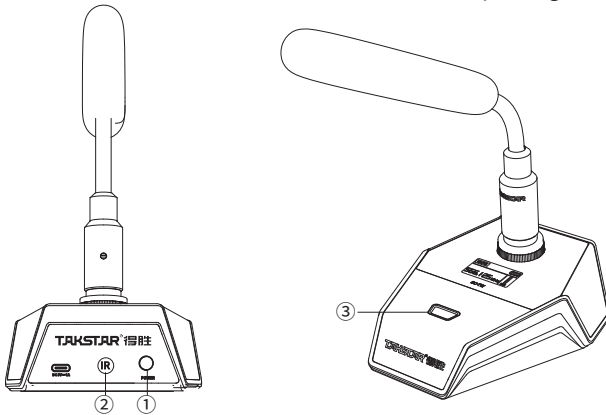
## How to Use SC-TL Bodypack Transmitter

1. Install batteries: push both the retractable buttons on the battery compartment to remove it. Install 2 pieces of AA batteries according to the polarity directions marked on the battery holder. Then insert the battery holder into the battery compartment until you hear a click sound, as shown in Figure A.
2. Insert the headset mic or lavalier mic plug into the transmitter's MIC socket and lock it in place, as shown in Figure B.
3. Turn down the receiver volume before powering on, then turn on the receiver by pressing the receiver power switch. Once powered on, the receiver LCD backlight lights up and then shows the receiver channel, frequency and auto sync status.
4. Observe the RF and AF level meter on receiver LCD. Change channel to avoid interference frequency if necessary.
5. Press and hold the transmitter power button for 2s to power on. The receiver RF level meter of the corresponding channel should increase.
6. To change the operating channel, you should change the receiver channel first, then align the IR windows of both the transmitter and the receiver, and press SYNC on the receiver panel to send the new channel parameters to the transmitter (please refer to the Adjust Frequency section for receiver instructions).
7. Adjust the receiver's mic output volume level as appropriate.



## How to Use SC-TW Wireless Conference Microphone

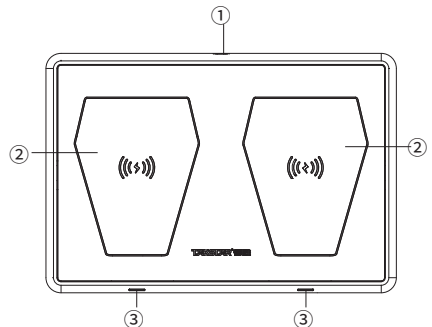
1. Press and hold the power button for 2s to turn on the mic.
2. To change the operating channel, you should change the receiver channel first, then align the IR windows of both the transmitter and the receiver, and press SYNC on the receiver panel to send the new channel parameters to the transmitter (please refer to the Adjust Frequency section for receiver instructions).
3. Touch the mute switch to unmute, in which case the indicator lights up blue.
4. Recommended distance from the mic is about 20-50cm when speaking.



## How to Use TW-C Charger

1. Connect the wireless charger with a compatible power adapter or USB power bank via the supplied USB cable.
2. Ensure that the wireless charger is facing upright without any objects on top.
3. Place the wireless conference mic in the rechargeable area specified on the charger. The indicator flashes blue while charging.

Note: If placed incorrectly, the wireless conference mic may not charge properly.



## ■ Troubleshooting

Issue	Cause
No response on transmitter or receiver screen.	Transmitter battery is dead; receiver power supply is not properly connected.
No RF signal on receiver.	Different frequency between transmitter and receiver; or out of effective range.
Has RF signal but no AF.	Transmitter is muted.
Loud background noise in audio signal.	Low output level on receiver; there is interference signal; receiver antennas are not installed, lowering S/N ratio.
Audio signal distortion.	Transmitter frequency deviation is too high; or receiver output level is too high.
Short operating distance, unstable signal.	Receiver antennas are not properly installed; or there is strong electromagnetic interference around.

## ■ Safety Instructions

To avoid electric shock, overheat, fire, radiation, explosion, mechanical risk and injury or property loss due to improper use, please read and observe the following items before use:

1. Please check if the power of the connected equipment matches with that of this product before operation. Adjust the volume to proper level during operation. Do not operate at over-power or high-volume level for extended time to avoid product malfunction or hearing impairment.
2. If there is any abnormality during use (e.g., smoke, strange odor), please kill the power switch and unplug from power source, then send the product to the local dealer for repair.
3. Never use any replacement battery with broken insulation. Do not charge non-chargeable battery.
4. Dispose waste batteries in designated dustbin for sorting. Do not use them as children's toy nor discard directly to avoid health risk or environmental damage.
5. Keep this product and its accessories in a dry and ventilated area. Do not store in a humid or dusty area for extended time. Keep away from fire, rain, liquid intrusion, bumping, throwing, vibrating, or from blocking any ventilation openings, to prevent malfunction.

6. The product must, when installed on walls or ceilings, be fixed firmly in place at adequate strength to prevent from falling.
7. Please abide by safety rules during operation. Do not use the product in places prohibited by laws or regulations to avoid accident.
8. Do not disassemble or repair the product by yourself to avoid injury. If you have any questions or require any services, please contact our local dealer.

### ■ About This Manual

This manual contains up-to-date technical specifications as of printing. However, specifications contained herein may not conform to your particular product since Takstar is constantly improving its products. For the latest version/more information, please visit our website: <https://www.takstar.com/>

Specifications, devices or accessories available may vary from region to region. If you have any questions, please contact our local dealer.

## 注意事项:

1. 本单为保修凭证, 请用户妥善保管, 如有遗失, 恕不保修或退换。
2. 保修期限制: 购买之日起十二个月内。
3. 除了不可抗力事件损坏外, 由本公司负责, 免费维修。
4. 如属保管不善或使用不当造成的损坏, 维修点将酌情收费。
5. 擅自拆卸维修者, 不予保修。
6. 以上保修条款仅限于中国市场适用 (不含港澳台地区)。

# 产品服务保证书

姓名: \_\_\_\_\_ 电话: \_\_\_\_\_ 地址: \_\_\_\_\_

商品: \_\_\_\_\_ 型号: \_\_\_\_\_ 购买日期: \_\_\_\_\_ 年 \_\_\_\_ 月 \_\_\_\_ 日

维修记录栏 (由维修员填写)	维修员签名	日期

◆广东得胜电子有限公司 ◆电话: 400-6828-333 ◆地址: 广东省惠州市博罗县龙溪街道富康一路2号



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