

TAKSTAR® 得胜



无线麦克风 Wireless Microphone

使用手册 | User Manual

UC-2R/UC-4R Wireless Microphone

■ Preface

Dear Customer,

Thank you for purchasing Takstar UC-2R/UC-4R 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

- Microcomputer controlled system, featuring frequency selection, LCD display, frequency data processing and automatic channel scan.
- On-board LCD display makes it easier to track system status and modify system settings.
- Transmitter battery level meter on receiver LCD screen, with low-power alert function.
- The system applies a variety of anti-interference technologies, comes with multiple non-interfering frequency presets, convenient for using several systems together.
- XLR balanced outputs and 6.35 unbalanced outputs, for connecting different external devices.
- 1U rack-sized metal chassis, aluminum alloy panel, sturdy, isolating harmonic radiation.

■ Applications

For karaoke, performance, conference, program host, speech, outdoor activity

■ Specifications

Receiver (UC-2R/UC-4R)

- Spurious Suppression: N50dB
- Image Rejection: N50dB
- Sensitivity: >25dBu (SIND=35dB)
- Audio Output Level: Balanced output (XLR output jack): 1200mV/600Ω
Unbalanced output (6.35 output jack) - UC-2R: 900mV/3KΩ
Unbalanced output (6.35 output jack) - UC-4R: 400mV/3KΩ
- Working Voltage: DC 12V; Working Current: 1A
- Chassis Size: 480 (W) X 190 (D) X 45 (H) mm

UC-2R/UC-4R Wireless Microphone

Transmitter (UC-TH1/UC-TH2/UC-TL/UC-TP/UC-TD)

- RF Power Output: 30mW max
- Oscillation Mode: PLL (digital frequency synthesizer)
- Transmission Frequency Stability: <30ppm
- Dynamic Range: $\geq 50\text{dB(A)}$
- Frequency Response: 80Hz-18KHz
- Max Input SPL: 130dB SPL
- Handheld Mic Capsule: dynamic
- Bodypack/Conference Mic Capsule: condenser
- Power Supply: 2PCS AA alkaline batteries (expected use time is about 8hrs)

Transmitter (UC-LD/UC-LH1/UC-LH2)

- RF Power Output: 30mW max
- Oscillation Mode: PLL (digital frequency synthesizer)
- Transmission Frequency Stability: <30ppm
- Dynamic Range: $\geq 50\text{dB(A)}$
- Frequency Response: 80Hz-18KHz
- Spurious Suppression: -60dB
- Handheld Mic Capsule: dynamic
- Conference Mic Capsule: condenser
- Battery: 1x 18650, 3.7V/1200mA, about 8hrs
- Charging: DC 5V $\approx$ 2A

Overall System Parameters

- Frequency Range: 580-630MHz
- Frequency Bandwidth: 60MHz
- Modulation Method: FM
- Max Frequency Deviation: $\pm 45\text{KHz}$
- Frequency Response: 80Hz-18KHz
- Signal-To-Noise Ratio (S/N): $> 50\text{dB}$
- Distortion: 1kHz $< 0.5\%$
- Operating Temperature: TOP $\sim 55^{\circ}\text{C}$
- Working Distance: 100 meters (under ideal conditions)
- Power Consumption: 8W
- Static Power: 3W

Note: The above data is measured by Takstar laboratory.

UC-2R/UC-4R Wireless Microphone

■ Package Contents

UC-2R

Receiver	1PCS
Audio Cable	1PCS
Power Adapter.....	1PCS
Antenna	2PCS
User Manual	1PCS

UC-TP (optional)

Bodypack Transmitter	1PCS
Lavalier Mic	1PCS
Headset Mic	1PCS
1.5V AA Battery	2PCS

UC-TH1 (optional)

Conference Mic Base.....	1PCS
Gooseneck Mic	1PCS
1.5V AA Battery	2PCS

UC-LD (optional)

Handheld Transmitter.....	1PCS
3.7V 18650 Battery	1PCS
Anti-Slip Ring.....	1PCS
Charging Cable	1PCS

UC-LH2 (optional)

Conference Mic Base.....	1PCS
Short Stem (Rectangular) Mic.....	1PCS
3.7V 18650 Battery	1PCS
Charging Cable	1PCS

UC-4R

Receiver	1PCS
Audio Cable	1PCS
Power Adapter.....	1PCS
Antenna	4PCS
User Manual	1PCS

UC-TD (optional)

Handheld Transmitter.....	1PCS
1.5V AA Battery	2PCS

UC-TH2 (optional)

Conference Mic Base.....	1PCS
Short Stem (Rectangular) Mic.....	1PCS
1.5V AA Battery	2PCS

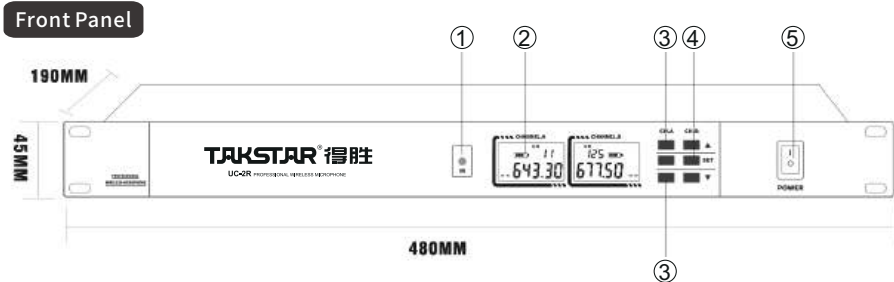
UC-LH1 (optional)

Conference Mic Base.....	1PCS
Gooseneck Mic	1PCS
3.7V 18650 Battery	1PCS
Charging Cable	1PCS

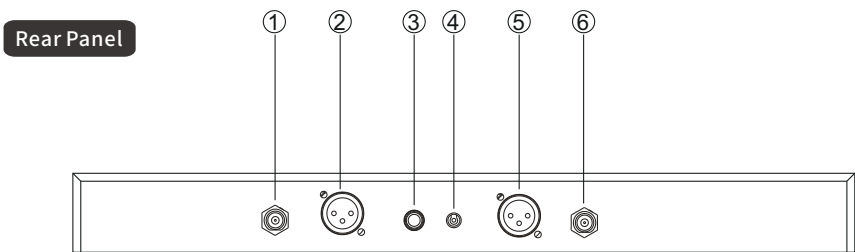
UC-2R/UC-4R Wireless Microphone

■ Function Descriptions

Receiver (Dual-Channel)



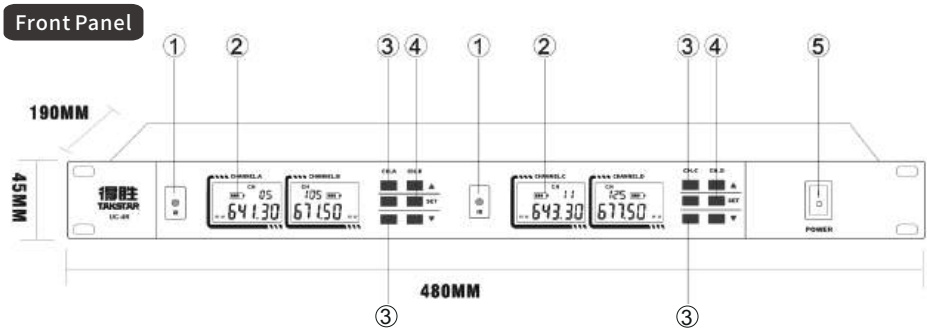
- ① Infrared (IR) Sync Window: transmit frequency parameters to the transmitter to sync transmitter with receiver frequency, by using the “SET” button.
- ② LCD Display: display the system working status.
- ③ Up/Down Buttons (): used mainly for frequency and volume adjustment.
- ④ Confirmation Button (SET): press it to start or confirm menu selection.
- ⑤ Power Switch (POWER): used for power supply control of the device.



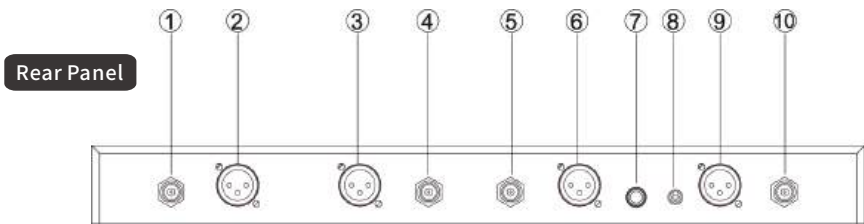
- ① Antenna Connector B (ANT-B): used to connect an external antenna.
- ② Balanced Output Socket (BALANCED-B): XLR connector; signals of the two channels are output separately.
- ③ 6.35mm Unbalanced Mixed Output Socket (MIXED OUTPUT): signals of the two channels are mixed into one output.
- ④ Power Socket (DC INPUT): accept power supply to the receiver via a power adapter.
- ⑤ Balanced Output Socket (BALANCED-A): XLR connector; signals of the two channels are output separately.
- ⑥ Antenna Connector A (ANT-A): used to connect an external antenna.

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Receiver (Four-Channel)



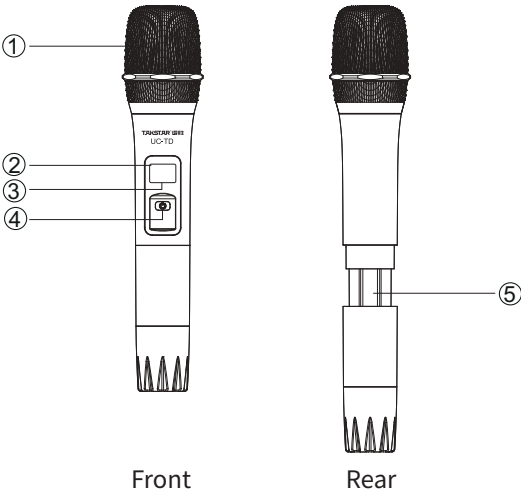
- ① Infrared (IR) Sync Window: transmit frequency parameters to the transmitter to sync transmitter with receiver frequency, by using the “SET” button.
- ② LCD Display: display the system working status.
- ③ Up/Down Buttons ($\blacktriangle$): used mainly for frequency and volume adjustment.
- ④ Confirmation Button (SET): press it to start or confirm menu selection.
- ⑤ Power Switch (POWER): used for power supply control of the device.



- ① Antenna Connector D (ANT-D): used to connect an external antenna.
- ② Balanced Output Socket (BALANCED-D): XLR connector; signals of each channel are output separately.
- ③ Balanced Output Socket (BALANCED-C): XLR connector; signals of each channel are output separately.
- ④ Antenna Connector C (ANT-C): used to connect an external antenna.
- ⑤ Antenna Connector B (ANT-B): used to connect an external antenna.
- ⑥ Balanced Output Socket (BALANCED-B): XLR connector; signals of each channel are output separately.
- ⑦ 6.35mm Unbalanced Mixed Output Socket (MIXED OUTPUT): signals of all four channels are mixed into one output.
- ⑧ Power Socket (DC INPUT): accept power supply to the receiver via a power adapter.
- ⑨ Balanced Output Socket (BALANCED-A): XLR connector; signals of each channel are output separately.
- ⑩ Antenna Connector A (ANT-A): used to connect an external antenna.

UC-2R/UC-4R Wireless Microphone

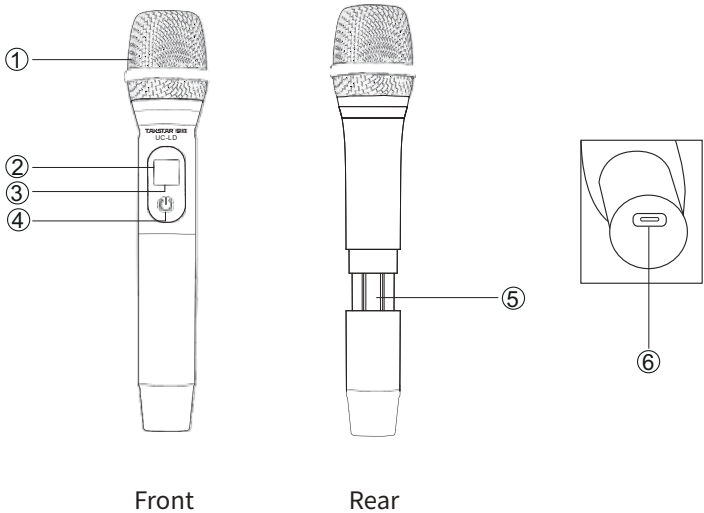
UC-TD Handheld Transmitter



- ① Mesh Head and Capsule Cartridge: the mesh head protects the capsule cartridge (that converts sound to audio signal), filters out pops and airflow noise, and prevents mic from rolling on table.
- ② LCD Display: display the working frequency, battery power, infrared pairing operation, etc.
- ③ Infrared Sync Window: receive frequency parameters from receiver, by using the “SET” button on receiver.
- ④ Power Switch: press to power up the mic, then press and hold to power off.
- ⑤ Battery Compartment: used to install 2PCS AA alkaline batteries. (Please observe battery polarity)

UC-2R/UC-4R Wireless Microphone

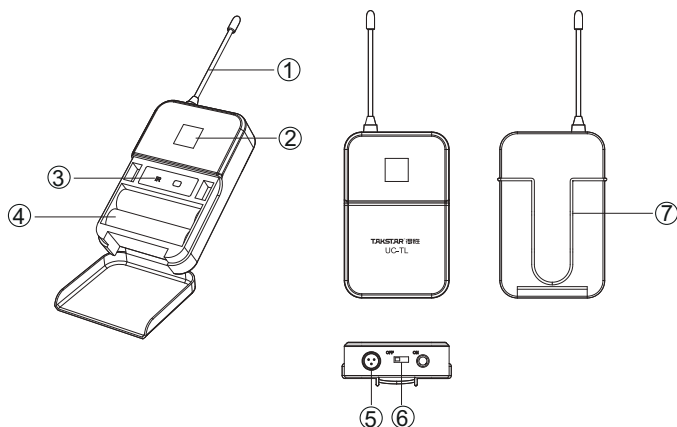
UC-LD Handheld Transmitter



- ① Mesh Head and Capsule Cartridge: the mesh head protects the capsule cartridge (that converts sound to audio signal), filters out pops and airflow noise, and prevents mic from rolling on table.
- ② LCD Display: display the working frequency, battery power, infrared pairing operation, etc.
- ③ Infrared Sync Window: receive frequency parameters from receiver, by using the “SET” button on receiver.
- ④ Power Switch: press to power up the mic, then press and hold to power off.
- ⑤ Battery Compartment: used to install 1x 18650 li-ion battery. (Please observe battery polarity)
- ⑥ Type-C Port: connect a Type-C cable to power adapter for charging the mic.

UC-2R/UC-4R Wireless Microphone

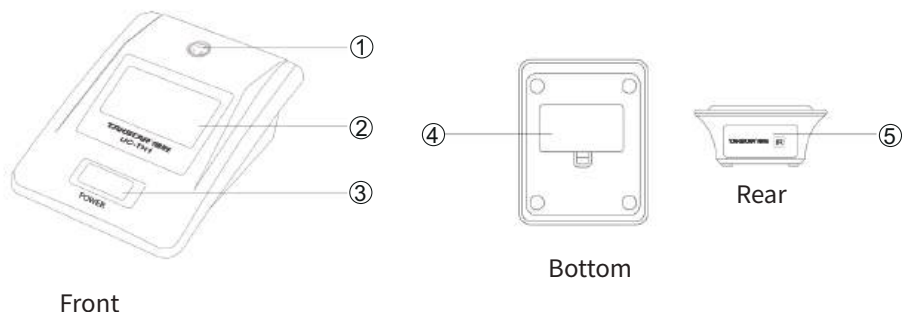
Bodypack Transmitter



- ① External Antenna: 1/4 wavelength antenna.
- ② LCD Display: display information such as operating frequency and battery power.
- ③ Infrared Sync Window: receive infrared beams to synchronize frequency.
- ④ Battery Compartment: used to install 2PCS AA alkaline batteries. (Please observe battery polarity)
- ⑤ 3-Pin Mic Input Socket: used to install and remove lavalier mic or headset mic.
- ⑥ Power Switch: flip to "ON" direction to power up; flip to "OFF" direction to power off.
- ⑦ Waist Buckle: used to fasten the transmitter onto the belt.

UC-2R/UC-4R Wireless Microphone

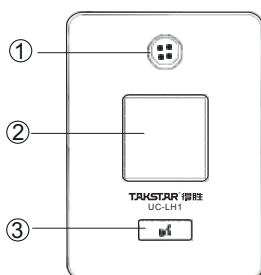
UC-TH Conference Transmitter



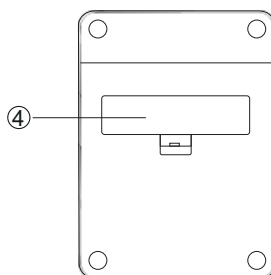
- ① 4-Pin Mic Input Socket: used to install and remove the pluggable mic.
- ② LCD Display: display information such as operating frequency and battery power.
- ③ Power Switch: press to power up, then press to mute/unmute, and press and hold to power off the mic.
- ④ Battery Compartment: used to install 2PCS AA alkaline batteries. (Please observe battery polarity)
- ⑤ Infrared Sync Window: receive frequency parameters from receiver, by using the “SET” button on receiver.

UC-2R/UC-4R Wireless Microphone

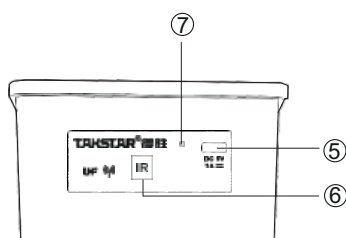
UC-LH Conference Transmitter



Front



Bottom

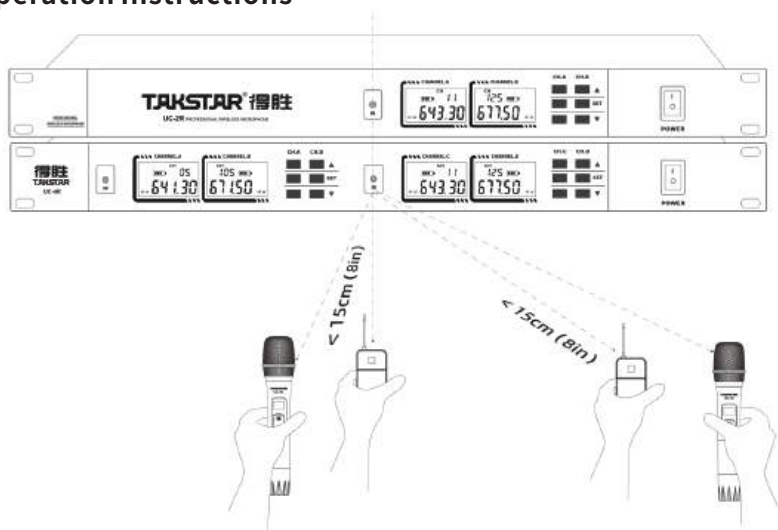


Rear

- ① 4-Pin Mic Input Socket: used to install and remove the pluggable mic.
- ② LCD Display: display information such as operating frequency and battery power.
- ③ Power Switch: press to power up, then press to mute/unmute, and press and hold to power off the mic.
- ④ Battery Compartment: used to install 1x 18650 li-ion battery. (Please observe battery polarity)
- ⑤ Type-C Port: connect a Type-C cable to power adapter for charging the mic.
- ⑥ Infrared Sync Window: receive frequency parameters from receiver, by using the “SET” button on receiver.
- ⑦ Power Indicator: shows red when charging and blue when fully charged.

UC-2R/UC-4R Wireless Microphone

■ Operation Instructions



1. Manual Frequency Adjustment:

Switch on the receiver power. On default home screen, press "SET" button once, then press "▲" or "▼" button on the respective channel to adjust to a desired frequency. Next, press "SET" again to start pairing, the LCD screen will flicker and show "IR-". Meanwhile, power up the transmitter, align both IR windows on the transmitter and the receiver within 10cm-30cm, and wait until the frequency shown on the transmitter changes to the receiver frequency. If synced successfully, there should be AF audio signal when you talk to the mic. If failed to sync, please retry all the afore steps.

2. Automatic Frequency Scan:

Switch on the receiver power. On default home screen, press and hold "SET" button, then press "▲" or "▼" button on the respective channel to start automatic frequency scan. The screen will flicker as it scans. And when it finds the cleanest frequency available, the receiver will begin IR sync automatically. Meanwhile, power up the transmitter, align both IR windows on the transmitter and the receiver to complete syncing.

3. System Locking Operation:

Locking: In the initial interface, simultaneously press and hold the "SET" button for channels A and B or C and D for 2 seconds, and all function keys will be locked (except for the power switch).

Unlocking: To unlock, simultaneously press and hold the "SET" button for channels A and B or C and D for 2 seconds.

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■ Safety Instructions

To avoid electric shock, overheating, 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. 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.
4. The product must, when installed on walls or ceilings, be fixed firmly in place at adequate strength to prevent from falling.
5. Please abide by safety rules during operation. Do not use the product in places prohibited by laws or regulations to avoid accident.
6. 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.
7. Do not disassemble the battery charger to avoid damaging the PVC, which can affect conductivity and pose risks of short circuits, overheating, and fire.
8. For optimal performance, please fully charge the lithium-ion battery before its first use.

■ 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. Also, specifications, devices or accessories available may vary from region to region. If you have any questions, please contact our local dealer. For the latest version/more information, please visit our website: <https://www.takstar.com/>

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

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