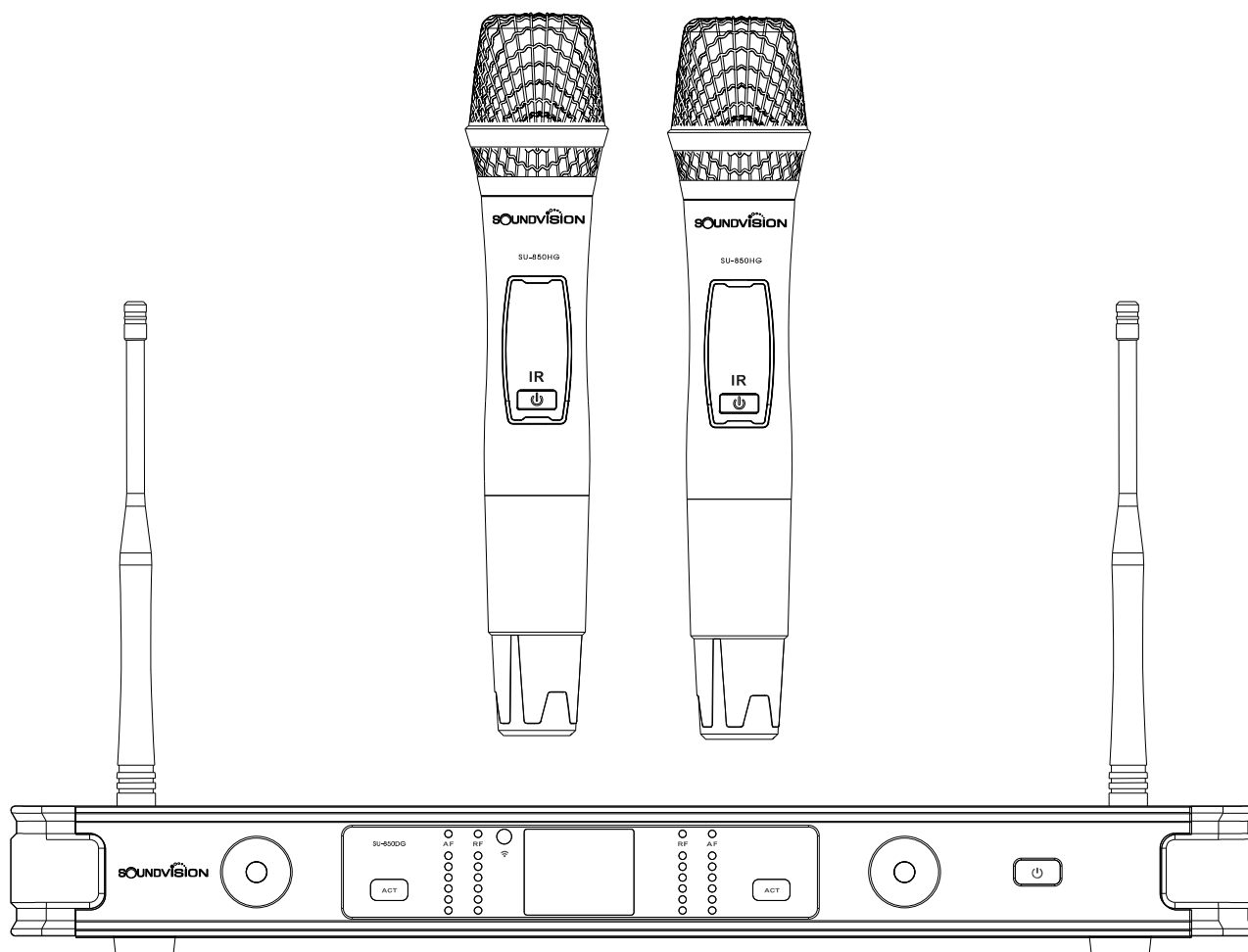


**SOUNDVISION™**

**SU-850DG**



**DIGITAL WIRELESS MICROPHONE SYSTEMS**

# USER MANUAL

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### **CAUTION!**

Please do read this manual carefully before using. Wireless microphones can scatter radio energy, please do follow the instruction to install and operate in case causing harmful influence. Do abide local radio regulations when using wireless microphones. We can offer you frequency products, and please choose specific range according with local radio regulations; otherwise, you will take full responsibility of all consequences.

## INTRODUCTION

Our company has designed and developed this excellent wireless microphone system using a fully integrated solution, microphone system is very easy to install and convenient to use. This model SU-850D SERIES adopts intelligent cryptographic hardware, to achieve unique sound and RF performance frequencies , TFT display menu on receiver shows and battery make it easy installation.

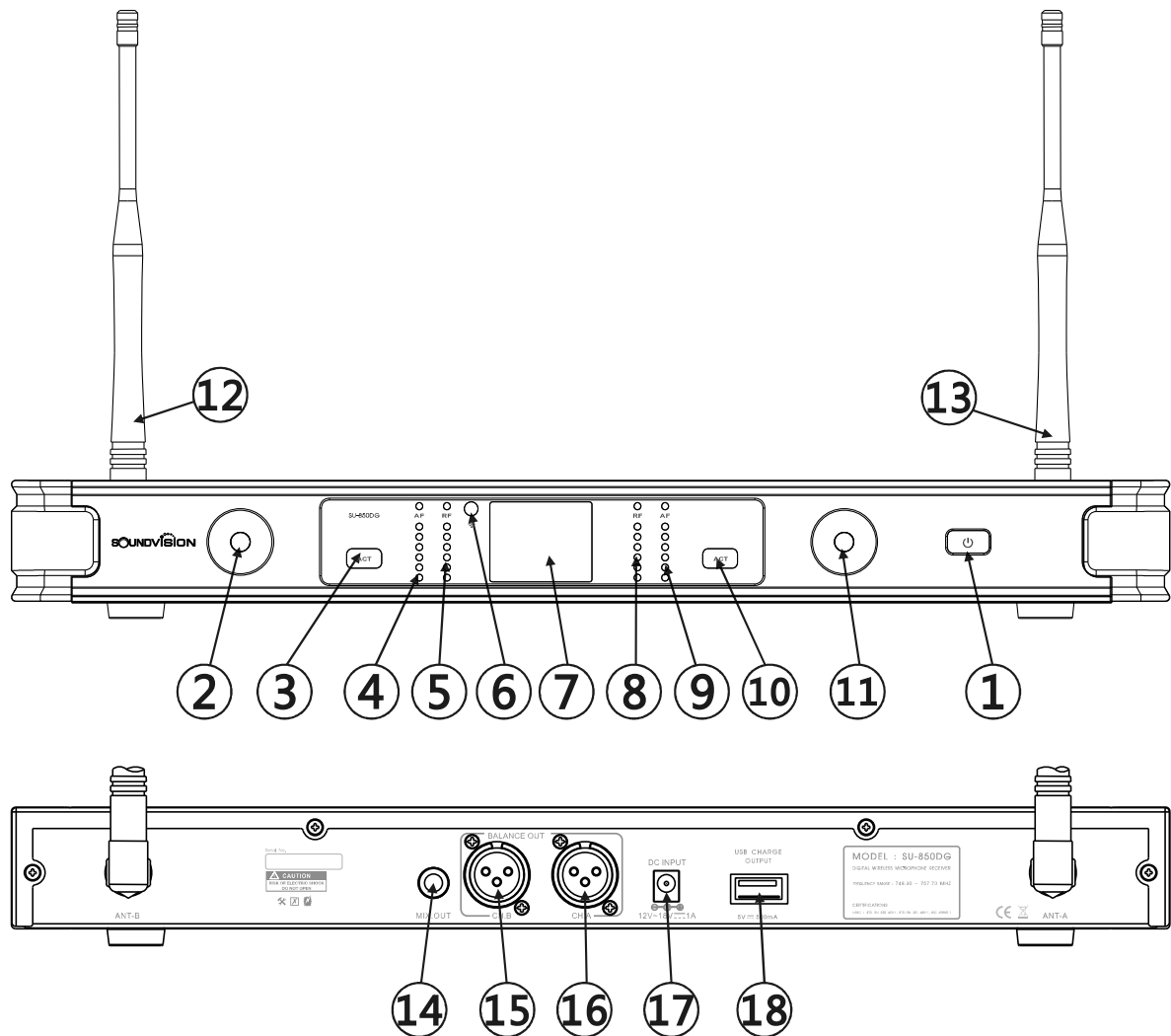
## FEATURES

- Digital UHF 748.3 ~ 757.7 MHz frequency range.
- Frequency response 30Hz ~ 20kHz  $\pm 2$ dB
- Pre-Set 190CH (2\*95CH) selectable frequencies.
- Charge handheld microphone by receiver.
- TFT display to indicate frequency, battery level, volume level, Channel and Menu Settings.
- OLED Display for handheld microphones
- AF / RF signal indicator LED light on receiver
- Up to 100 Meters line-of-sight range. / Output power 5mW/20mW
- Auto mute when falling or laid down.
- Unique digital 16 bits ID pilot technology, no crosstalk disturbance even same frequency.
- IR sync downloading the frequency from receiver.
- Wireless system adopts Intelligentized cryptographic hardware.
- An efficient battery energy design that allows the microphone to be used continuously for longer periods of time.
- Ideal for large and small stages, clubs music entertainment, conference, meeting, training, speeches and karaoke etc.

Certifications : CE and RoHS / The SU-850D SERIES conforms to standard  
NBTC I ETSI EN 300 422-1 , 301 489-9 , EN 62479 , IEC 60950-1

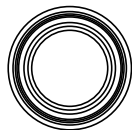
# SU-850DG DIGITAL WIRELESS MICROPHONE SYSTEMS

## RECEIVER





- |                                      |                                       |
|--------------------------------------|---------------------------------------|
| 1. POWER                             | 10. IR - B CH                         |
| 2. UNLOCK / FUNCTION / VOLUME - A CH | 11. UNLOCK / FUNCTION / VOLUME - B CH |
| 3. IR - A CH                         | 12. ANTENNA - A CH                    |
| 4. AF INDICATOR - A CH               | 13. ANTENNA - B CH                    |
| 5. RF INDICATOR - A CH               | 14. MIX. OUT                          |
| 6. IR INDICATOR                      | 15. BALANCE OUT - B CH                |
| 7. TFT DISPLAY                       | 16. BALANCE OUT - A CH                |
| 8. RF INDICATOR - B CH               | 17. DC INPUT                          |
| 9. AF INDICATOR - B CH               | 18. USB CHARGE OUTPUT                 |

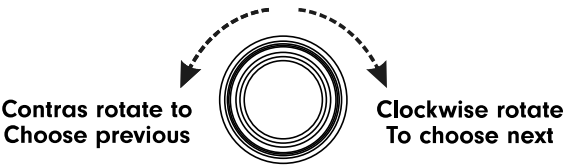
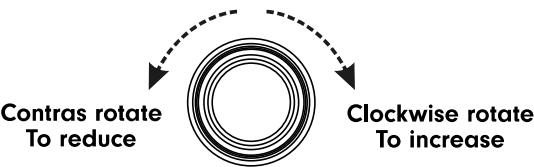
CONTROL KNOB



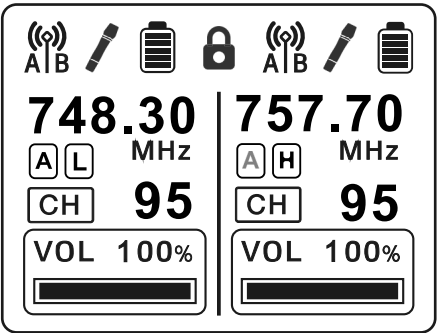
Click the knob to enter or confirm.

In the state of  , contra rotate SET knob to reduce volume, while clockwise rotate it to increase volume.

In the state of  , SET knob is used for choosing, editing function and confirming, contra rotate it to choose previous item, while clockwise rotate it to choose next item.



RECEIVER DISPLAY



748.30MHz

Receiver working frequency is 748.30 ~ 757.7MHz



Diversity signal symbol



Power of working handheld microphone



MUTE symbol



Receiver is in LOCK condition



Low



High



Microphone auto mute setting menu



95 Channels



Receiver volume

# SU-850DG DIGITAL WIRELESS MICROPHONE SYSTEMS

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## RECEIVER OPERATION

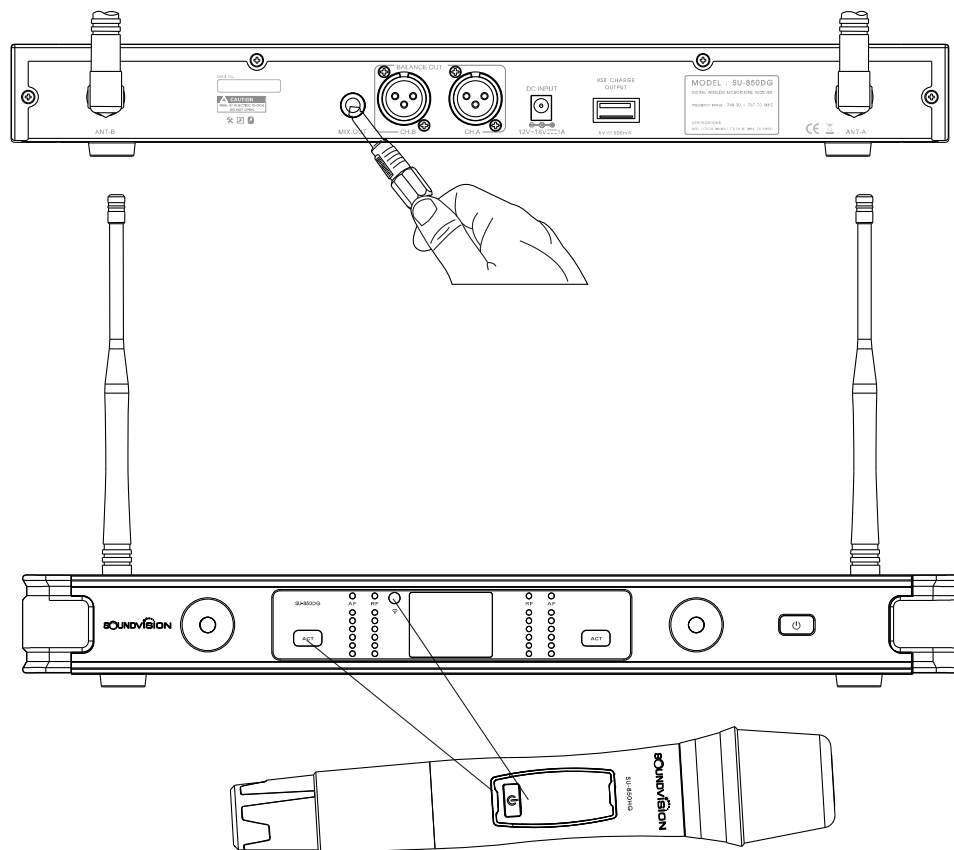
- Power Connection:

Connect the attached adaptor to DC input port (17).

- Audio Output Connection:

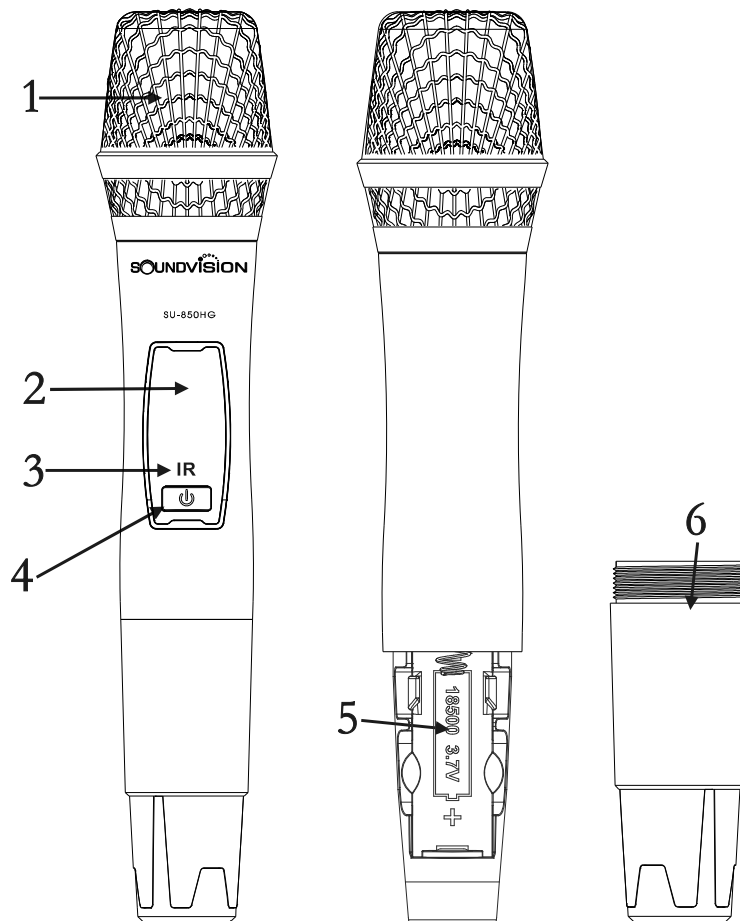
Mix Output: connect one end of the attached audio cable into OUT.

Mix port (14), meanwhile connect the other end to MIX IN or AUX IN port of mixer or speaker.



SNYC IR operation shows as above picture. Boot up receiver, firstly long press UNLOCK button to unlock system, and then choose non-interference frequency, and then long press IR button for 3 seconds till the IR indicator flashing and transmit IR signal, meanwhile, boot up microphone and keep its IR window close to receiver's. Same frequency will show on microphone and receiver at the same time when IR SNYC successfully, and RF indicator on receiver will be lighted on.

## HANDHELD MIC OPERATION

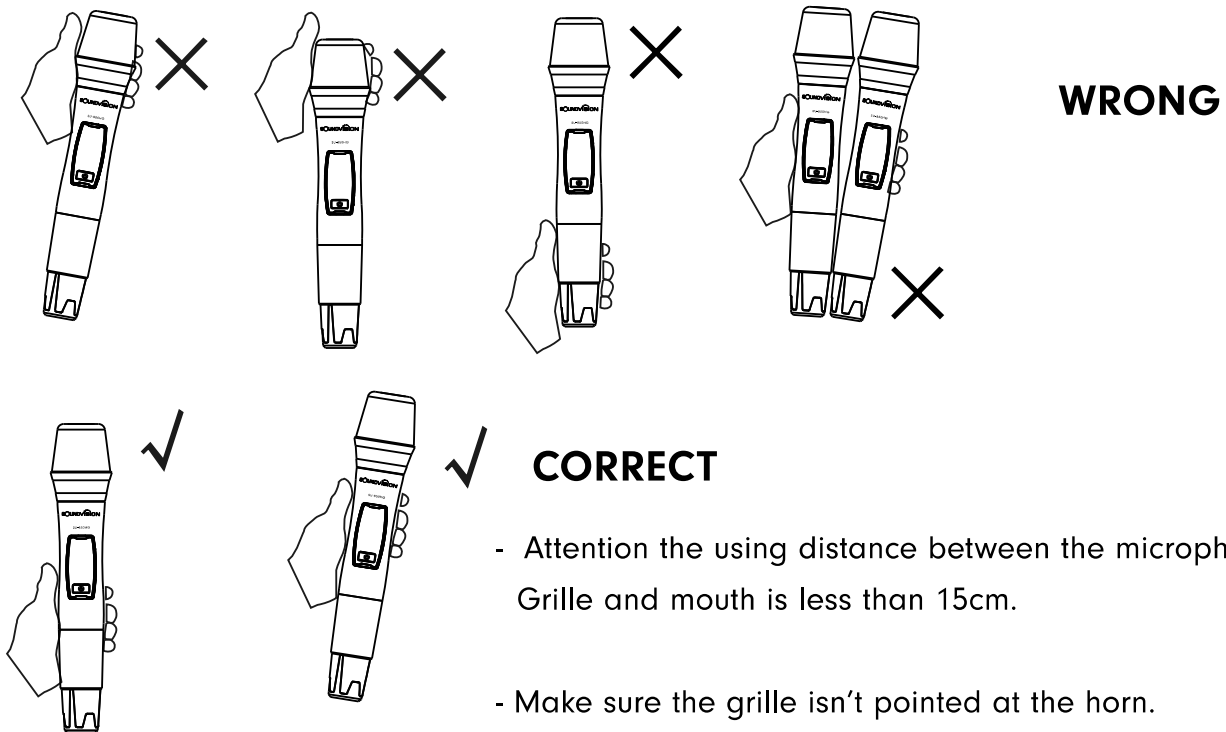


1. CARTRIDGE : pick up sound.
2. LCD DISPLAY : indicates microphone working status.
3. IR WINDOW : SYNC IR signal with receiver IR window.
4. POWER BUTTON : control handheld microphone to be power on, off and mute.
5. BATTERY SINK : insert 1 x 18500 lithium battery.
6. BATTERY COVER : unscrew it when change batteries.

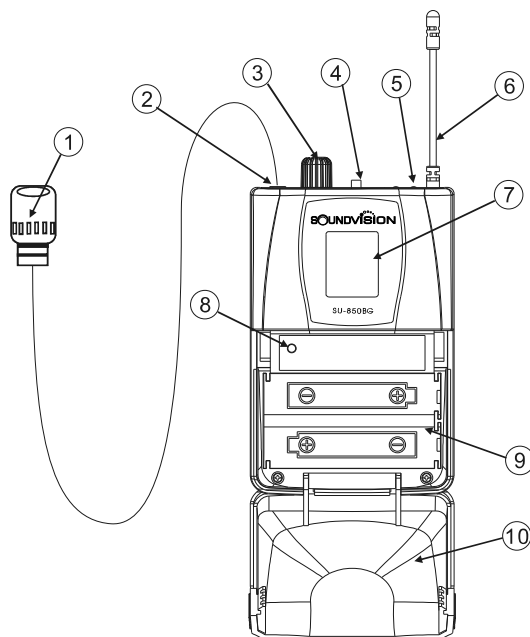
## SU-850DG DIGITAL WIRELESS MICROPHONE SYSTEMS

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### HANDHELD MICROPHONE USING TECHNIQUE



### BODY-PACK TRANSMITTER (OPTIONAL)



1. Microphone: pick up sound.
2. Input Socket.
3. - VOL + : volume control.
4. ON OFF: power switch.
5. POWER: power indicator.
6. Antenna.
7. LCD: indicates bodypack working status.
8. IR: SYNC IR signal with receiver IR window.
9. Battery Sink: insert 2x1.5V AA batteries, be awarded to insert them in correct polarity.
10. Battery Cover.

## SPECIFICATIONS

### SYSTEM

<b>Carrier Frequency</b>	UHF 748.3 ~ 757.7MHz
<b>Available Channels</b>	190CH (2 x 95CH)
<b>Bandwidth</b>	9.5MHz
<b>Dynamic Range</b>	96dB
<b>Total Harmonic Distortion</b>	<0.1%
<b>Frequency Response</b>	30Hz ~ 20kHz $\pm$ 2dB
<b>Demodulation Mode</b>	DQPSK
<b>Sampling Rate</b>	48 KHz
<b>Audio Output Level</b>	1 x 6.3mm, 1 x XLR balance output

### SU-850DG : Receiver

<b>Frequency response</b>	30Hz ~ 20kHz $\pm$ 2dB
<b>Power supply</b>	DC 12V-18V 1A
<b>Consumption power</b>	2 Watts
<b>Signal/noise ratio</b>	96dB
<b>Receiving sensitivity</b>	-95dBm

### SU-850HG : Handheld transmitter

<b>Carrier frequency</b>	UHF 748.3 ~ 757.7MHz
<b>Available channels</b>	190CH (2 x 95CH)
<b>Bandwidth</b>	9.5MHz
<b>Frequency switch</b>	IR SYNC
<b>Microphone type</b>	Dynamic
<b>Polar pattern</b>	Cardioid Directional
<b>Frequency response</b>	50Hz - 15kHz $\pm$ 5dB
<b>Impedance</b>	580 $\Omega$ $\pm$ 15% @1kHz
<b>Sensitivity</b>	-52dB $\pm$ 2dB (0dB=1V/Pa @1kHz)
<b>Output power</b>	5mW / 20mW
<b>Harmonic radiation</b>	<-50dBc
<b>Battery</b>	18500 Lithium battery (1500mAh) (USB Charger)
<b>Battery life</b>	approx 10 hours



WARNING

## WARNING

- Do place receiver in open space, so that it can receive signals better.
- Do not throw the device.
- Do not place the device under rain or drop it into water.
- Keep device away from sunshine or electromagnetic field.
- Do insert batteries in the right way and remove them if device is idle for long time.
- Cut off power the supply before battery replacement.
- Pull out power adaptor from the power supply if the receiver is idle for long time.
- Do not take apart device without permission in case users are injured.
- Device does not contain any part for self-refuting, otherwise, the warranty will be void.
- Use soft cloth to clean device, if there is any stubborn stain, clean it with neutral detergent but not volatile gasoline or thinner.
- Keep at least 30CM space around device for better ventilating.
- Do not cover ventilation holes with paper, tablecloth or curtain.
- Do not put the fire on device like burning candle.
- Keep device away from water drops, or any container with liquid like vase.
- Do not use new and old batteries at the same time, besides, replace them with same kind batteries. Discarding batteries to specific recycling bin.
- Working temperature: 5°C - 60°C

Please try below methods to solve interfered problem when using wireless microphones

- Adjust place or direction of the antenna.
- Keep away from radio or TV.
- Do not plug into same electrical socket outlet with radio or TV.
- The best angle is 45° for mouth and microphone when speech, in order to reduce affected by airflow from the mouth.
- Using 1 microphone when 1 sound input, otherwise sound will be mixed.
- Keep a distance of mouth and microphone less than 15CM because of cardioid pickup, otherwise bass is not good.

## TRADEMARK AND LICENSES



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