



# smarteck BT-233 UHF Wireless Microphone System User Manual

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## smarteck BT-233 UHF Wireless Microphone System



### Product list

- Receiver x1
- Handheld Mic x2
- Audio Cable x1
- Power Adapter x1
- 1.5V AA Battery x4
- Manual x1

As the product is constantly improving, there won't be any further notice for the improver. Thank you for buying our excellent wireless microphone series Products before you use our products please read the Owner's Manual so that you can enjoy it.

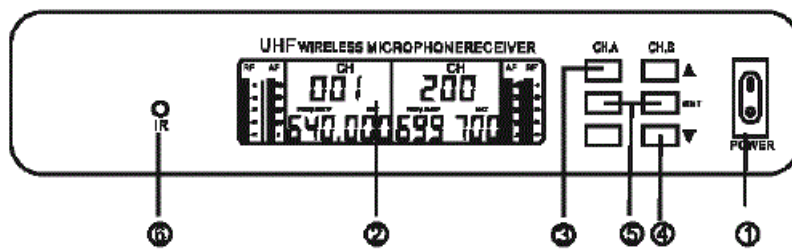
### FEATURES

- Adopt UHF high band, with less interference and more reliable transmission.
- Adopt multi-channel frequency synthesis technology, providing more than 200 channels easily to avoid all kinds of interferences when many sets use together at the same time.
- With advanced automatic frequency technology, even if the transmitter's and receiver's frequency has been changed, you can conveniently adjust the frequency to correspond with the receiver by clicking the button.
- Lock function, avoid misuse.
- Sensitivity is adjustable, and the anti-interference improved.
- The LCD display is more intuitive.

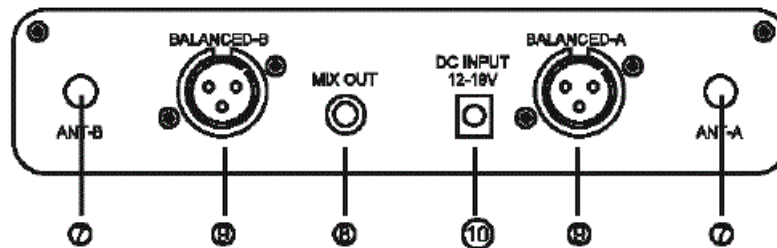
### RECEIVER FEATURES

1. **POWER SWITCH:** Press the button the power on or off.
2. **LCD DISPLAY:** Display the receiver's current working condition.
3. UP Button(..&.)
4. DOWN Button(T)
5. IR Button(SET)
6. IR Sync Port
7. **TELESCOPING ANTENNA:** Receives signals from the transmitter.
8. **BALANCED OUTPUT:** Output audio signal separately to connect the amplifier.
9. **AUDIO OUTPUT:** Output the audio signals for connection to amplifiers.
10. **POWER INPUT:** Accepts power from supplied DC adapter.

### Front Panel



### Rear Panel



## TROUBLESHOOTING

If the unit fails to operate normally, check the following points to determine whether the fault can be corrected by the simple measures suggested. If it cannot be corrected, or if the fault is not listed in the PROBLEM column, disconnect the power cable and contact the authorized dealer or service center for help.

<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>
<b>No operation indication</b>	Transmitter's batteries are exhausted or DC in is not connected well.
<b>No RF signal</b>	Transmitter and receiver are not at the same channel Transmitter is out of range
<b>RF signal available, no audio signal</b>	Damaged or disconnected microphone sensor
<b>Audio signal has a high level of background noise</b>	Transmitter sensitivity is adjusted too low Receiver's AF output level is adjusted too low
<b>Audio signal is distorted</b>	Transmitter sensitivity is adjusted too high Receiver's AF output level is adjusted too high
<b>The use of short-distance, Signal instability</b>	Transmitter set at a low-power Squelch is too high Receiver antenna set improper Surrounded by strong electromagnetic interference

## **SAFETY**

### **Care and maintenance**

Keep the machine away from dampness, electromagnetic fields, and high temperature. Never expose them to direct sunlight. Take out of the batteries of the transmitter and unplug the power wire of the receiver if you don't use it for a long time.

### **Cleaning**

Pull out the plug, and use a slightly damp cloth to clean the machine. Do not use any cleansing agents or solvents.

### **Maintenance**

Never open the machine by yourself when problems appeared, please contact the local district butter or call us directly, We will do our best!

### **Repair**

If the units are opened by customers, the warranty expires.

## **UHF Wireless microphone system**

### **Technical Parameter**

- **Frequency Range:** UHF 620-950MHz

- **Frequency Response:** 40Hz-18KHz
- **Frequency Stability:**  $\pm 0.005\%$
- **Modulation Mode:** Wide-band FM
- **Modulation Range:** 25MHz
- **Channels:** 2×1 00CH
- **Working Distance:** 60 M
- **Channel Spacing:** 250 KHz
- **Dynamic Range:** 1 00dB
- **Maximum Deviation:**  $\pm 45\text{KHz}$
- **AF Response:** 65Hz-15KHz ( $\pm 3\text{ dB}$ )
- **T.H.D.:**  $< 0.5\%$
- **Audio Output Balance:** 0- $\pm 500\text{mV}$

## Receiver

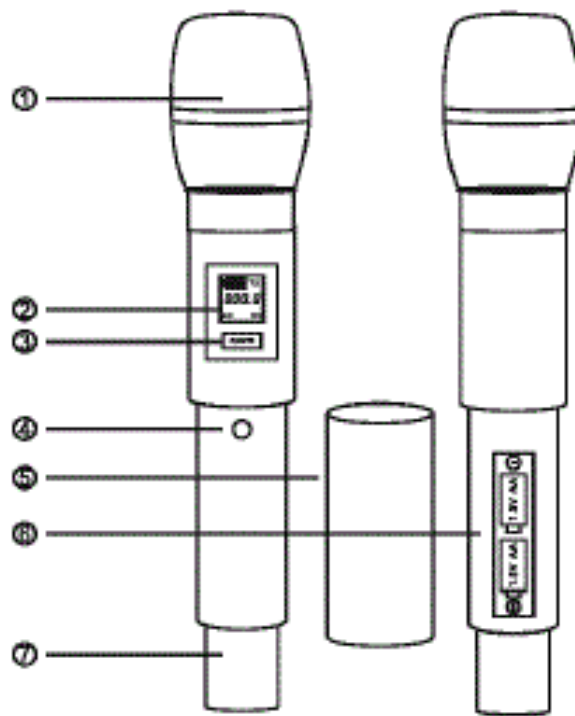
- **Power Supply:** AC 100-240V, 50/60Hz
- **DC Adaptor Output Power:** 13-15V, 500mA
- **Power Consumption:** 5W
- **S/N Ratio :**  $> 98\text{dB}$
- **P/N Ratio :**  $> 80\text{dB}$
- **F/N Ratio:**  $> 80\text{dB}$
- **Receive Sensitivity:** 5dBu

## Transmitter(Microphone)

- **Modulation Mode:** FM
- **Tunable Bandwidth:** 50MHz
- **Frequency Interval:** 250KHz
- **Maximum Deviation:**  $\pm 45\text{kHz}$
- **Harmonics Radiation:**  $< -55\text{dBc}$
- **Transmitter Power:** 1 0mW
- **Battery Voltage:** AA 1.5VX2
- **Battery Life:** 5 hours

## FUNCTION INTRODUCTION

1. Grille
2. LCD
3. Power switch
4. IR Pairings
5. Battery cover
6. Battery box
7. Antenna



#### OPERATION OF THE HANDHELD MICROPHONE

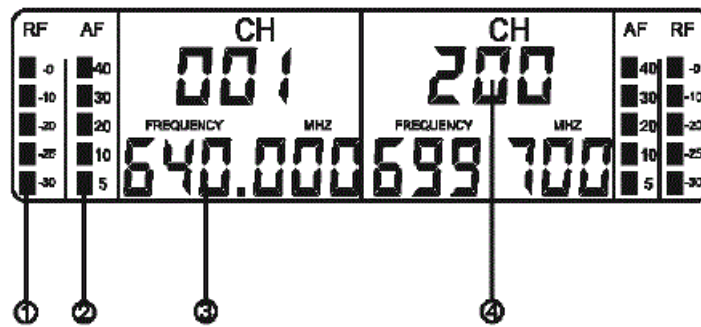
1. Turn on the power of the transmitter, the LCD will light up and display the current channel and battery capacity.
2. When you want to change the channel or frequency, you should change the receiver first, then take the transmitter pointing to the infrared window, press the "SET" button, and the frequency will be synchronized to the transmitters.

#### OPERATION OF THE RECEIVER

1. Adjust the volume to the smallest before turning on the transmitter, then turn on the receiver, the LCD lights up and the alphanumeric displayed, then LCD will display the channel and frequency of the receiver, press the SET button can change the status.
2. When the transmitter is off, you should observe the RF and AF level, if strong interference appeared, change the channel to avoid the interference point.
3. Turn on the transmitter, the RF level meter lights up, and adjust the volume to the property, speak, the AF level meter of the receiver lights up when there is no sound or the level meter lights don't shine, indicating that the system is abnormal and should be maintained.
4. Press the POWER button to turn off the receiver.

#### Receiver LCD

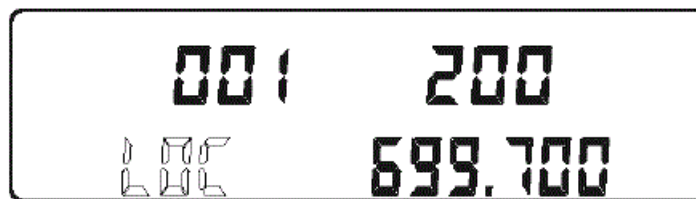
1. level display for receiver RF signal "RF".
2. level display for receiver audio signal "AF".
3. Using frequency display.
4. Using Channel display.



## OPERATION MENU OF LCD

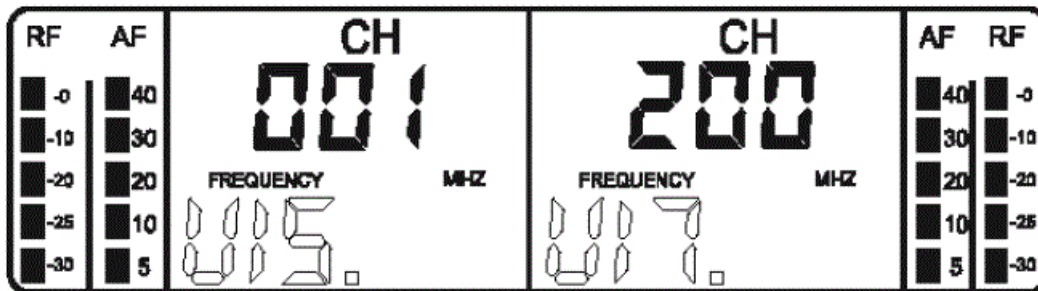
### 1. Lock Display Screen

In the meantime, press the UP button (▲) and the DOWN button (▼), and then the receiver display screen will be locked, Same operation is to release the lock.



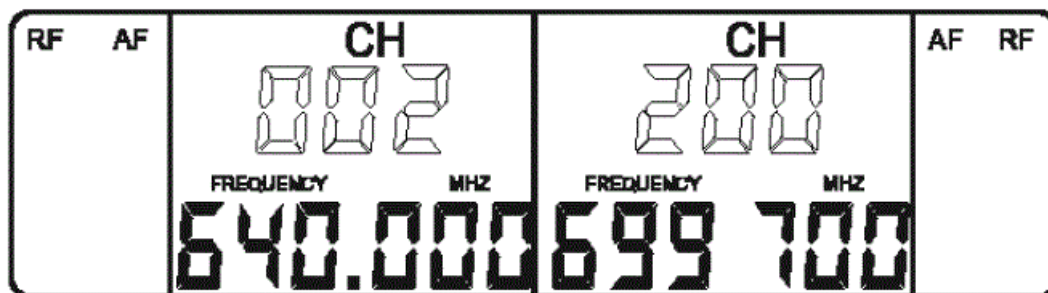
### 2. Volume control

Press the UP button (▲) and the DOWN button (▼), and the device volume increases or decreases.



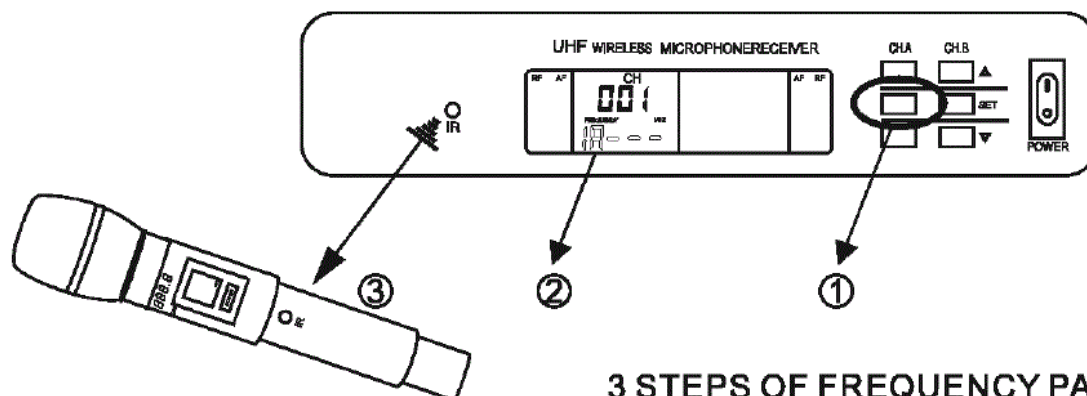
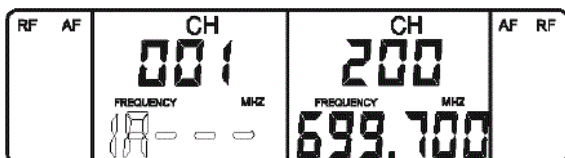
### 3. Adjust Frequency

Long press the "▲" button, and the number of the frequency will flick, you can use the UP (▲) "or" DOWN (▼) buttons to adjust the suitable frequency, then press the "SET" button to confirm. There are 100 frequencies for each channel of the receiver, and you can adjust the frequency manually. CH A can 1-100 channels to adjust CH B can 101-200 channels to adjust



### 4. IR Synchronization

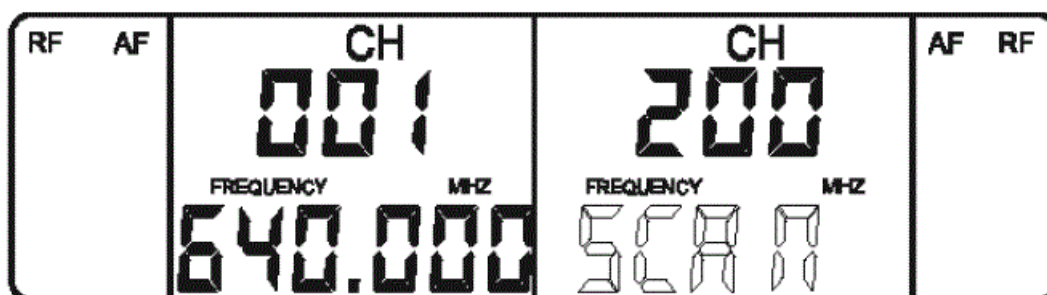
Press the middle button "SET", and the LCD "IR—" , in 3-5 seconds, the IR on the LCD will flick and put the IR port of the transmitters towards the IR Sync Port of the receiver, you will finish to sending the frequency to the transmitter.



### 3 STEPS OF FREQUENCY PAIR

#### 5. Scan Function

Long press the “SET” button and the LCD will display “SCAN”, the frequency on the LCD will flick, and the receiver will scan and choose the clean frequency. After finishing scanning, please use your transmitters and receiver to carry out the IR synchronization function.



#### Documents / Resources

	<a href="#">smarteck BT-233 UHF Wireless Microphone System</a> [pdf] User Manual BT-233 UHF Wireless Microphone System, BT-233, UHF Wireless Microphone System, Wireless Microphone System, Microphone System
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