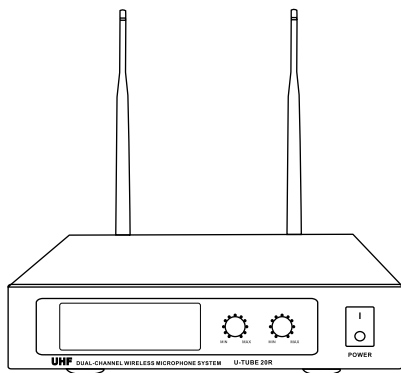
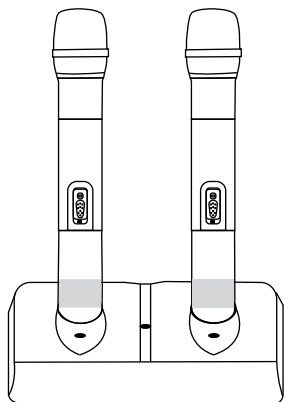


# MadBoy®

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## **U-TUBE 20R** **WIRELESS DUAL CHANNEL RECHARGEABLE MICROPHONE SET**



## **OWNER'S MANUAL**

[WWW.MADBOY-AUDIO.COM](http://WWW.MADBOY-AUDIO.COM)

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# Safety Instructions



**CAUTION:** To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Only refer servicing to qualified service personnel.

## Explanation of Graphical Symbols



The lightning flash & arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of danger.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.

## WARNING

To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.

**1. Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.

**2. Retain Instructions** - The safety and operating instructions should be retained for future reference.

**3. Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.

**4. Follow Instructions** - All operating and use instructions should be followed.

**5. Attachements** - Do not use attachements not recommended by the product manufacturer as they may cause hazards.

**6. Water and Moisture** - Do not use this unit near water. For example, near a bathtub or in a wet basement and the like.

**7. Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

**7 A.** An appliance and cart combination should be removed with care. Quick stops, excessive force, and uneven surfaces may cause an overturn.

**8. Ventilation** - The appliance should be situated so its location does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation slots.

**9. Heat** - the appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

**10. Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

**11. Grounding or Polarization** - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

**12. Power-cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

**13. Cleaning** - Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

**14. Power lines** - An outdoor antenna should be located away from power lines.

**15. Nonuse Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

**16. Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

**17. Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:

- A. The power supply cord or plug has been damaged; or
- B. Objects have fallen into the appliance; or
- C. The appliance has been exposed to rain; or
- D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
- E. The appliance has been dropped, or the enclosure damaged.

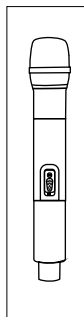
**18. Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

### Note:

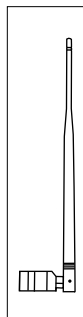
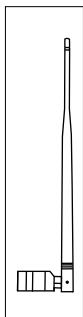
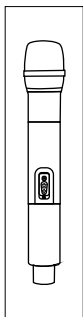
To CATV system installer's (U.S.A): This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected as close to the point of cable entry as practical.

# Package Contents

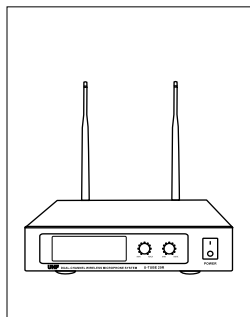
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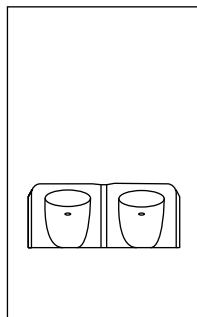
**Handheld transmitter (2)**



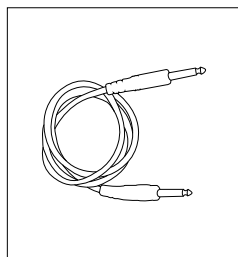
**Antenna (2)**



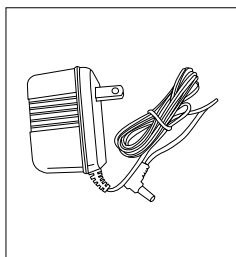
**Two channel receiver (1)**



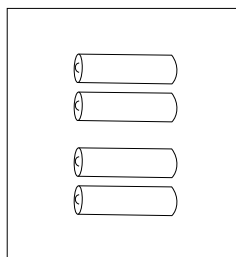
**Charger (1)**



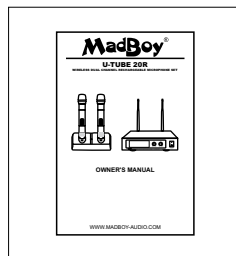
**AF line (1)**



**AC adaptor (1)**



**AA batteries (4)**



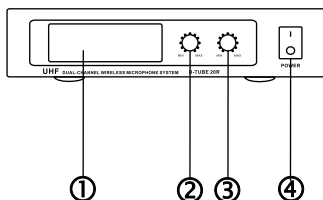
**Owner's manual (1)**

# Description And Functions

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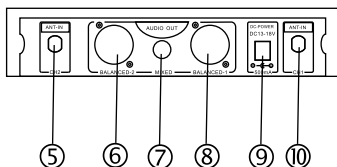
## Receiver

### Front panel



Before connect power, please make sure the local voltage accord with the voltage on the power adaptor.

### Back panel



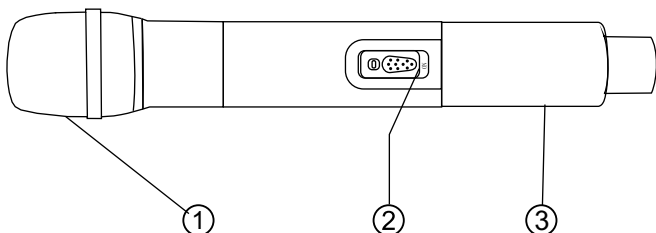
1. LCD-screen (a) Signal LED
2. (b) Frequency LED
2. A-Ch volume adjustment
3. B-Ch volume adjustment
4. Power
5. B-Ch antenna

6. Balanced-B
7. Mix output connector
8. Balanced-A
9. DC adaptor
10. A-Ch antenna

## **Description And Functions**

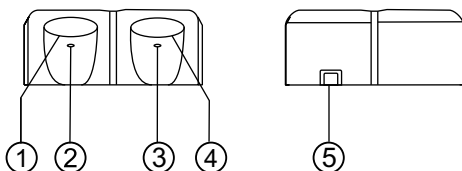
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### **Microphone (handheld transmitter)**



- 1. Ballscreen
- 2. Power switch
- 3. Battery cover

### **Charger**

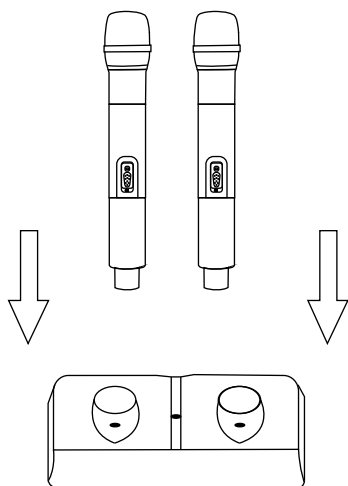


- 1.Charging socket A
- 2.Charging indicator A
- 3.Charging indicator B
- 4. Charging socket B
- 5. DC input jack

# Description and Functions

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## How to charge



Put the microphone  
into charger's socket

While charging, the indicator  
will light, if the light turns off,  
the battery is full

**WARNING!!!!**  
**DO NOT CHARGE WITH**  
**NON-RECHARGABLE BATTERY!!**

# Technical Specification

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## Microphone (handheld transmitter)

Carrier Frequency	UHF 863-865 MHz
Frequency Stability	$\pm 0.005\%$
RF Power Output	10mW
Dynamic Range	> 110dB
Operating Range	75M/250FT

## Receiver

Sensitivity	-105dB(12dB S/N AD)
Frequency Responses	50Hz~18KHz
Interference Ratio	> 80dB
S/N Ratio	> 105dB(1KHz-A)
AF Output	0-300mV
Receiving Channel	Two Channel
Power	DC 13-18V
Operating Range	75M/250FT(open air)
Dimension	8.3×"8.2×"×1.8"



# Troubleshooting

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## Receiver

Problem	Possible cause	Solution
Fail to operate	<ul style="list-style-type: none"><li>● Poor connecting of the receiver power or the power isn't correct</li></ul>	<ul style="list-style-type: none"><li>● Check the operation power correct or not and plug it securely</li></ul>
No receive	<ul style="list-style-type: none"><li>● The transmitter is out of the effective range</li><li>● The frequency of the transmitter and the receiver isn't same</li><li>● The antenna hasn't been pulled out</li></ul>	<ul style="list-style-type: none"><li>● Operating it in the effective range</li><li>● Set the frequency to same</li><li>● Pull out the antenna</li></ul>
Distorted sound	<ul style="list-style-type: none"><li>● The volume of microphone is too loud</li></ul>	<ul style="list-style-type: none"><li>● Reduce the volume of the microphone</li></ul>

## Transmitter

Problem	Possible cause	Solution
Fail to operate	<ul style="list-style-type: none"><li>● The battery voltage isn't enough</li><li>● The battery install isn't correct polarity</li></ul>	<ul style="list-style-type: none"><li>● Replace the batteries</li><li>● Install the batteries correctly</li></ul>
No carrier signal	<ul style="list-style-type: none"><li>● The transmitter is working out of effective field</li><li>● The frequency of the transmitter and the receiver isn't same</li></ul>	<ul style="list-style-type: none"><li>● Operating it in effective field</li><li>● Set the frequency to same</li></ul>
Noise and distorted sound	<ul style="list-style-type: none"><li>● Disturb by other electric wave</li><li>● The operation frequency of two transmitter is same.</li><li>● The batteries voltage of the transmitter isn't enough.</li></ul>	<ul style="list-style-type: none"><li>● Shorten the operation distance of the transmitter and the receiver</li><li>● Move the receiver far away interference.</li><li>● The same operation frequency of two transmitter should be avoid.</li><li>● Replace the batteries.</li></ul>

