

## User Manual

### **Note:**

To ensure this system works safely and to its fullest potential, please read this User's Manual carefully before operation and keep for future reference.



### Features

- The best solution for home entertainment or professional performances
- Automatic frequency scanning and automatic transmitter setup
- Diversity of operation gives you the most reliable performance possible
- Features Infrared technology with RF power, Internal Channel selector and Battery Power status indicator
- Multifunctional and User Friendly receiver

# Introduction

## UHF-5800 Wireless Microphone System

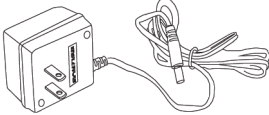


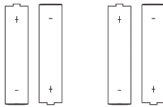

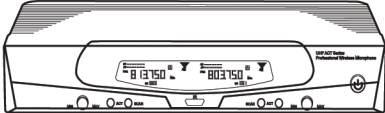
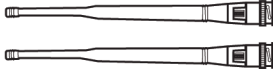
Is created for active musicians and presenters who also manage their own sound. The UHF-5800 significantly improves your performance while setting it up is a breeze. Innovations such as automatic frequency selection and automatic transmitter setup makes this wireless experience both exceptional and worry free. This system also features Shure's patented Audio Referencing Comping, delivering the crystal clear sound that pro audio engineers and artists trust.

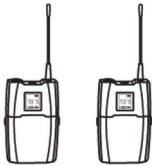
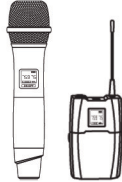


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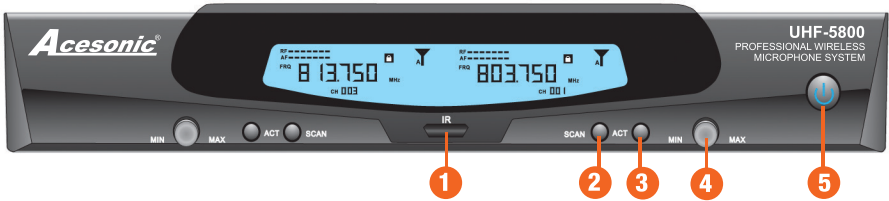
# System Components

System Includes	
 <p>Adaptor</p>	 <p>Handheld Transmitters x2</p>
 <p>Audio Cable</p>	 <p>AA Battery x4</p>
 <p>User Guide</p>	 <p>Receiver</p>
 <p>Receiver Antenna x2</p>	

UHF-5800 receiver can be combined with the following optional components		
 <p>Two bodypack transmitters</p>	 <p>Handheld and bodypack transmitters</p>	<p>The Bodypack Transmitter can also be paired with these optional items</p>  <p>Clip Mic</p>  <p>Headset Mic</p>

# System Features

## Front Panel



### 1. IR Port

Data link between Receiver and Transmitter

### 2. Scan / Lock

Auto frequency selection or press and hold for 2 seconds for manual selection

### 3. ACT Button

Auto transmitter setup

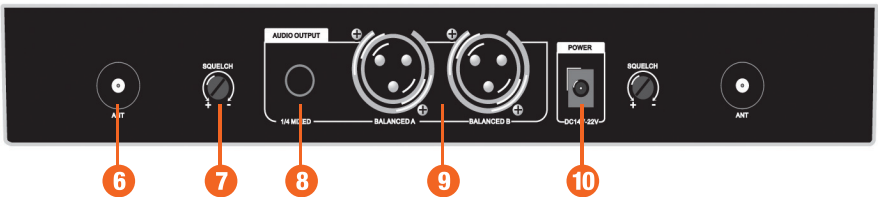
### 4. Volume Controller

Adjust the volume status for every channel

### 5. Power Button

Press On or Off

## Rear Panel



### 6. Antenna

### 7. Squelch Controller

Adjusts background noise in the absence of an audio signal

### 8. 1/4" Mixed Audio Output

Channels A or B XLR connector Unbalanced Audio Output

### 9. Balanced Audio Output

Channels A or B XLR connector Balanced Audio Output

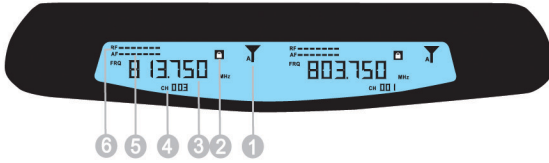
### 10. Power Supply

Removable adapter with DC14-22V 500mA



# System Features

## LCD Display



### 1. Antenna Status

Indicates RF activity. Only 1(One) Antenna is active at any given time.

### 2. Lock On or Off the Keyboard

Hold down the ACT button to Lock or Unlock the receiver. When Locked, the current settings cannot be changed.

### 3. Frequency Status

Displays the current frequency in MHz.

### 4. Channel Status

Displays the current frequency on a Channel.

### 5. AF Status

Displays the current Audio Frequency Level.

### 6. RF Status

Displays the current Radio Frequency Level.



## Handheld LCD Display

1. Low Transmission Power Status  
(5mW)

2. High Transmission Power Status  
(10mW)

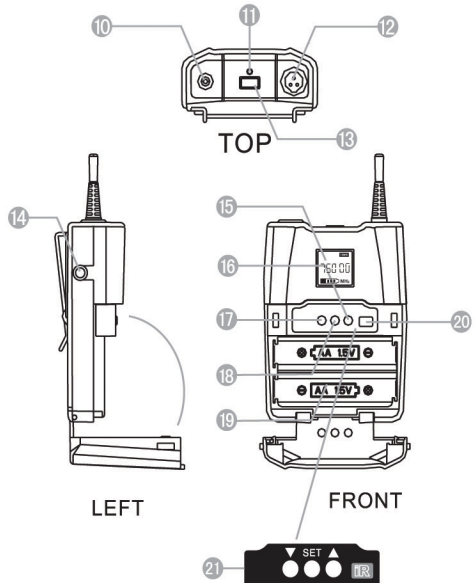
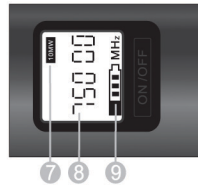
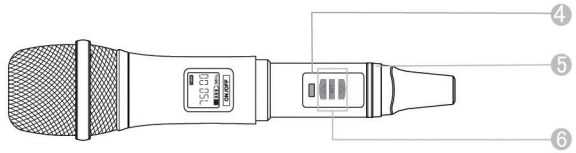
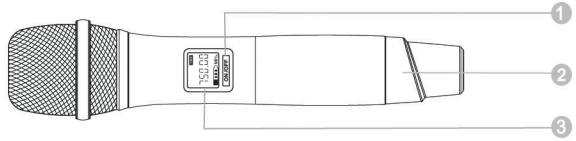
3. Frequency Display  
(MHz units)

4. Battery Power Status Display

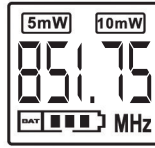
# System Features

## Transmitters

1. Power
2. Antenna
3. LCD Display
4. IR Port
5. Battery Housing
6. Transmission Power Level and Frequency Setting
7. Current Power
8. Current Frequency
9. Battery Status
10. Antenna
11. LED Indicator
12. XLR Three Pin Connector
13. Power
14. External Audio Input Jack (2.5mm)
15. LCD Display
16. Down Select Button
17. Up Select Button
18. Confirm Key
19. Battery Tray
20. IR Port
21. Transmission Power Level and Frequency Setting



# Transmitter Operation



## 1. Power

Press and hold down (2-4 seconds) Power button to turn On transmitter. “Short” press Power to turn on the LCD backlight (6 seconds). Press and hold down (2-4 seconds) to turn Off transmitter.

## 2. Selecting Frequency

The transmitter uses Infrared (IR) data transfer to set up the frequency. Button-free operation.

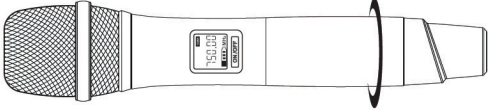
## 3. Transmission Power Selection

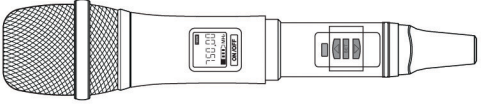
Press “Set” Key three times (3x) to show transmission power selection menu. The screen will show a flashing “5mW” or “10mW”. Press Up  $\Delta$  or Down  $\nabla$  to select transmission power.

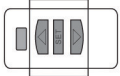
## 4. Low Battery Power


When the battery status is showing empty, the power icon will start flashing and the transmitter will automatically turn off in 60 seconds.

### Selecting the Transmission Power

**1**  Unscrew the mic body

**2**  Find the Adjust buttons

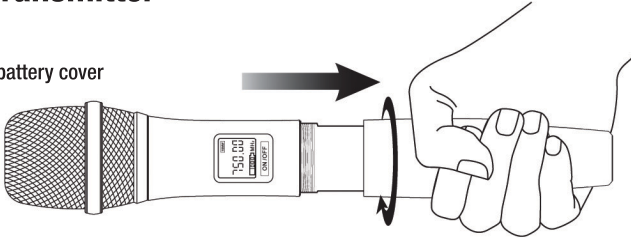
**3**  You can adjust the transmission power through the function keys

 The LCD Display screen will show the transmission power level

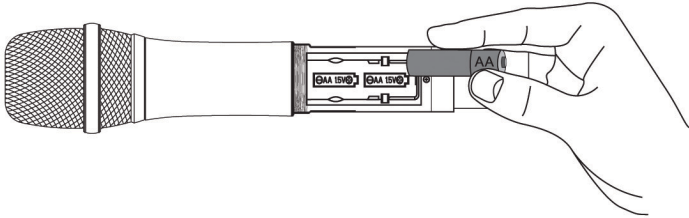
# Replacing the Batteries

## Handheld Transmitter

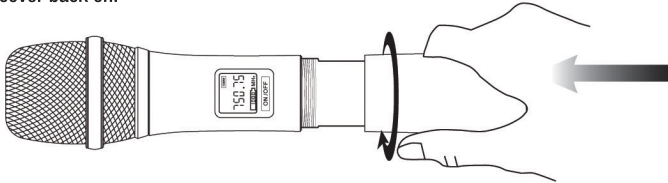
1. Twist open the battery cover



2. Make sure to insert and place batteries in the correct polarity pole positions as shown.



3. Twist the battery cover back on.

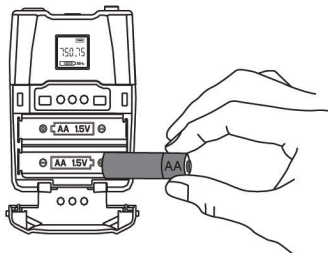


## Bodypack Transmitter (Optional)

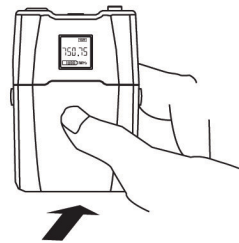
1. Flip open the battery cover



2. Make sure to insert and place batteries in the correct polarity pole positions as shown.



3. Close the battery cover. Make sure to hear it click for security.



# Single System Setup

## 1. Automatic Frequency Selection

This scans for a clear channel and sets the receiver to that channel.

- **LCD Screen** displays current channels



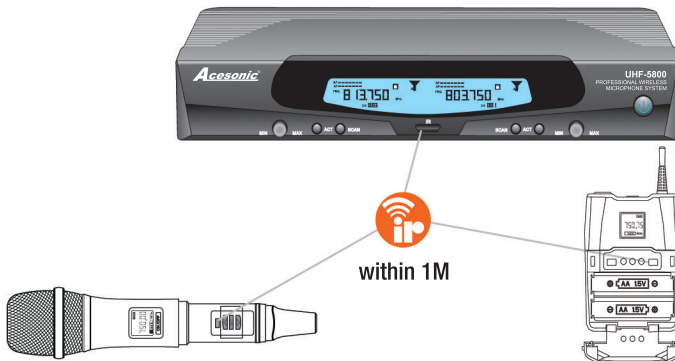
- Press the **Scan** button to scan for current channels



- System will scan and lock in for the clearest available channel



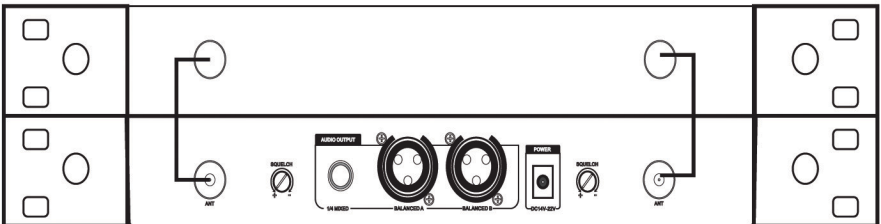
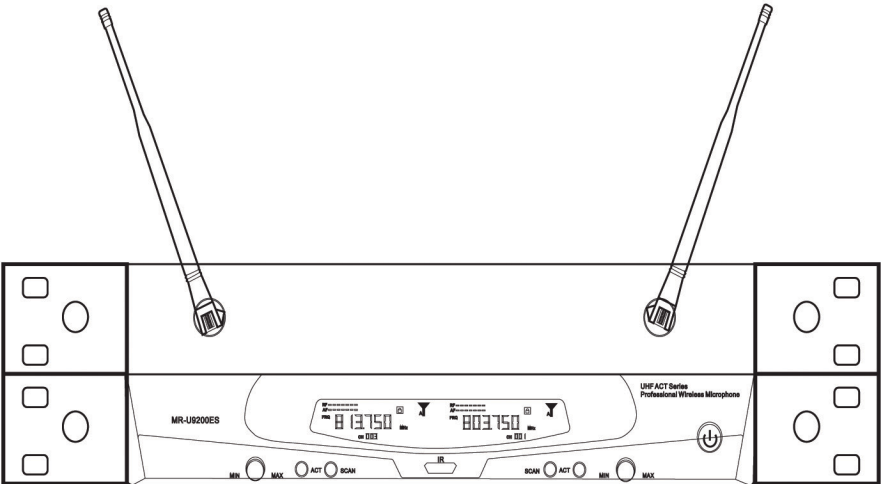
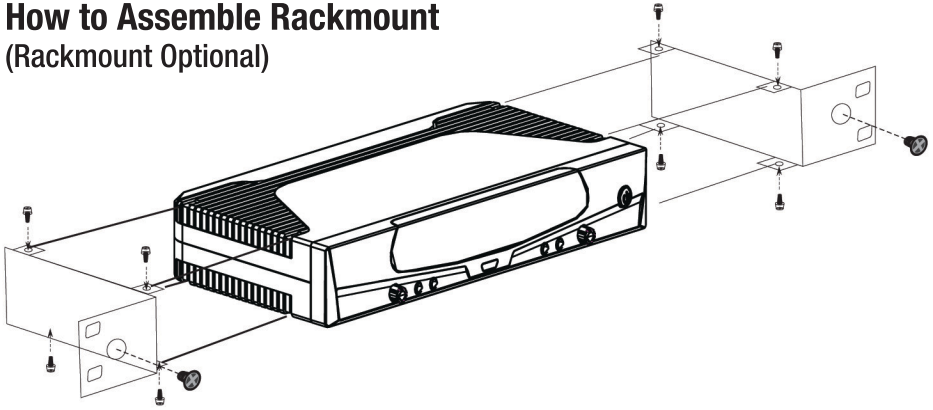
## 2. Automatic Transmitter Setup



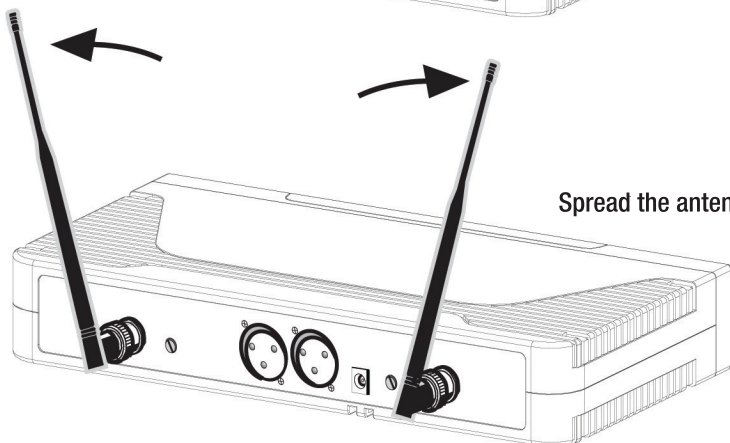
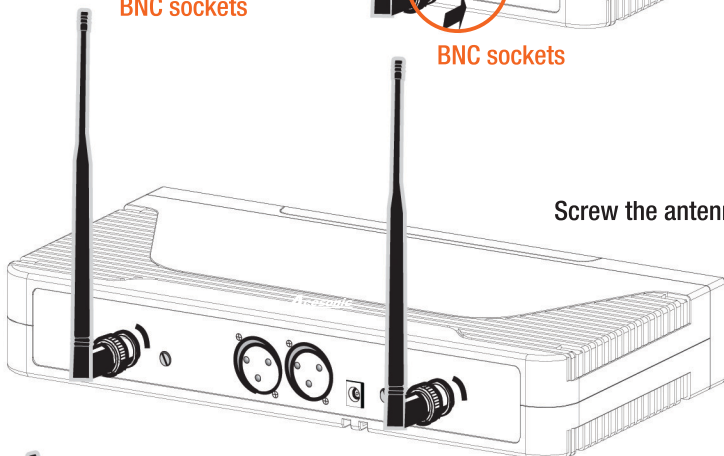
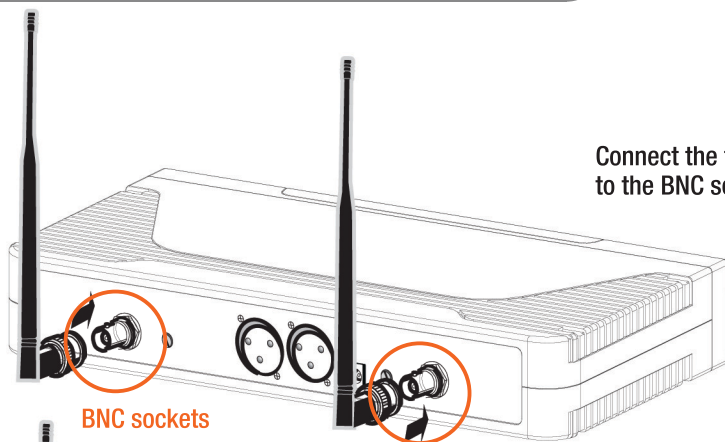
- Turn On the transmitter
- Point the transmitter IR port to the receiver's. Press Sync.
- Hold the ACT button until the transmitter's frequency is the same as the receiver's. The system is ready for use.

# Rackmounting the Receiver

## How to Assemble Rackmount (Rackmount Optional)



# Attaching the Antennas



# System Specifications

## System

- Channel..... 100 Channels
- Frequency Range..... 810 - 860MHz
- Frequency Response..... 35Hz - 20KHz
- Bandwidth..... <200KHz
- T.H.D..... <0.5%
- S/N Ratio..... >90dB
- Dynamic Range..... >100dB
- Working Distance..... 150 ft

## Receiver

- Sensitivity..... 2.0uV
- Oscillation Mode..... PLL
- S/N Ratio..... >90dB
- Distortion..... <0.5%
- Output..... 2 Balanced and 1 6.35mm Mixed
- Power..... DC 14 - 22V

## Transmitter (Microphones)

- Transmission Power..... 10mW / 5mW
- Oscillation Mode..... PLL
- Image Controlment..... >50dB
- Adjust Frequency Deviation..... <75KHz
- Channel Switch Mode..... Coding Switch
- Power..... DC 2.4 - 4.8V

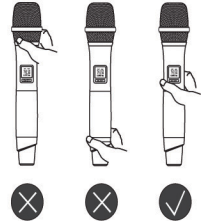


# Product Notes and Care

## Please read and follow carefully

- The two microphones in one receiver should be set on the same channel
- Replace battery as soon as possible when you see the Low Battery LCD indicator is flashing.
- Antennas should always be attached when in operation. Doing it otherwise could greatly impact total product quality and performance.
- Don't press any buttons or avoid changing channels while the microphones are in use.
- Although the receiver operates on DC power, always make sure to use the correct adapter in areas with different power currents. Not using an adapter will certainly damage the machine.
- When using more than one receiver, always set each one in different channels to avoid interference with each other.
- If the machine won't be used for an extended period of time, always make sure to unplug it from the power supply. Do the same with the alkaline batteries in the transmitters. Batteries will leak out and damage the microphones if they're left in for long periods.
- Handle the microphones correctly. Never use as drum sticks and always keep away from liquids or heat.
- Keep a minimum distance of 20cm for both microphones when in use. This will keep the sound quality and performance at its optimum level.
- Always keep the receiver off the walls and off the floor. Always have ample space to provide air circulation and keeping operating heat in control.

PIC 1 Hold the microphones correctly



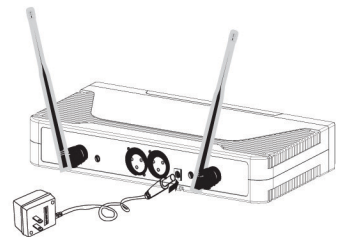
PIC 2 Minimum 20cm distance between microphones



PIC 3 Keep distance from wall and floor



PIC 4 Use the correct adapter



220AC DC14-18V 500mA

# Troubleshooting

Issue	Indicator Status	Solutions
No sound	Signal indicator is not lit	Push the power switch to the "On" position, check if the batteries are inserted properly, make sure the battery's polarity are correct or if batteries have no power.
No sound	Digital display is not lit	Check and ensure that the AC power is plugged into the wall outlet and the other end into the receiver. Also makes sure that it's connected with the right power voltage.
No sound	AF signal indicator is not lit	Make sure that the transmitter and receiver frequency is matched. Antennas are upright, mounted and locked in properly. Makes sure antennas are not blocked by any metal objects or is obstructed by anything between transmitter and receiver.
One indicator is lit and the other one is not.	One microphone works and the other one does not	Double check the frequency or channel choice of the problem microphone. Make sure batteries are still good or is fully charged.
Interference or audio noise	Signal indicator is lit	Change frequency or to prevent jamming keep microphones away from each other.
T.H.D. rise higher	Signal indicator & low batter indicator are lighted	Replace with new batteries.

***Acesonic***<sup>®</sup>  
**UHF-5800**

Professional Wireless Microphone System

**One (1) Year Manufacturer Warranty  
Lifetime Technical Support  
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**Technical Support:**

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