



# MUHF1012 Manual



Scan for manual and Software downloads



# Multi Channel Diversity UHF Receiver

Manual | Model MUHF1012

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## 1. Introduction

Thank you for purchasing our product. This PLL synthesized wireless microphone system operates in UHF band frequency with 700 selectable channels. Please read this instruction manual carefully before operating the system. This manual covers the function and operation of the wireless microphone system.

### FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**IMPORTANT NOTE:** To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. could result in the device exceeding the to operate the device.

### Safety

- Do not spill liquid on the appliance and do not drop it on a hard concrete floor.
- Do not place the equipment near heat sources such as radiators, heating ducts, amplifier, etc.
- Do not expose the equipment to direct sunlight, extremely dust, excessive moisture, rain, mechanical vibrations, or shock.
- Take out the battery from transmitter, if the appliance has been not used for a longer period. This will avoid the damage resulting from a defective leaking battery.

- If the equipment is not going to be used for a long time, disconnect the AC adapter from the power outlet. Please note that if you turn the equipment off while leaving the AC adapter plugged in, it is not fully isolated from the power supply.
- **WARNING:** To reduce the risk of fire or electric shock, do not use the products near water and do not expose them to rain or moisture.
- No guarantee claims for the equipment and no liability for any resulting personal damage or material damage will be accepted if the equipment is used for other purpose than originally intended, if the equipment is not correctly connected or operated, or if the equipment is not repaired in an expert way.

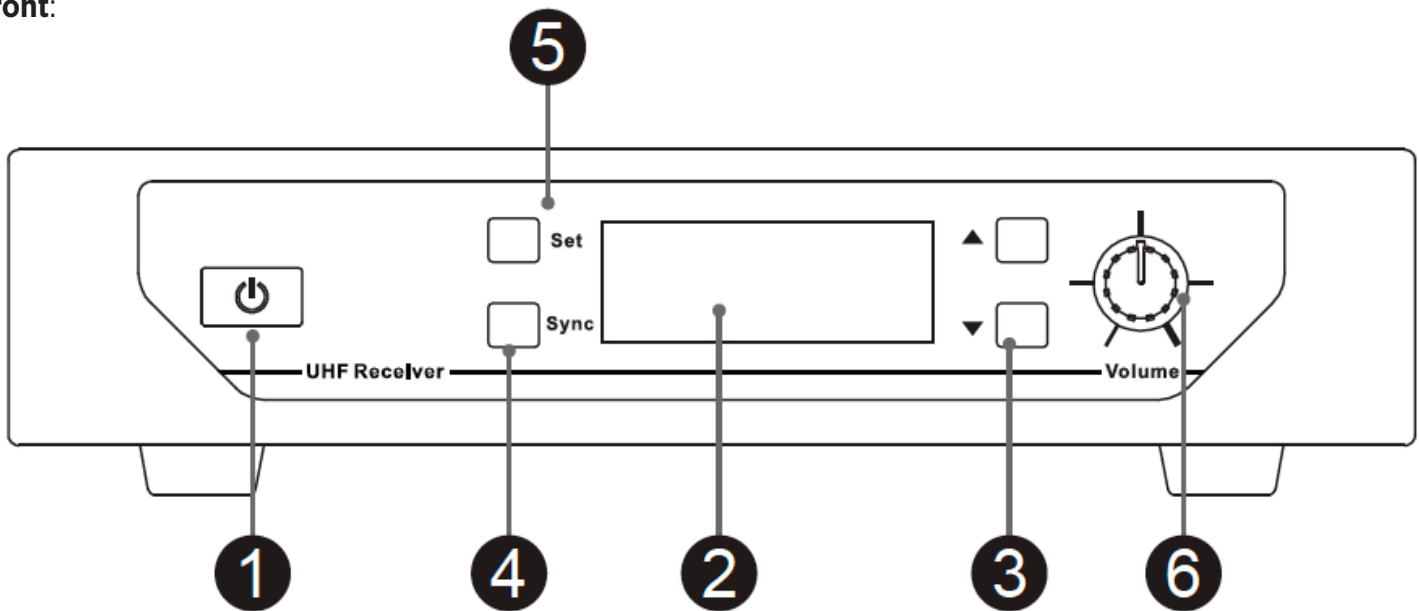
### Environment

- Do not throw used batteries into a fire or garbage bin with domestic rubbish. Be sure to dispose of used batteries in accordance with local waste disposal rules.
- When disposing the equipment, remove the batteries, separate the case, circuit boards, and cables, and dispose of all components in accordance with local waste disposal rules.

## 2. Product Description

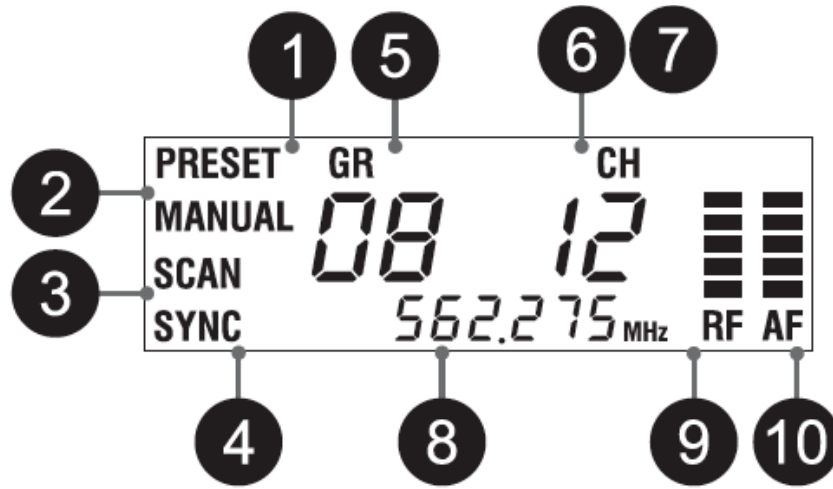
### Receiver:

#### Front:



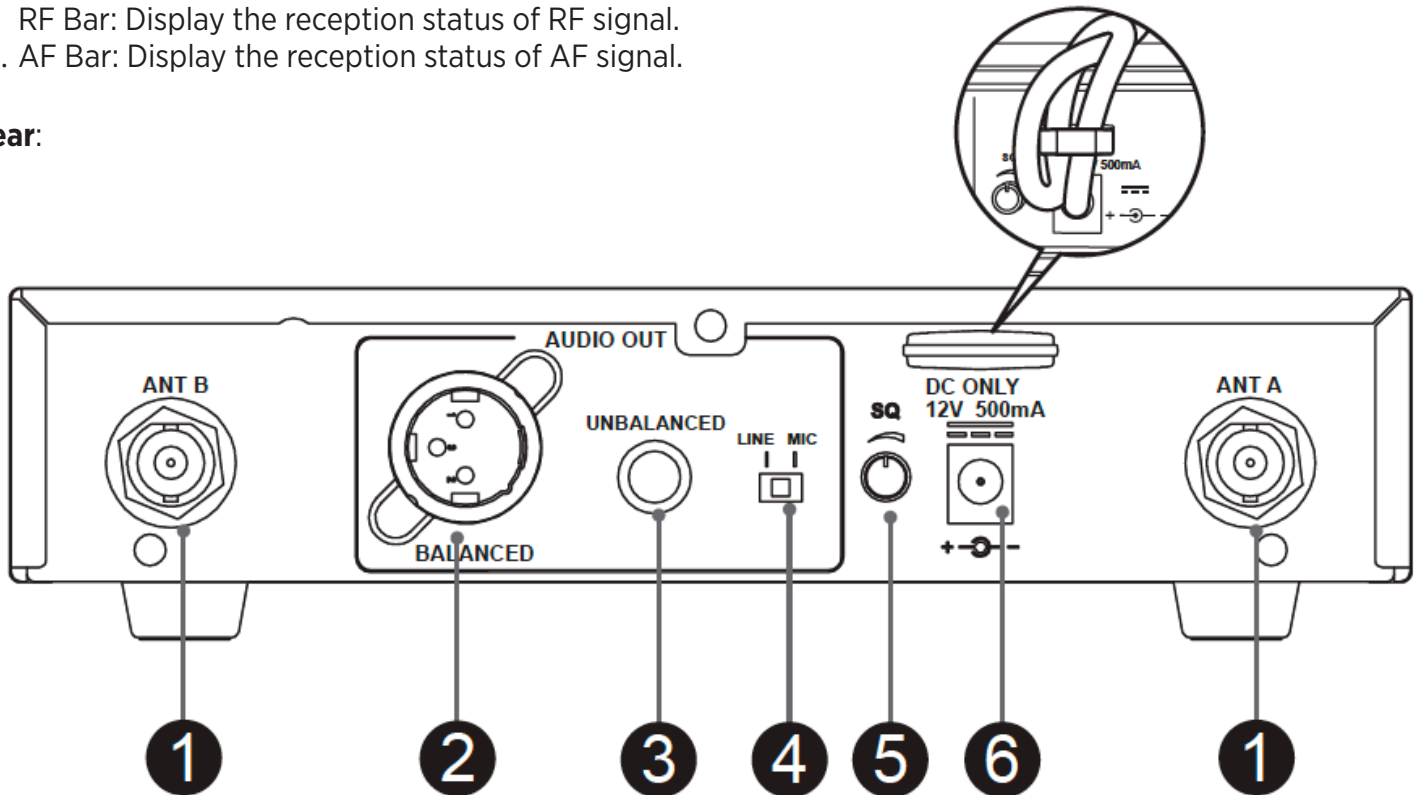
1. Power Button.
2. VA LCD Display: Display group, channel, frequency and settings.
3. Button 3: Tap the channel forward / backward.
4. SYNC Button: Press the button to actuate the synchronization with transmitter.
5. SET Button: Press button to activate the scan or preset mode or manual mode.
6. Volume Controller: Adjust the receiver output level.

**VA LCD Display:**



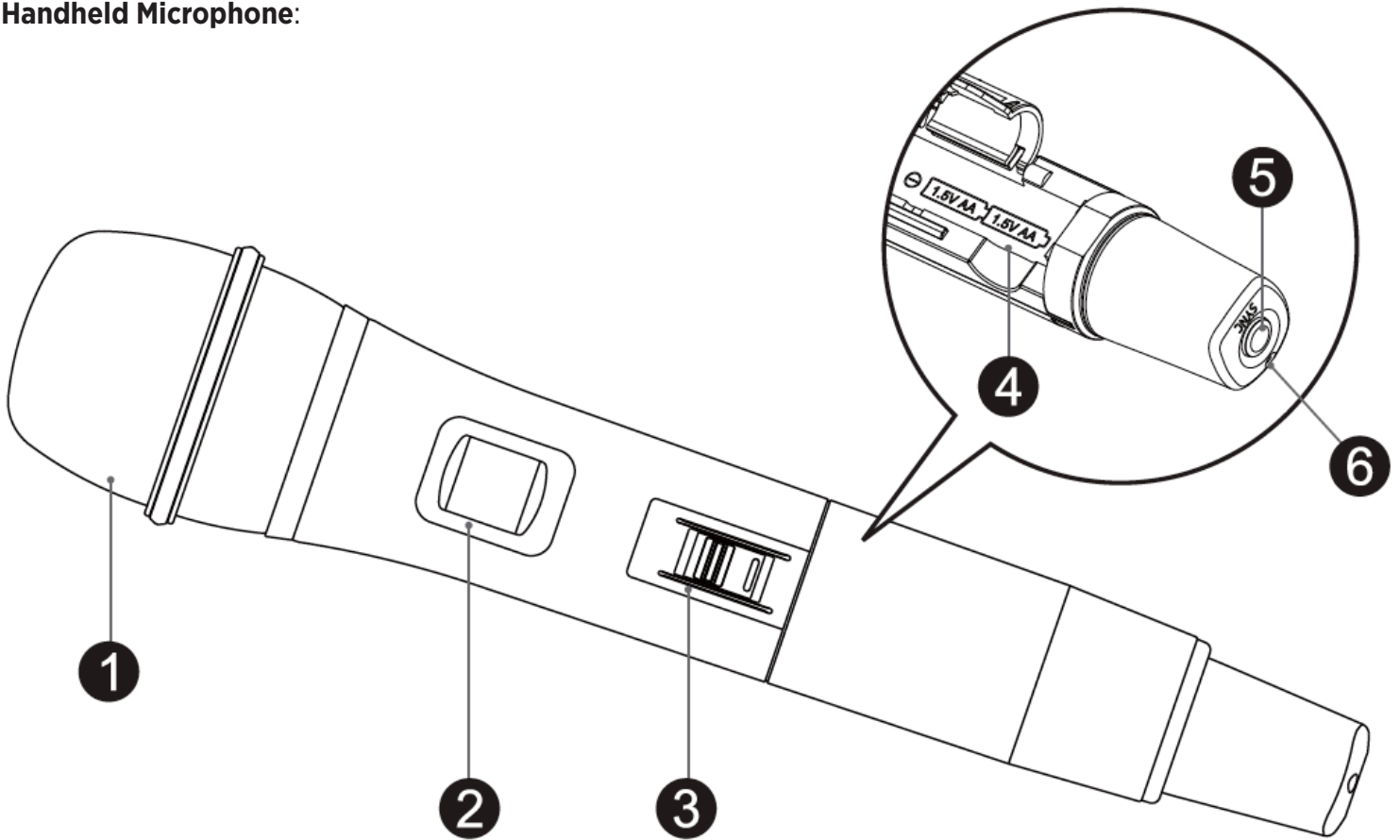
1. PRESET: Use this mode to set multiple constructions by preset group.
2. Manual: Use this mode to select free channel manually.
3. SCAN: Use this mode to set free channel by scan function.
4. SYNC: The synchronization process is actuated.
5. GR: Display selected preset group.
6. CH: In “PRESET” mode, display selected preset channel.
7. CH: In “SCAN” mode, or “MANUAL” mode display selected channel number.
8. FREQ: Display selected frequency.
9. RF Bar: Display the reception status of RF signal.
10. AF Bar: Display the reception status of AF signal.

**Rear:**



1. Antenna.
2. Balanced XLR Audio Output.
3. Unbalanced 6.3mm Audio Output.
4. Mic/Line Switch: Use this switch to adjust audio output level for mic level (-20dB) or line level (0dB).
5. Squelch: Turn the knob to adjust or decrease the noise floor level.
6. Power Adapter Connector.

## Handheld Microphone:



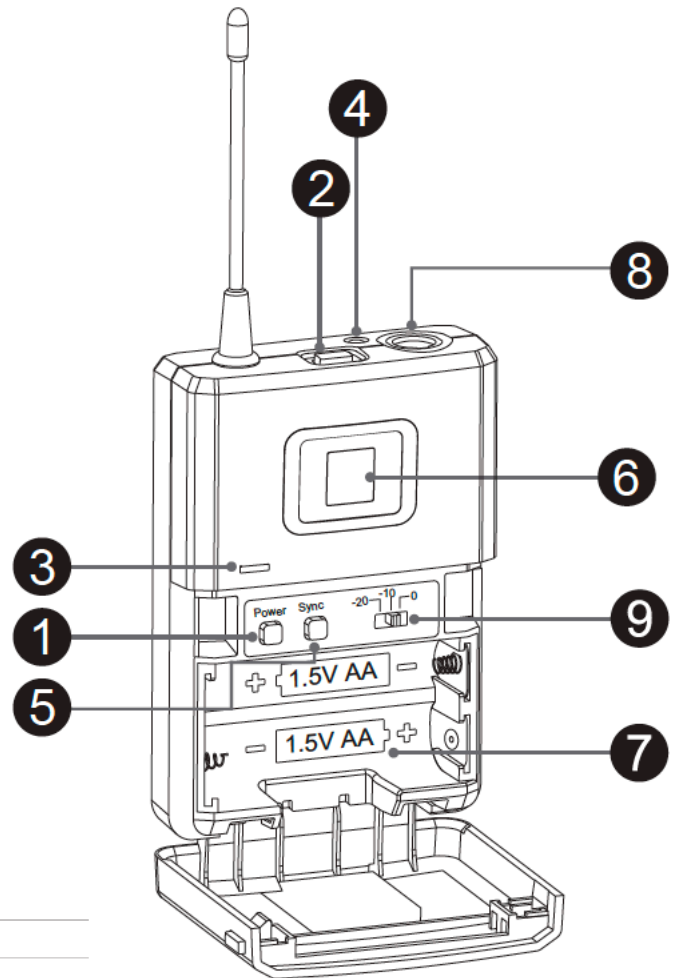
1. Grille: Protects the microphone capsule and helps reduce breath sounds and wind noise.
2. LCD Display: Display group, channel and battery power level.
3. ON/OFF Switch: Turns microphone power on or off.
4. Battery compartment: Insert two AA size batteries into the compartment and make sure that the polarity of batteries is correct.
5. SYNC Button: Press to actuate the synchronization process with the receiver.
6. Power LED: Indicate the power / low battery level status.

### Microphone Status

LED Indicator	Status
Green	Ready
Flashing Green	The synchronization process is actuated.
Flashing Red	Low battery power when less than 10 minutes operation

## Bodypack Transmitter:

1. Power Button: Press for 2 seconds to power the microphone on or off.
2. Mute Button: With the transmitter on, a slight button press for button will toggle between mute and unmute function.
3. Power LED: Indicate the power / low battery level status.
4. MUTE LED: Blue LED light on in mute status.
5. SYNC Button: Press to actuate the synchronization process with the receiver.
6. LCD Display: Display group, channel and battery power level.
7. Battery compartment: Insert two AA size batteries into the compartment and make sure that the polarity of batteries is correct.
8. Mini XLR Connector: Connect to the lapel microphone or headset microphone.
9. Gain Switch: The switch sets the audio input to -20dB, -10dB, 0dB.



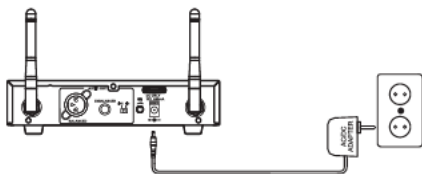
## Bodypack Transmitter Status

LED Indicator	Status
Green	Ready
Flashing Green	The synchronization process is actuated.
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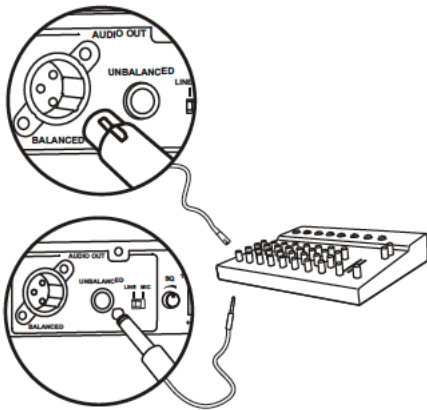
## 3. System Operation

### Connecting the receiver

Prior to setting up, please check that the transmitter and receiver are tuned to the same frequency or channel. Two or more transmitters operating in the same frequency can not be used at the same time and area.

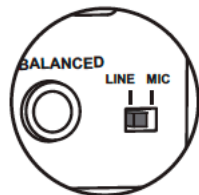


1. Connected the provided DC power supply to the receiver power input with an appropriate AC power source. The LCD display will light and the receiver is on.



2. Using a standard audio cable with 3-pin XLR connectors or 6.3mm phone plugs to connect the mixer or amplifier.

Never use the balanced and unbalanced audio outputs at the same time! This may cause signal loss or increased noise.

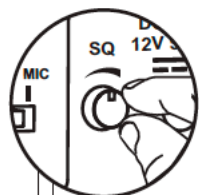


3. Set the audio output level for  
MIC: -20dB  
LINE: 0dB (Default Setting)



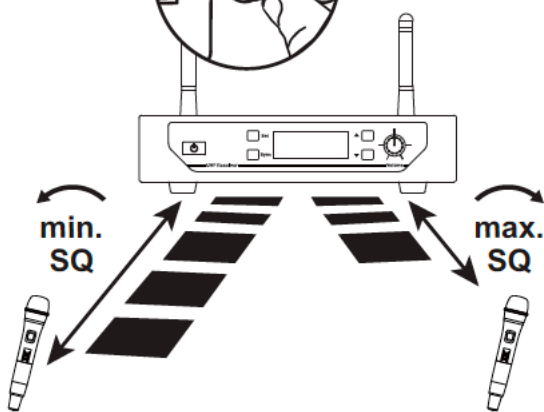
4. Using the Volume Controller to adjust the AF audio level to the input of the amplifier or mixer

Default Setting: In minimum VOLUME position.



5. Use squelch to eliminate or suppress the ambient RF noise.

Defaulting Setting: In properly position.



### Setting up channel on receiver

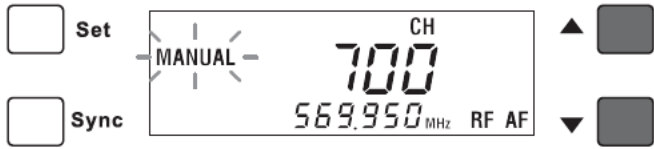
Notice: Do not put two or more transmitters operating nearby when setting up the frequency channel. Please keep transmitter at least one meter away from receiver.

## Manual Mode

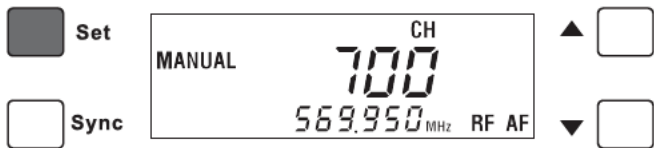


Setting interference-free channel by manual operation.

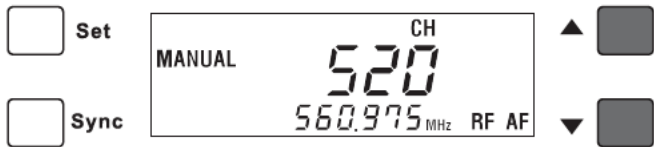
Press the “SET” button for 2 seconds, “PRESET” or “MANUAL” or “SCAN” mode will flash.



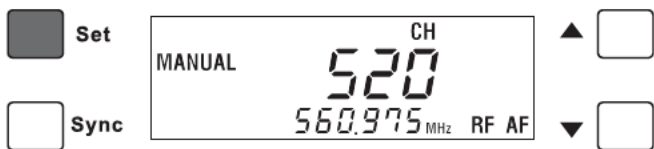
Press the Up or Down button to select the “MANUAL” mode.



Press “SET” button to lock the “MANUAL” mode.



Press Up or Down button to change the channel forward or backward.



Press the “SET” button to lock the setting.

NOTE: If user needs to set up multi-receiver system, please keep your previous receiver-microphone pair power on. Then go to next scanning procedure.



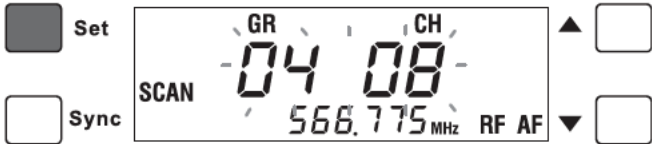
### Scan Mode

Set interference-free channel by frequency scan function

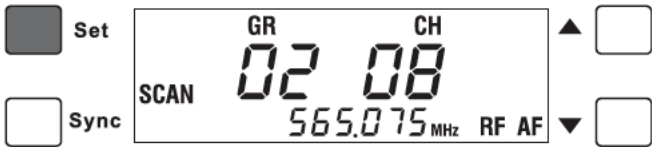
Press the "SET" button for 2 seconds, "PRESET" or "MANUAL" or "SCAN" mode will flash.



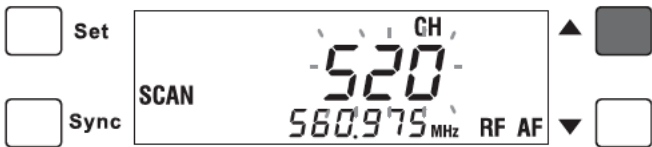
Press the Up or Down button to select the "SCAN" mode.



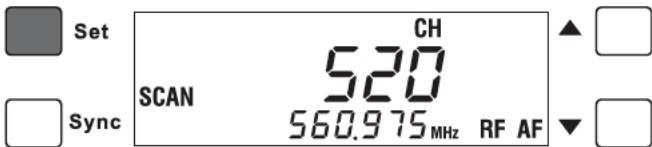
Press the "SET" button, "SCAN" will stop flashing, it will search for the free channel automatically.



Press the "SET" button, GR and CH digits will stop flashing, and "SCAN" is done.



If the system fails to select free-interference channels, it will automatically scan available channels from all frequency ranges.



Press the "SET" button, CH digit will stop flashing and "SCAN" is done.

NOTE: If user needs to set up multi-receiver system, please keep your previous receiver-microphone pair power on. Then go to next scanning procedure.

## Preset Mode

Set multiple constructions by using preset channels. Excluding the interference from external, up to 12 system can be operated simultaneously in each group (Region dependent).

Press "SET" button for 2 seconds, "PRESET" or "MANUAL" or "SCAN" mode will flash.

Press the Up or Down button to select the "PRESET" mode.

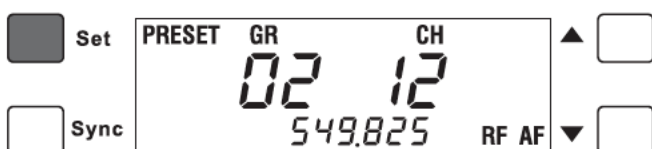
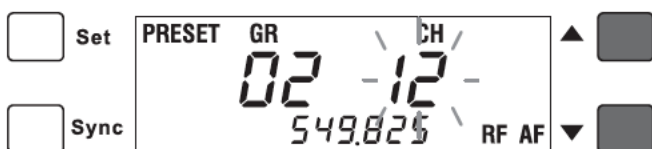
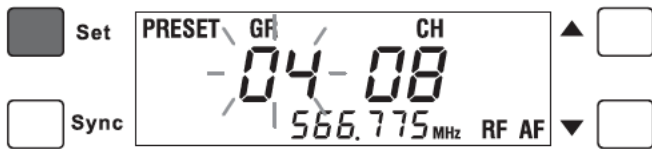
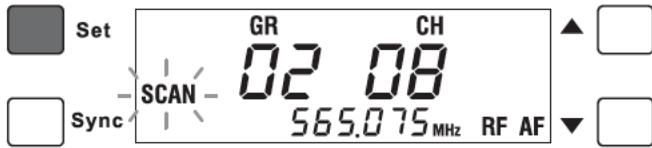
Press the "SET" button, "PRESET" will stop flashing. GR digit will flash simultaneously.

Press Up or Down button to select GR number.

Press the "SET" button, GR number stops flashing and CH digit will flash simultaneously.

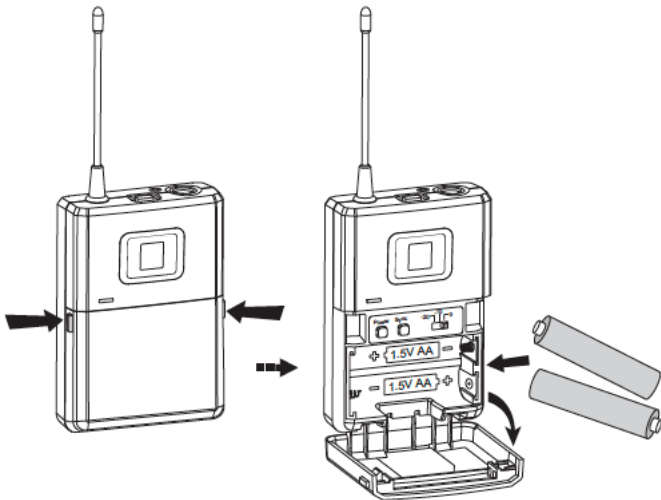
Press Up or Down button to select CH number.

Press the "SET" button, CH digit will stop flashing and "PRESET" is done.

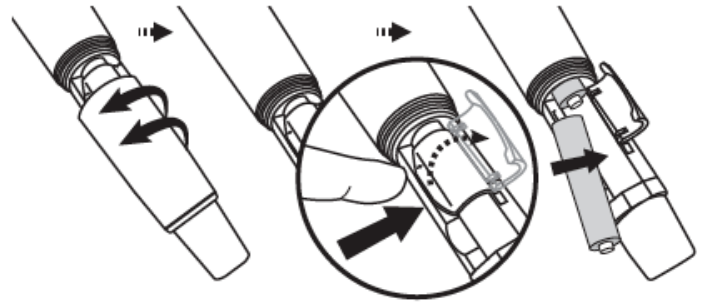


NOTE: When there is any outside interference on the current preset group, please switch to use next preset group. If 8 preset groups are all under interference, please use scan mode to set up system.

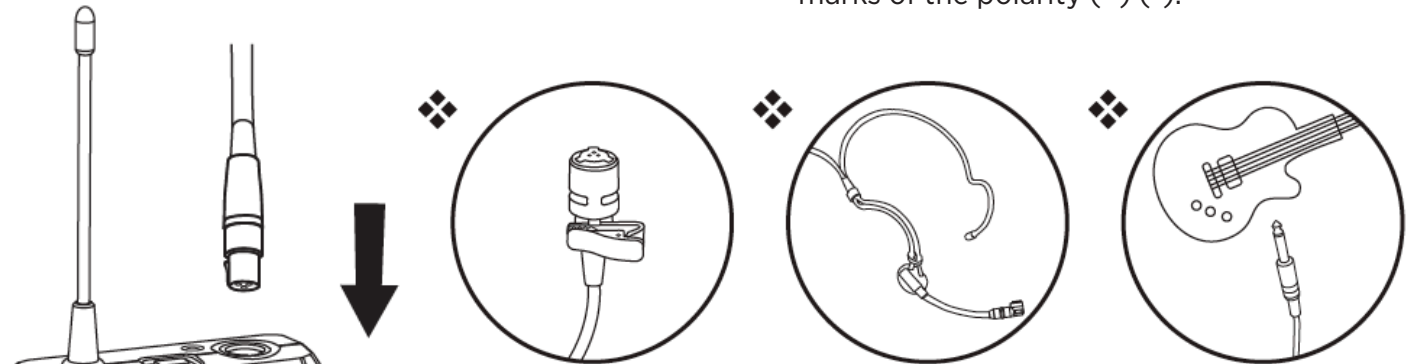
## Set up the handheld microphone / bodypack transmitter



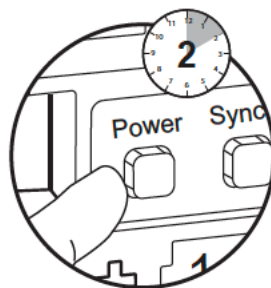
Open the battery cover and insert batteries into the battery compartment conforming to the polarity (+)(-) marks.



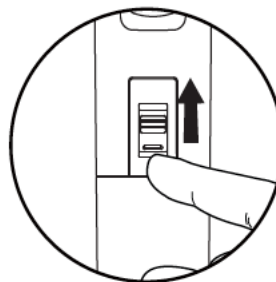
Unscrew the handheld Mic and open the battery cover to insert the battery into the battery compartment and confirm the marks of the polarity (+) (-).



Connect to the lavalier microphone, headset microphone or guitar cable.

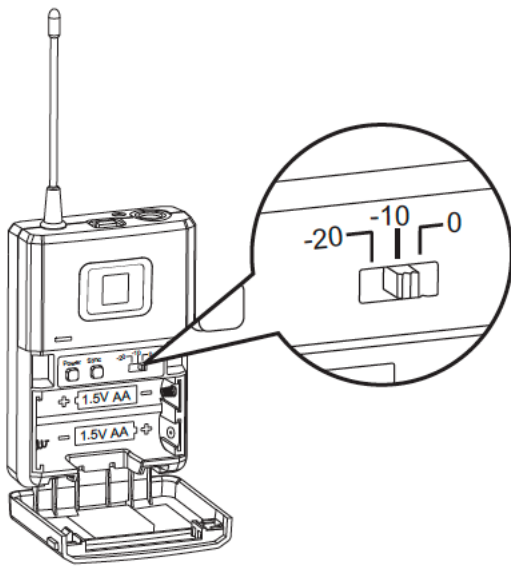


Bodypack



Handheld

Handheld transmitter: Push the button up to power on. Bodypack transmitter: Press for 2 seconds to turn on the power. If the LED stays flashing, it indicates that the battery will run out of power soon and should be changed.



• 0dB



• -10dB



• -20dB

Adjust the audio input level.

- 0dB
- -10dB (Default Setting)
- -20dB

NOTE: When you don't use this device for a long term period, please switch the power "off" in order to save more electricity.

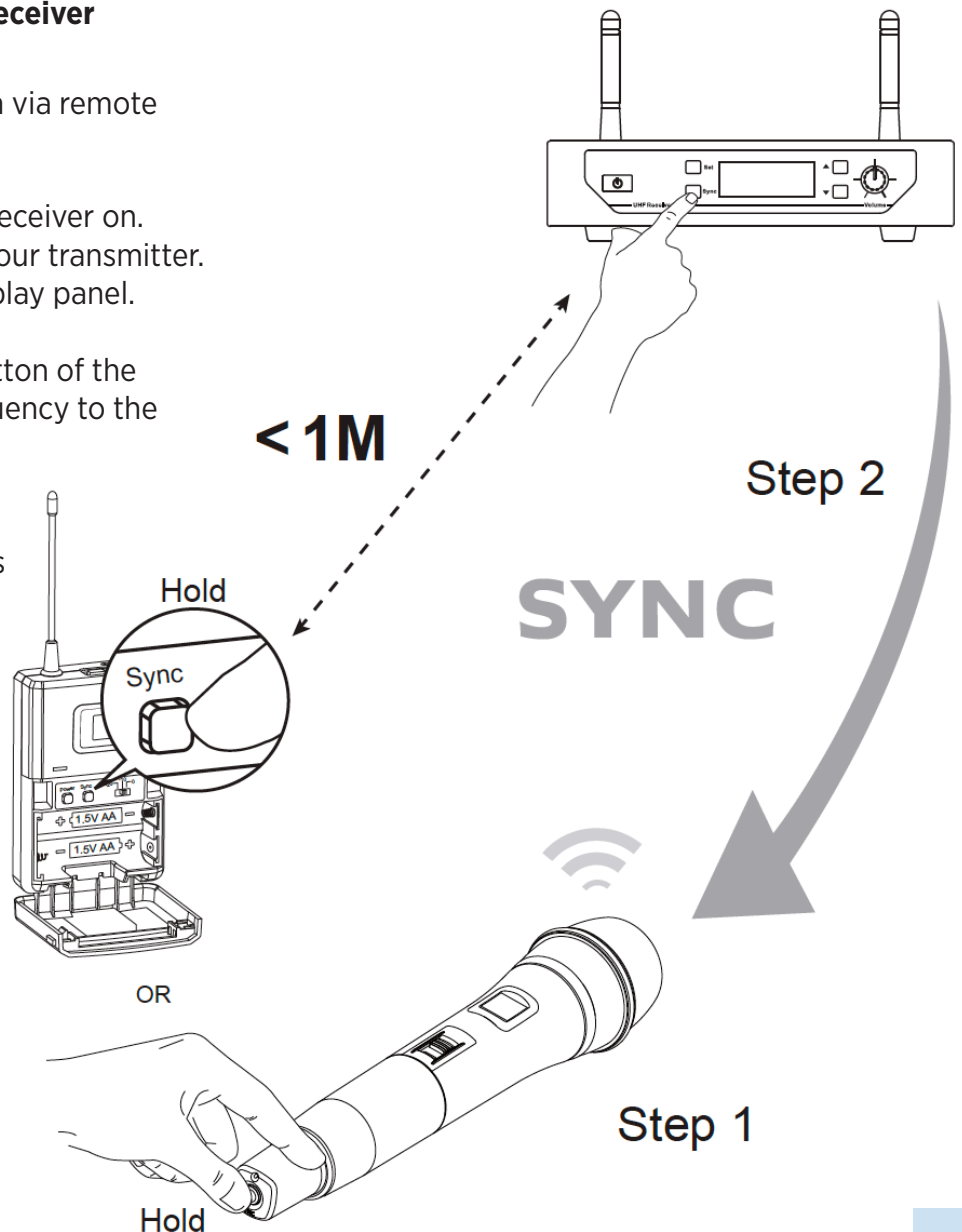
### Synchronizing a transmitter with a receiver

Automatic frequency synchronization via remote channel for easy setup.

First, switch the transmitter and the receiver on. Press and hold the SYNC button on your transmitter. The SYNC flashes on the receiver display panel.

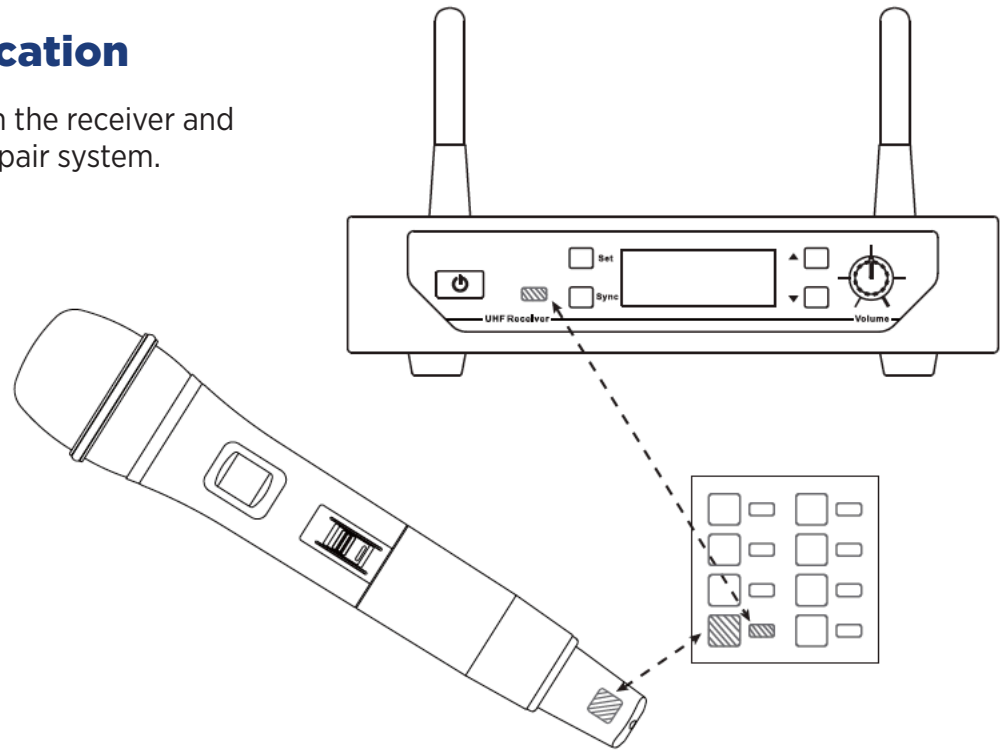
At the same time, press the SYNC button of the receiver to transfer the selected frequency to the transmitter.

When using SYNC setting, the distance of receiver and transmitter is within 1 M.



## 4. Color Label Identification

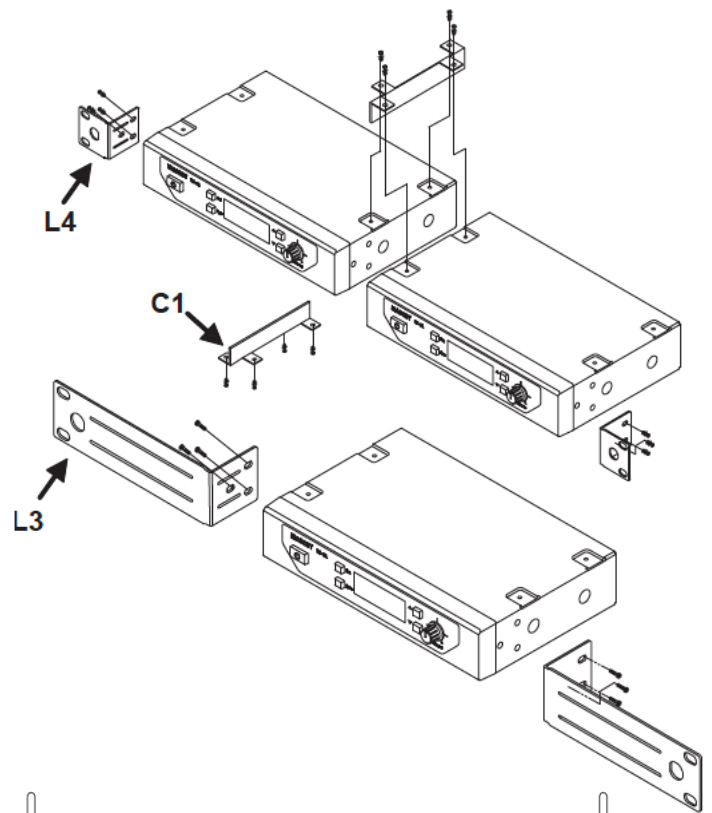
You can also stick the color label on the receiver and transmitter for quickly identify the pair system.



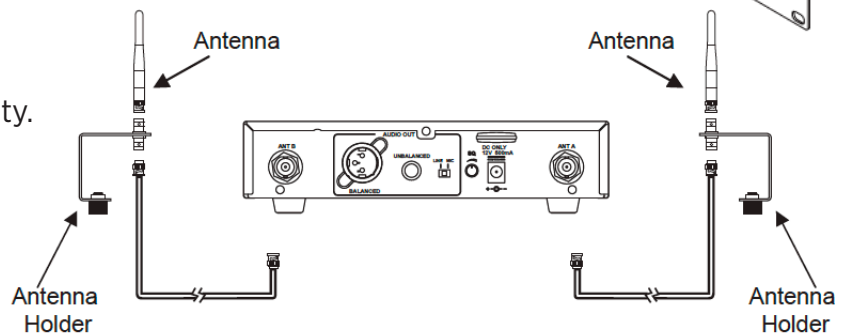
## 5. Basic Connections

Install a receiver in a 19" standard rack by using 2 short L type metal racks.

Mount a receiver in a 19" standard rack by using 2 long L type metal racks. (L type long metal racks is an optional product, so please purchase extra in local stores.)



By using the antenna holder to install the UHF antenna in high place for better reception quality.



## 6. Trouble Shooting

Problem	Solution
No Sound	<p>Check the power supply of the microphone &amp; receiver.</p> <p>Check that the transmitter &amp; receiver are tuned to the same frequency.</p> <p>Check whether the hi-fi appliance is switched on &amp; the receiver output is connected to audio mixer or amplifier input.</p> <p>Check whether transmitter is too far away from receiver or SQUELCH control set too high.</p> <p>Check whether receiver is located near metal objects or there are obstructions between transmitter &amp; receiver.</p>
Sound Interference	<p>Check the antenna location.</p> <p>When using 2 or more microphone sets simultaneously, make sure that the chosen frequencies are not interfered.</p> <p>Check whether the interference comes from other wireless microphones, TV, radio &amp; etc.</p>
Distortion	<p>Check the receiver volume level whether is set too high or too low.</p> <p>Check whether the interference comes from other wireless microphones, TV, radio &amp; etc.</p>