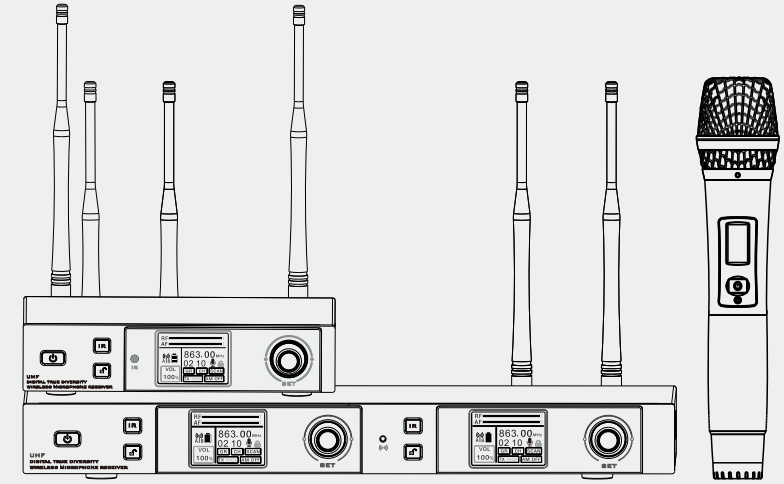
vector audio

vector audio

RM-501 Single Diversity Microphone
RM-502 Twin Diversity Microphone

User Manual



RM-501 Order Code: VEC415
RM-502 Order Code: VEC414

Thank you for choosing this product.
Please read the manual carefully before use

REMINDER

Please read manual carefully before use. This wireless microphone uses ultra-high frequency radio waves. Please follow the instructions for setup and operation to avoid any harmful occurrences. Please be aware of local radio equipment laws & radio spectrum regulations when using wireless radio microphones. This system operates in the 863-865 MHz frequency.

1. BRIEF INTRODUCTION

The Vector RM series wireless microphone system is very simple to setup and easy to operate. A first choice for entry level applications such as vocalists, speeches & presentations. The RM models use intelligent cryptographic hardware to achieve unique sound and RF performance. Frequency groupings, colourful TFT display, and ergonomic menus make it very easy for single or multi-set installation.

2. MAIN FEATURES

- Operational frequency band 863-865 Mhz
- Unique digital 16 bit ID pilot technology, with no crosstalk disturbance on same frequency.
- TFT Display on receiver shows frequency selection and battery indicator
- Single chip design, with diversity antennas to avoid dead points.
- Auto frequency scanning and user frequency selection
- Suitable for stages, conference rooms, ballrooms, pubs, bars, clubs, schools, colleges, houses of worship, speech, presentations, and home entertainment.
- Operational distance 60M line of sight

- Place the receiver in an open space, for better signal
- Do not throw the device
- Do not expose to moisture rain or any liquid
- Keep the unit out of direct sunlight or any electromagnetic field
- Remove the batteries if the unit is to be stored for long periods of time
- Disconnect the power supply if you are turning off the unit for a long period of time
- Turn off transmitter before replacing batteries
- In case of injury do not take the device apart
- Do not try to repair yourself or the warranty will be voided
- Use a soft cloth to clean the device
- Do not use thinners or gasoline products to clean
- Keep at least 30cm around the device for ventilation
- Do not cover the ventilation holes
- Do not use new and old batteries at the same time
- Working temperature 5 Degrees C – 60 Degrees C

Please try below methods to solve any problems that might occur

- Adjust the direction of the antenna
- Keep away from radio or TV
- Do not plug into the same electrical outlet as radio and TV
- Try using a 45 Degree angle from mouth to microphone, this will reduce airflow from mouth
- Keep distance of 15cm from microphone to mouth

9. TECHNICAL SPECIFICATION

- **Receiver**

  Carrier Frequency: 863-865MHz

  Dynamic Range: 96dB

  Distortion: <0.1%

  Frequency Response: 30-20KHz/±2dB

  Signal/Noise Ratio: 96dB

  Sensitivity: -95dBm

  Power Supply: DC12V 1A

  Audio Output: 1×6.3mm(1/4") jack+ 2× balanced 3-pin XLR

- **Handheld Transmitter**

  Carrier Frequency: 863-865MHz

  Frequency Switch: IR SYNC

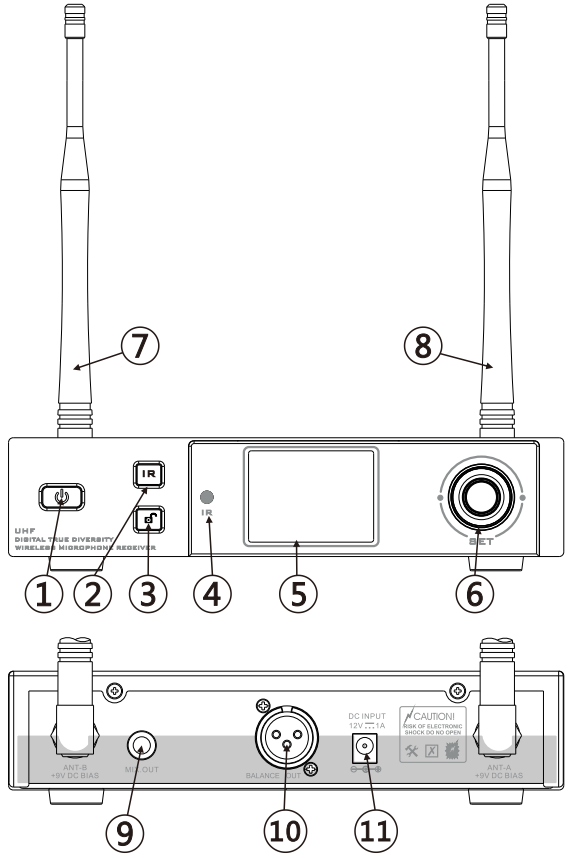
  Output Power: HI:10mW,LOW:5mW

  Harmonic Radiation: <-50 dBc

  Battery: 2×1.5V AA battery

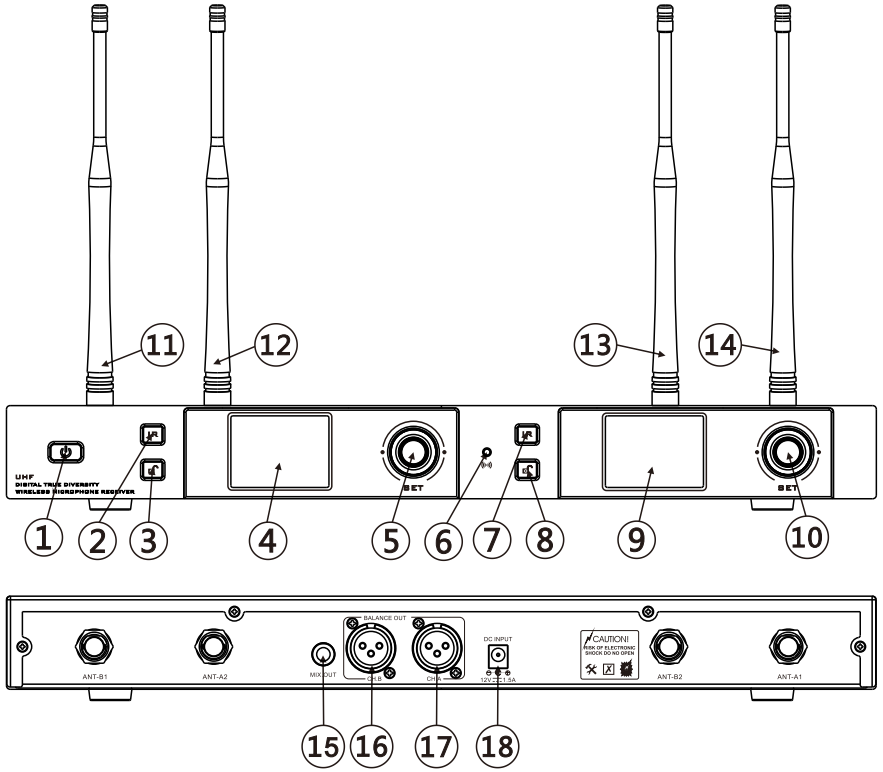
  Battery Life: >5hours

3.Parts of RM-501 Single channel receiver



1.Power on/ off switch
2.IR Transmitter/ receiver pairing button
3.Toggle lock/ unlock
4.IR pairing LED Indicator
5.TFT Display
6.Volume, function, confirm
7. Antenna A
8. Antenna B
9. Unbalanced audio mix output 6.35mm (1/4") Jack Socket
10. Balanced audio output 3-pin XLR
11. DC Power Input

4. Parts of RM-502 Twin channel receiver



1.Power on/off switch

2.IR Transmitter / receiver pairing button CH-A

3.Toggle lock/unlock CH-A

4.TFT Display CH-A

5.Volume, function, confirm CH-A

6.IR pairing LED Indicator CH-A & CH-B

7.IR Transmitter / receiver pairing button CH-B

8.Toggle lock/unlock CH-B

9.TFT Display CH-B

10.Volume, function, confirm CH-B

11. Antenna A1

12. Antenna B2

13. Antenna A2

14. Antenna B1

15. Unbalanced audio mix output 6.35mm (1/4") Jack Socket

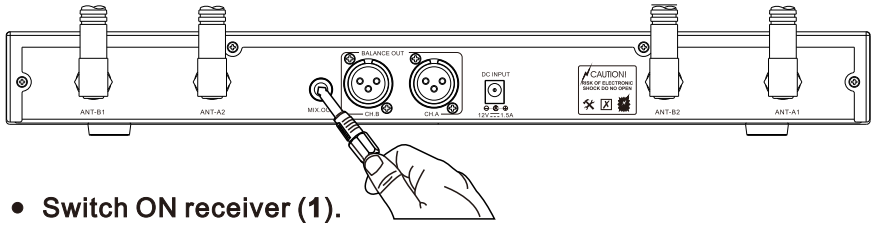
16. Balanced audio output 3-pin XLR CH-B

17. Balanced audio output 3-pin XLR CH-A

18. DC Power Input

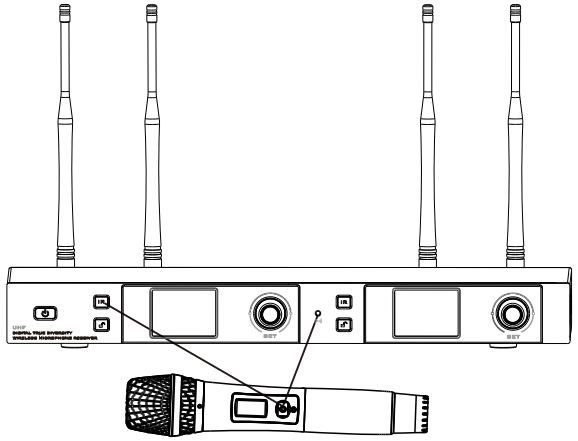
8. RECEIVER OPERATION

- Connect the DC power supply from the mains to the back of the receiver(18)
- Connect the included 6.35mm(1/4 '') jack to jack cable to the unbalanced audio mix output jack socket(15)
- Connect the other end of the included 6.35mm(1/4 '') jack to jack cable to MIX INPUT or AUX INPUT jack socket of your mixer or loudspeaker.



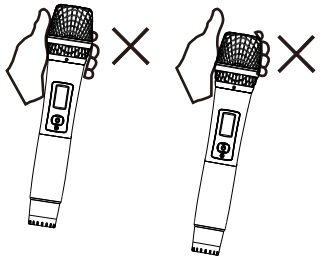
- Switch ON receiver (**1**).

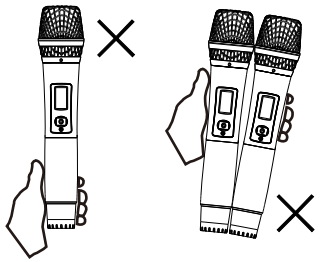
Sync IR on Transmitter and Receiver



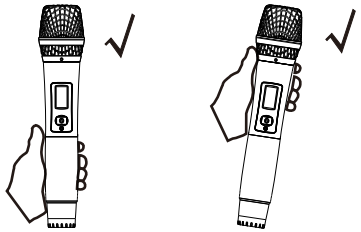
Turn on the receiver, long press the unlock button and then choose the frequency. Now long press the IR button for 3 seconds until the IR indicator LED is flashing, this means signal is now transmitting. Meanwhile, turn on the microphone transmitter and keep its IR window close to the receiver. When the IR sync is successful the same frequency will show on both transmitter and receiver. The RF signal strength will also show on the receiver display.

Handheld the Microphone Holding Ways





WRONG



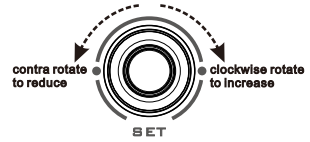
CORRECT

Keep distance of mouth and mic head less than 15CM.

Avoid using mic head to point to speakers.

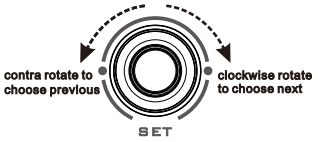
5. CONTROL KNOB

Click the knob to enter or confirm.

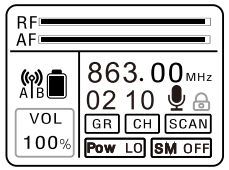


When the lock button is locked , turn SET knob counter clockwise to reduce volume and clockwise to increase volume

When lock button is unlocked , turn SET knob for choosing function and click in to confirm. Turn counter clockwise for previous setting and clockwise for next.



6. RECEIVER TFT DISPLAY



RF: Indicates the radio frequency signal strength – the longer the length the stronger the signal.
AF: Indicates audio signal strength - the longer the length the stronger the signal.

A|B Diversity signal symbol

Battery level indicator for working handheld transmitter

VOL 100% Receiver Volume

863.00 MHz
02 10
GR CH
Receiver working frequency

Mute Symbol

Receiver is in locked

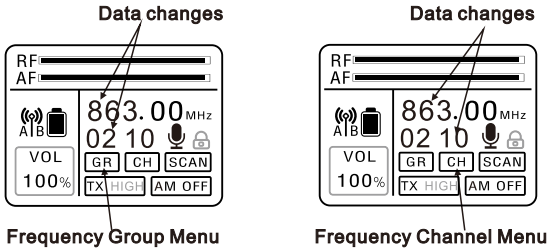
SCAN Frequency scanning menu

Pow LO Microphone transmitter power setting menu

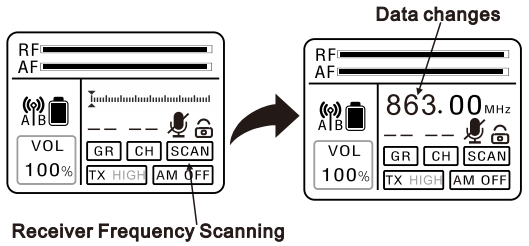
SM OFF Microphone auto mute setting menu

Receiver TFT Display Settings:

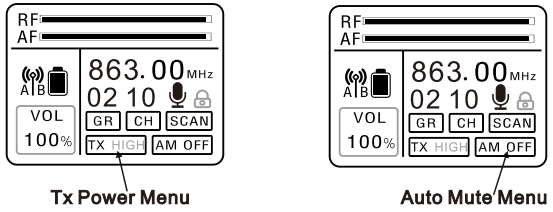
- **Frequency Setting**



- **Frequency Scan Setting**

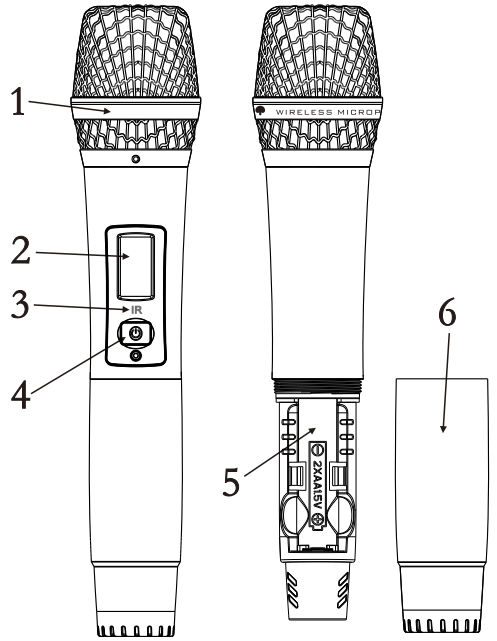


- **Transmitted Power and Auto Mute Setting**



NOTE: Note above 2x functions will require a Transmitter/Receiver Re-Sync.

7. HANDHELD TRANSMITTER OPERATION



1. Microphone capsule (converts sound waves to electronic signal)

2. LCD display (indicates working status)

3. IR sync indicator

4. Power on/off and mute switch

5. Battery holder for 2x AA 1.5V batteries - note correct polarity.

6. Screw on battery cap to cover battery holder