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› Retevis RB617 Rechargeable PMR446 Walkie Talkie User Manual

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Model: RB617

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your Retevis RB617 PMR446 walkie talkie. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.



Figure 1: Retevis RB617 Walkie Talkies (Pair)

The Retevis RB617 is a professional-grade, license-free PMR446 two-way radio designed for reliable communication. It features a high-capacity 4400mAh battery, Type-C USB charging, VOX hands-free operation, and an emergency alert function, making it suitable for various environments including expeditions, hiking, and professional use.

2. PRODUCT OVERVIEW

Familiarize yourself with the components of your RB617 walkie talkie:



Figure 2: RB617 Component Diagram

- **Antenna:** For transmitting and receiving radio signals.
- **Channel +/- Buttons:** Used to select communication channels.
- **Power/Volume Knob:** Rotates to turn the radio on/off and adjust the volume level.
- **PTT (Push-to-Talk) Button:** Press and hold to transmit, release to receive.
- **Scan/Monitor Button:** Initiates channel scanning or monitors the current channel for weak signals.
- **Earpiece/MIC Jack:** Connects external audio accessories like earpieces or microphones.
- **Belt Clip:** Attaches the radio to a belt or pocket for convenient carrying.



Figure 3: Detailed View of RB617 Features

3. SETUP

3.1. Battery Installation and Charging

The RB617 features an integrated 4400mAh Li-ion battery. Before initial use, ensure the battery is fully charged.

1. **Charging:** Connect the supplied 2-in-1 Type-C USB cable to the charging port at the bottom of the walkie talkie. Connect the other end to a compatible USB power source (e.g., wall adapter, power bank, computer USB port, car charger).
2. The charging indicator light will typically show red during charging and turn green when fully charged.
3. A full charge may take approximately 3-4 hours.



4400mAh Battery

Continuous using time:32 Hours

Standby time:300 Hours

Figure 4: Charging the RB617 Walkie Talkie



Figure 5: Versatile USB-C Charging Options

3.2. Attaching the Belt Clip

Align the belt clip with the screw holes on the back of the radio and secure it with the provided screws.

4. OPERATING INSTRUCTIONS

4.1. Power On/Off and Volume Adjustment

- **Power On:** Rotate the Power/Volume knob clockwise until you hear a click. The radio will emit a tone.
- **Volume Adjustment:** Continue rotating the Power/Volume knob clockwise to increase volume, or counter-clockwise to decrease volume.
- **Power Off:** Rotate the Power/Volume knob counter-clockwise until you hear a click.

4.2. Channel Selection

Use the Channel +/- buttons located on the top of the radio to select your desired communication channel. The RB617 supports 16 channels.

4.3. Transmitting and Receiving (PTT)

- To **transmit**, press and hold the PTT button on the side of the radio. Speak clearly into the microphone.
- To **receive**, release the PTT button.

4.4. VOX (Voice Operated Exchange)

The VOX function allows for hands-free operation. When activated, the radio will automatically transmit when it detects your voice, without needing to press the PTT button. Refer to the programming software for VOX sensitivity adjustment.



Figure 6: VOX Hands-Free Communication

4.5. Emergency Alert

The RB617 includes an emergency alarm feature. When activated, the radio will emit a loud alarm tone to alert others to your situation. This feature can be configured via programming software for local or remote alarm types.



Figure 7: Emergency Alert Function

4.6. Squelch Function

Squelch automatically mutes the speaker when no signal is present, eliminating background noise. The squelch level can be adjusted via programming software to optimize reception in different noise environments.

4.7. Monitor Function

Press the Scan/Monitor button to temporarily disable the squelch and listen to all activity on the current channel, including

weak signals that might otherwise be filtered out.

4.8. Busy Channel Lockout (BCL)

BCL prevents transmission on a channel that is already in use, avoiding interference with ongoing conversations. This feature is enabled by default.

4.9. CTCSS/DCS (Sub-tones)

CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digitally Coded Squelch) sub-tones help filter out unwanted signals. When a CTCSS/DCS code is set, you will only hear communications from radios using the same code on the same channel. This enhances privacy and reduces interference from other users on the same frequency.

5. MAINTENANCE

5.1. General Care

- Clean the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Keep the radio dry. Although designed to resist splashes, it is not waterproof.
- Avoid exposing the radio to extreme temperatures, direct sunlight, or dusty environments.

5.2. Battery Care

- To maximize battery life, avoid overcharging or completely draining the battery frequently.
- Store the radio with a partially charged battery (around 50%) if not used for extended periods.
- The 4400mAh battery provides approximately 32 hours of continuous use and up to 300 hours of standby time.



Figure 8: RB617 Battery Performance



Figure 9: Durable Construction of RB617

6. TROUBLESHOOTING

If you encounter issues with your RB617 walkie talkie, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on	Battery is depleted or not properly connected.	Charge the battery fully. Ensure the Power/Volume knob is turned clockwise.
Cannot transmit or receive	Incorrect channel selected, out of range, or low battery.	Verify both radios are on the same channel. Move closer to the other radio. Charge the battery.
Poor audio quality or static	Weak signal, interference, or squelch level too high.	Move to an open area. Check for obstructions. Use the Monitor function to temporarily disable squelch.
Hearing other conversations	No CTCSS/DCS sub-tone set, or same sub-tone as other users.	Set a unique CTCSS/DCS sub-tone for your group.

If the problem persists, please contact Retevis customer support.

7. SPECIFICATIONS

Feature	Detail
Brand	Retevis
Model Number	EUA9191B
Color	Black and Grey

Feature	Detail
Number of Channels	16
Frequency Range	446.00625-446.19375 MHz (PMR446)
Maximum Range	Up to 3 Kilometers (environment dependent)
Battery Type	Lithium-ion
Battery Capacity	4400mAh
Rechargeable	Yes
Charging Interface	Type-C USB
Voltage	3.7 Volts
Special Features	Emergency Alarm, VOX, Squelch, Monitor, Busy Channel Lockout
Water Resistance Level	Not waterproof (splash resistant)
Product Dimensions (D x W x H)	3.8 x 5.6 x 22.5 cm
Compatible Devices	Retevis PMR446 walkie talkies



Figure 10: RB617 Product Dimensions

8. WARRANTY AND SUPPORT

Retevis offers the following warranty and support for the RB617 walkie talkie:

- **Warranty:** 2-year warranty for the walkie talkies and a 60-day warranty for accessories.
- **Return Policy:** You may test the walkie talkies for 30 days and return them free of charge if unsatisfied.
- **Exchanges:** Two-way radios can be exchanged within one year.
- **Maintenance:** Retevis is responsible for maintenance for over one year, but shipping costs will be the customer's responsibility.
- **Customer Service:** Friendly customer service is always available.

For further assistance or inquiries, please refer to the official Retevis website or contact their customer support channels.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question