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Retevis RB615

Retevis RB615 PMR446 Walkie-Talkie User Manual

Model: RB615 | Brand: Retevis

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Retevis RB615 PMR446 walkie-talkie. Please read it thoroughly before use and retain it for future reference. The Retevis RB615 is a license-free two-way radio designed for reliable communication, featuring a compact design, vibration alert, and wireless cloning capabilities.



Image 1.1: Two Retevis RB615 walkie-talkies, black in color.

2. PRODUCT OVERVIEW

2.1 Components



Image 2.1: Diagram illustrating the main components of the RB615, including antenna, LCD display, indicator light, earpiece jack, PTT button, side keys, programming/charging port, MIC, speaker, and menu/navigation buttons.

- **Antenna:** For transmitting and receiving signals.
- **ON/OFF Button:** Powers the device on or off.
- **LCD Display:** Shows channel, battery status, and other indicators.
- **Indicator Light:** Illuminates to show status (e.g., transmitting, receiving).
- **Earpiece Jack:** For connecting an external earpiece.
- **PTT (Push-to-Talk) Button:** Press and hold to transmit, release to receive.
- **Side Key 1 & 2:** Programmable function keys.
- **Programming / Charging Port:** Micro-USB port for charging and connecting to a computer for programming.
- **MIC (Microphone):** For voice input.
- **MENU Button:** Accesses the radio's menu settings.
- **Up/Down Buttons:** Navigate through menus and adjust settings.
- **Speaker:** For audio output.
- **Back Clip:** For attaching the radio to clothing or a belt.

2.2 Key Features

- **Wireless Cloning:** Allows quick replication of settings from one RB615 to multiple other RB615 units.
- **Vibration Function:** Provides a silent alert for incoming signals, useful in noisy environments or when discretion is required.
- **PMR446 License-Free:** Operates on European PMR446 frequencies, requiring no license for use.
- **Emergency Alarm:** Features local and remote alarm modes for emergency situations.
- **Long Distance Communication:** Equipped with a high-gain antenna, offering an ideal communication range of up

to 3 km in optimal conditions.

- **CTCSS/DCS:** Sub-tone codes for interference reduction and private group communication.
- **Squelch:** Adjustable squelch levels to filter out weak signals and background noise.
- **VOX Hands-Free:** Voice-activated transmission for hands-free operation.
- **16 Channels:** Provides multiple communication channels.
- **Rechargeable Lithium-ion Battery:** Long-lasting power with convenient USB charging.

3. SETUP

3.1 Battery Installation and Charging

The RB615 uses a rechargeable Lithium-ion battery. Ensure the battery is correctly inserted into the compartment on the back of the radio. For initial use, fully charge the battery.

CHARGING ANYWHERE, WORRY FREE LOW POWER ISSUE
USB CHARGING, MULTI CHOICE

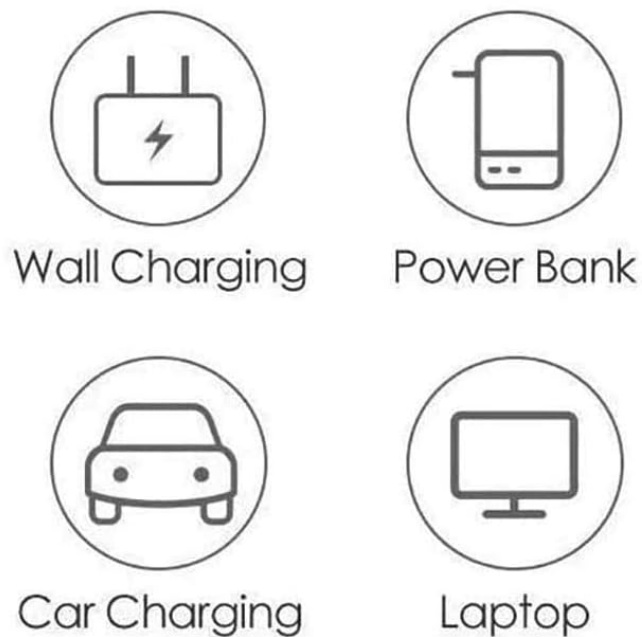


Image 3.1: The RB615 can be charged via various USB sources, including wall chargers, power banks, car chargers, and laptops.

Connect the provided USB charging cable to the programming/charging port on the side of the radio and to a compatible USB power source. The indicator light will show charging status.

3.2 Powering On/Off

To power on the radio, press and hold the ON/OFF button located on the top of the unit. To power off, press and hold the same button.

3.3 Attaching the Belt Clip

The RB615 comes with a rotatable belt clip for convenient carrying. Attach the clip to the designated slot on the back of the radio. The clip can rotate 360 degrees for flexible positioning.



Image 3.2: The RB615 features a 360-degree rotatable belt clip for versatile attachment.

4. OPERATING INSTRUCTIONS

4.1 Channel Selection

Use the Up/Down buttons to select one of the 16 available channels. The selected channel number will be displayed on the LCD screen.

4.2 Transmitting and Receiving

To transmit, press and hold the PTT button on the side of the radio. Speak clearly into the microphone. Release the PTT button to stop transmitting and return to receive mode.

4.3 Wireless Cloning

The wireless cloning function allows you to quickly copy all channel settings from one RB615 (master) to other RB615 units (slaves). Refer to the specific instructions in the full manual for the exact key sequence to initiate wireless cloning.



Image 4.1: The wireless cloning feature allows quick transfer of settings between RB615 units.

4.4 Vibration Alert

When enabled, the vibration function provides a tactile alert for incoming calls, which is particularly useful in noisy environments or when an audible alert is undesirable.

Vibration



Image 4.2: The RB615 provides a vibration alert for incoming signals.

4.5 Emergency Alarm

The RB615 includes an emergency alarm feature. This can be activated to send out an alert signal, either locally or to other radios within range, to indicate a distress situation.



Image 4.3: The SOS icon represents the emergency alarm feature.

4.6 VOX (Voice Operated Exchange)

The VOX function allows for hands-free operation. When enabled, the radio will automatically transmit when it detects your voice, without needing to press the PTT button. The sensitivity of VOX can typically be adjusted via the menu.

4.7 Squelch

Squelch filters out weak signals and background noise. The RB615 allows for adjustment of the squelch level. A lower squelch level (e.g., 2 instead of the factory default 4) can allow reception of weaker signals, but may also increase background noise.

4.8 CTCSS/DCS Tones

CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digitally Coded Squelch) tones are used to filter out unwanted conversations on a channel. Only radios set to the same channel and CTCSS/DCS tone will hear each other. Note that CTCSS/DCS codes may vary slightly between manufacturers; refer to the programming software for precise settings if interoperability issues arise.

5. MAINTENANCE

5.1 Cleaning

Clean the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the charging port and earpiece jack are free from dust and debris.

5.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the radio and battery in a cool, dry place when not in use for extended periods. Use only original or approved replacement batteries.

6. TROUBLESHOOTING

6.1 Common Issues and Solutions

- **No Power:** Check battery charge level. Ensure battery is correctly installed.
- **Cannot Transmit/Receive:** Verify both radios are on the same channel and have matching CTCSS/DCS tones. Check battery level. Ensure PTT button is fully pressed when transmitting.
- **Poor Audio Quality/Range:** Ensure antenna is not obstructed. Move to an open area if communicating over long distances. Adjust squelch level. Environmental factors (buildings, terrain) can significantly impact range.
- **Unexpected Behavior/Settings:** The RB615 can be programmed via PC software. If settings are inadvertently changed or require advanced configuration, consider using the official Retevis programming software and cable. This allows for saving and restoring configurations.
- **Voice Annunciations:** If the radio announces channel numbers, this feature can typically be disabled via the programming software for a quieter operation.

7. SPECIFICATIONS

Feature	Specification
Brand	Retevis
Model Number	EUA9188BX2-C9118A

Feature	Specification
Color	Black
Number of Channels	16
Frequency Range	PMR446
Maximum Range	2 Kilometers (ideal conditions, up to 3km stated in features)
Voltage	3.7 Volts
Battery Type	Lithium-ion (2 included)
Rechargeable Battery	Yes
Item Weight	93 Grams
Water Resistance Level	Not waterproof
Special Features	Vibration, Emergency Alarm, CTCSS /DCS, Squelch, VOX hands-free, Call Tone
Compatible Devices	Other PMR446 walkie-talkies, Belt clips, Lanyards



Image 7.1: Physical dimensions of the RB615 walkie-talkie.

8. WARRANTY AND SUPPORT

8.1 Manufacturer's Warranty

Retevis offers a 2-year warranty for the radio body and a 1-year warranty for accessories. A 30-day no-reason return policy is also provided. For warranty claims or service beyond the warranty period, maintenance services are available, with buyers responsible for associated costs.

8.2 Customer Support

For any inquiries or support needs, please contact Retevis customer service through the platform where the product was purchased. Responses are typically provided within 12 hours.

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