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› Retevis RB645 PMR446 Dual PTT Walkie Talkie Instruction Manual

Retevis RB645

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INTRODUCTION

Thank you for choosing the Retevis RB645 PMR446 Dual PTT Walkie Talkie. This manual provides essential information for the safe and efficient operation of your device. Please read it thoroughly before use and keep it for future reference.

SAFETY INFORMATION

For detailed safety guidelines, please refer to the official safety document:

[Safety Information \(PDF\)](#)

PACKAGE CONTENTS

Ensure all items are present upon unpacking:

- Retevis RB645 Two-Way Radio (4 units)
- Belt Clip (4 units)
- Sling (4 units)
- USB-C Charging Cable (2-in-1)
- 1100mAh Li-ion Battery (4 units)

Standard Accessories



RB645 Two Way Radiox4



Belt clipx4



Slingx4



Charging line
(2-in-1)



Li-ion battery
X4

Image: Contents of the Retevis RB645 package, including four walkie-talkies, four belt clips, four slings, a charging cable, and four lithium-ion batteries.

PRODUCT OVERVIEW AND KEY FEATURES

The Retevis RB645 is a compact and professional PMR446 two-way radio designed for reliable communication. Key features include:

- **Dual PTT Design:** Features both a front and a side Push-to-Talk button for convenient operation with either hand.
- **VOX Function:** Enables hands-free communication, allowing you to transmit by voice activation.
- **Clear Sound with Squelch:** High-quality speaker and adjustable squelch (0-9 levels) ensure clear transmission and reception, even in noisy environments.
- **Emergency Alarm:** Activate local and remote alarms by pressing the side button 2 for immediate assistance.
- **USB-C Rechargeable:** Equipped with an 1100mAh Li-ion battery and a USB-C port for versatile charging options.
- **License-Free Operation:** Operates on PMR446 frequencies, requiring no license for use.
- **Compact and Portable:** Measures 106mm x 53mm x 18mm, making it easy to carry.



Image: The Retevis RB645 walkie-talkie highlighting its dual PTT buttons, located on the front and side for flexible use.



Image: Illustration showing two Retevis RB645 walkie-talkies communicating with clear sound, indicating the squelch function for noise reduction.



Image: A person on a bicycle using the Retevis RB645 walkie-talkie, demonstrating the VOX function for hands-free operation.



Image: The Retevis RB645 walkie-talkie with its emergency alarm activated, showing a red light, in a scenario where assistance might be needed.

SETUP GUIDE

1. Battery Installation and Charging

The Retevis RB645 uses a rechargeable 1100mAh Li-ion battery. Before first use, fully charge the battery.

1. If not already installed, carefully insert the Li-ion battery into the battery compartment on the back of the walkie-talkie, ensuring correct polarity.
2. Connect the provided USB-C charging cable to the USB-C port on the side of the walkie-talkie.
3. Plug the other end of the charging cable into a compatible USB power source (e.g., wall adapter, car charger, power bank).
4. The charging indicator light will show the charging status. A full charge typically takes approximately 3 hours.

Type-C Charging



Image: The Retevis RB645 walkie-talkie connected to a USB-C charging cable, illustrating different power sources for recharging.

2. Attaching Accessories

Attach the belt clip or sling for convenient carrying.

- **Belt Clip:** Align the belt clip with the grooves on the back of the radio and slide it down until it clicks into place.
- **Sling:** Thread the sling through the designated loop on the top or side of the radio.

OPERATING INSTRUCTIONS

1. Power On/Off

Press and hold the power button (usually marked with a circle and vertical line) located on the front panel until the device powers on or off.

2. Channel Selection

Use the "CH+" and "CH-" buttons on the front panel to select your desired communication channel. The RB645 supports 16 channels.

3. Push-to-Talk (PTT) Operation

The RB645 features a dual PTT design for ease of use:

- **Front PTT:** Press the large circular PTT button on the front of the radio to transmit. Release to receive.
- **Side PTT:** Use the PTT button located on the side of the radio for an alternative transmission method. Press to transmit, release to receive.

4. VOX Function (Voice Operated Exchange)

The VOX function allows for hands-free transmission. When activated, the radio will automatically transmit when it detects your voice.

- Refer to the full user manual (if available) or device settings for specific instructions on how to activate and adjust VOX sensitivity.

5. Squelch Function

Squelch eliminates background noise when no signal is being received. The RB645 offers 0-9 levels of squelch adjustment.

- Higher squelch levels require a stronger signal to open the receiver, reducing unwanted noise but potentially missing weak signals. Lower levels allow weaker signals but may pick up more background noise.
- Adjustment typically requires programming software or specific key combinations not detailed here.

6. Emergency Alarm

In an emergency, you can activate the alarm function:

- Press and hold the side button 2 (often the lower side button) to activate both local and remote emergency alarms.

7. Channel Lock

To prevent accidental channel changes, you can lock the channel:

- Press and hold the appropriate button (as indicated by the image, likely a side button) for 3 seconds to lock the channel. Repeat to unlock.



Image: The Retevis RB645 walkie-talkie with a visual cue for channel locking, indicating a 3-second press on a button.

MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or solvents.
- **Battery Care:** To prolong battery life, avoid overcharging or completely draining the battery. Store the radio and battery in a cool, dry place when not in use for extended periods.
- **Water Resistance:** The RB645 is rated IP54 for water resistance, meaning it is protected against dust ingress and splashing water from any direction. It is not designed for submersion. Ensure the USB-C port cover is securely closed to maintain water resistance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery. Ensure the battery is correctly inserted.
Cannot transmit or receive.	Incorrect channel selected. Out of range. Battery low.	Verify both radios are on the same channel. Move closer to the other radio. Charge the battery.
Poor sound quality or static.	Weak signal. Squelch level too low/high. Interference.	Move to an open area. Adjust squelch level. Avoid sources of electronic interference.
Battery life is short.	Battery is old or not fully charged. Frequent transmissions.	Ensure battery is fully charged. Consider replacing old batteries. Reduce transmission time.

SPECIFICATIONS

Feature	Detail
Model Number	RB645
Brand	Retevis
Color	Black
Dimensions (D x W x H)	1.8 x 5.5 x 13.5 cm (0.7 x 2.17 x 5.31 inches)
Weight	103 grams (0.23 lbs)
Battery Type	Lithium Ion (1100 mAh)
Voltage	3.7 Volts
Number of Channels	16
Frequency Range	446.00625 - 446.19375 MHz (PMR446)
Maximum Talk Range	2 Kilometers (1.24 miles)
Special Feature	Emergency Alarm, VOX, Dual PTT, Squelch
Water Resistance Level	IP54 (Dust protected, splash proof)
Compatible Devices	PMR446 devices and compatible headsets
Noise Level	40 Decibels

WARRANTY AND SUPPORT

Retevis offers a comprehensive warranty and support for your RB645 walkie-talkie:

- **Warranty Period:** 3-year warranty for the radio body and a 1-year warranty for accessories.
- **Return Policy:** 30-day no-reason return policy.
- **Post-Warranty Service:** Maintenance services are available beyond the warranty period; associated costs will be borne by the buyer.
- **Contact Support:** For any inquiries or support needs, please contact us through Amazon. We aim to respond within 12 hours.

