

Retevis RB648 Plus

Retevis RB648 Plus Two-Way Radio User Manual

Model: RB648 Plus

1. INTRODUCTION

The Retevis RB648 Plus is a professional-grade, robust, and waterproof two-way radio designed for reliable communication in various environments, including construction sites, outdoor activities, and general professional use. This manual provides essential information for the safe and efficient operation of your device.

Key features include:

- Long-range communication with strong penetration.
- IP67 waterproof and dustproof rating.
- Robust construction from PC and TPE for drop resistance.
- VOX hands-free operation.
- Dual charging methods: Type-C port and desktop charging base.
- Built-in 2000mAh battery for extended use.
- CTCSS/DCS for enhanced communication compatibility.
- Emergency alarm function (local and remote).
- 10 selectable call tones.
- Call vibration reminder.

2. PACKAGE CONTENTS

Upon opening the package, please verify that all items are present and in good condition:

- Retevis RB648 Plus Walkie Talkie (x2)
- 2000mAh Li-ion Battery (x2)
- Type-C Charging Cable (x2)
- Desktop Charging Base (x2)
- Belt Clip (x2)
- Hand Strap (x2)
- User Manual (x2)

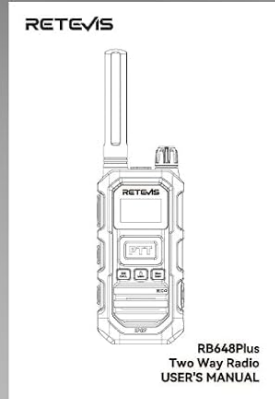
PACKAGE INCLUDES



RB648Plus walkie talkie x2



Type-C charging cable x2



User manual x2



Belt clip x2



Charging base x2



Hand strap x2

Image: Contents of the Retevis RB648 Plus package, including two walkie talkies, charging bases, cables, batteries, belt clips, hand straps, and user manuals.

3. DEVICE OVERVIEW



Image: Two Retevis RB648 Plus walkie talkies, yellow and black, shown in their charging bases.

The RB648 Plus features a durable design with an easy-to-read display and intuitive controls. Key components include:

- **Antenna:** For transmitting and receiving signals.
- **Channel Knob:** To select communication channels.
- **Power/Volume Knob:** To turn the radio on/off and adjust volume.
- **PTT Button:** Push-to-Talk button for transmitting.
- **SOS/Call Button:** For emergency alerts or initiating a call.
- **Menu/Lock Button:** To access menu options or lock the keypad.
- **Monitor/Scan Button:** To monitor channels or activate scan function.
- **Microphone:** For voice input.
- **Speaker:** For audio output.

- **Type-C Charging Port:** For direct charging.

4. SETUP

4.1. Battery Installation and Charging

The RB648 Plus comes with a built-in 2000mAh Li-ion battery. Before first use, fully charge the radio.

1. Connect the Type-C charging cable to the radio's Type-C port or place the radio in the desktop charging base.
2. Connect the charging cable/base to a suitable power source.
3. The charging indicator will show the charging status. A full charge typically takes approximately 5 hours.



Image: The Retevis RB648 Plus radio being charged via its Type-C port, highlighting the dual charging capability.

BUILT-IN 2000MAH BATTERY



Charging time: **5H**



Work time: **18 H**



Image: A Retevis RB648 Plus radio displaying battery information, indicating a 2000mAh capacity and 18 hours of work time after a 5-hour charge.

4.2. Attaching Accessories

Attach the belt clip and hand strap as desired for convenient carrying.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off and Volume Adjustment

Rotate the Power/Volume knob clockwise to turn the radio on. Continue rotating to increase the volume. Rotate counter-clockwise to decrease volume and turn off the radio.

5.2. Channel Selection

Rotate the Channel knob to select your desired communication channel. Ensure all radios in your group are on the same

channel for effective communication.

5.3. Transmitting and Receiving

- To transmit, press and hold the **PTT (Push-to-Talk)** button. Speak clearly into the microphone.
- Release the PTT button to receive.
- The RB648 Plus also features a **Dual PTT** design for ease of use.



Image: A user holding the Retevis RB648 Plus, demonstrating the location of the dual PTT buttons for convenient communication.

5.4. VOX Hands-Free Operation

The VOX (Voice Operated Exchange) function allows you to transmit without pressing the PTT button. Speak into the microphone, and the radio will automatically transmit. This is useful when your hands are occupied.

1. Access the menu and navigate to the VOX setting.
2. Select a VOX sensitivity level (1-9). A higher number indicates greater sensitivity.
3. Exit the menu to activate VOX.

VOX HANDS-FREE



VOX Function



1-9 Level



Image: A Retevis RB648 Plus radio demonstrating the VOX hands-free function, with a user speaking into the microphone while their hands are busy.

5.5. Emergency Alarm

In an emergency, press the **SOS/Call** button to activate the alarm. The RB648 Plus supports both local and remote alarm modes, ensuring your safety by alerting others to your situation.

EMERGENCY ALARM



Users can seek help by triggering the alarm
Local & Remote

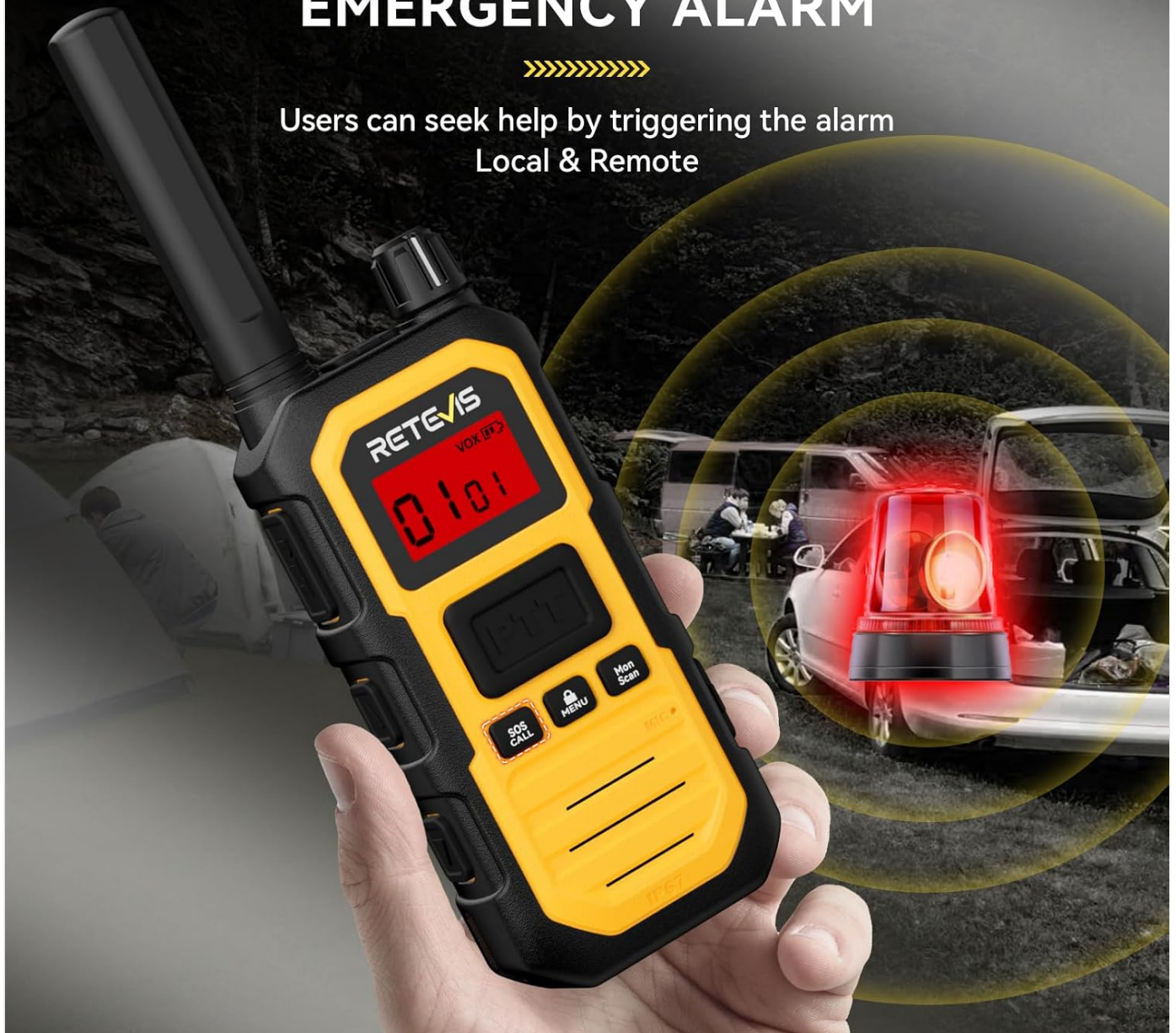


Image: A Retevis RB648 Plus radio displaying an emergency alarm, with a red light flashing in the background, indicating its local and remote alert capabilities.

5.6. Call Vibration and Tones

The radio can vibrate upon receiving a call, ensuring you don't miss important communications, especially in noisy environments. You can also select from 10 different call tones via the menu.

CALL VIBRATION



Remind of receiving information in time



Image: A Retevis RB648 Plus radio vibrating in a car console, illustrating the call vibration feature to alert the user of incoming transmissions.

5.7. Keypad Lock

To prevent accidental changes to settings, you can lock the keypad. Press and hold the **Menu/Lock** button to toggle the keypad lock on or off.



Image: A Retevis RB648 Plus radio displaying a lock icon on its screen, indicating the keypad lock feature is active to prevent unintended operations.

6. MAINTENANCE

6.1. Cleaning

Wipe the radio with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the Type-C port cover is securely closed before cleaning with moisture.

6.2. Water and Dust Resistance (IP67)

The RB648 Plus is rated IP67, meaning it is fully protected against dust ingress and can withstand immersion in water up to 1 meter for 30 minutes. While robust, avoid unnecessary exposure to water or dust to prolong the device's lifespan. Always ensure the Type-C port cover is sealed when in wet or dusty environments.

IP67 WATERPROOF AND DUSTPROOF



IP67 Dustproof,
0.1µm, 8 H



IP67 Waterproof,
1m, 30 Min



Image: A Retevis RB648 Plus radio being splashed with water, illustrating its IP67 waterproof capability, suitable for use in wet conditions.

IP67 ÉTANCHÉITÉ À LA POUSSIÈRE



Image: A Retevis RB648 Plus radio in a dusty environment, highlighting its IP67 dustproof rating, making it suitable for challenging conditions.

6.3. Drop Resistance

Constructed from PC and TPE materials, the RB648 Plus is designed to withstand drops from up to 2 meters, tested 1000 times. This robust design minimizes damage from accidental impacts.

HEAVY DUTY WALKIE TALKIE



Shock-resistant



Fall-resistant



2m, 1000 times



PC+TPE



Image: A Retevis RB648 Plus radio on a rugged road, illustrating its heavy-duty, shock-resistant, and fall-resistant construction from PC+TPE materials.

7. TROUBLESHOOTING

If you encounter issues with your Retevis RB648 Plus, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Battery depleted; Power knob off.	Charge the battery; Rotate power knob clockwise to turn on.
Cannot transmit or receive	Wrong channel; Out of range; Low battery; PTT not pressed.	Verify channel settings; Move closer to other radios; Charge battery; Press PTT firmly.
Poor audio quality	Volume too low/high; Obstructions; Out of range.	Adjust volume; Move to an open area; Move closer to other radios.

Problem	Possible Cause	Solution
Keypad unresponsive	Keypad is locked.	Press and hold the Menu/Lock button to unlock the keypad.

8. SPECIFICATIONS

Feature	Detail
Model Number	RB648 Plus
Brand	Retevis
Color	Yellow
Connectivity Technology	Auxiliary
Special Features	Emergency Alarm, Long Range, Robust, IP67 Waterproof
Compatible Devices	Headset, MP3 Player, Smartphone (for auxiliary connection)
Battery Composition	Lithium-ion
Rechargeable Battery	Yes (2000mAh, included)
Product Dimensions	33L x 61W x 206H millimeters
Power Source	Battery Powered
Supported Radio Bands	VHF (136-174 MHz, 450-470 MHz)
Material	PC and TPE (Rugged)
Origin	China

9. WARRANTY AND SUPPORT

9.1. Manufacturer's Warranty

Retevis offers a 2-year warranty for the radio body and a 1-year warranty for accessories. Additionally, there is a 30-day no-reason return policy. Beyond the warranty period, maintenance services are available, with buyers responsible for associated costs.

9.2. Customer Support

For any questions or support needs, please contact Retevis customer service via Amazon. Responses are typically provided within 12 hours.
For more information, visit the [Retevis Store on Amazon](#).

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

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