

Retevis B64

Retevis B64 Two-Way Radio User Manual

INTRODUCTION

Thank you for choosing the Retevis B64 Two-Way Radio. This manual provides essential information for the safe and efficient operation of your device. Please read it thoroughly before use and retain it for future reference. The Retevis B64 is designed for clear and reliable communication, featuring AI noise reduction and convenient USB-C charging, making it suitable for various outdoor and professional environments.

PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are present and in good condition:

- Talkie-walkie x 2
- Battery x 2
- Type-C Charging Cable x 2
- User Manual x 1
- Charging Base x 2
- Lanyard x 2
- Adapter x 1
- Belt Clip x 2

PRODUCT OVERVIEW

Familiarize yourself with the main components of your Retevis B64 two-way radio:

Two-way AI Noise Reduction

- MTFGRU-based model trained on 100K+ data samples
- Processes TX/RX audio simultaneously for AI noise reduction
- Boosts average SNR by 25 dB

25dB

Up to 25dB
Average SNR

10m

Up to 10m
Auto gain for
clear audio



Figure 1: Front view of the Retevis B64 radio.

- **Antenna:** For transmitting and receiving signals.
- **Power/Volume Knob:** Rotate to turn the radio on/off and adjust volume.
- **Channel Selector Knob:** Rotate to select one of the 16 available channels.
- **Push-to-Talk (PTT) Button:** Press and hold to transmit your voice.
- **Speaker:** For audio output.
- **Microphone:** For voice input.
- **USB-C Charging Port:** For direct charging with a Type-C cable.
- **Accessory Jack:** For connecting compatible earphones or external microphones.
- **Belt Clip:** For attaching the radio to your belt or clothing.



Figure 2: Side view showing PTT button and USB-C port.

SETUP

1. Charging the Battery

Before initial use, fully charge the battery. The radio can be charged using the provided USB-C cable directly or via the charging base.

1. **Using the Charging Base:** Insert the radio into the charging base. Connect the adapter to the charging base and plug it into a power outlet. The indicator light on the base will show charging status (e.g., red for charging, green for fully charged).
2. **Using USB-C Cable:** Connect the Type-C charging cable directly to the USB-C port on the side of the radio and to a compatible USB power source.

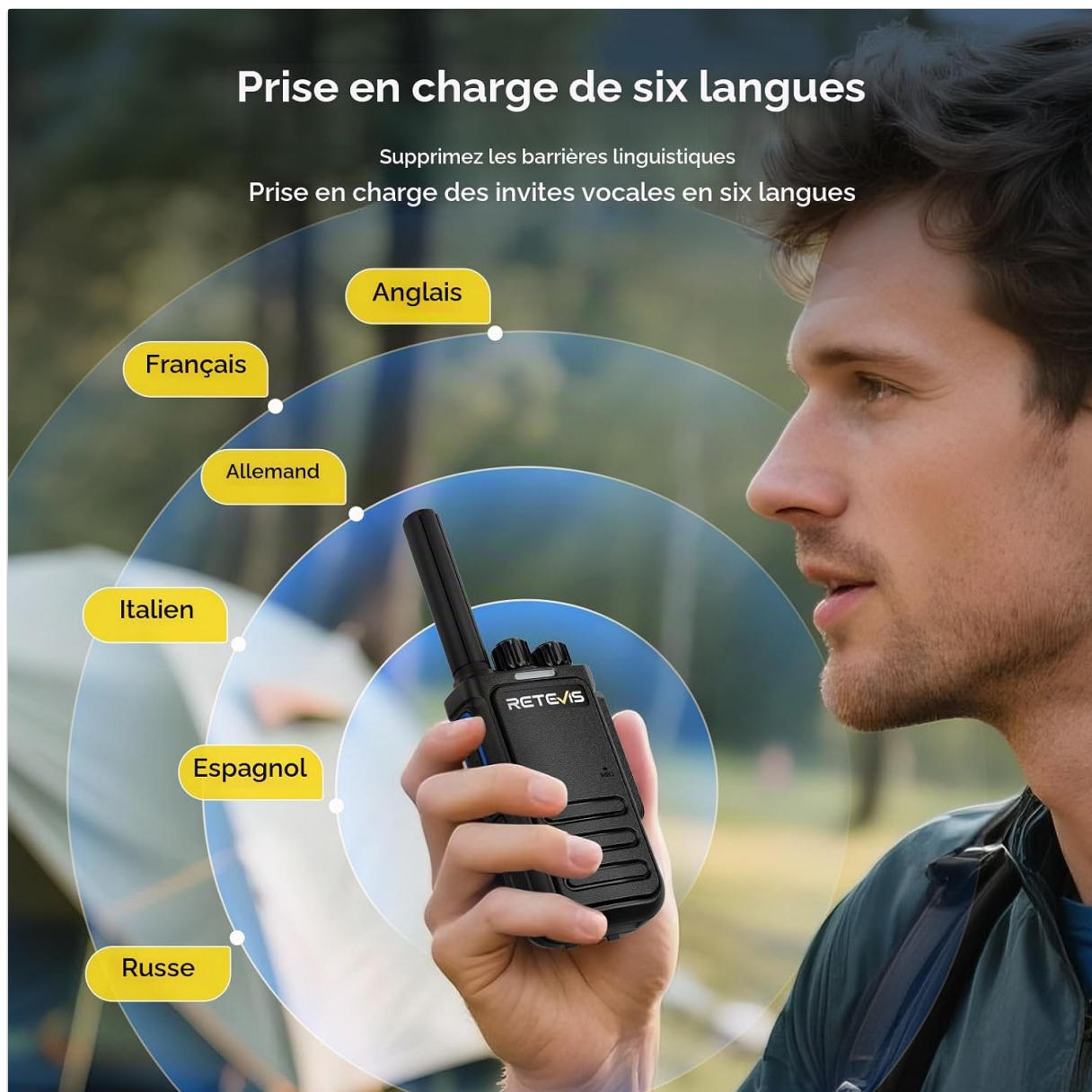


Figure 3: Radios in charging bases.

2. Attaching Accessories

Attach the belt clip and lanyard as desired for convenient carrying.

- **Belt Clip:** Align the belt clip with the screw holes on the back of the radio and secure it with the provided screws.
- **Lanyard:** Thread the lanyard through the designated loop on the top or side of the radio.



Figure 4: Radio with belt clip attached.

OPERATING INSTRUCTIONS

1. Power On/Off and Volume Control

To power on the radio, rotate the Power/Volume knob clockwise until you hear a click and a voice prompt. Continue rotating clockwise to increase the volume. Rotate counter-clockwise to decrease the volume. To power off, rotate the knob counter-clockwise until you hear a click.

2. Channel Selection

The Retevis B64 has 16 channels. To select a channel, rotate the Channel Selector knob to your desired channel number. Ensure all radios you wish to communicate with are set to the same channel.

3. Transmitting and Receiving

To transmit, press and hold the Push-to-Talk (PTT) button located on the side of the radio. Speak clearly into the microphone. Release the PTT button to stop transmitting and listen for a response. The radio will automatically receive signals when the PTT button is not pressed.

4. VOX Function (Voice Operated Exchange)

The VOX function allows for hands-free communication. When activated, the radio will automatically transmit when it detects your voice, without needing to press the PTT button. To activate VOX, long-press the side key (usually the button above PTT, if present and programmable for VOX). Refer to the specific programming instructions if your radio requires software configuration for VOX.

5. AI Noise Reduction

The Retevis B64 features an AI chip for bilateral noise reduction, enhancing sound quality in noisy environments. This feature operates automatically to filter out background noise, ensuring clearer communication.



Figure 5: AI Noise Reduction in action.

6. Power Saving Mode

The radio is equipped with a power-saving mode that activates during periods of inactivity to extend battery life. This mode helps conserve energy, especially useful during long periods of standby or less frequent communication.

7. Recording and Playback

The Retevis B64 supports recording and playback functionality. This feature allows users to record conversations for later review. Consult the full programming guide for details on activating and managing recordings.

MAINTENANCE

1. Cleaning

Regularly clean the radio with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the radio is powered off and dry before cleaning.

2. Battery Care

To maximize battery life and performance:

- Fully charge the battery before first use.
- Avoid overcharging or completely draining the battery.
- Store the radio and battery in a cool, dry place when not in use.
- If the battery alert activates, recharge the radio promptly.



Figure 6: Low battery alert indication.

3. Water Resistance

The Retevis B64 is rated as waterproof. While it can withstand splashes and light rain, avoid submerging the radio in water for extended periods. Ensure all port covers are securely closed to maintain water resistance.

TROUBLESHOOTING

If you encounter issues with your Retevis B64 radio, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
No power	Battery is low or dead.	Charge the battery fully.
Cannot transmit or receive	Radios are on different channels. Out of range. Volume too low.	Ensure both radios are on the same channel. Move closer to the other radio. Increase the volume.
Poor audio quality / Static	Weak signal. Interference. Volume too high.	Move to an open area. Change channels. Adjust volume to a comfortable level.
Battery drains quickly	Frequent transmission. Old battery.	Utilize power-saving mode. Consider replacing the battery if it's old.

SPECIFICATIONS

Key technical specifications for the Retevis B64 Two-Way Radio:

Feature	Specification
Brand	Retevis
Model Number	B64
Color	Black

Feature	Specification
Number of Channels	16
Special Feature	AI Noise Reduction
Frequency Range	446.00625-446.19375MHz
Maximum Range	5 Kilometers
Voltage	3.7 Volts
Water Resistance Level	Waterproof
Item Weight	120 Grams
Average Battery Life	26 hours
Noise Level	25 Decibels
Compatible Devices	Retevis B64 Walkie-Talkie, compatible earphones or headsets
Dimensions (P x L x H)	6P x 20l x 25H centimeters

WARRANTY AND SUPPORT

Warranty Information

Retevis provides a 2-year warranty for the radio body and a 1-year warranty for accessories. Additionally, a 30-day no-reason return policy is offered. Beyond the warranty period, maintenance services are still available, with buyers responsible for associated costs. The process is designed to be as straightforward as possible.

Customer Support

For any questions, issues, or warranty claims, please contact Retevis customer support via Amazon. We aim to respond within 12 hours to assist you.