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## Retevis Matetalk B4

# Retevis MateTalk B4 Walkie Talkie Instruction Manual

Model: Matetalk B4

## 1. PRODUCT OVERVIEW

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The Retevis MateTalk B4 is a license-free two-way radio designed for clear and reliable communication. It features AI noise reduction, dual charging options, and a compact, portable design, making it suitable for various outdoor activities and professional environments.



Figure 1: Retevis MateTalk B4 Walkie Talkie

# Designed for Outdoor Adventures



Strong noise  
reduction



Long-lasting  
battery



Compact and  
lightweight



Figure 2: The MateTalk B4 is designed for outdoor use, highlighting its strong noise reduction, long-lasting battery, and compact size.

## 2. SETUP

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### 2.1 What's in the Box

Your Retevis MateTalk B4 package includes the following items:

- 2 x B4 walkie-talkie and 1200mAh battery
- 2 x Charging base
- 2 x Type-C charging cable
- 2 x Charger adapter
- User Manual

# Package Includes



Figure 3: All components included in the MateTalk B4 package.

## 2.2 Charging the Battery

Before first use, fully charge the walkie talkie batteries. The MateTalk B4 offers two charging methods:

1. **Type-C Charging:** Connect the Type-C cable directly to the walkie talkie.
2. **Base Charging:** Place the walkie talkie in the provided charging base.

A full charge typically takes 2-3 hours. The radio features a 1200mAh battery, providing over 54 hours of standby time and 19 hours of usage time.





Figure 4: Side view of the walkie talkie, showing the Type-C charging port and audio jack.



Figure 5: The dedicated charging base for the MateTalk B4.



Figure 6: Illustration of Type-C and base charging options for the walkie talkie.

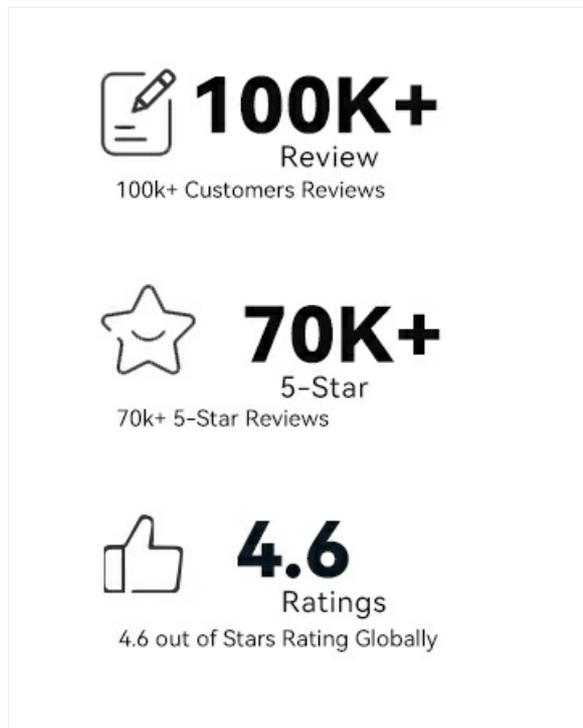


Figure 7: The 1200mAh battery provides extended usage and standby times.



Figure 8: The radio automatically enters power-saving mode when not in use to extend battery life.



Figure 9: The walkie talkie provides a flashing red signal light and voice prompt when the battery is low.

Video 1: This video demonstrates the dual charging options (Type-C and base charging) and highlights the long-lasting battery of the MateTalk B4.

## 3. OPERATING INSTRUCTIONS

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### 3.1 Power On/Off and Channel Adjustment

To power on the walkie talkie, rotate the top knob clockwise. To power off, rotate it counter-clockwise. To adjust the channel, rotate the channel selector knob.



Figure 10: Top view of the walkie talkie, showing the power/volume knob and channel selector knob.

Video 2: This video demonstrates the simple operation of the walkie talkie, including power on/off and channel adjustment.

### 3.2 VOX Function (Voice Operated Exchange)

The VOX function allows for hands-free communication. When activated, the radio transmits automatically when it detects your voice, eliminating the need to press the Push-to-Talk (PTT) button. Activate VOX by long-pressing the side key (configurable via PC software).

# VOX

Stay focused on the adventure, not on pressing PTT button



Figure 11: A user communicating hands-free using the VOX function.



Figure 12: Icon representing the VOX function.

### 3.3 One-Key Pairing

The one-key pairing feature simplifies connecting multiple radios. To pair, power on both radios while holding down the bottom side key 2 on one device until a pairing signal is heard. The device enters pairing mode with a flashing green light. Then, press and hold the PTT button on the other device to successfully pair.

# One-key Pairing

Easily press a button to align bands across multiple devices



Figure 13: Two MateTalk B4 radios demonstrating the one-key pairing process.



Figure 14: Icon representing the one-key pairing function.

## 3.4 AI Two-way Noise Reduction

The MateTalk B4 incorporates advanced AI noise reduction technology to filter out environmental sounds like wind, river noise, and traffic, ensuring clear communication. This two-way system processes both transmitted and received audio, improving the Signal-to-Noise Ratio (SNR) by an average of 25dB.

# 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

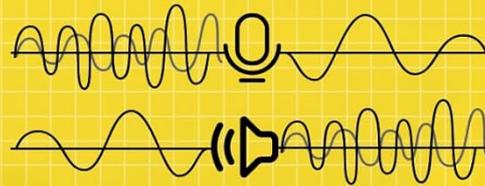
**10m**

Up to 10m  
Auto gain for  
clear audio



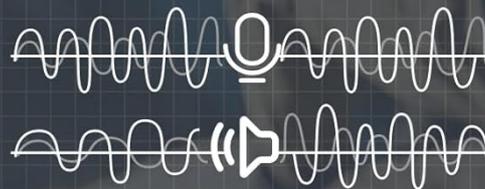
Figure 15: Diagram illustrating the 25dB SNR improvement and 10m auto gain for clear audio provided by two-way AI noise reduction.

# Smarter, More Precise, Clearer



## Digital Two-Way Noise Reduction

AI dynamically separates voice  
Noise reduced, voice clear



## Analog One-Way Noise Reduction

One-way noise reduction  
Hardware weakens fixed noise

Figure 16: Comparison showing how digital two-way noise reduction dynamically separates voice from noise for clearer communication, unlike analog one-way systems.

# Non-Noise Reduction vs.Noise Reduction



## Two-Way Intelligent Noise Cancellation

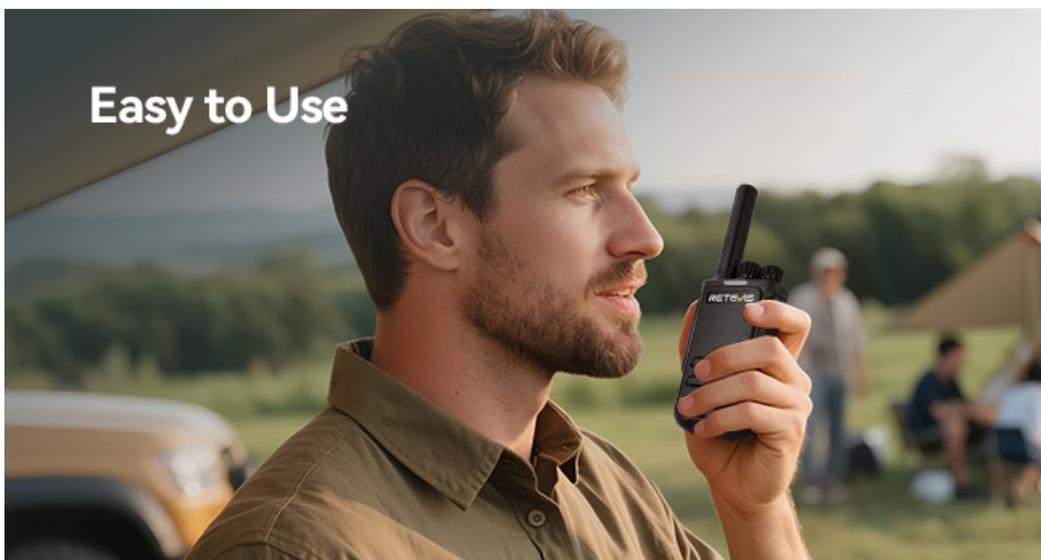
- ✓ Background sound filtering
- ✓ Wind noise reduction
- ✓ Audio preprocessing



## Ordinary Walkie-Talkie

- ✗ Background noise
- ✗ Wind noise
- ✗ No audio preprocessing

Figure 17: Visual comparison of the MateTalk B4's intelligent noise cancellation (filtering background sound, wind noise reduction, audio preprocessing) against an ordinary walkie-talkie.



## Easy to Use

Figure 18: Diagram showing how intelligent AI two-way noise reduction separates human voice from background and other noises during both talking and listening.



Figure 19: Comparison of sound clarity with two-way AI noise reduction (tackles intricate noise types) versus normal noise reduction (suppresses steady-state noise).

## Recording & Playback

Allows you to capture and relive your family communication

What are you doing?  
Come back for dinner quickly

Note: The function needs to be set via the PC

A hand is holding a black Retevis walkie-talkie. A yellow speech bubble overlay contains the text "What are you doing? Come back for dinner quickly". The background is a blurred outdoor scene with people and a tent. The text "Recording & Playback" and "Allows you to capture and relive your family communication" is in the top left. A note at the bottom says "Note: The function needs to be set via the PC".

Figure 20: The MateTalk B4 effectively suppresses wind gusts, rushing water, and other outdoor noises in a camping environment.

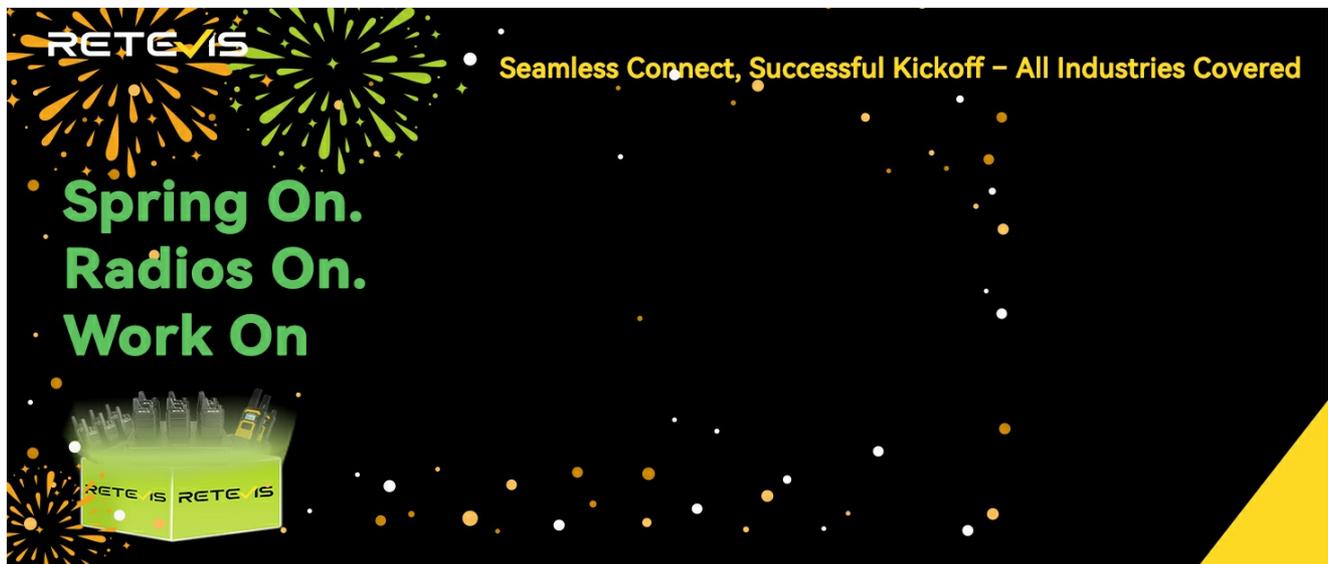


Figure 21: The radio significantly reduces persistent wind noise and water flow disruptions during hiking, maintaining clear communication.

Video 3: This video explains the principle behind the two-way noise reduction technology.

Video 4: This video provides a comparison of the noise reduction effect in different environments.

### 3.5 Emergency Alarm

In an emergency, you can activate the alarm function. Long-press the side key 2 (configurable via PC software) to trigger an audible alarm, alerting others to your situation.

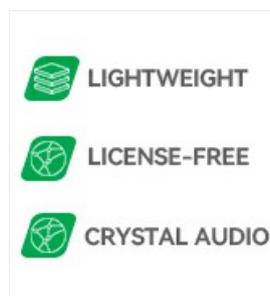


Figure 22: Icon representing the emergency alarm function.

### 3.6 Recording and Playback

The MateTalk B4 supports recording and playback of communications. This feature allows you to capture and review messages. The function needs to be set via PC software.



Figure 23: Icon representing the recording and playback function.

### 3.7 CTCSS/DCS

The MateTalk B4 supports CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digital Coded Squelch) for enhanced privacy and to filter out unwanted conversations on the same channel. This feature needs to be configured via PC software.



Figure 24: Icon representing the CTCSS/DCS function.

## 4. MAINTENANCE

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To ensure the longevity and optimal performance of your Retevis MateTalk B4 walkie talkie, follow these maintenance guidelines:

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** Store the radio in a cool, dry place away from direct sunlight and extreme temperatures. Remove the battery if storing for extended periods.
- **Battery Care:** Do not overcharge or completely drain the battery frequently. Charge the battery regularly even if the radio is not in use to maintain battery health.
- **Avoid Impact:** Protect the radio from drops and strong impacts, which can damage internal components.

## 5. TROUBLESHOOTING

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If you encounter issues with your MateTalk B4, refer to the following common troubleshooting steps:

- **No Power:** Ensure the battery is fully charged and correctly installed. Check if the power/volume knob is turned on.
- **Cannot Transmit or Receive:** Verify that both radios are on the same channel and that the battery level is sufficient. Check for obstructions or excessive distance between radios.
- **Poor Audio Quality:** Ensure the antenna is securely attached. Move to an area with fewer obstructions. Check if the noise reduction feature is enabled and functioning correctly.
- **Short Range:** Obstacles like buildings, hills, and dense foliage can reduce range. Try moving to a higher or more open area. Ensure the battery is fully charged.
- **Radio Not Responding:** Try turning the radio off and then on again. If the issue persists, remove and reinsert the battery.

## 6. SPECIFICATIONS

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Here are the detailed specifications for the Retevis MateTalk B4 Walkie Talkie:

Feature	Specification
Item Weight	4.9 ounces
Product Dimensions	1.38 x 2 x 3.81 inches
Item Model Number	Matetalk B4
Batteries	2 Lithium Ion batteries required (included)

Brand	Retevis
Color	Black
Number of Channels	22
Special Feature	Noise Cancellation
Frequency Range	FRS
Talking Range Maximum	5 Kilometer
Voltage	3.72 Volts
Water Resistance Level	Not Water Resistant



Figure 25: Rear view of the walkie talkie, displaying model information and FCC ID.

## 7. WARRANTY AND SUPPORT

## **7.1 Warranty Information**

Retevis provides 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.

## **7.2 Post-Warranty Service**

Beyond the warranty period, maintenance services are still offered. Buyers are responsible for the corresponding costs.

## **7.3 Customer Support**

For any inquiries or support needs, please contact Retevis customer service on Amazon. They aim to reply within 12 hours to assist you in the most hassle-free way possible.