



[Manuals.plus](#) /

› [Retevis](#) /

› Retevis RT21V MURS Radios Walkie Talkies User Manual

Retevis FA9118MX3-C9034AX6

Retevis RT21V MURS Radios User Manual

Model: FA9118MX3-C9034AX6

Brand: Retevis

INTRODUCTION

The Retevis RT21V is a commercial MURS radio designed for reliable, license-free two-way communication. It operates on 5 low-traffic channels, making it ideal for environments where clear and uninterrupted communication is essential. This manual provides comprehensive instructions for setup, operation, and maintenance of your RT21V radios.

WHAT'S IN THE BOX

- 6 x RT21V MURS two-way radio
- 6 x 1100 mAh battery
- 6 x belt clip
- 6 x USB charger
- 6 x sling
- 3 x English user manual

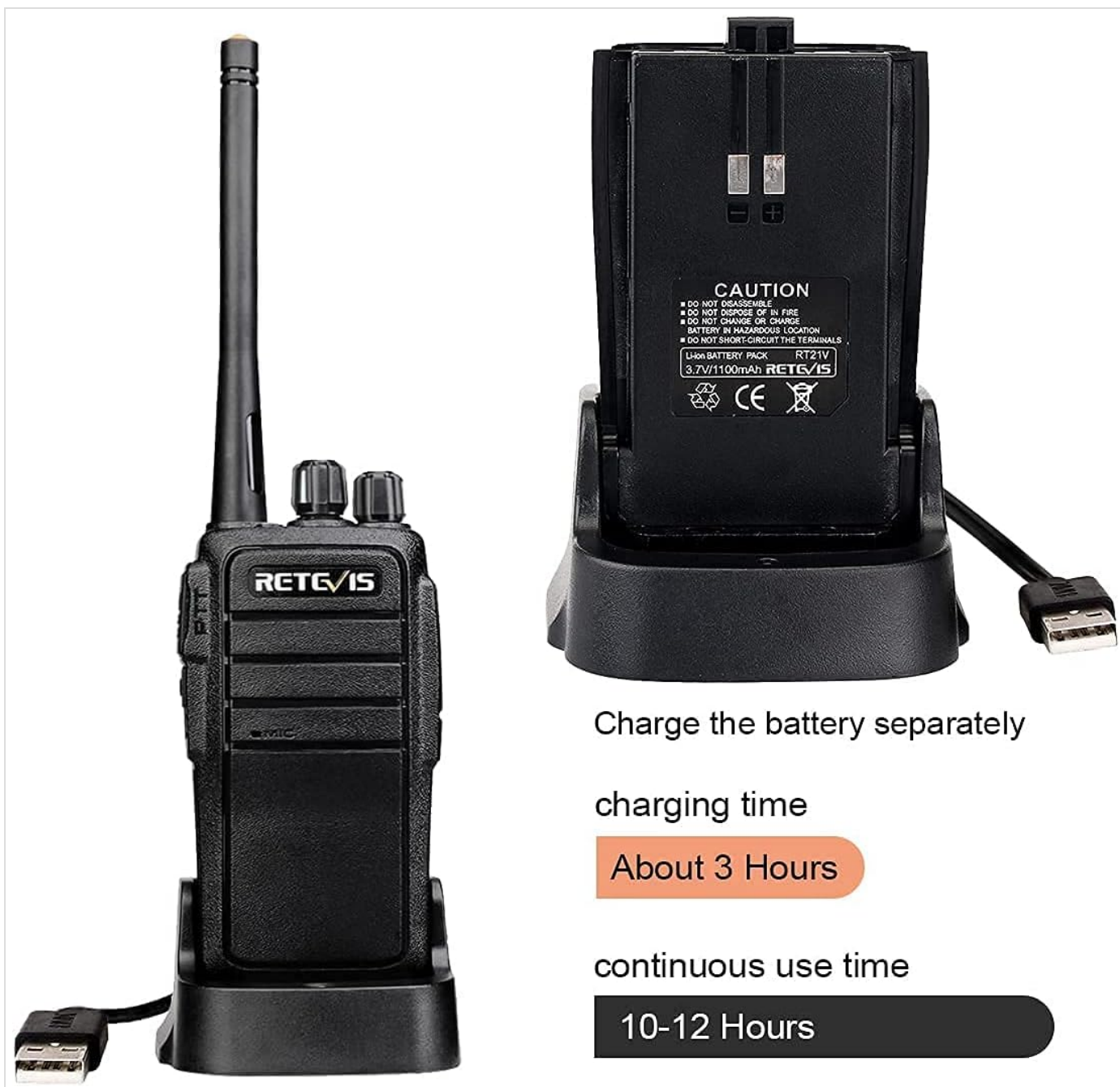


Image: Six Retevis RT21V MURS radios with individual charging docks and USB chargers, as included in the 6-pack.

SETUP

Battery Installation and Charging

The RT21V radios come with detachable 1100 mAh Lithium Ion batteries. To install, align the battery with the back of the radio and slide it into place until it clicks securely. For charging, use the provided USB charger and charging cradle. The battery can be charged separately or while attached to the radio. A full charge typically takes about 3 hours and provides 10-12 hours of continuous use (based on 10% transmission, 90% standby).



Charge the battery separately

charging time

About 3 Hours

continuous use time

10-12 Hours

Image: Retevis RT21V radio with detached battery and charging cradle, illustrating the separate charging capability and battery life.

Antenna Attachment

The RT21V features a detachable antenna with an SMA male pin connector. Screw the antenna clockwise onto the top of the radio until it is finger-tight. Ensure it is securely attached for optimal performance.

LOW TRAFFIC



Other frequencies
High number of users, channel congestion, always extraneous conversations interrupting communication

MURS frequency

Small number of users, quiet channel, clear sound quality and smooth calls



Image: Close-up views of the Retevis RT21V radio, showing the antenna connection point and other features.

OPERATING

Basic Operation

To power on the radio, rotate the top-most knob clockwise. The radio will announce the current channel number. To change channels, rotate the channel knob. The RT21V has 5 pre-programmed MURS channels. To transmit, press and hold the Push-to-Talk (PTT) button on the side of the radio. Release to listen.

MURS Radio



Note:

**MURS radio can only
talk to MURS radio.**

RT21V

High bypass capability

Quiet

License free

Image: Retevis RT21V MURS radio with a note emphasizing that MURS radios can only communicate with other MURS radios.

MURS Channels and License-Free Use

The Multi-Use Radio Service (MURS) operates on 5 specific channels (151.820, 151.880, 151.940, 154.570, 154.600 MHz). These channels are low-traffic and do not require a license for operation, making them suitable for various personal and business uses. Please note that RT21V MURS radios can only communicate with other MURS radios.



More detail



Durable back clip Replaceable high gain antenna



Easy to operate

Rugged design

Image: A graphic illustrating the low traffic nature of MURS frequencies compared to other radio frequencies, highlighting clearer communication.

VOX and Squelch Functions

The RT21V supports VOX (Voice Operated Exchange) for hands-free operation. This feature allows the radio to transmit automatically when it detects your voice. The squelch function (levels 0-9) helps to suppress background noise, providing clearer audio. A low battery alert will notify you when the battery needs recharging.

Speaker/Microphone Port

The radio features a standard Kenwood 2-pin accessory port, allowing compatibility with a wide range of speaker microphones and headsets for enhanced communication flexibility.

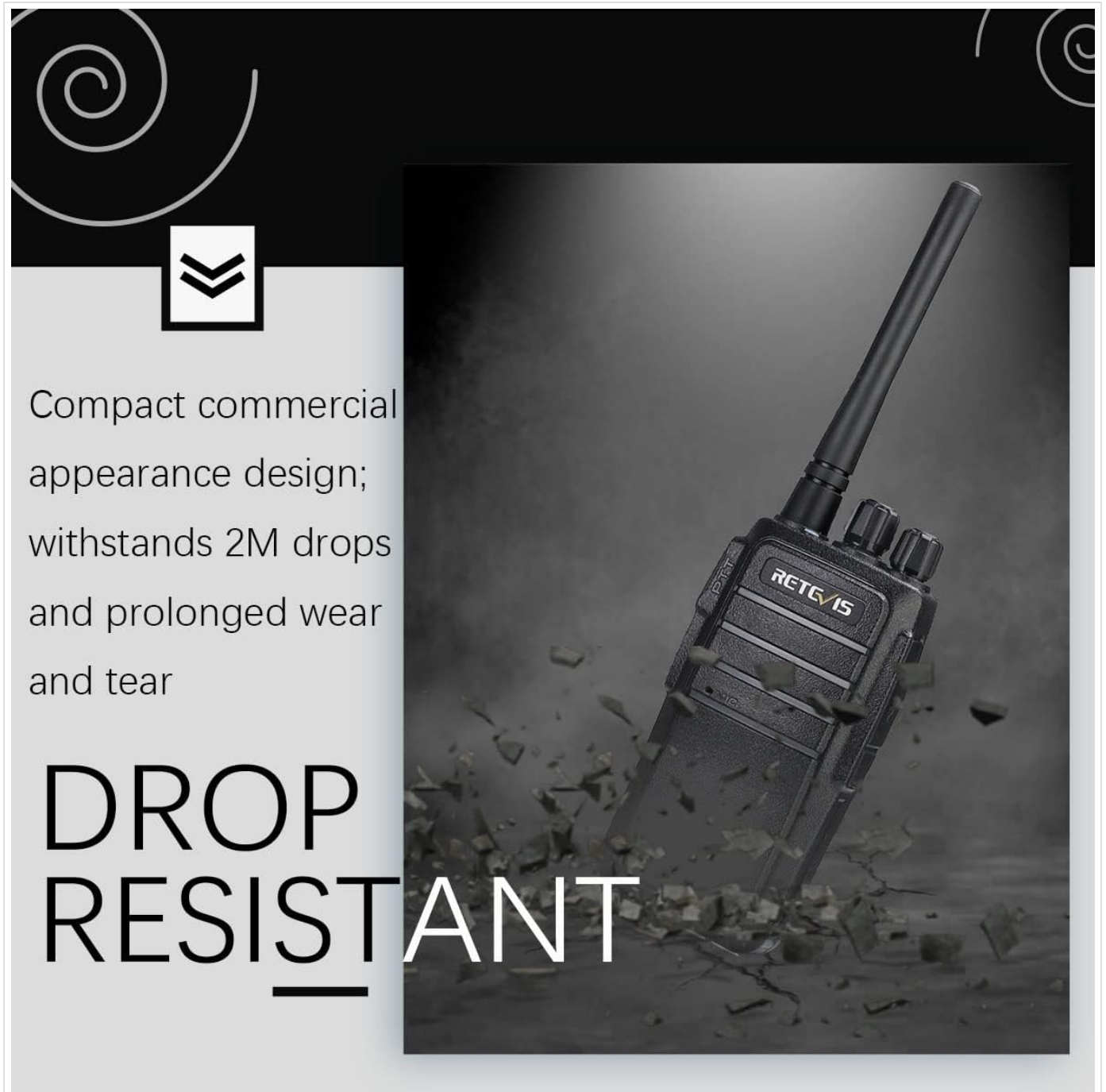
Video: A demonstration on how to use the Retevis RT21V radio, covering basic functions and features.

Video: Explains the benefits of using MURS walkie-talkies for various communication needs.

MAINTENANCE

Rugged Design

The RT21V is built with a commercial-grade, anti-fall fuselage design, capable of withstanding 2-meter drops and prolonged wear and tear. This rugged construction ensures durability in demanding environments.



Compact commercial appearance design; withstands 2M drops and prolonged wear and tear

DROP RESISTANT

Image: The Retevis RT21V radio is depicted as drop-resistant, highlighting its robust build quality.

Water Resistance

Please note that the Retevis RT21V is not water-resistant. Avoid exposing the radio to water or excessive moisture to prevent damage.

TROUBLESHOOTING

Radio Compatibility

MURS radios can only communicate with other MURS radios. They are not compatible with other radio services like FRS or GMRS. If you need to communicate with other brands of MURS radios, contact Retevis support for potential firmware solutions.

What scenarios are MURS radios suitable for?



small to medium business



≤ 10 employees



about 1,000,000 square feet



floors ≤ 15th floor



store



pet hospitals



restaurants



dental



Image: Q&A section clarifying that RT21V MURS radios only work with other MURS radios, and specific compatible Retevis models are listed.

Range Limitations

In areas with many buildings and obstacles, MURS penetration is weak, and distances are largely limited to line-of-sight. For optimal range, use the radios in relatively open outdoor areas, such as agricultural fields or large open spaces.

Not Found

Video: An animated explanation of factors affecting two-way radio range, including terrain and obstacles.

Extending Communication Distance

To extend communication distance:

- Increase transmission power (in theory, if transmission power is doubled, communication distance can be expanded to approximately 1.4 times the original distance).
- Improve receiving sensitivity (adjust squelch threshold and use a high-gain antenna).
- Keep launching from a higher location.
- Keep your battery charged.

SPECIFICATIONS

Feature	Specification
Item Weight	4.2 ounces
Product Dimensions	4.33 x 2.1 x 1.2 inches
Item Model Number	FA9118MX3-C9034AX6
Batteries	1 Lithium Ion batteries required (included)
Color	Black
Number of Channels	5
Special Feature	Low Traffic; License Free; Rugged
Frequency Range	151.820, 151.880, 151.940, 154.570, 154.600 MHz
Tuner Technology	MURS
Voltage	3.7 Volts
Water Resistance Level	Not Water Resistant

WARRANTY & SUPPORT

Retevis provides a 2-year warranty for the radio body and a 1-year warranty for accessories. We also offer 30 days no reason to return. Beyond the warranty period, maintenance services are available, with buyers responsible for corresponding costs. For support, please contact us on Amazon, and we will reply within 12 hours.

