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radtel RT-900

Radtel RT-900 8W Multi Band Ham Radio Handheld Walkie Talkie User Manual

Model: RT-900

INTRODUCTION

The Radtel RT-900 is an 8W multi-band handheld walkie-talkie designed for clear and reliable communication. It features advanced noise reduction, a large LCD display, and the ability to receive aviation band communications. With 256 channels and flexible programming options, it is suitable for various demanding environments and enthusiast use.

Key features include:

- **Flexible Programming:** Easily configure via mobile app (iOS/Android), PC CPS software, or CHIRP programming.
- **Advanced Noise Reduction:** Ensures clear communication even in noisy environments like construction sites or outdoor activities.
- **Large LCD Display:** Shows channel number, frequency, and names simultaneously for easy navigation.
- **Aviation Band Reception:** Allows listening to air traffic communications (108-136 MHz).
- **Multi-Band Operation:** Supports AM: 108-136MHz RX, 144-146Mhz TX/RX, 430-440Mhz TX/RX.

SETUP

Unboxing and Components

Upon opening the package, ensure all components are present:

- Radtel RT-900 Radio Unit
- Air Band Flex Antenna (108-136Mhz)
- Charging Cable (Type-C)



Image: The Radtel RT-900 handheld radio shown alongside its programming interface on a smartphone, highlighting its compact design and digital display.

Charging the Battery

The RT-900 features convenient Type-C fast charging. Before first use, fully charge the radio's battery. Connect the Type-C cable to the radio and a compatible USB power source. The charging indicator will show the charging status.



Type-c Charging 3-5 Days Standby Time



Image: The Radtel RT-900 charging via its Type-C port, demonstrating its compatibility with various power sources like wall adapters, laptops, and car chargers.

Attaching the Antenna

Carefully screw the provided Air Band Flex Antenna onto the antenna connector at the top of the radio until it is finger-tight. Do not overtighten.

Soft Whip Antenna

385mm/15.16inch



Bendable



Image: The flexible whip antenna, measuring 385mm (15.16 inches), shown with an illustration of its bendable design for durability and portability.

Programming the Radio

The Radtel RT-900 offers multiple programming methods:

- **Mobile App:** Supports both iOS and Android devices, allowing for convenient on-the-go configuration.
- **PC CPS Software:** For detailed programming and management of channels and settings via a computer.
- **CHIRP Programming:** Compatible with CHIRP software for open-source programming flexibility.



Image: The Radtel RT-900's display alongside a smartphone screen, illustrating the user-friendly interface of the mobile programming application for channel and frequency management.

OPERATING INSTRUCTIONS

Power On/Off and Volume

To power on the radio, rotate the top knob clockwise. Continue rotating to adjust the volume. Rotate counter-clockwise until a click is heard to power off.

Channel Selection and Frequency Mode

Use the up/down arrow buttons to navigate through channels. The large LCD display shows the current channel number, frequency, and channel name. Press the VFO/MR button to switch between Frequency (VFO) mode and Memory (MR) channel mode.

Push-to-Talk (PTT) Button

Press and hold the PTT button on the side of the radio to transmit. Release the button to receive.

Noise Reduction

The RT-900 features advanced noise reduction. This function is automatically active to provide clearer audio in noisy environments. Ensure your microphone is positioned correctly for optimal performance.

Aviation Band Reception

The RT-900 can receive communications on the aviation band (108-136 MHz). To access this, ensure you are in the correct frequency range. This feature is for listening only and does not permit transmission on aviation frequencies.



Image: An overview of the Radtel RT-900's capabilities, highlighting its 8W power output, wide frequency coverage, NOAA weather radio support, aviation band reception, FM radio, and high-fidelity audio.

MAINTENANCE

To ensure the longevity and optimal performance of your Radtel RT-900, follow these maintenance guidelines:

- Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or abrasive cleaners.
- Storage:** Store the radio in a cool, dry place away from direct sunlight and extreme temperatures.
- Battery Care:** Avoid fully discharging the battery frequently. If storing for extended periods, charge the battery to about 50% capacity.
- Antenna:** Handle the antenna with care to prevent bending or damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on	Low battery; Power knob off	Charge the battery; Rotate power knob clockwise

Problem	Possible Cause	Solution
Cannot transmit or receive	Incorrect frequency/channel; Antenna not attached; Battery low	Verify channel/frequency settings; Attach antenna securely; Charge battery
Poor audio quality	Weak signal; Obstructions; Volume too low/high	Move to an open area; Adjust volume; Check noise reduction settings
Programming issues	Incorrect software/driver; Cable connection issue	Ensure correct software version; Check USB cable connection; Consult programming guide

SPECIFICATIONS

Feature	Detail
Brand	radtel
Model Number	7a1a4e93-0512-45f3-8aec-ed8d1c6f62e1
Number of Channels	256
Frequency Range	108-136 MHz (RX), 144-146 MHz (TX/RX), 430-440 MHz (TX/RX)
Special Features	Air Band Antenna, Noise Reduction
Water Resistance Level	Not Water Resistant
Included Components	Radio, Antenna
Compatible Devices	Smartphone (for programming)
First Available Date	February 16, 2025

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Radtel website. Keep your proof of purchase for warranty claims.

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Related Documents - RT-900

	Radtel RT-910/RT-910B Dual Band Two-Way Radio User Manual Comprehensive user manual for the Radtel RT-910 and RT-910B dual band two-way radios, detailing features, operations, button functions, display indicators, menu system, technical specifications, and safety information.
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	<p>Radtel RT-490 User Manual</p> <p>Comprehensive user manual for the Radtel RT-490 Six Band Handheld Two-Way Radio, detailing features, operation, programming, and Bluetooth connectivity.</p>
	<p>radtel RT-910/RT-910B Zweiwegradio Bedienungsanleitung</p> <p>Umfassende Bedienungsanleitung für das radtel RT-910/RT-910B Zweiwegradio. Enthält Informationen zu Funktionen, Tastenbelegung, Menüführung, Sicherheitshinweisen und technischen Spezifikationen.</p>
	<p>Radtel RT-900 Two Way Radio User Manual and Specifications</p> <p>Comprehensive guide to the Radtel RT-900 Two Way Radio, covering features, operation, menu functions, technical specifications, and safety information.</p>
	<p>Manual de Usuario Radio Bidireccional Radtel RT-910/RT-910B</p> <p>Guía completa del usuario para la radio bidireccional Radtel RT-910 y RT-910B. Aprenda sobre sus funciones, operaciones, especificaciones técnicas y seguridad.</p>
	<p>Manuale d'Uso Ricetrasmettitore Radtel RT-860</p> <p>Manuale d'uso completo per il ricetrasmettitore Radtel RT-860, con istruzioni dettagliate su precauzioni, funzioni della tastiera, impostazioni, gestione dei canali e specifiche tecniche.</p>