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Radtel RT-600 Air Band Walkie Talkie User Manual

Model: RT-600

Your reliable communication companion.

1. INTRODUCTION

The Radtel RT-600 is a versatile multi-band ham radio designed for a wide range of communication needs, from amateur radio enthusiasts to outdoor adventurers. It offers extensive frequency reception capabilities, advanced features like one-key frequency copy, and essential functions such as NOAA weather alerts and emergency signaling. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your RT-600 radio to ensure optimal performance and longevity.

2. WHAT'S IN THE Box

Upon opening your Radtel RT-600 package, please verify that all the following components are included:

- Radtel RT-600 Radio Body x1
- Li-ion Battery Pack x1
- Dual Band Antenna x1
- Belt Clip x1
- Desktop Charger x1
- Handstrap x1
- User's Manual x1 (This document)



Figure 2.1: All components included in the Radtel RT-600 package.

3. PRODUCT OVERVIEW

Familiarize yourself with the physical components and controls of your Radtel RT-600 radio.





Figure 3.1: Front view of the Radtel RT-600 radio.



Figure 3.2: Various angles of the Radtel RT-600 radio.

4. SETUP

4.1. Battery Installation and Charging

1. Align the Li-ion battery pack with the battery compartment on the back of the radio.
2. Gently push the battery into place until it clicks securely.
3. Connect the desktop charger to a power outlet.
4. Place the radio into the charging cradle. The indicator light on the charger will show the charging status.
5. Charge the battery fully before first use (approximately 4-6 hours).

Note: The RT-600 does not support USB-C charging directly on the radio body.

4.2. Antenna Attachment

1. Screw the dual-band antenna clockwise onto the antenna connector at the top of the radio until it is finger-tight. Do not overtighten.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

- To power on: Rotate the volume knob clockwise until you hear a click and the display illuminates.
- To power off: Rotate the volume knob counter-clockwise until you hear a click.

5.2. Mode Switching (Channel Mode / Frequency Mode)

The RT-600 supports both Channel Mode (for pre-programmed channels) and Frequency Mode (for direct frequency input).

- Press the **VFO/MR** button to toggle between Channel Mode and Frequency Mode.

Video 5.2.1: Demonstration of switching between channel mode and frequency mode on the Radtel RT-600.

5.3. One-Key Frequency Copy (Auto Frequency Capture)

This feature allows the RT-600 to quickly copy the frequency and CTCSS/DCS tone from another radio within 1 meter distance, enabling immediate communication without manual programming.

- Place the two radios close to each other (within 1 meter).
- Activate the frequency copy function on the RT-600 (refer to the specific key combination in your quick start guide or on-screen prompts).
- The radio will scan and capture the frequency and tone from the transmitting radio.

Video 5.3.1: Guide on how to quickly copy a frequency from another radio using the Radtel RT-600.

5.4. Flashlight and Emergency Alert

- To activate the flashlight: Press the dedicated flashlight button (refer to radio diagram for location).
- To activate emergency alert: Press and hold the emergency alert button (refer to radio diagram for location). The radio will emit a loud alarm and/or transmit a distress signal.

Power-on Password



Figure 5.4.1: The RT-600 features a power-on password for enhanced security.

Video 5.4.2: How to activate the flashlight and emergency alert functions on the Radtel RT-600.

5.5. Switching to AB Main Band

- Press the **A/B** button to switch between the A and B main bands for operation.

Video 5.5.1: Instructions on how to switch to the A/B main band on the Radtel RT-600.

5.6. Voice Operated Transmit (VOX)

VOX allows for hands-free transmission by detecting your voice. To enable or disable VOX, navigate through the radio's menu settings. Refer to the on-screen menu for specific steps.

5.7. NOAA Emergency Weather Receiver

The RT-600 can receive NOAA emergency weather alerts, providing critical information during severe weather conditions.



Figure 5.7.1: The RT-600 features NOAA US Weather Alert capabilities.

5.8. DTMF, Frog Sound Tail Signal, and FM Radio

The radio supports DTMF (Dual-Tone Multi-Frequency) signaling, a unique 'Frog Sound Tail Signal' for communication confirmation, and a built-in FM radio for entertainment.



Figure 5.8.1: Key features of the RT-600 including DTMF, Frog Sound Tail Signal, and FM Radio.

5.9. Air Band Reception

The RT-600 is capable of receiving air band frequencies (108-136MHz AM), allowing users to monitor aviation communications.



Figure 5.9.1: The RT-600's capability to receive air band frequencies.

5.10. Programming with CHIRP

The Radtel RT-600 supports programming via CHIRP software, which allows for advanced customization of channels and settings. A separate programming cable is required. Ensure you use the latest version of CHIRP for compatibility.

Video 5.10.1: An overview of the Radtel RT-600 radio and its features.

6. SPECIFICATIONS

Feature	Specification
Model Number	RT-600
Frequency Range (TX/RX)	144-148MHz / 420-450MHz
Frequency Range (RX Only)	50-600MHz (including 108-136MHz Air Band AM)
Number of Channels	200
Battery Type	Li-ion (2200mAh included)

Voltage	7.4 Volts
Tuner Technology	AM/FM
Maximum Talking Range	5 Kilometers (approx. 3.1 miles)
Product Dimensions	1.48 x 2.36 x 1.48 inches
Item Weight	1.01 pounds
Water Resistance Level	Not Water Resistant

7. MAINTENANCE

- Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or abrasive cleaners.
- Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Store the radio and battery in a cool, dry place when not in use for extended periods.
- Antenna:** Ensure the antenna is securely attached. Avoid bending or stressing the antenna, as this can damage the connector.
- Storage:** Store the radio in a dry environment, away from extreme temperatures and direct sunlight.

8. TROUBLESHOOTING

Problem	Possible Solution
Radio does not power on.	Check battery charge level. Ensure battery is properly installed.
Cannot transmit or receive.	Verify frequency and CTCSS/DCS settings. Check antenna connection. Ensure you are within range of other radios.
Poor audio quality.	Adjust volume. Check for obstructions around the speaker/microphone. Ensure antenna is properly attached.
Frequency copy not working.	Ensure radios are within 1 meter. Verify the transmitting radio is active.

9. WARRANTY & SUPPORT

The Radtel RT-600 comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.

For technical support, warranty claims, or any inquiries regarding your Radtel RT-600 radio, please contact Radtel customer service through their official website or the retailer where you purchased the product.

Please have your purchase receipt and product serial number ready when contacting support.

For more information, visit the official Radtel website or refer to the contact details provided with your product packaging.

Related Documents -

	<p>Radtel RT-910/RT-910B Dual Band Two-Way Radio User Manual</p> <p>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.</p>
	<p>Radtel RT-860 Two-Way Radio User Manual and Specifications</p> <p>Comprehensive user manual for the Radtel RT-860 two-way radio, detailing its features, operation, keypad functions, LCD display, various settings (analog, channel, zone, radio, temporary message), and technical specifications. Includes precautions and troubleshooting information.</p>
	<p>Radtel RT-751 VHF UHF Walkie-Talkie User Manual</p> <p>Comprehensive user manual for the Radtel RT-751 VHF UHF Walkie-Talkie, covering installation, operation, features, technical specifications, and warranty information.</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>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>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>