

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Radtel](#) /

› [Radtel RT-880G GPS APRS Ham Radio Instruction Manual](#)

Radtel RT-880G

Radtel RT-880G GPS APRS Ham Radio Instruction Manual

Model: RT-880G

INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your Radtel RT-880G GPS APRS Ham Radio. Please read this manual thoroughly before operating the device to ensure optimal performance and safety.

The Radtel RT-880G is a versatile portable two-way radio featuring GPS positioning, APRS communication, cross-band repeater functionality, and wide-band reception capabilities. It is designed for amateur radio enthusiasts and professionals requiring reliable communication and location tracking.

PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1x RT-880G Main unit
- 2x 2400mAh Li-ion Battery
- 1x Dual band antenna
- 1x Belt Clip
- 1x Type C charging Cable
- 1x Power supply with USB port
- 1x English User Manual (this document)



Image: Contents of the Radtel RT-880G package, including the radio unit, two batteries, a USB-C charging cable, and a dual-band antenna.

SETUP

1. Battery Installation and Charging

1. **Install the Battery:** Align the 2400mAh Li-ion battery with the battery compartment on the back of the

RT-880G unit. Slide the battery into place until it clicks securely.

2. Charge the Battery:

- Connect the Type-C charging cable to the USB-C port on the side of the radio.
- Connect the other end of the cable to the provided power supply with a USB port, or any compatible USB power source.
- The charging indicator on the radio will illuminate. Charging is complete when the indicator changes color or turns off (refer to the display for battery status).



Image: The Radtel RT-880G radio connected to a USB-C charging cable, demonstrating the fast charging option.

2. Antenna Attachment

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

3. Attaching the Belt Clip

Align the belt clip with the screw holes on the back of the radio (above the battery compartment). Secure it with the provided screws.

OPERATING INSTRUCTIONS

1. Power On/Off and Volume Control

- **Power On:** Rotate the top-left knob clockwise until you hear a click. The display will illuminate.
- **Power Off:** Rotate the top-left knob counter-clockwise until you hear a click and the display turns off.
- **Volume Adjustment:** Rotate the same top-left knob to adjust the audio volume after the radio is powered on.

2. Basic Communication

- **Channel/Frequency Selection:** Use the keypad or the top-right rotary encoder to select desired channels or frequencies. The 2.4-inch color display shows current channel alias, frequency, and VFO mode.
- **Transmit (PTT):** Press and hold the Push-To-Talk (PTT) button on the left side of the radio to transmit. Speak clearly into the microphone. Release the PTT button to receive.



Image: A close-up view of the Radel RT-880G's top and side, highlighting the PTT button, rotary knobs for power/volume and channel/frequency selection, and the antenna connection point.

3. GPS Positioning and APRS Communication

The RT-880G integrates GPS for accurate positioning and APRS for automatic position reporting and data

exchange.

- **GPS Positioning:**

- Access the GPS menu to view current coordinates, altitude, and satellite status.
- Use one-touch operation to measure distance and direction from a set starting point.
- Manual or timed track recording is available for navigation.

- **APRS Communication:**

- The radio supports real-time APRS data encoding and decoding.
- When GPS coordinates are included in APRS packets, the radio automatically calculates distance and direction to other APRS stations.
- Refer to the specific APRS settings in the menu for configuration (e.g., beacon interval, callsign, SSID).



Image: The Radtel RT-880G radio screen showing APRS and GPS functionalities, illustrating automatic position reporting and real-time positioning.

4. Cross-Band Repeater Function

The cross-band repeater function allows the RT-880G to relay signals between different frequency bands (e.g.,

UHF to VHF). This extends communication range and improves signal coverage.

- **Activation:** Navigate to the "Repeater" or "Cross-Band" setting in the radio's menu.
- **Configuration:** Select the desired input and output frequencies (e.g., UHF input, VHF output).
- **Operation:** Once activated, the radio will automatically receive on one band and re-transmit on the other.



Image: A visual representation of the cross-band repeater function, showing how the Radtel RT-880G can transfer signals between UHF and VHF frequencies.

5. Wide-Band Reception (AM/FM/SSB/Air-Band)

The RT-880G supports reception across a broad spectrum, including:

- AM (Amplitude Modulation)
- FM (Frequency Modulation)
- USB/LSB (Upper/Lower Sideband) for SSB (Single Sideband)
- CW (Continuous Wave)
- CB (Citizen Band)
- LW (Long Wave), MW (Medium Wave), SW (Short Wave)
- Air-Band RX (Aviation Band Reception)

To access these modes, navigate through the radio's menu to select the desired frequency band and modulation type. An external shortwave antenna can be connected for enhanced signal reception on relevant bands.

6. Customizing Side Keys and Keyboard Functions

The RT-880G allows users to customize the functions of its side keys and keyboard for quick access to frequently used features.

- **Access Customization Menu:** Go to the "Key Define" or "Shortcut Key" section in the radio's settings.
- **Assign Functions:** Select a side key (e.g., Side Key 1 S, Side Key 1 L, Side Key 2 S) and assign a function from the available options (e.g., NOAA channels, VOX, Type-C charger status, Spectrum scanning, Frequency auto capture).
- **Save Changes:** Confirm your selections to save the customized key assignments.



Customize Side Keys And Keyboard Functions (to your preferences.)

-  11 NOAA Channels
-  Receives aviation AM
-  Customize shortcut keys
-  VOX function
-  Type-C + Desk Charger
-  Spectrum scanning function

One key Copy Frequency (Frequency Auto Capture)



Image: The Radtel RT-880G screen displaying the "Key Define" menu, illustrating how users can customize side keys and keyboard functions for features like NOAA channels, VOX, and frequency scanning.

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or abrasive cleaners. Ensure the USB-C port cover is closed when not charging to prevent dust and moisture ingress.
- **Battery Care:**
 - Avoid fully discharging the Li-ion battery frequently.
 - Store the radio and spare batteries in a cool, dry place when not in use for extended periods.
 - If storing for a long time, charge the battery to approximately 50% capacity.
- **Antenna:** Regularly check the antenna connection for tightness. Avoid bending or stressing the antenna.
- **Environmental Protection:** The RT-880G is not water-resistant. Protect it from rain, splashes, and high humidity.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Battery is depleted or not properly installed.	Ensure battery is fully charged and correctly seated.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not connected, low battery, squelch too high.	Verify frequency/channel, check antenna connection, charge battery, adjust squelch level.
Poor audio quality.	Weak signal, incorrect squelch setting, antenna issue.	Move to an area with better signal, adjust squelch, check antenna.
GPS not acquiring signal.	Obstructed view of the sky, indoors.	Move to an open outdoor area with a clear view of the sky.

SPECIFICATIONS

Feature	Detail
Model Number	RT-880G
Brand	Radtel
Frequency Range	144-148MHz / 420-450MHz (VHF/UHF)
Special Features	GPS/APRS, AM FM SSB Reception, 1024 Channels, Cross Band Repeater
Number of Channels	1024
RF Power	10W
Battery Capacity	2400mAh Li-ion (7.4 Volts)
Display	2.4 Inch Color Display
Charging Port	USB-C

Feature	Detail
Dimensions (H x W x D)	12 x 2.36 x 1.26 inches
Item Weight	1.5 pounds
Water Resistance Level	Not Water Resistant

WARRANTY INFORMATION

The Radtel RT-880G comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or exposure to water/humidity.

Please retain your proof of purchase for warranty claims.

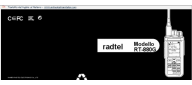


SUPPORT AND CONTACT



For technical support, warranty claims, or further inquiries, please contact Radtel customer service through their official channels. You can also visit the official Radtel store for more information and product updates:

[Visit the Radtel Store on Amazon](#)

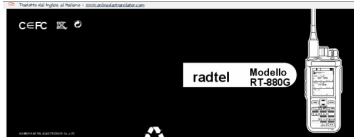
© 2025 Radtel. All rights reserved.

Related Documents - RT-880G

	<p>Radtel RT-880G GPS/APRS Two-Way Radio User Manual</p> <p>Comprehensive user manual for the Radtel RT-880G GPS/APRS two-way radio, covering features, operation, and specifications. Includes setup, basic and advanced functions, troubleshooting, and safety information.</p>
	<p>Radtel RT-880G Bedienungsanleitung Handbuch & Spezifikationen</p> <p>Entdecken Sie die Radtel RT-880G Bedienungsanleitung, die detaillierte Informationen zu Funktionen, Tastenbelegung und technischen Spezifikationen enthält. Dieses Handbuch bietet eine umfassende Anleitung für die Nutzung des RT-880G Funkgeräts.</p>
	<p>Radtel RT-880G User Manual: Comprehensive Guide to Operation and Features</p> <p>Explore the Radtel RT-880G user manual for detailed instructions on operation, settings, and features. Learn about basic and advanced functions, keypad operations, LCD display, charging, and troubleshooting for your Radtel RT-880G device.</p>
	<p>Manuel de l'utilisateur Radtel RT-880G</p> <p>Manuel d'utilisation complet pour la radio Radtel RT-880G, couvrant les fonctions de base, les opérations avancées, les spécifications techniques et les informations de sécurité.</p>

	<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-880G Manual del Usuario</p> <p>Manual del usuario para el radio bidireccional Radtel RT-880G, que cubre la familiarización con el dispositivo, operación básica y avanzada, solución de problemas y especificaciones técnicas.</p>

Documents - Radtel – RT-880G



[Radtel RT-880G GPS/APRS Two-Way Radio User Manual](#)

Comprehensive user manual for the Radtel RT-880G GPS/APRS two-way radio, covering features, operation, and specifications. Includes setup, basic and advanced functions, troubleshooting, and safety information.

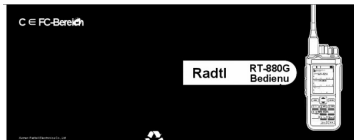
lang:it score:37 filesize: 636.15 K page_count: 72 document date: 2025-06-27



[Radtel RT-880G Manual del Usuario](#)

Manual del usuario para el radio bidireccional Radtel RT-880G, que cubre la familiarización con el dispositivo, operación básica y avanzada, solución de problemas y especificaciones técnicas.

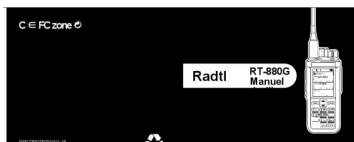
lang:es score:36 filesize: 653.08 K page_count: 71 document date: 2025-06-27



[Radtel RT-880G Bedienungsanleitung | Handbuch & Spezifikationen](#)

Entdecken Sie die Radtel RT-880G Bedienungsanleitung, die detaillierte Informationen zu Funktionen, Tastenbelegung und technischen Spezifikationen enthält. Dieses Handbuch bietet eine umfassende Anleitung für die Nutzung des RT-880G Funkgeräts.

lang:de score:33 filesize: 619.15 K page_count: 70 document date: 2025-06-27



[Manuel de l'utilisateur Radtel RT-880G](#)

Manuel d'utilisation complet pour la radio Radtel RT-880G, couvrant les fonctions de base, les opérations avancées, les spécifications techniques et les informations de sécurité.

lang:fr score:32 filesize: 629.94 K page_count: 71 document date: 2025-06-27

Indeo Electronics Co., Ltd.
 ADD: No.16 Daxiamei Industrial Area, Nanan, Quanzhou City China
 TEL: 86-595-86170000
 FAX: 86-595-86139999
 E-mail: hcm@indeo.com

DECLARATION OF SIMILARITY

Date: 2025-04-17

FEDERAL COMMUNICATIONS COMMISSION
 Authorization and Evaluation Division
 4701 Columbia Blvd, Room
 Columbia, MD 21046

Dear Sir or Madam:

We, Indeo Electronics Co., Ltd., hereby declare that the product: FM Mobile Radio, FCC ID: Y23UV-98PLUS model: UV-98, BAJETON BJ-98, BAJETON BJ-98 Pro, radtel RT-880, radtel RT-880G, CP-998, CP-998Plus are electrically identical with the model: UV-98PLUS which was tested by Bey-Aone Compliance Laboratories Corp. (CAE) with the same electromagnetic emissions and electromagnetic compatibility characteristics.

A description of the differences between these models and that we declared similar are as follows:

Tested Model	Similar Models	Differences	Details
UV-98PLUS	CP-998	Model Name, Appearance (screen and buttons)	1. They have different model names 2. CP-998 has Digital tube display and no buttons, while UV-98PLUS has screen and buttons Except for the differences mentioned above, everything else is the same
	CP-998Plus	Model Name, Appearance (screen and buttons)	These screen sizes are different, the number and distribution of buttons are different, the model names are different, but everything else is the same
	UV-98, BAJETON BJ-98, BAJETON BJ-98 Pro, radtel RT-880, radtel RT-880G	Model Name	They are the same product, but due to different components make change in different model names, everything else is the same

[\[pdf\] Declaration of Conformity](#)

Hafwen DoS Letter Iradio Electronics Co Ltd UV 98PLUS FM Mobile Radio Y23UV Y23UV98PLUS uv 98plus

Radio Electronics Co., Ltd. ADD: No.16 Daxiamei Industrial Area, Nan an, Quanzhou City, China TEL: ... Radio, FCC ID: Y23UV-98PLUS model: UV-98, BAJETON BJ-98, BAJETON BJ-98 Pro, radtel RT-880, radtel **RT-880G**, CP-998, CP-998Plus are electrically identical with the model: UV-98PLUS which was tested b...

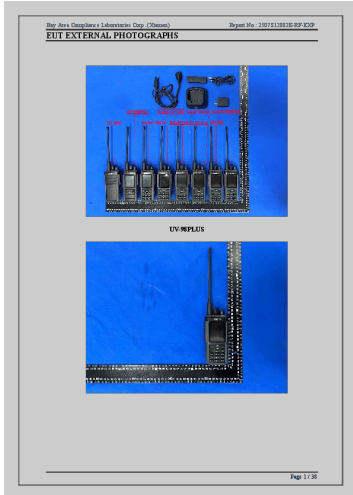
lang:en score:22 filesize: 116.79 K page_count: 2 document date: 2025-07-11



[Radtel RT-880G User Manual: Comprehensive Guide to Operation and Features](#)

Explore the Radtel RT-880G user manual for detailed instructions on operation, settings, and features. Learn about basic and advanced functions, keypad operations, LCD display, charging, and troubleshooting for your Radtel RT-880G device.

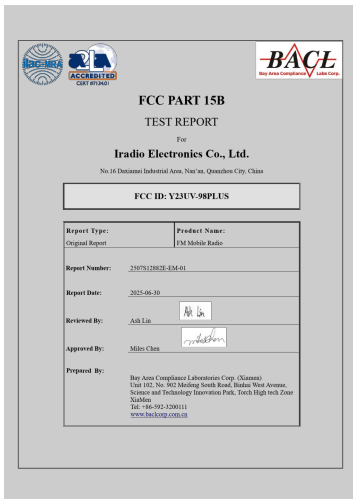
lang:en score:20 filesize: 7.21 M page_count: 39 document date: 2025-04-22



[EUT External Photographs - Report No. 2507S12882E-RF-EXP](#)

External photographs of various two-way radio models including UV-98PLUS, UV-98, CP-998Plus, CP-998, radtel RT-880, radtel RT-880G, BAJETON BJ-98, and BAJETON BJ-98 Pro. The document also features images of accessories such as a power adapter (Model: GA-0502000V), charging cradle, headset, and battery pack. This report is from Bay Area Compliance Laboratories Corp. (Xiamen) with report number 2507S12882E-RF-EXP.

lang:es score:19 filesize: 5.82 M page_count: 38 document date: 2025-07-25



[Iradio Electronics UV-98PLUS FM Mobile Radio FCC Part 15B Test Report](#)

Official FCC Part 15B test report for the Iradio Electronics UV-98PLUS FM Mobile Radio, detailing conducted and radiated emissions compliance. Tested by Bay Area Compliance Laboratories Corp.

lang:es score:12 filesize: 5.06 M page_count: 131 document date: 2025-07-23