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BAOFENG UV-5RM

BAOFENG UV-5RM 10W High Power Ham Radio Instruction Manual

Model: UV-5RM | Brand: BAOFENG

1. INTRODUCTION

Thank you for choosing the BAOFENG UV-5RM 10W High Power Ham Radio. This device is designed for reliable long-range communication, offering multi-band functionality, NOAA weather alerts, and convenient USB-C charging. This manual provides essential information for safe and effective use of your radio.

2. SAFETY INFORMATION

- **Read all instructions:** Before operating the radio, thoroughly read and understand all safety and operating instructions.
- **FCC Compliance:** This device complies with FCC regulations. Operation is subject to the condition that this device does not cause harmful interference.
- **Battery Safety:** Use only approved batteries and chargers. Do not short-circuit, incinerate, or disassemble the battery pack.
- **Antenna Care:** Do not touch the antenna when the radio is transmitting.
- **Explosive Environments:** Do not operate the radio in potentially explosive atmospheres unless it is certified for such use.
- **Water Resistance:** The radio features a water-resistant casing, but it is not fully waterproof. Avoid submerging the device.

3. PACKAGE CONTENTS

The BAOFENG UV-5RM package typically includes the following items:

- 2 x BAOFENG UV-5RM Ham Radio units
- 2 x 2500mAh Lithium-Ion Batteries
- 2 x Original Antennas (standard)
- 2 x Long Antennas (for extended range)
- 2 x USB-C Charging Cables
- 2 x Desktop Chargers

- 2 x Belt Clips
- 2 x Lanyards
- 2 x User Manuals

4. PRODUCT OVERVIEW

The BAOFENG UV-5RM is a robust 10W high-power ham radio designed for versatile communication. It features a 1.77-inch color screen, 999 channels, and supports multiple frequency bands including AM/FM/VHF/1.25M/UHF reception.

The advertisement features a dark blue background with a subtle grid pattern. At the top, the text "2500mAh" is displayed in large, bold letters, with "2500" in orange and "mAh" in white. Below this, two BAOFENG batteries are shown side-by-side. The battery on the left is the older model, with a label that reads "BAOFENG Li-ion Battery Model: BL-5 Capacity: 1800mAh Voltage: 7.4V" and includes safety warnings such as "DO NOT SHORT-CIRCUIT" and "DO NOT DISASSEMBLE". The battery on the right is the newer model, with a label that reads "Li-ion Battery MODEL: SRM DC7.4V 2500mAh/18.5Wh Charging Limit Voltage: 8.4V Implementation Standards: GB31241" and includes a "CAUTION" section with instructions like "Do not remove plastic covering from battery pack" and "Do not dispose of in fire". In the center, between the two batteries, is a circular graphic with the text "POWER UPGRADE" in large, bold, orange letters. At the bottom of the advertisement, the text "40% Larger than usual 1800mAh battery" is written in white.

Figure 4.1: Comparison of BAOFENG UV-5RM with UV-5R, highlighting the 1.77-inch color display and 10W power.

BAOFENG 5RM (upgraded from Baofeng UV-5R)

Multi-Band **10 Watt** Ham Radio Haneheld

- ✓ 1.77 in Color Screen
- ✓ 10 Watt Max Power
- ✓ 999 Channels
- ✓ 2500mAh Battery
- ✓ USB-C Charging
- ✓ Copy Frequency
- ✓ AM/FM/VHF/1.25M/UHF Reception
- ✓ Aviation Reception
- ✓ NOAA Weather Radio
- ✓ Odmaster/CHIRP/CPS Programming
- ✓ Built-in LED Flashlight
- ✓ StopWatch



Figure 4.2: Detailed view of the BAOFENG UV-5RM's display and key features, including 10W max power, 999 channels, and USB-C charging.



Figure 4.3: Close-up of the BAOFENG UV-5RM display showing high power settings (High, Middle, Low) for transmission.

5. SETUP

5.1. Battery Installation and Charging

The UV-5RM comes with a 2500mAh rechargeable battery. Ensure the battery is fully charged before first use.

1. To install the battery, align the battery pack with the grooves on the back of the radio and slide it upwards until it clicks into place.
2. To charge, connect the USB-C charging cable to the port on the battery pack or place the radio in the desktop charger.



Figure 5.1: The USB-C charging port located on the battery pack for convenient charging.



Figure 5.2: The 2500mAh battery, offering a significant power upgrade compared to standard batteries.



Figure 5.3: Examples of USB-C charging options, including car charger, power bank, wall adapter, and multi-port charger.

5.2. Antenna Attachment

Attach the desired antenna (standard or long) by screwing it clockwise onto the antenna connector at the top of the radio until it is finger-tight.



Figure 5.4: The BAOFENG UV-5RM with its antenna properly attached, ready for operation.

5.3. Power On/Off

To power on the radio, rotate the volume knob clockwise. To power off, rotate it counter-clockwise until it clicks.

6. OPERATING INSTRUCTIONS

6.1. Basic Operation

The UV-5RM features an intuitive interface with a large LCD screen and clearly labeled buttons.

- **Volume Knob:** Controls power on/off and audio volume.
- **VFO/MR Button:** Toggles between Frequency Mode (VFO) and Channel Mode (MR).
- **A/B Button:** Selects the upper (A) or lower (B) frequency display for dual-watch operation.
- **MENU Button:** Accesses the radio's menu settings.
- **EXIT Button:** Exits menu or cancels current operation.
- **Numeric Keypad:** Used for direct frequency input and menu navigation.
- **PTT Button:** Push-To-Talk button for transmitting.

Your browser does not support the video tag.

Video 6.1: This video demonstrates various features of the BAOFENG 5RM 10-watt multi-band ham radio, including its display, buttons, and general operation.

6.2. Frequency Mode (VFO) and Channel Mode (MR)

The radio can operate in two primary modes:

- **Frequency Mode (VFO):** Allows direct input of frequencies for immediate use. Ideal for scanning and finding new frequencies.
- **Channel Mode (MR):** Accesses pre-programmed memory channels. Useful for frequently used frequencies.

Press the **VFO/MR** button to switch between these modes.

6.3. Transmitting and Receiving

1. Ensure the radio is powered on and an antenna is attached.
2. Select the desired frequency or channel.
3. To transmit, press and hold the **PTT** button on the side of the radio. Speak clearly into the microphone.
4. Release the **PTT** button to stop transmitting and listen for a response.

6.4. Multi-Band Functionality

The UV-5RM supports 8 frequency bands, including UHF, VHF, and aviation frequencies, making it suitable for various applications.



Figure 6.2: The radio's display showing multi-band capabilities, including various RX/TX frequencies.



Figure 6.3: The BAOFENG UV-5RM supports Aviation Reception (108-136 MHz AM modulation, 8.33 KHz channel spacing).

6.5. NOAA Weather Radio

Stay informed about weather conditions with the built-in NOAA weather receiver, providing alerts for severe weather.



Figure 6.4: The radio displaying NOAA Weather Mode, indicating its capability to receive severe weather alerts.

6.6. Copy Frequency Function

The UV-5RM features a one-key frequency copy function, allowing you to easily scan and copy frequencies from other radios without a programming cable.



Figure 6.5: Demonstrating the one-key frequency copy function between two radios.



Figure 6.6: Visual representation of the High-Tech Copy Frequency feature, allowing easy frequency scanning.

6.7. 999 Channels

The radio supports up to 999 memory channels for storing your preferred frequencies.



Figure 6.7: The radio's display indicating its capacity for 999 channels.

6.8. Large 1.77-inch Color Screen

The 1.77-inch TFT large color screen provides clear visibility of frequencies, channels, and menu options.



Figure 6.8: Close-up of the 1.77-inch large color screen, enhancing user experience.

6.9. Odmaster/CHIRP/CPS Programming

The UV-5RM supports programming via Odmaster, CHIRP, or CPS software, allowing for advanced customization of channels and settings.



Figure 6.9: Odmaster Program APP logo, indicating support for mobile programming.

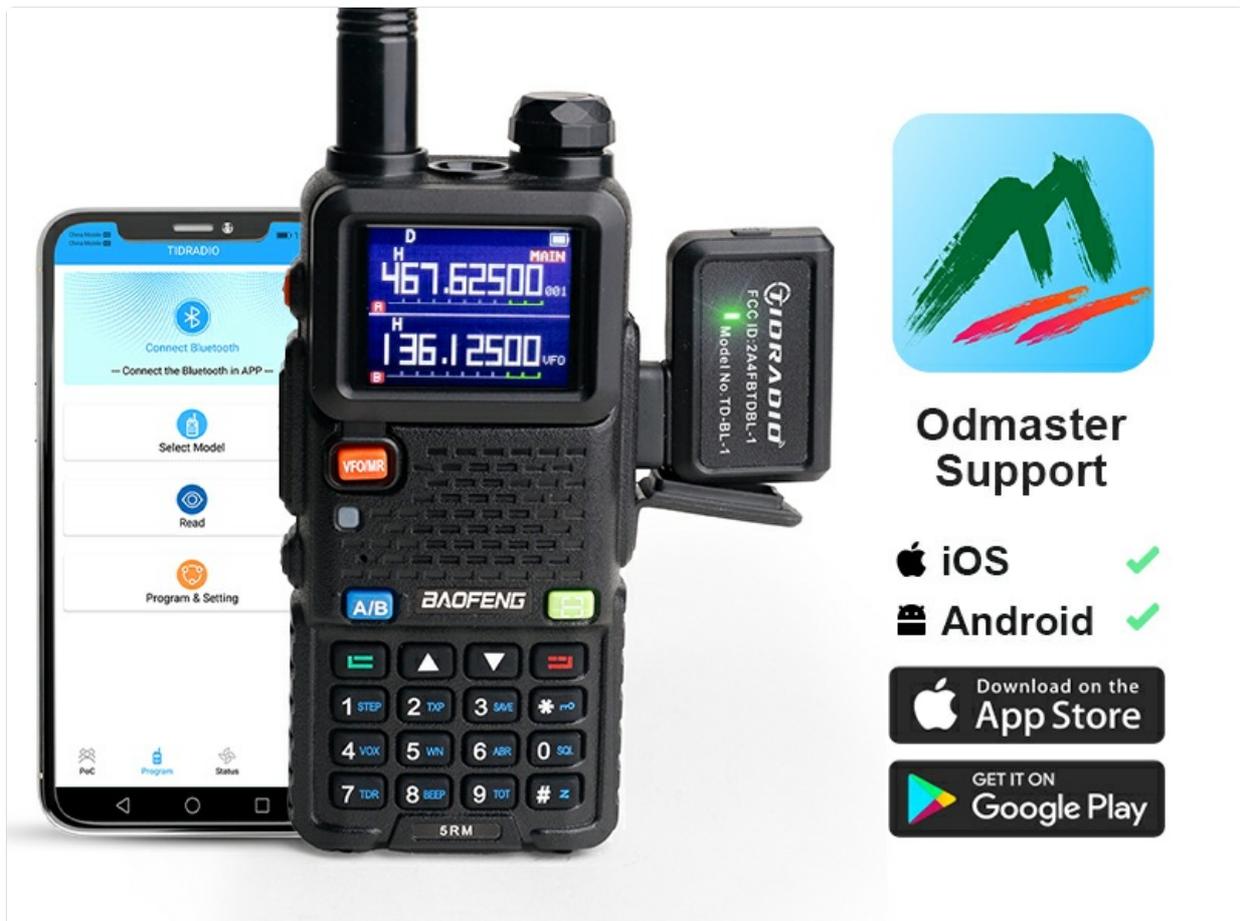


Figure 6.10: The BAOFENG UV-5RM connected to a TIDRADIO Bluetooth programmer, showing the mobile app interface for programming.

6.10. Rapid Scan

Utilize the rapid scan feature to quickly sweep through frequencies or channels to find active transmissions.



Figure 6.11: The radio displaying 'FREQUENCY SYNC RAPID SCAN', indicating its fast scanning capability.

6.11. Single Waiting

The single waiting feature allows the radio to monitor a single frequency or channel while in dual-watch mode.



Figure 6.12: The radio's display showing 'Single Waiting' mode, indicating it is monitoring a single frequency.

6.12. Built-in Stopwatch Timer

The radio includes a built-in stopwatch timer for various timing needs.



Figure 6.13: The radio displaying the stopwatch function, useful for timing activities.

7. MAINTENANCE

7.1. Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the USB-C port cover is securely closed to maintain water resistance.

7.2. 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.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on	Low or dead battery; improperly installed battery	Charge the battery; ensure battery is correctly installed.
Cannot transmit or receive	Incorrect frequency/channel; antenna not attached; low battery	Verify frequency/channel; attach antenna securely; charge battery.
Poor audio quality	Weak signal; incorrect squelch setting; antenna issue	Move closer to other radio; adjust squelch level; check antenna connection.
Display is blank or frozen	Software glitch; low battery	Remove and reinsert battery to reset; charge battery.

9. SPECIFICATIONS

Feature	Detail
Model Number	BAOFENG 5RM
Output Power	10W
Frequency Range	VHF, UHF (Multi-Band)
Number of Channels	999
Battery Capacity	2500mAh Lithium Ion
Charging Type	USB-C Fast Charging
Display	1.77" TFT Large Color Screen
Special Features	NOAA Weather Radio, DTMF, Copy Frequency, Built-in LED Flashlight, Stopwatch
Talking Range Maximum	10 Kilometers (approx. 6.2 miles)
Water Resistance Level	Water Resistant
Item Weight	2.44 pounds (for 2-pack)
Package Dimensions	8.7 x 7.91 x 4.09 inches

10. WARRANTY

The BAOFENG UV-5RM typically comes with a 30-day warranty from the date of purchase. Please refer to your purchase documentation for specific warranty terms and conditions. Keep your proof of purchase for any warranty claims.

11. SUPPORT

For technical support, troubleshooting assistance, or further inquiries, please visit the official BAOFENG website or contact your retailer. You may also find helpful resources and community forums online for

BAOFENG products.

Online Resources:

- BAOFENG Official Website: www.baofengradio.com
- TIDRADIO Store on Amazon: [Amazon Store](#)