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BAOFENG 5RM

BAOFENG UV-5RM Plus Two-Way Radio User Manual

Model: UV-5RM

1. Introduction

This user manual provides comprehensive instructions for the operation and maintenance of your BAOFENG UV-5RM Plus 10W Dual Band Ham Radio Handheld. The UV-5RM Plus is an upgraded version of the UV-5R, featuring an expanded receiving frequency range, enhanced battery capacity, and improved user functions. Please read this manual thoroughly before using the device to ensure proper and safe operation.

2. What's in the Box

Upon unboxing, please verify that all components listed below are present and in good condition:

- UV-5RM Plus Two-way Radio x 2
- Li-ion Battery (2500mAh) x 2
- Standard Antenna x 2
- RD-771 Long Antenna x 2
- Belt Clip x 2
- Wrist Strap x 2
- Headset x 2
- Type-C Charging Cable x 2
- Adapter x 2
- Programming Cable x 1



Image: Overview of the BAOFENG UV-5RM Plus package contents, showing two radios, two Li-ion batteries, two standard antennas, two long RD-771 antennas, two belt clips, two wrist straps, two headsets, two Type-C charging cables, two adapters, and one programming cable.

3. Features

- **Upgraded Performance:** Enhanced version of the UV-5R with expanded receiving frequency range (including aviation and police bands), a 2500mAh battery with USB-C charging, one-key frequency copy, and DTMF manual dial. Features a larger 1.77-inch color display and includes both 8.3-inch and 15.5-inch high-gain antennas for improved reception.
- **10W Powerful Output:** Delivers strong and reliable connectivity with 10W high power. Offers three selectable power modes (high/medium/low) to optimize transmission for various conditions.
- **Wide Frequency Coverage:**
  - Receiving Frequencies: FM 76-108 MHz, AM 108-136MHz (Airband), VHF 136-174MHz & 220-260MHz, UHF 350-390MHz & 400-520MHz.

- NOAA Weather Bands: Includes 10 NOAA Weather Bands for alerts.
- Transmitting Frequencies: 144-148MHz & 420-450MHz.



Image: Visual representation of the multi-band reception capabilities of the UV-5RM Plus, highlighting AM (108-136MHz), FM (76-108MHz), VHF (136-174MHz & 220-260MHz), and UHF (350-390MHz & 400-520MHz) receiving frequencies, along with 144-148MHz and 420-450MHz for transmission.

- **Channel Clone Function:** Utilizes a frequency scan and copy key for quick cloning of channels from another radio, streamlining communication setup.



Image: Illustration of the one-key frequency copy feature, showing one radio's frequency being copied to another with a single button press.

- **Feature-Rich Design:** Includes 999 programmable channels, 104 CDCSS, and 50 CTCSS options for extensive customization. VOX and squelch levels are adjustable, and DTMF setup is simplified. Powered by a durable 2500mAh battery.
- **USB-C Charging:** The 2500mAh battery can be conveniently charged via USB-C, allowing for flexible charging options from various power sources.



Image: Depiction of the versatile Type-C charging capability, showing the radio being charged from a wall outlet, power bank, car charger, and laptop.

- **Enhanced Display:** Features a larger 1.77-inch color display for improved visibility and user experience compared to previous models.



Image: A side-by-side comparison illustrating the enhanced 1.77-inch color screen of the UV-5RM Plus versus the smaller display of the UV-5R.

- **NOAA Weather Alert:** Capable of receiving 10 NOAA Weather Bands to provide timely weather alerts.



Image: The radio's display with "NOAA WEATHER ALERT" text overlaid, indicating its capability to receive weather warnings.

4. Setup

4.1 Battery Installation and Charging

1. Align the 2500mAh Li-ion battery with the battery compartment on the back of the radio.
2. Slide the battery upwards until it clicks securely into place.
3. To charge, connect the provided Type-C charging cable to the radio's USB-C port and then to an adapter, power bank, car charger, or computer USB port.
4. The charging indicator on the radio will show charging status. Ensure the battery is fully charged before first use.



Image: A visual comparison highlighting the 40% larger battery capacity of the UV-5RM Plus (2500mAh) compared to the UV-5R (1800mAh).

4.2 Antenna Attachment

1. Select either the standard antenna or the RD-771 long antenna based on your reception needs. The long antenna provides improved reception.
2. Screw the chosen antenna clockwise onto the antenna connector at the top of the radio until it is finger-tight. Do not overtighten.



Image: A visual comparison of the standard 8.3-inch antenna and the longer 15.1-inch RD-771 antenna, illustrating their sizes and the benefits of the longer antenna for signal strength and distance.

4.3 Programming (Optional)

While the radio can be operated manually, advanced programming of channels and settings can be done using the included programming cable and compatible software (e.g., CHIRP). Refer to the software's documentation for detailed programming instructions.

5. Operating Instructions

5.1 Power On/Off and Volume

- To power on, rotate the volume knob clockwise.
- To power off, rotate the volume knob counter-clockwise until it clicks.
- Adjust the volume by rotating the same knob.

5.2 Frequency and Channel Mode

- Press the **VFO/MR** button to switch between Frequency (VFO) mode and Channel (MR) mode.
- In VFO mode, you can manually input frequencies using the keypad.
- In MR mode, you can select pre-programmed channels using the Up/Down arrow keys or the keypad.

5.3 Transmitting and Receiving

- To transmit, press and hold the **PTT (Push-To-Talk)** button on the side of the radio. Speak clearly into the microphone.
- Release the PTT button to receive.

5.4 One-Key Frequency Copy

This feature allows for quick cloning of a frequency from another radio:

1. Ensure both radios are powered on and within range.
2. On the receiving UV-5RM Plus, activate the frequency copy function (refer to the radio's menu for exact steps, often labeled "FREQ COPY" or similar).
3. On the transmitting radio, transmit a signal on the desired frequency.
4. The UV-5RM Plus will scan and copy the frequency, simplifying setup.

5.5 DTMF Manual Dial

The DTMF manual dial function allows for sending DTMF tones directly from the keypad. This is useful for accessing repeaters or other systems requiring DTMF codes. Consult your repeater's documentation for specific codes.



Image: A hand demonstrating the DTMF manual dial feature on the radio, allowing direct input of tones via the keypad.

5.6 NOAA Weather Bands

To access NOAA Weather Bands, navigate to the weather band reception mode (consult the radio's menu or specific button functions). The radio can receive 10 NOAA Weather Bands to provide alerts for severe weather conditions.

5.7 VOX Function

The Voice Operated Exchange (VOX) function allows for hands-free transmission. When VOX is enabled, the radio will automatically transmit when it detects your voice. Adjust the VOX sensitivity level in the menu to prevent accidental transmissions or missed voice activations.

5.8 Squelch Level

Squelch suppresses background noise when no signal is being received. Adjust the squelch level in the menu. A higher squelch level requires a stronger signal to open the receiver, reducing static. A lower squelch level will open the receiver more easily, allowing weaker signals but also more noise.

6. 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 Care:** Ensure the antenna is securely attached but not overtightened. Avoid bending or stressing the antenna excessively.
- **Storage:** When storing the radio for a long time, remove the battery.

7. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Battery is not installed correctly or is discharged.	Ensure battery is securely attached. Charge the battery fully.
Cannot transmit.	Incorrect frequency/channel, low power setting, or PTT button issue.	Verify frequency/channel. Check power setting (High/Medium/Low). Ensure PTT button is fully pressed. Confirm you are on a transmit-enabled frequency.
Poor reception or static.	Antenna not attached, weak signal, or squelch level too high.	Ensure antenna is properly attached. Move to an area with better signal. Adjust squelch level lower. Consider using the long antenna.

Problem	Possible Cause	Solution
Battery drains quickly.	High power usage, frequent transmission, or aging battery.	Use lower power settings when possible. Reduce transmission time. Battery may need replacement over time.

8. Specifications

Feature	Detail
Model Number	UV-5RM Plus
Brand	BAOFENG
Item Weight	2.42 pounds (approx. 1.1 kg for 2 radios and accessories)
Package Dimensions	8.7 x 8.03 x 4.09 inches
Battery Type	2500mAh Li-ion (7.4V)
Number of Channels	999
Frequency Range (RX)	FM 76-108 MHz, AM 108-136MHz (Airband), VHF 136-174MHz & 220-260MHz, UHF 350-390MHz & 400-520MHz, 10 NOAA Weather Bands
Frequency Range (TX)	144-148MHz & 420-450MHz
Power Output	10W (High/Medium/Low selectable)
Display	1.77-inch Color Display
Charging Port	USB-C
Water Resistance Level	Not Water Resistant
FCC ID	2AJGM-5RM

9. Warranty and Support

The BAOFENG UV-5RM Plus comes with a 1.5-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 natural disasters.

For technical support, warranty claims, or further assistance, please contact BAOFENG customer service through their official website or the retailer from whom you purchased the product. Please have your product model number and purchase date available when contacting support.

For more information and resources, visit the official BAOFENG store:BAOFENG Store on Amazon.

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