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BAOFENG UV-5RM

BAOFENG UV-5RM Two Way Radio Instruction Manual

Model: UV-5RM | Brand: BAOFENG

INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of your BAOFENG UV-5RM Two Way Radio. The UV-5RM is a versatile multi-band radio designed for reliable communication across various environments, featuring USB-C charging, a 1.77-inch LCD screen, and extensive channel capacity. Please read this manual thoroughly before using your device to ensure proper function and safety.

WHAT'S IN THE BOX

Upon unpacking, please verify that all items listed below are present:

- BAOFENG UV-5RM Radio Unit
- Antenna
- Battery
- USB-C Cable (Gift)
- Charger
- Instruction Manual
- Strap
- Belt Clip
- Speaker Microphone
- 18.89-inch Foldable Tactical Antenna

PRODUCT OVERVIEW

Components Diagram

Familiarize yourself with the various parts of your UV-5RM radio:



Figure 1: Front view of the BAOFENG UV-5RM radio with labeled components including Antenna, Flashlight, Power/Volume knob, FM button, PTT Button, 1.77" LCD, 2-pin Jack, Mic, Scan button, Menu button, Keypad, and USB-C Port.

Key Features

- **Multi-Band Operation:** Supports FRS, GMRS, VHF, UHF, AM/FM, and air band reception.
- **Long Range Communication:** Effective communication range of 3-5 miles.
- **USB-C Charging:** Convenient charging via Type-C port on the battery.
- **1.77-inch LCD Screen:** Clear and large display for easy readability.
- **999 Memory Channels:** Extensive capacity for storing frequencies.
- **NOAA Weather Alert:** Stay informed with weather alerts.
- **VOX Function:** Hands-free voice-activated transmission.
- **FM Radio:** Listen to local FM broadcasts.
- **LED Flashlight:** Integrated for convenience in low-light conditions.
- **Privacy Features:** Includes frequency hopping and scramble functions.

- **Programmable:** Easily programmable with CHIRP software and a programming cable (sold separately).

SETUP

1. Battery Installation and Charging

1. **Install Battery:** Align the battery pack with the grooves on the back of the radio and slide it upwards until it clicks into place. To remove, press the release latch and slide the battery downwards.
2. **Charge Battery:** Connect the provided USB-C cable to the charging port on the back of the battery. Connect the other end to a USB power source (e.g., car charger, power bank, laptop, or wall adapter). The charging indicator on the radio or battery will show charging status. A full charge typically takes several hours.



Figure 2: The BAOFENG UV-5RM radio connected to a USB-C charging cable, illustrating its compatibility with various power sources like laptops, car chargers, and power banks.

2. Antenna Attachment

Screw the antenna clockwise into the connector on the top of the radio until it is finger-tight. Do not overtighten.

3. Speaker Microphone Attachment

Insert the 2-pin plug of the speaker microphone into the 2-pin jack on the side of the radio. Ensure it is securely connected.

OPERATING INSTRUCTIONS

1. Power On/Off and Volume Control

- **Power On:** Rotate the Power/Volume knob clockwise until you hear a click. The LCD screen will illuminate.
- **Adjust Volume:** Continue rotating the Power/Volume knob to adjust the audio level.
- **Power Off:** Rotate the Power/Volume knob counter-clockwise until you hear a click.

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

- Press the **VFO/MR** button to switch between Frequency Mode (VFO) for direct frequency input and Channel Mode (MR) for selecting pre-programmed channels.

3. One-Key Frequency Matching

This feature allows for quick frequency synchronization with another radio:

1. **Step 1: Initiate Search.** Turn on your radio. Press and hold the **VFO/MR** button until the screen displays "SEARCH".
2. **Step 2: Transmit from Other Radio.** Press and hold the transmit (PTT) button on the other radio you wish to match. Your UV-5RM will search for and display its frequency and decode information.
3. **Step 3: Confirm and Communicate.** Once the search is complete and the frequency is displayed, press the **VFO/MR** button again to confirm. The radio will switch to channel mode, displaying the frequency of the counterpart. You can now communicate.



Figure 3: Visual guide for the one-key frequency matching process, showing the radio display during search, reception, and channel confirmation.

4. Transmitting and Receiving

- **To Transmit:** Press and hold the PTT (Push-To-Talk) button on the side of the radio or speaker microphone. Speak clearly into the microphone. Release the PTT button to stop transmitting.
- **To Receive:** Ensure the PTT button is not pressed. The radio will automatically receive signals on the selected frequency/channel.

5. VOX Function (Voice Operated Exchange)

The VOX function allows for hands-free transmission. When enabled, the radio will automatically transmit when it detects your voice.

- To enable/disable VOX, navigate through the radio's menu settings. Refer to the full menu guide for specific steps.
- Adjust the VOX sensitivity level to prevent accidental transmissions or missed voice activations.

6. FM Radio Function

Your UV-5RM can also function as an FM broadcast receiver.

- Press the **FM** button (refer to Figure 1) to enter FM radio mode.
- Use the keypad to manually enter an FM frequency or use the scan function to find stations.
- Press the **FM** button again to exit FM radio mode.

SPECIFICATIONS

Feature	Detail
Brand	BAOFENG
Model Number	UV-5RM
Number of Channels	999
Frequency Range	VHF/UHF 144-148 MHz / 420-450 MHz
Talking Range Maximum	6 Miles (approx. 3-5 miles effective range in typical conditions)
Special Features	1.77-inch LCD Screen, High Power, Multi-Band, NOAA, USB-C Charging
Voltage	7.4 Volts (DC)
Water Resistance Level	Not Water Resistant
Battery Type	1 Lithium Ion battery (included)
Battery Average Life	48 Hours (standby/light use)
Compatible Devices	FRS, GMRS, VHF, UHF, AM/FM, Air Band, Speaker Microphone, 18.89in Foldable Tactical Antenna
Tuner Type	UHF/VHF

TROUBLESHOOTING

If you encounter issues with your BAOFENG UV-5RM, refer to the following common problems and solutions:

- **No Power:**
 - Ensure the battery is correctly installed and fully charged.
 - Check that the Power/Volume knob is rotated clockwise past the click.
- **Cannot Transmit or Receive:**
 - Verify the antenna is securely attached.
 - Confirm you are on the correct frequency or channel.
 - Check if the battery level is sufficient.
 - Ensure the PTT button is fully pressed when transmitting and released when receiving.
 - Adjust the squelch level (SQL setting in the menu). A high squelch level can block weak signals.

- **Poor Audio Quality:**

- Check the antenna connection.
- Ensure the speaker microphone is properly connected.
- Adjust the volume level.
- Move to an area with fewer obstructions or interference.

- **Radio Not Charging:**

- Verify the USB-C cable is securely connected to both the battery and the power source.
- Try a different USB-C cable or power source.
- Ensure the power source provides sufficient power (e.g., a standard USB charger).

MAINTENANCE

Proper maintenance will extend the life and performance of your radio:

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or solvents.
- **Storage:** Store the radio in a cool, dry place away from direct sunlight and extreme temperatures. Remove the battery if storing for extended periods.
- **Battery Care:** Avoid fully discharging the battery frequently. Recharge the battery regularly, even if not in use, to maintain its health.
- **Antenna Care:** Handle the antenna carefully. Avoid bending or twisting it excessively, as this can damage the connector.
- **Water Exposure:** This radio is not water-resistant. Avoid exposure to rain, splashes, or immersion in water.

WARRANTY AND SUPPORT

Your BAOFENG UV-5RM radio comes with a warranty and support options:

- **Warranty:** A 1-year warranty is provided exclusively through "Shiqun Electronics Co., Ltd". Please retain your proof of purchase for warranty claims.
- **Customer Support:** For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the seller, Shiqun Electronics Co., Ltd., directly through your purchase platform or their official contact channels.