**BAOFENG M-5R**

# BAOFENG UV-5R M-5R 8W Ham Radio Handheld Transceiver Instruction Manual

Model: M-5R

## 1. Introduction

This manual provides detailed instructions for the proper operation and maintenance of your BAOFENG UV-5R M-5R 8W Ham Radio Handheld Transceiver. Please read this manual thoroughly before using the device to ensure safe and efficient operation. The BAOFENG M-5R is an upgraded version of the UV-5R, featuring multi-band reception and transmission capabilities, a high-capacity battery, and a USB-C charging option.

## 2. Safety Information

Observe the following safety precautions to prevent injury or damage to the device:

- Do not operate the radio in explosive atmospheres (e.g., flammable gases, dust particles, metallic powders).
- Do not transmit without an antenna attached.
- Use only BAOFENG approved batteries and chargers. Unauthorized accessories may cause damage or fire.
- Do not disassemble or modify the radio. Repairs should only be performed by qualified technicians.
- Keep the radio away from water and moisture. This device is not water-resistant.
- Avoid prolonged exposure to direct sunlight or extreme temperatures.
- Maintain a safe distance from medical devices such as pacemakers when transmitting.

## 3. Package Contents

Verify that all items are present in your package:

- 2 x BAOFENG M-5R Radio Units
- 2 x 3800mAh Nonstandard Batteries
- 2 x Base Chargers
- 4 x Antennas (Standard and Tactical)
- 2 x Earpieces
- 2 x Belt Clips

- 2 x Hand Straps
- 1 x User Manual




Image 3.1: Contents of the BAOFENG M-5R package, including two radio units, batteries, chargers, and various antennas.

## 4. Product Overview

Familiarize yourself with the main components and controls of your BAOFENG M-5R radio.




Image 4.1: Detailed view of the BAOFENG M-5R radio, highlighting key features such as the Alarm button, PTT button, Flashlight, A/B Key, VFO/MR button, SPK/MIC Jack, and BAND Key.

- **Antenna:** For transmitting and receiving signals.
- **Power/Volume Knob:** Turns the radio on/off and adjusts volume.
- **LCD Display:** Shows frequency, channel, and status icons.
- **Keypad:** For frequency input, menu navigation, and function activation.
- **PTT (Push-to-Talk) Button:** Press to transmit, release to receive.
- **VFO/MR Button:** Switches between Frequency Mode (VFO) and Channel Mode (MR).
- **BAND Key:** Switches between frequency bands.
- **A/B Key:** Switches between upper and lower display frequencies.
- **Flashlight Button:** Activates the built-in LED flashlight.
- **Alarm Button:** Activates the emergency alarm function.
- **SPK/MIC Jack:** Connects external speaker/microphone or earpiece.
- **Battery Pack:** Provides power to the radio.

# 5. Setup

## 5.1. Battery Installation and Charging

1. Align the battery pack with the grooves on the back of the radio.
2. Slide the battery upwards until it clicks into place.
3. To charge, place the radio (with battery installed) into the charging base.
4. Connect the charging base to a power source using the provided adapter.
5. The indicator light on the charger will be red during charging and turn green when fully charged.

The BAOFENG M-5R features a 3800mAh high-capacity battery for extended operation. Multiple charging methods are supported, including USB wall adapter, vehicle charging, PC charging, and power bank charging via the USB-C port on the radio or the charging base.




Image 5.1: Visual comparison highlighting the larger 3800mAh battery capacity for extended use.




Image 5.2: Illustration of various charging options, including USB wall adapter, vehicle charging, PC charging, and power bank charging.

### 5.2. Antenna Attachment

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

### 5.3. Earpiece Connection

Insert the earpiece plug into the SPK/MIC jack on the side of the radio. Ensure it is fully inserted for proper audio and microphone function.

## 6. Operating Instructions

### 6.1. Power On/Off and Volume Control

Rotate the Power/Volume knob clockwise to turn the radio on. Continue rotating clockwise to increase volume, and counter-clockwise to decrease volume. Rotate counter-clockwise until a click is heard to turn the radio off.

### 6.2. Mode Selection (VFO/MR)

Press the **VFO/MR** button to switch between:

- **Frequency Mode (VFO):** Allows direct frequency input and scanning.
- **Channel Mode (MR):** Allows selection of pre-programmed channels.

## 6.3. Frequency Input and Selection

- In VFO mode, use the keypad to directly enter the desired frequency.
- Use the up/down arrow keys to adjust the frequency in steps.
- In MR mode, use the up/down arrow keys to scroll through programmed channels.

## 6.4. One-Key Frequency Copy

The M-5R supports a quick one-key frequency copy function, eliminating the need for complex programming for basic use.

1. Turn on the radio and long-press the **BAND** key.
2. When "SEARCH" appears on the screen, press the**#** key to switch bands if needed.
3. Once the desired frequency is displayed, press the**MENU** button to save it as a channel.



Image 6.1: Step-by-step guide for using the Quick Copy Frequency function.

## 6.5. Transmitting (PTT)

To transmit, press and hold the **PTT** button on the side of the radio. Speak clearly into the microphone. Release the **PTT** button to stop transmitting and return to receive mode.

## 6.6. Multi-Band Operation

The M-5R supports multiple frequency bands for both receiving and transmitting. Use the **BAND** key to cycle through available bands. The radio can receive on 108-136MHz (AM), 136-174MHz, 220-260MHz, 350-390MHz, and 400-520MHz. Transmission is available on 144-148MHz and 420-450MHz.




Image 6.2: Display of the radio's receiving and transmitting frequency ranges.

## 6.7. Additional Features

- **Flashlight:** Press the dedicated flashlight button to activate the LED light.
- **Alarm:** Press the dedicated alarm button to activate the emergency alarm.
- **VOX (Voice Operated Transmit):** Enables hands-free transmission. Activate via the menu.
- **CTCSS/DCS Tones:** 50 CTCSS tones and 210 DCS codes are available for selective calling. Configure via

the menu.

- **CHIRP Programming:** The M-5R supports CHIRP programming for advanced customization. Search for the "5RX" model in CHIRP software.

## 7. Maintenance

- Clean the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or solvents.
- Ensure the antenna and battery contacts are clean and free of debris.
- Store the radio in a dry, cool place when not in use.
- Charge the battery regularly, even if the radio is not in frequent use, to maintain battery health.

## 8. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Radio does not power on | Battery is low or not installed correctly. | Charge the battery or re-install it securely. |
| Cannot transmit or receive | Incorrect frequency/channel, antenna not attached, low battery, or out of range. | Verify frequency/channel, attach antenna, charge battery, or move closer to other radios. |
| Poor audio quality | Volume too low/high, earpiece/microphone not fully inserted, or interference. | Adjust volume, re-seat earpiece, or move away from sources of interference. |
| Battery not charging | Charger not connected, faulty charger/battery, or improper placement in cradle. | Ensure charger is plugged in, check connections, try a different outlet, or contact support if issues persist. |

## 9. Specifications

- **Model:** M-5R
- **FCC ID:** 2AJGM-5RX
- **Number of Channels:** 128
- **Receiving Frequency Range:**
  - 108-136MHz (AM, manual input only)
  - 136-174MHz (VHF)
  - 220-260MHz
  - 350-390MHz
  - 400-520MHz (UHF)
- **Transmitting Frequency Range:**
  - 144-148MHz (VHF)
  - 420-450MHz (UHF)

- **Battery Capacity:** 3800mAh (Nonstandard Battery)
- **Special Features:** Emergency Alarm, Integrated Flashlight, Long Range, Multi Band, Rechargeable, One-Key Frequency Copy, USB-C Charging
- **Item Weight:** Approximately 2.51 pounds (for 2-pack)
- **Package Dimensions:** 10.2 x 8.43 x 2.8 inches
- **Water Resistance Level:** Not Water Resistant
- **UPC:** 755745261895

## 10. Warranty and Support

BAOFENG products typically come with a limited manufacturer's warranty. Please refer to the warranty card included with your product or visit the official BAOFENG website for specific warranty terms and conditions. For technical support or service inquiries, contact BAOFENG customer service through their official channels.

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