BAOFENG AR-5RM

BAOFENG AR-5RM 10W Ham Radio Instruction Manual

Model: AR-5RM

1. Product Overview

The BAOFENG AR-5RM is a professional 10W long-range handheld two-way radio designed for reliable communication. It features a durable casing, a large 1.77-inch color display, and multiple advanced functions including NOAA weather reception, wireless frequency copy, and Type-C charging. This radio is suitable for various applications requiring robust and clear communication over extended distances.



Image: The BAOFENG AR-5RM radio shown with its antenna, battery, base charger, Type-C cable, earpiece, and belt clip.

2. What's in the Box

- 1 x BAOFENG AR-5RM Radio
- 1 x 2500mAh Lithium Ion Battery
- 1 x Type-C Cable
- 1 x Base Charger
- 1 x Earpiece
- 1 x Belt Clip
- 1 x Antenna (21CM High Gain)

3. Setup Guide

3.1. Battery Installation

1. Align the battery with the grooves on the back of the radio.
2. Slide the battery upwards until it clicks securely into place.

3.2. Antenna Attachment

1. Screw the 21CM high gain antenna clockwise onto the connector at the top of the radio until it is finger-tight. Do not overtighten.

3.3. Charging the Battery

The AR-5RM offers two convenient charging methods:

- **Using the Base Charger:** Place the radio with the battery installed into the charging cradle. Ensure the charging contacts align. The indicator light on the charger will show charging status.
- **Using the Type-C Port:** Connect the provided Type-C cable to the Type-C charging port located on the back of the battery. You can connect it to a car charger, power bank, laptop, or any USB interface device.



Image: The BAOFENG AR-5RM demonstrating both Type-C direct charging and traditional base charger methods.

3.4. Initial Power On

1. Rotate the Power/Volume knob (8) clockwise to turn on the radio.
2. Adjust the knob to your desired volume level.

4. Operating Instructions

4.1. Channel and Frequency Selection

The radio supports 999 channels. You can switch between VFO (Variable Frequency Oscillator) mode for direct frequency input and MR (Memory Recall) mode for stored channels.

- Press the **VFO/MR** button to toggle between VFO and MR modes.

- In VFO mode, use the keypad to enter frequencies directly.
- In MR mode, use the **UP/DOWN** arrow keys to navigate through stored channels.

4.2. Wireless Frequency Copy

This feature allows you to quickly copy the frequency of another walkie-talkie without computer programming.

1. Ensure the AR-5RM is in VFO mode.
2. Press and hold the **MENU** key (7) until "SEARCH" appears on the display. The radio will act as a receiver.
3. Press and hold the PTT button on the other walkie-talkie for transmission. The AR-5RM will display the receiving frequency and any CTCSS/DCS values.
4. Press the **SAVE** key (3) to save the found frequency and CTCSS/DCS to a channel.



Image: The BAOFENG AR-5RM display showing the frequency search function for wireless frequency copy.

4.3. VOX (Voice Operated Transmit) Function

VOX allows for hands-free operation, transmitting automatically when it detects your voice.

- Press the **VOX** key (5) to activate or deactivate the VOX function.
- Adjust VOX sensitivity in the radio's menu if needed.

4.4. FM Radio Function

The AR-5RM can receive local FM radio broadcasts.

- Press the **SK1** key (2) to switch to FM radio mode.
- Use the **UP/DOWN** arrow keys to tune to desired FM stations.



Image: The BAOFENG AR-5RM displaying NOAA weather station information and indicating FM radio capability.

4.5. NOAA Weather Receiver

The radio can receive NOAA Weather Radio broadcasts to provide timely hazard weather information.

- To turn the NOAA Weather Scan on, press the**0[SQL]** key for 3 seconds. A weather icon will appear. The radio will scan all 10 NOAA weather channels.
- To stop the scan, press and hold the**#Z** key for 3 seconds.
- To exit the Weather Radio broadcast mode, press the**MENU** key or PTT key.

4.6. Programming with CHIRP Software

The BAOFENG AR-5RM is compatible with CHIRP software for advanced programming of channels and settings. This allows for efficient management of a large number of frequencies and customized configurations.

Video: A guide demonstrating the process of programming the BAOFENG AR-5RM radio using CHIRP software. This video shows how to connect the radio to a computer and use the software interface to manage frequencies and settings.



Image: The BAOFENG AR-5RM connected to a laptop via a programming cable, illustrating its compatibility with CHIRP software for channel management.

5. Key Features

- **10W Long Range Professional Communication:** The AR-5RM provides a communication distance of 3-5 miles, supported by a robust casing and anti-drop design for enhanced durability. It is FCC Certified with FCC ID: 2AJGM-5RM.
- **Type-C Rechargeable 2500mAh Battery:** The integrated Type-C charging port on the battery allows for convenient charging from various USB power sources, ensuring extended operation without interruption.
- **Wireless Frequency Copy:** This function enables direct frequency acquisition from other ham walkie-talkies, simplifying setup without the need for a computer.
- **High Gain Long Antenna (21CM):** The extended antenna enhances signal reception and transmission, contributing to increased communication range. It is flexible and portable.
- **VOX and FM Functionality:** VOX provides hands-free communication, while the FM radio function allows users to listen to local broadcasts for entertainment or information.
- **999 Channels with Private Call (CTCSS/DCS):** With 999 programmable channels and 50 CTCSS tones/210 DCS codes, the radio offers enhanced privacy and reduces interference during calls.
- **1.77-inch Color Large Screen Display:** Compared to traditional Baofeng models, the AR-5RM features a larger, clearer color screen for improved visibility of channel information and power status, especially in low-light conditions.



Image: Visual representation of the BAOFENG AR-5RM's key features, including copy frequency, multi-bands, 999 channels, flashlight, 2500mAh battery, VOX, CTCSS/DCS, Type-C charger, 1.77-inch large screen, and FM radio.

Video: An overview of the BAOFENG AR-5RM ham radio, highlighting its long-range capabilities and various features such as tri-power switching, wireless frequency copy, and the large color screen.

6. Specifications

Attribute	Value
Brand	BAOFENG
Model Number	AR-5RM
Item Weight	1.34 pounds

Package Dimensions	8.11 x 4.92 x 4.37 inches
Batteries	1 Lithium Ion batteries required (included)
Color	Black
Number of Channels	999
Special Features	Long Range, Copy Frequency, NOAA Weather Receiver
Frequency Range	VHF UHF
Talking Range Maximum	5 Mile
Tuner Technology	VHF UHF
Voltage	3.7 Volts (DC)
Water Resistance Level	Not Water Resistant

7. Troubleshooting

7.1. No Power

- Ensure the battery is properly installed and fully charged.
- Check the power/volume knob to ensure it is turned on and not at the minimum setting.

7.2. No Signal / Poor Reception

- Verify the antenna is securely attached.
- Check the selected frequency or channel. Ensure it is active and within range.
- Move to an open area away from obstructions like buildings or dense foliage.
- Adjust the squelch level (SQL) if receiving weak signals.

7.3. Audio Issues (No Sound / Distorted Sound)

- Adjust the volume knob.
- Ensure the earpiece (if used) is properly connected and functional.
- Check for any physical damage to the speaker or microphone.

7.4. Programming Errors

- Ensure the correct programming cable is used and properly connected to both the radio and the computer.
- Verify that the correct COM port is selected in the CHIRP software.
- Select the correct radio model (Baofeng UV-17PRO) in CHIRP for AR-5RM programming.
- Refer to the CHIRP software documentation for detailed programming instructions.

8. Warranty & Support

Please note that the product specifications indicate no explicit warranty. For any operational issues, technical assistance, or further inquiries, please contact the seller or manufacturer directly through their official support channels. Retain your purchase receipt for any potential support claims.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question