

## BAOFENG AR-5RM

# BAOFENG AR-5RM Ham Radio User Manual

Model: AR-5RM | Brand: BAOFENG

## 1. INTRODUCTION

Thank you for choosing the BAOFENG AR-5RM Ham Radio. This high-power, multi-band handheld radio is designed for reliable long-range communication, featuring a 10W output, NOAA weather reception, and 999 programmable channels. This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your device to ensure optimal performance and longevity.

## 2. SAFETY INFORMATION

Please read and understand all safety precautions before operating the radio. Failure to do so may result in injury or damage to the device.

- **FCC Compliance:** This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference. FCC ID: 2AJGM-5RM.
- **Antenna Safety:** Never touch the antenna during transmission. Do not operate the radio with a damaged antenna.
- **Battery Safety:** Use only approved BAOFENG batteries and chargers. Do not short-circuit, incinerate, or disassemble the battery pack.
- **Hearing Protection:** Prolonged exposure to loud audio from the radio may cause hearing damage. Adjust volume to a comfortable level.
- **Explosive Environments:** Do not operate the radio in explosive atmospheres or near flammable materials.

## 3. PACKAGE CONTENTS

Upon opening your BAOFENG AR-5RM package, please verify that all the following items are included:



Image: The complete package contents for the BAOFENG AR-5RM Ham Radio, showing two radios, two batteries, two Type-C chargers, two US base chargers, one programming cable, two speaker mics, two AR-771 antennas, two earpieces, two belt clips, two hand straps, and the user manual.

- 2 x BAOFENG AR-5RM Radios
- 2 x 2500mAh Rechargeable Li-ion Batteries
- 2 x Type-C Charging Cables
- 2 x US Base Chargers
- 1 x Programming Cable
- 2 x Speaker Microphones
- 2 x AR-771 High Gain Antennas
- 2 x Earpieces
- 2 x Belt Clips
- 2 x Hand Straps
- 1 x User Manual

#### 4. PRODUCT OVERVIEW

The BAOFENG AR-5RM features a robust design with a 1.77-inch color screen for clear display of

frequencies and settings. It supports multi-band operation, wireless frequency copy, and NOAA weather reception.



Image: Detailed diagram illustrating the components of the BAOFENG AR-5RM radio, including the antenna, power/volume knob, LED flashlight, color LCD, speaker and microphone, PTT key, VFO/MR mode key, A/B select key, menu key, navigation keys, battery release keys, 2-pin K port accessory jack, and Type-C charging port and indicator.

### Key Features:

- 1.77-inch Color Display
- 999 Storage Channels
- Multi-Band Reception and Transmission
- NOAA Weather Receiver
- One-Key Frequency Match (Wireless Copy)
- USB-C and Base Charging
- Built-in Flashlight and Stopwatch
- FM Radio Function



# BAOFENG

## Best Choice

 Multi-Band
  Wireless Copy Frequency
  NOAA Weather Receiver

## 999Channels

 AM Aviation Band

1.77" Color Large Screen
 

Type-C&Base Charger
 

Clear Sound
 

Flashlight
 

Stopwatch
 

FM Function
 

Image: A visual summary of the BAOFENG AR-5RM's main features, including multi-band capability, wireless frequency copy, NOAA weather receiver, 999 channels, AM aviation band support, 1.77-inch color screen, Type-C and base charging, clear sound, flashlight, stopwatch, and FM function.

## 5. SETUP

### 5.1 Battery Installation

1. Align the battery pack with the grooves on the back of the radio.
2. Slide the battery upwards until it clicks securely into place.
3. To remove, press the battery release keys and slide the battery downwards.

### 5.2 Antenna Attachment

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





Image: A visual comparison showing the standard antenna (21cm/8.27 inches) and the longer AR-771 high gain antenna (38cm/14.96 inches), indicating that the AR-771 can increase communication distance by up to 30%.

### 5.3 Charging the Battery

The AR-5RM offers multiple convenient charging methods:

- **USB-C Charging:** Connect the provided USB-C cable directly to the radio's Type-C port. This allows for flexible charging from power banks, PCs, car chargers, or wall adapters.
- **Base Charger:** Place the radio into the charging cradle. The indicator light on the base will show charging status. This method can improve charging efficiency.

# Multiple Charging Methods



Type-C Charging is more convenient, increasing the comfort of using the GM-5RH in the car and outdoors.

Base charging can improve charging efficiency by 20% and save time.

Image: Illustration of the various charging methods for the BAOFENG AR-5RM, showing direct USB-C charging from a car charger, power bank, or laptop, and traditional base charging with a wall adapter. The text highlights that Type-C charging is convenient for on-the-go use, while base charging improves efficiency.

Your browser does not support the video tag.

Video: An official product video demonstrating the BAOFENG 5RM 10W High Power Long Range Multi-Band Ham Radio, showcasing its features and capabilities.

## 6. BASIC OPERATION

### 6.1 Power On/Off and Volume

To power on the radio, rotate the Power/Volume knob clockwise. Continue rotating to increase the volume. To power off, rotate the knob counter-clockwise until it clicks.

### 6.2 Channel/Frequency Selection

Use the Up/Down navigation keys to change channels or frequencies. The 1.77-inch color display will show the current frequency or channel number. Press the VFO/MR button to switch between Frequency Mode (VFO) and Channel Mode (MR).

## 6.3 Push-to-Talk (PTT) Button

Press and hold the PTT button on the side of the radio to transmit. Release the button to receive.

Your browser does not support the video tag.

Video: An official product video demonstrating various menu settings and navigation on the BAOFENG 5RM radio, providing a visual guide for basic operation.

## 7. ADVANCED FEATURES

### 7.1 Frequency Copy (One-Key Frequency Match)

The AR-5RM allows for easy copying of frequencies from other walkie-talkies, simplifying the programming process. Refer to the radio's on-screen prompts or the detailed menu settings for this function.



Image: A close-up of the BAOFENG AR-5RM radio showing the 'One Key Frequency Match' feature in action, indicating its ability to search and copy frequencies.

### 7.2 NOAA Weather Receiver



Stay informed about weather conditions with the built-in NOAA weather receiver. The radio can scan and receive reports from 10 weather channels, providing timely alerts for severe weather.



Image: The BAOFENG AR-5RM radio with a visual representation of its NOAA Weather feature, showing weather icons like snowstorm, hurricane, tornado, and earthquake, emphasizing its utility for emergency preparedness.

### 7.3 Programming with CHIRP

The AR-5RM supports programming via CHIRP software, allowing for advanced customization of channels and settings using your PC. The included programming cable features a PL2303 chip for driver-free convenience on most systems.





# AR-5RM

**AM Aviation Receiver** ✓

**Copy Frequency** ✓

**NOAA Weather Receiver** ✓

The receiving frequency range:

108MHZ-136MHZ  
136MHZ-174MHZ  
350MHZ-390MHZ  
220MHZ-260MHZ  
400MHZ-520MHZ

the transmitting frequency range:

144MHZ-148MHZ  
420MHZ-450MHZ

**AM Aviation Receiver** ✗

**Copy Frequency** ✗

**NOAA Weather Receiver** ✗

**144-148MHz(RX/TX)**

**420-450MHz(RX/TX)**

Image: The BAOFENG AR-5RM radio connected to a laptop via its programming cable, highlighting the PL2303 chip for driver-free operation and support for CHIRP software.

Your browser does not support the video tag.

Video: An official product video providing a programming guide for the Baofeng 5RM Ham Radio, demonstrating how to configure settings and channels.

## 7.4 Multi-Band Operation

The AR-5RM supports a wide range of frequencies for both receiving and transmitting:

- **Receiving Frequency Range:** 108MHz-136MHz (AM), 136MHz-174MHz (VHF), 220MHz-260MHz, 350MHz-390MHz, 400MHz-520MHz (UHF)
- **Transmitting Frequency Range:** 144MHz-148MHz (VHF), 420MHz-450MHz (UHF)

## 7.5 Additional Functions

- **FM Radio:** Enjoy local FM broadcasts.
- **Flashlight:** A built-in LED flashlight for convenience in low-light conditions.
- **Stopwatch:** A basic stopwatch function is available.

## 8. MAINTENANCE

- **Cleaning:** Wipe the radio with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** Store batteries in a cool, dry place. If not used for extended periods, charge them periodically to maintain battery health.
- **Antenna Care:** Ensure the antenna connection is clean and free of debris. Avoid bending or stressing the antenna.

## 9. 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 loose, or out of range.	Verify frequency/channel, check antenna connection, move closer to other radios.
Poor audio quality	Low signal strength, interference, or volume too low/high.	Adjust squelch level, move to a clearer area, adjust volume.
Programming issues	Incorrect software settings or driver issues.	Ensure correct CHIRP driver is selected, re-install programming cable drivers if necessary.

## 10. SPECIFICATIONS

Feature	Detail
Model Number	AR-5RM
Item Weight	3.16 pounds
Package Dimensions	9.06 x 8.19 x 4.29 inches
Batteries	2 Lithium Ion batteries required (included)
Battery Capacity	2500mAh
Voltage	7.4 Volts
Receiving Frequency Range	108-136MHz, 136-174MHz, 220-260MHz, 350-390MHz, 400-520MHz
Transmitting Frequency Range	144-148MHz, 420-450MHz
Talking Range Maximum	5 Miles

Feature	Detail
Tuner Technology	VHF, UHF
Channels	999

## 11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the seller directly. Keep your proof of purchase for any warranty claims.

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### Related Documents - AR-5RM

<div> <div>BAOFENG</div> <div>Amateur Radio</div> <div>UV-5RM PLUS (GPS)</div> <div>USER'S MANUAL</div> </div>	<a href="#">BAOFENG UV-5RM PLUS (GPS) Multi-Band Amateur Radio User Manual</a> Explore the BAOFENG UV-5RM PLUS (GPS) Multi-Band Amateur Radio with this comprehensive user manual. Learn about its advanced features, including GPS, APRS, DTMF, and multi-band scanning, designed for reliable communication for both professional and recreational users. This guide covers operation, safety, battery information, and FCC compliance.
<div> <div>BAOFENG</div> <div>Amateur Radio</div> <div>UV-5RM PLUS/ K5PLUS</div> <div>USER'S MANUAL</div> </div>	<a href="#">BAOFENG UV-5RM PLUS / K5PLUS Amateur Radio User's Manual</a> Explore the BAOFENG UV-5RM PLUS/K5PLUS Amateur Radio User's Manual, a comprehensive guide for this dual-band, dual-display, dual-watch transceiver. Learn about its features, operation, battery charging, accessory installation, and advanced functions like scanning, programming, VOX, and DTMF. This manual provides essential safety warnings, regulatory compliance information (EU, FCC, IC), and troubleshooting tips for optimal performance and secure communication.
<div> <div>BAOFENG</div> <div>Amateur Radio</div> <div>UV-5RM PLUS</div> <div>USER'S MANUAL</div> </div>	<a href="#">BAOFENG UV-5RM PLUS Amateur Radio User's Manual</a> The BAOFENG UV-5RM PLUS is a dual-band, dual-display, dual-watch amateur radio designed for secure, instant, and reliable communications. This user manual provides comprehensive instructions for operation, battery charging, accessory installation, and advanced features, ensuring optimal performance and compliance with regulatory standards.
<div> <div>BAOFENG</div> <div>Amateur Radio</div> <div>UV-5RM PLUS (GPS)</div> <div>USER'S MANUAL</div> </div>	<a href="#">BAOFENG UV-5RM PLUS (GPS) Amateur Radio User's Manual</a> Comprehensive user manual for the BAOFENG UV-5RM PLUS (GPS) Multi-Band Amateur Radio, covering features, operation, battery information, and safety warnings for optimal use and communication.
<div> <div>Amateur Radio</div> <div>5RM SERIES</div> <div>USER'S MANUAL</div> </div>	<a href="#">BaoFeng 5RM Series User Manual: Your Guide to Amateur Radio Operation</a> Explore the BaoFeng 5RM Series Amateur Radio User Manual. This guide provides comprehensive instructions on setup, operation, features, safety precautions, and troubleshooting for your handheld transceiver.





### [BAOFENG UV-5X Two Way Radio User Manual](#)

Comprehensive user manual for the BAOFENG UV-5X Two Way Radio, covering setup, operation, advanced features, troubleshooting, and technical specifications for optimal communication and safe use.