BAOFENG UV-5R

BAOFENG UV-5R 8W Two-Way Radio User Manual

High Power Ham Handheld Radio with Extended Battery and Programming Kit

Introduction

This manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your BAOFENG UV-5R 8W Two-Way Radio. Please read this manual thoroughly before using the device to ensure proper functionality and safety. The BAOFENG UV-5R is a high-power, dual-band handheld radio designed for reliable communication across various environments.

Package Contents

The BAOFENG UV-5R Full Kit includes the following components:

- Portable Radio (UV-5R 8W)
- 3800mAh Extended Battery
- US Base Charger
- USB Charger Cable
- AR-771 Antenna
- Programming Cable
- Belt Clip
- Sling (Lanyard)
- Earpiece (K Port Headset)
- User's Manual (this document)



Image: Complete package contents of the BAOFENG UV-5R 8W Two-Way Radio Full Kit.

Product Features

- **High Power Output:** Selectable High (8W), Medium (4W), and Low (1W) power transmission for varied communication needs and battery efficiency.
- **Extended Battery Life:** Equipped with a 3800mAh battery, offering significantly longer standby time compared to standard batteries. Includes power-saving functions.
- **Dual Band / Dual Display / Dual Standby:** Allows monitoring of two different frequencies simultaneously.
- **128 Channel Memory:** Stores up to 128 groups of channels for quick access.
- **Wide Frequency Range:** Transmit frequency range includes VHF 144-148MHz and UHF 420-450MHz.
- **Enhanced Antenna:** Includes an AR-771 high-gain antenna for improved signal stability and extended communication distance.
- **Programming Capability:** Comes with a USB programming cable (PL2303 Chip, driver-free) compatible with CHIRP software and Windows 10/11 systems for easy customization.
- **Integrated Features:** 50 CTCSS and 104 CDCSS tones, AUTO Keypad Lock, LED Flashlight, VOX (Voice

Operated Exchange) function.

- **FCC Certified:** This model is FCC certified with FCC ID: 2AJGM-UV5R.



Image: Visual representation of key features of the BAOFENG UV-5R 8W radio.



Image: Illustration of the selectable power output levels (1W, 4W, 8W) of the radio.

Your browser does not support the video tag.

Video: An official product video demonstrating the features and capabilities of the Baofeng UV-5R Ham Radio, including its 8W power, 3800mAh battery, and long-range communication.

Setup

1. Battery Installation and Charging

The radio comes with a 3800mAh extended battery. Ensure the battery is fully charged before first use.

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 remove, press the battery release latch (usually at the bottom of the battery) and slide the battery downwards.

Charging Methods:

- **Desktop Charger:** Place the radio with the battery installed into the US Base Charger. The indicator light will show charging status (red for charging, green for fully charged).
- **USB Charger Cable:** Connect the USB charger cable to the DC connector on the battery pack. This allows for convenient charging from various USB power sources like power banks, laptops, or car chargers. Note: This USB cable is for charging only and cannot be used for programming.



Image: The 3800mAh extended battery and its USB charging capability.



Image: The radio being charged using the desktop charging cradle.

2. Antenna Attachment

Screw the AR-771 antenna clockwise onto the antenna connector on top of the radio until it is finger-tight. Do not overtighten.



Image: The radio with its antenna properly attached.

3. Headset Connection

Insert the K Port Headset's two plugs into the corresponding audio jacks on the side of the radio. The larger 3.5mm plug is for the earphone (top pin), and the smaller 2.5mm plug is for the microphone (bottom pin).

Operating Instructions

1. Power On/Off and Volume Control

Rotate the power/volume knob (top-left knob) clockwise to turn the radio on and increase volume. Rotate counter-clockwise to decrease volume and turn the radio off.

2. Channel/Frequency Selection

- **VFO/MR Button:** Press this button to switch between Frequency Mode (VFO) and Channel Mode (MR).
- **Keypad Entry:** In Frequency Mode, directly enter the desired frequency using the numeric keypad. In Channel

Mode, enter the channel number.

- **Up/Down Arrows:** Use the ▲ and ▼ buttons to scroll through frequencies or channels.
- **A/B Button:** Selects the active A (upper) or B (lower) display for transmitting.

3. Transmitting and Receiving

- **Receiving:** The radio will automatically receive signals on the selected frequency/channel.
- **Transmitting:** Press and hold the PTT (Push-To-Talk) button on the left side of the radio to transmit. Speak clearly into the microphone. Release the PTT button to stop transmitting and return to receive mode.

4. Programming the Radio (CHIRP Software)

The BAOFENG UV-5R can be programmed using the included USB programming cable and CHIRP software. This allows for advanced customization of channels, frequencies, and radio settings.

1. Install the necessary drivers for the PL2303 chip if not automatically detected by your operating system (Windows 10/11 typically installs automatically).
2. Download and install the latest version of CHIRP software from its official website.
3. Connect the programming cable to your computer's USB port and to the radio's accessory port (next to the PTT button).
4. Turn on the radio.
5. Open CHIRP software and select "Radio" > "Download From Radio" to read the current settings.
6. Modify channels and settings as desired within the CHIRP interface.
7. Select "Radio" > "Upload To Radio" to write the new settings to your device.



Image: The USB programming cable for connecting the radio to a computer.



Image: Demonstrating the radio connected to a computer for programming via CHIRP software.

5. Special Features

- **VOX (Voice Operated Exchange):** Enables hands-free transmission when your voice is detected. Activate via the menu.
- **LED Flashlight:** Press the **MONI** button (side button above PTT) to turn the flashlight on/off.
- **Keypad Lock:** Press and hold the **#** key to lock/unlock the keypad, preventing accidental changes.
- **CTCSS/CDCSS:** Continuous Tone-Coded Squelch System (CTCSS) and Continuous Digital Coded Squelch System (CDCSS) help filter out unwanted signals. These can be set per channel via programming.

Maintenance

- **Cleaning:** Wipe the radio with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** To maximize battery life, avoid overcharging or completely draining the battery. Store in a cool, dry place when not in use for extended periods.
- **Storage:** Store the radio in a dry, dust-free environment away from extreme temperatures. Remove the battery

if storing for a long time.

- **Water Resistance:** This radio is **Not Water Resistant**. Avoid exposure to water or high humidity.

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 battery low.	Verify frequency/channel, check antenna connection, charge battery. Ensure you are on the correct transmit frequency.
Poor audio quality.	Volume too low/high, interference, or antenna issue.	Adjust volume, move away from interference sources, check antenna.
Keypad is unresponsive.	Keypad lock is active.	Press and hold the **#** key to unlock the keypad.

Specifications

Feature	Detail
Model Number	UV-5R
Brand	BAOFENG
Item Weight	2.49 pounds
Package Dimensions	10.12 x 8.35 x 2.64 inches
Battery Type	Lithium Ion (3800mAh included)
Voltage	7.4 Volts (DC)
Number of Channels	128
Frequency Range	VHF 144-148MHz, UHF 420-450MHz
Talking Range Maximum	5 Mile (dependent on terrain and conditions)
Water Resistance Level	Not Water Resistant
FCC ID	2AJGM-UV5R

Warranty Information

Please note that the product specifications indicate "Warranty: NO". For any concerns regarding product defects or

issues, please refer to the retailer's return policy or contact the seller directly through the platform where the purchase was made.

Support and Resources

For additional detailed information and advanced configurations, please refer to the official PDF user guide:

Download Official User Guide (PDF)

For further assistance, please contact BAOFENG customer support or the seller directly.

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