BAOFENG UV-5R

BAOFENG UV-5R 8W Ham Radio Handheld Dual Band 2-Way Instruction Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the BAOFENG UV-5R 8W Ham Radio, a versatile dual-band handheld transceiver. It covers essential information for setup, operation, programming, maintenance, and safety, ensuring optimal performance and user experience. Please read this manual thoroughly before operating the device.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 × BAOFENG UV-5R 8W Radio
- 1 × 1800mAh Li-ion Battery
- 1 × 3800mAh Li-ion Battery (Extra)
- 1 × Programming Cable
- 1 × RH-771 High Gain Antenna
- 1 × Original Antenna
- 1 × Hand Microphone
- 1 × Power Adapter
- 1 × Earpiece
- 1 × Belt Clip
- 1 × Hand Strap
- 1 × User's Manual

Figure 2.1: All components included with the BAOFENG UV-5R 8W Ham Radio.

3. PRODUCT OVERVIEW

The BAOFENG UV-5R is a compact, high-power dual-band FM transceiver designed for reliable two-way communication. Key features include:

- **Dual Band Operation:** Supports both UHF and VHF frequencies.
- **Adjustable Power Output:** High, Medium, and Low power settings for various communication needs.
- **VOX Function:** Voice-operated transmission with adjustable gain levels (0-9).
- **Programmable:** Can be programmed via keypad or PC with the included cable.
- **LCD Display:** Clear display for frequency, channel, and status information.
- **Built-in Flashlight:** For illumination in low-light conditions.

Figure 3.1: Front and rear views of the UV-5R radio.

Figure 3.2: Radio top with flashlight.

Figure 3.3: Standard and extended batteries.

Figure 3.4: Original and high gain antennas.

4. SETUP

4.1 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 remove, press the release latch at the bottom of the battery and slide it downwards.
4. Place the radio with the battery installed into the charging cradle. Ensure the charging contacts align.
5. Connect the power adapter to the charging cradle and a power outlet. The indicator light on the charger will show charging status.

Figure 4.1: Radio in charging cradle.

4.2 Antenna Attachment

1. Screw the antenna clockwise into the connector on top of the radio until it is finger-tight. Do not overtighten.
2. Always operate the radio with an antenna attached to prevent damage.

4.3 Powering On/Off

1. To power on, rotate the volume/power knob (top-left) clockwise until you hear a click.
2. To power off, rotate the volume/power knob counter-clockwise until you hear a click.

5. OPERATING INSTRUCTIONS

5.1 Frequency and Channel Mode

- Press the **VFO/MR** button to switch between Frequency Mode (VFO) and Channel Mode (MR).
- In Frequency Mode, you can manually input frequencies.
- In Channel Mode, you can select pre-programmed channels using the Up/Down arrow keys or the keypad.

5.2 Transmitting and Receiving

- To transmit, press and hold the **PTT (Push-To-Talk)** button on the left side of the radio. Speak clearly into the microphone.
- Release the **PTT** button to receive.
- Adjust the volume knob for comfortable listening.

5.3 VOX Function

- The VOX (Voice Operated Transmit) function allows hands-free transmission.
- To activate/deactivate and adjust VOX gain (0-9), navigate through the radio's menu. Refer to the detailed menu guide in the full user manual for specific steps.

5.4 Scanning

- Press the **SCAN** button (keypad #) to initiate frequency or channel scanning.
- The radio will stop scanning when a signal is detected.

5.5 Power Level Adjustment

- The UV-5R offers High, Medium, and Low power output settings.
- To adjust, access the power setting through the radio's menu. High power (8W) is suitable for maximum range, while lower power conserves battery.

Figure 5.1: Tested RF power output of the UV-5R.

6. PROGRAMMING

6.1 Keyboard Programming

Basic settings such as frequency, CTCSS/DCS tones, and power levels can be programmed directly using the radio's keypad and menu system. Consult the full user manual for detailed menu navigation and parameter adjustments.

6.2 PC Programming

For advanced configuration, channel management, and custom settings, the UV-5R can be programmed using a computer and specialized software (e.g., CHIRP) with the included programming cable.

1. Install the programming software and USB driver on your computer.
2. Connect the programming cable to your computer's USB port and the radio's accessory port.
3. Ensure the radio is powered on.
4. Follow the software instructions to read from or write to the radio.

Figure 6.1: Programming cable for PC connection.

7. MAINTENANCE

7.1 Battery Care

- Charge the battery fully before first use.

- Avoid overcharging or completely draining the battery to prolong its lifespan.
- Store batteries in a cool, dry place when not in use.

7.2 Cleaning

- Wipe the radio's surface with a soft, damp cloth.
- Do not use harsh chemicals or abrasive cleaners.
- Ensure the radio is powered off and the battery is removed before cleaning.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on	Low or uncharged battery; improperly installed battery	Charge battery; ensure battery is correctly installed
Cannot transmit	Incorrect frequency/channel; low power setting; PTT button not pressed	Verify frequency/channel; adjust power level; ensure PTT is fully pressed
Poor reception or no signal	Antenna loose or damaged; out of range; interference	Check antenna connection; move to a higher location; check for local interference sources
Keypad unresponsive	Keypad lock activated; software glitch	Unlock keypad (usually by holding # key); power cycle the radio

9. SPECIFICATIONS

Feature	Detail
Model Number	BaoFeng UV-5R
Item Weight	8.8 ounces (250 Grams)
Product Dimensions	2.36 x 8.66 x 9.06 inches
Batteries	1 Lithium Ion batteries required (included)
Display Type	LCD
Number of Channels	128
Special Feature	Programmable
Frequency Range	UHF VHF
Voltage	7.4 Volts
Water Resistance Level	Water Resistant
Manufacturer	Fujian Baofeng Electronics Co.,Ltd.

10. Safety Information

10.1 FCC Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15B and part 90 of the FCC Rules. The FCC IDENTIFIER for this device is **2AJGM-UV5RPRO**. Operation is subject to the condition that this device does not cause harmful interference.
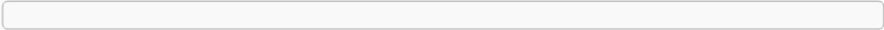
Figure 10.1: FCC Equipment Authorization.

10.2 RF Exposure Guidelines

To ensure safe operation and compliance with RF exposure guidelines, always maintain a minimum distance between the antenna and your body during transmission. Do not operate the radio with a damaged antenna. This device is intended for occupational/controlled RF exposure environments.

10.3 General Safety Precautions

- Do not disassemble or modify the radio.
- Avoid exposing the radio to extreme temperatures, direct sunlight, or moisture.
- Keep the radio away from medical devices to prevent interference.
- Use only BAOFENG approved accessories.

11. Warranty and Support

The BAOFENG UV-5R 8W Ham Radio comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. For warranty claims, technical support, or inquiries, please contact your authorized BAOFENG dealer or the seller directly.
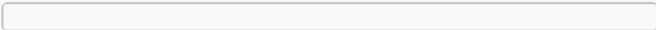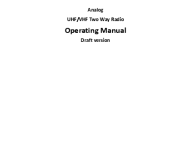
Figure 11.1: Certificate of Authorization.

Related Documents - UV-5R

Analog UHF/VHF Two Way Radio Operating Manual Draft version	**Baofeng UV-5R Pro Two Way Radio Operating Manual** This comprehensive operating manual provides detailed instructions for the Baofeng UV-5R Pro and compatible two-way radio models. It covers essential features, operational procedures, safety guidelines, FCC licensing information, and troubleshooting tips for reliable communication.
BaoFeng BF-UV5R Programming Guide	**BaoFeng BF-UV5R Programming Guide** A comprehensive guide to programming the BaoFeng BF-UV5R dual-band amateur radio using both the manufacturer's software and CHIRP. Covers system requirements, cable setup, software installation, and detailed parameter explanations for radio customization.

[Baofeng UV-5R Portofoon: Handleiding voor Algemeen Gebruik en Configuratie](#)

Uitgebreide handleiding voor de Baofeng UV-5R portofoon, inclusief installatie, bediening, kanalenlijsten (PMR, LPD, 2M band), en legale gebruiksinformatie. Leer hoe u deze dual-band radio optimaal instelt en gebruikt voor diverse toepassingen.

[Baofeng UV-5R EX Two-Way Radio User Manual - Comprehensive Guide](#)

Explore the Baofeng UV-5R EX User Manual for detailed instructions on setup, operation, programming, and troubleshooting of this versatile two-way radio.

[Baofeng UV-5R Quick Guide: Programming and Settings](#)

Comprehensive quick guide for the Baofeng UV-5R radio, detailing frequency programming, memory storage, and a full list of customizable settings for ham radio operation. Includes print instructions.

[Baofeng UV-5R: Features, Usage, and Accessories Guide](#)

A comprehensive overview of the Baofeng UV-5R dual-band handheld radio, covering its history, features, programming, APRS capabilities, SSTV, fox hunting, and recommended accessories.