BAOFENG UV-5R+ Plus

BAOFENG UV-5R+ Plus Two-Way Radio Instruction Manual

Model: UV-5R+ Plus (Item Model Number: 28-020-116)

1. Introduction

This manual provides detailed instructions for the proper use, setup, and maintenance of your BAOFENG UV-5R+ Plus Two-Way Radio. Please read this manual thoroughly before operating the device to ensure safe and efficient communication.



Image 1.1: The BAOFENG UV-5R+ Plus Two-Way Radio, Flame Red variant.

The BAOFENG UV-5R+ Plus is a portable two-way radio designed for reliable communication. It features a durable metallic shell, a tri-color backlit LCD display, and supports a frequency range of 144-148 MHz and 420-450 MHz. It is equipped with functions such as VOX (Voice Operated Transmission), CTCSS/DCS codes, and frequency offset for repeater access.

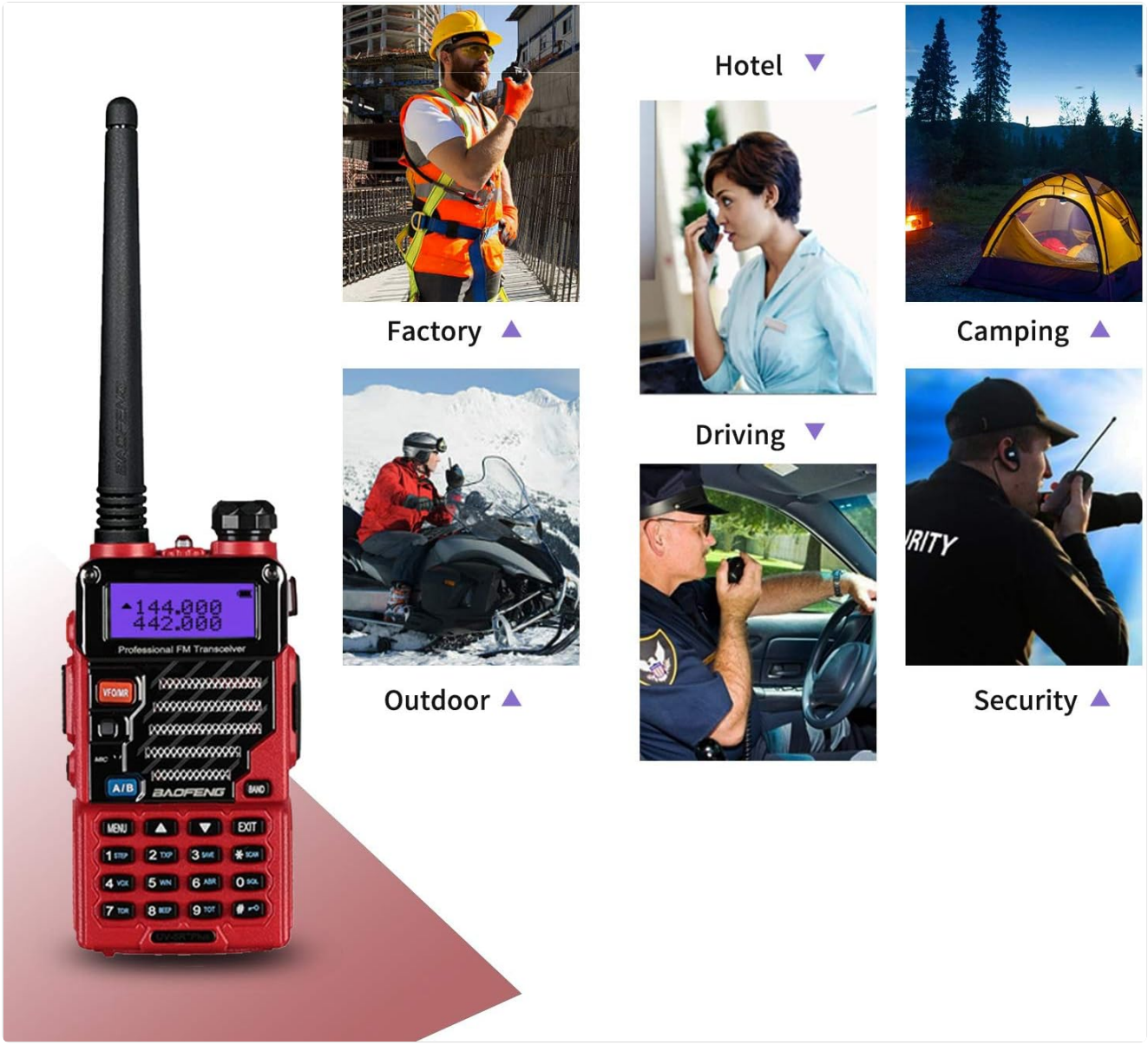


Image 1.2: The radio is suitable for various applications including factory, hotel, camping, outdoor activities, driving, and security.

2. Package Contents

Upon unpacking, please verify that all items listed below are present and in good condition:



Image 2.1: All components included in the BAOFENG UV-5R+ Plus package.

- BAOFENG UV-5R+ Plus Two-Way Radio Unit
- 7.4V 1800mAh Li-ion Battery Pack
- Antenna (SMA-F)
- Desktop Charger Cradle
- AC Power Adapter for Charger
- Earpiece with Microphone
- Belt Clip
- Hand Strap/Lanyard
- User Manual

3. Product Components and Controls

Familiarize yourself with the various parts and controls of your radio:

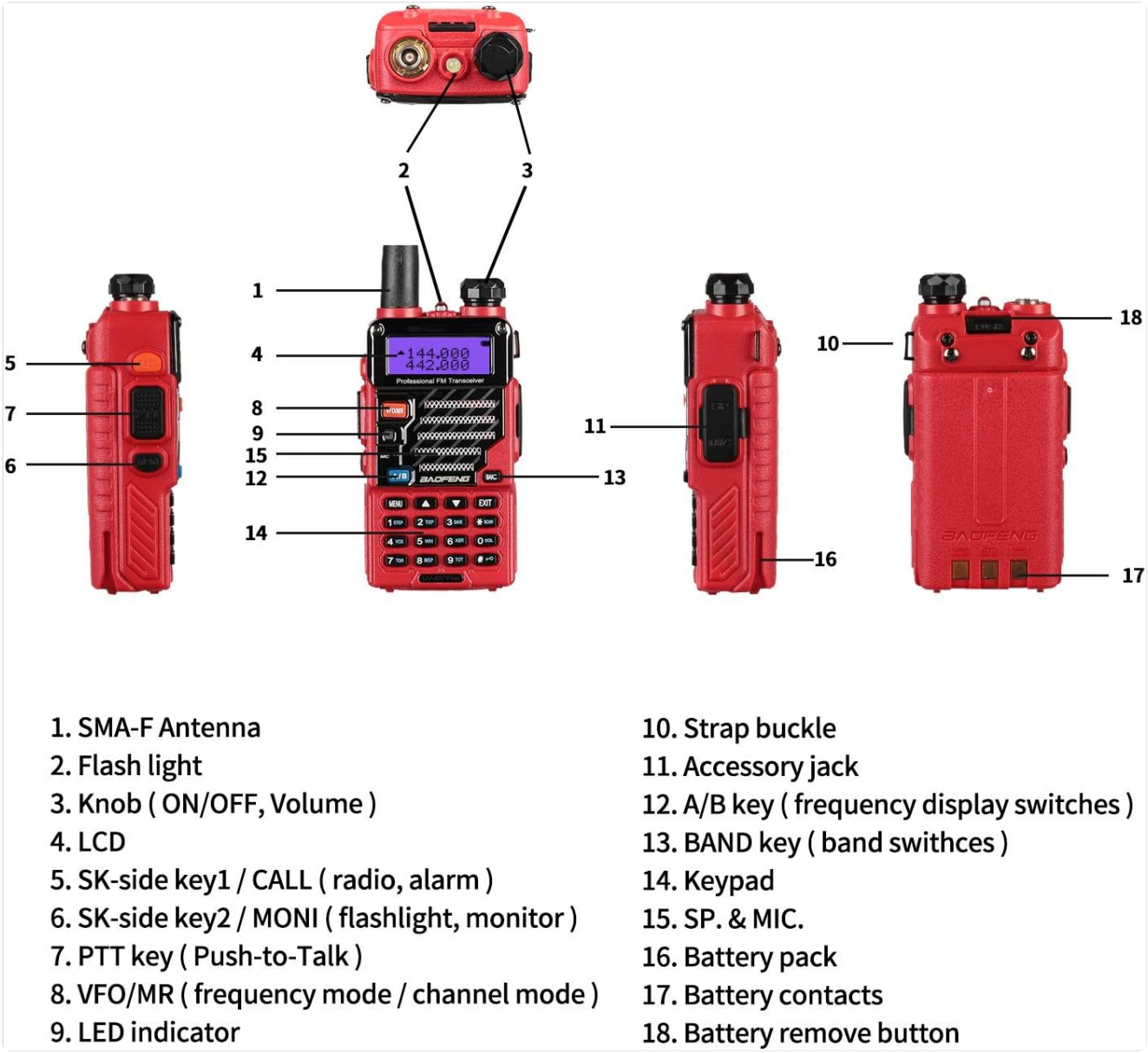


Image 3.1: Detailed diagram showing the labeled components of the radio.

1. **SMA-F Antenna:** For transmitting and receiving signals.
2. **Flashlight:** Integrated LED light.
3. **Knob (ON/OFF, Volume):** Power on/off and adjust audio volume.
4. **LCD:** Liquid Crystal Display for frequency, channel, and status information.
5. **SK-side key1 / CALL (Radio, Alarm):** Programmable side key, often used for FM radio or alarm function.
6. **SK-side key2 / MONI (Flashlight, Monitor):** Programmable side key, often used for flashlight or monitor function.
7. **PTT key (Push-to-Talk):** Press to transmit, release to receive.
8. **VFO/MR (Frequency Mode / Channel Mode):** Toggles between VFO (Frequency) and MR (Channel) modes.
9. **A/B key (Frequency Display Switches):** Switches between upper (A) and lower (B) frequency displays.
10. **BAND key (Band Switches):** Toggles between VHF and UHF bands.
11. **Keypad:** For entering frequencies, channel numbers, and menu navigation.
12. **Strap Buckle:** Attachment point for the hand strap.
13. **Accessory Jack:** For connecting external audio accessories (earpiece, speaker mic).
14. **Battery Pack:** Removable Li-ion battery.
15. **Battery Contacts:** Connects the battery to the radio.

16. **Battery Remove Button:** Releases the battery pack.



Image 3.2: Close-up details of key radio features including the volume knob, PTT button, keypad, and battery connection points.

4. Setup

4.1. Battery Installation

1. Align the battery pack with the grooves on the back of the radio.
2. Slide the battery pack upwards until it clicks into place.
3. To remove, press the battery release button (18 in Image 3.1) and slide the battery pack downwards.



Image 4.1: The 7.4V 1800mAh Li-ion battery features over-charge, over-discharge, over-heat, over-current, and short-circuit protection.

4.2. Antenna Attachment

Screw the antenna into the connector on the top of the radio clockwise until it is firmly seated. Do not overtighten.

4.3. Charging the Battery

1. Connect the AC power adapter to the desktop charger cradle.
2. Place the radio with the battery installed (or just the battery pack) into the charging cradle.
3. The charger indicator light will typically show red during charging and green when fully charged.

5. Basic Operation

5.1. Power On/Off and Volume Adjustment

Rotate the **Knob (3)** clockwise to power on the radio. Continue rotating clockwise to increase the volume. Rotate

counter-clockwise to decrease the volume and fully counter-clockwise to power off.

5.2. Frequency/Channel Mode Selection (VFO/MR)

Press the **VFO/MR button (8)** to switch between Frequency Mode (VFO) and Channel Mode (MR). In VFO mode, you can manually enter frequencies. In MR mode, you select pre-programmed channels.

5.3. Selecting Frequencies or Channels

- **In VFO Mode:** Use the **Keypad (14)** to directly enter the desired frequency.
- **In MR Mode:** Use the UP/DOWN arrow keys on the keypad to scroll through programmed channels, or enter the channel number directly using the keypad.

5.4. Transmitting and Receiving (PTT)

To transmit, press and hold the **PTT key (7)** on the left side of the radio. Speak clearly into the microphone. Release the PTT key to return to receive mode.

5.5. Dual Watch / A/B Band Selection

The radio features a dual-band display. Press the **A/B key (9)** to switch the active frequency between the upper (A) and lower (B) displays. The active frequency is indicated by an arrow on the LCD.

5.6. VOX Function

VOX (Voice Operated Transmission) allows hands-free operation. When VOX is enabled, the radio will automatically transmit when it detects your voice. This function can be activated and adjusted via the radio's menu.

5.7. Flashlight and Alarm

The **SK-side key2** / **MONI (6)** can be configured for a flashlight function. The **SK-side key1** / **CALL (5)** can be configured for an emergency alarm function. Refer to the full user manual for programming these keys.





Image 5.1: The tri-color backlit LCD display showing active frequencies.

6. Advanced Features

6.1. CTCSS and DCS Tones

CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digitally Coded Squelch) are sub-audible tones used to filter out unwanted communications. When enabled, your radio will only open squelch and receive audio from transmissions that include the matching tone. These can be set via the radio's menu.

6.2. Frequency Offset (OFFSET)

The OFFSET function is used when communicating through repeaters. It sets the difference between the transmit and receive frequencies. This is crucial for proper repeater operation and can be configured in the menu.

6.3. Programming

The BAOFENG UV-5R+ Plus supports programming via CHIRP software and a compatible K-plug programming cable. This allows for easier management of channels, frequencies, and other settings from a computer. Detailed programming guidelines are available online and often provided with the programming cable.

7. Maintenance

7.1. Cleaning

Clean the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the radio is dry before use.

7.2. Battery Care

- Avoid fully discharging the battery frequently.
- Store the battery in a cool, dry place when not in use.
- Do not expose the battery to extreme temperatures or direct sunlight.
- If the battery is not used for an extended period, charge it periodically to maintain its life.

8. Troubleshooting

If you encounter issues with your radio, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on	Low or dead battery; improperly installed battery	Charge the battery; ensure battery is correctly installed.
Cannot transmit or receive	Incorrect frequency/channel; antenna not attached; squelch too high; CTCSS/DCS mismatch	Verify frequency/channel; attach antenna; adjust squelch level; check CTCSS/DCS settings.
Poor audio quality	Low signal strength; volume too low/high; external interference	Move to an area with better signal; adjust volume; check for sources of interference.
Keypad unresponsive	Keypad lock enabled	Unlock the keypad (usually by pressing and holding the '#' key).

For more complex issues, consult the full user manual or contact BAOFENG customer support.

9. Specifications

Feature	Detail
Brand	BAOFENG
Model Number	28-020-116

Feature	Detail
Frequency Range (Transmit/Receive)	144-148 MHz / 420-450 MHz
Power Output	4 / 1 Watts (VHF/UHF)
Number of Channels	128
CTCSS/DCS Tones	50 CTCSS / 104 DCS
Battery Type	7.4V 1800mAh Lithium-Ion (BL-5L compatible)
Product Dimensions	7.28 x 5.71 x 3.94 inches
Item Weight	1.1 pounds
Special Features	Portable, Tri-color backlit LCD, LED torch, Emergency alarm, VOX, BCLO, OFFSET
Water Resistance Level	Not Water Resistant
Programming Support	CHIRP software, K-plug cable compatible

10. Safety Information

- Do not operate the radio without a properly attached antenna.
- Do not transmit outside the specified frequency ranges (144-148 MHz / 420-450 MHz) as this may be illegal and cause interference.
- Keep the radio and its accessories out of reach of children.
- Avoid exposing the radio to extreme temperatures, direct sunlight, or moisture.
- Use only BAOFENG approved batteries and chargers.
- If you are a licensed amateur radio operator, ensure compliance with all applicable regulations.

11. Warranty and Support

Specific warranty information for the BAOFENG UV-5R+ Plus is not provided in this document. Please refer to the manufacturer's official website or the documentation included with your purchase for detailed warranty terms and conditions.
For technical support or further assistance, please contact BAOFENG customer service through their official channels.

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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.

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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