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BAOFENG UV-17R Plus

BAOFENG UV-17R Plus Multi-Band Two Way Radio User Manual

Model: UV-17R Plus

1. Introduction

Thank you for choosing the BAOFENG UV-17R Plus Multi-Band Two Way Radio. This device is designed for reliable communication across various frequency bands, including amateur radio, Airband reception, and NOAA weather alerts. This manual provides essential information for the proper setup, operation, and maintenance of your radio. Please read it thoroughly before use to ensure optimal performance and safety.

2. Product Overview

2.1 Key Features

- Expanded receiving frequency band, including aviation and police bands.
- Extended 2500mAh battery capacity with USB-C charging.
- Enhanced VHF transmission power from 5W to 7W for long-range communication.
- Includes both 8.3" and 15.6" high-gain antennas for improved reception.
- Integrated voice scrambler function for private conversations.
- Versatile frequency coverage: FM 76-108 MHz, AM 108-136MHz, VHF 136-174MHz & 220-260MHz, UHF 350-390MHz & 400-520MHz, 10 NOAA Weather Band.
- Transmission Frequency: 144-148 MHz & 420-450 MHz.
- Frequency Scan & Copy function for easy frequency identification.
- Wide and Narrow Bandwidth Options (12.5KHz and 25KHz).
- 999 channels, 104 CDCSS, 50 CTCSS.
- Vibrant 1.77" TFT color display.
- Adjustable VOX and squelch levels.
- Simplified DTMF setup.

2.2 Package Contents

The BAOFENG UV-17R Plus package typically includes the following items:

- BAOFENG UV-17R Plus Radio Unit (x2 for 2-pack)
- Lithium-Ion Battery (2500mAh) (x2 for 2-pack)
- Antenna (8.3" and 15.6" high-gain options) (x2 of each for 2-pack)
- Programming Cable
- Power Adapter
- USB-C Charging Cable
- Belt Clip
- Hand Strap
- User Manual



Image: Complete package contents for the BAOFENG UV-17R Plus, showing two radio units, two batteries, two antennas, charging cables, and other accessories.

2.3 UV-17R Plus vs. UV-17R Comparison

The UV-17R Plus model offers several enhancements over its predecessor, the UV-17R.



Image: A visual comparison detailing the improvements in the UV-17R Plus model, including expanded frequency bands, increased battery capacity, USB-C charging, and the addition of a voice scrambler function.



Image: Graphical representation of the multi-band reception capabilities of the UV-17R Plus, showing coverage for AM (108-136MHz), UHF (350-390MHz, 400-520MHz), VHF (136-174MHz, 220-260MHz), and FM (76-108MHz).

3. Setup

3.1 Battery Installation

1. Ensure the radio is powered off.
2. Align the battery pack with the grooves on the back of the radio.
3. Slide the battery pack upwards until it clicks into place.
4. To remove, press the battery release latch (if present) and slide the battery downwards.



Image: The upgraded 2500mAh Lithium-Ion battery for the UV-17R Plus, featuring a convenient USB-C charging port, compared to the 1800mAh battery of the UV-17R.

3.2 Antenna Attachment

1. Screw the desired antenna (8.3" or 15.6" high-gain) clockwise onto the antenna connector on top of the radio until it is finger-tight.
2. Do not overtighten.

3.3 Charging the Battery

The UV-17R Plus features a 2500mAh battery with USB-C charging capability.

1. Connect the USB-C charging cable to the USB-C port on the battery pack.
2. Connect the other end of the cable to a compatible USB power adapter.
3. The charging indicator on the radio or battery will show charging status (e.g., red for charging, green for fully charged).

4. Operating Instructions

4.1 Power On/Off and Volume Control

- **Power On:** Rotate the power/volume knob clockwise until you hear a click.
- **Power Off:** Rotate the power/volume knob counter-clockwise until you hear a click.
- **Volume Adjustment:** Rotate the power/volume knob to adjust the audio output level.

4.2 Frequency Coverage

The UV-17R Plus offers extensive frequency coverage for both reception and transmission:

- **Receiver Frequencies:**
  - FM: 76-108 MHz
  - AM (Airband): 108-136 MHz
  - VHF: 136-174 MHz, 220-260 MHz
  - UHF: 350-390 MHz, 400-520 MHz
  - NOAA Weather Band: 10 channels
- **Transmission Frequencies:**
  - VHF: 144-148 MHz
  - UHF: 420-450 MHz

4.3 Frequency Scan & Copy

This feature allows the radio to scan for active frequencies and copy them, along with CTCSS or DCS tones, from another radio.

1. Enable the scan function on your UV-17R Plus.
2. Place the UV-17R Plus near the radio you wish to scan.
3. When the other radio transmits, the UV-17R Plus will display the frequency (±2.5 PPM) and any associated CTCSS or DCS tones. If no tones are present, it will indicate 'NONE'.



Image: Illustration of the wireless frequency copy feature, showing one radio scanning and acquiring the frequency and tone information from another radio.

4.4 Voice Scrambler Function

The voice scrambler function enhances privacy during communications by encrypting your voice.

- Refer to the radio's menu system to activate and configure the voice scrambler.
- When activated, your transmissions will be scrambled, requiring the receiving radio to also have the scrambler function enabled and set to the same parameters to decode the audio.

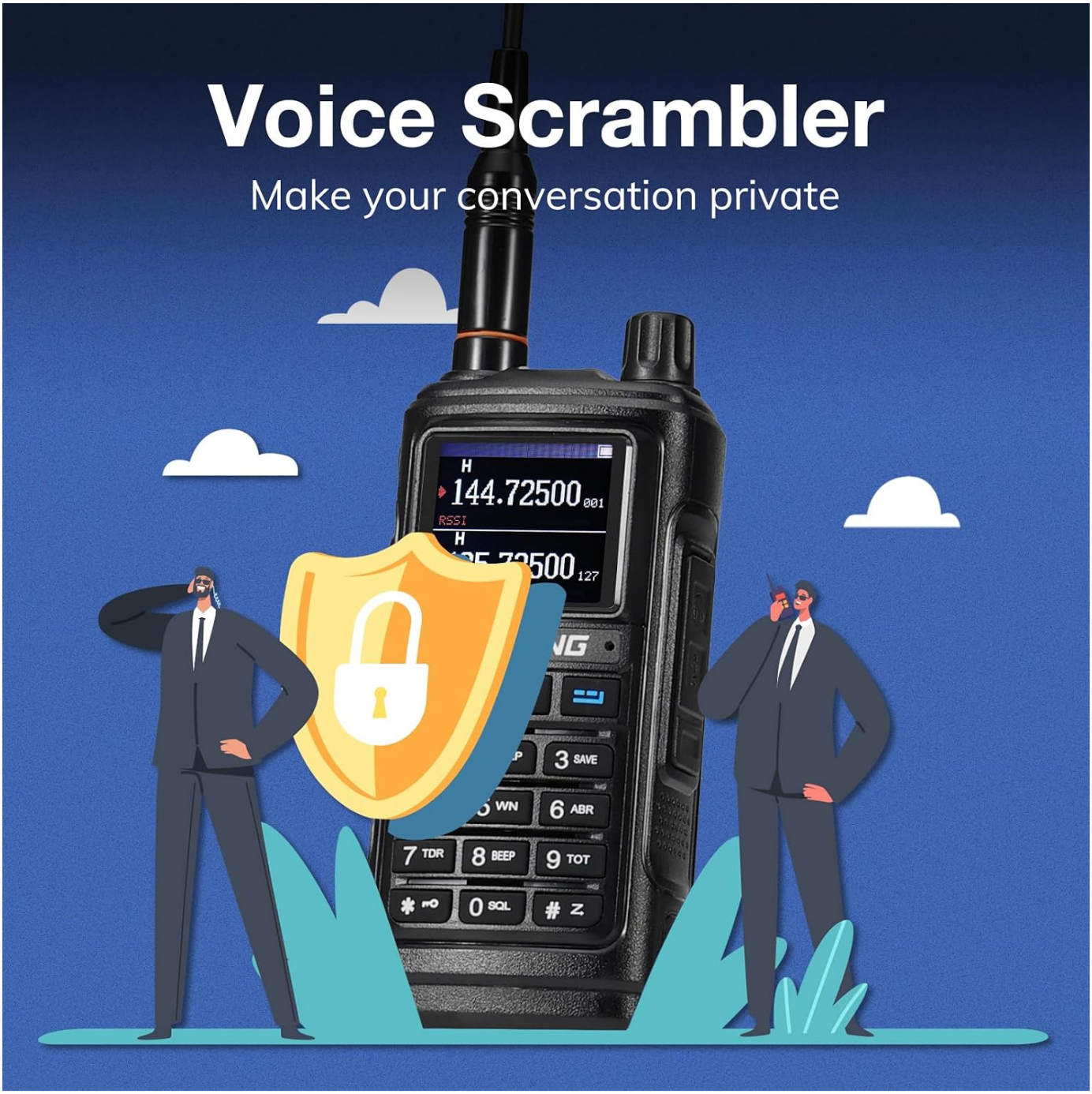


Image: A visual representation of the voice scrambler feature, indicating its role in securing communications for privacy.

4.5 NOAA Weather Band Reception

The UV-17R Plus can receive 10 NOAA Weather Band channels, providing access to critical weather alerts and forecasts.

- Access the NOAA Weather Band channels through the radio's menu or a dedicated shortcut key, if available.
- Monitor these channels for real-time weather information, including severe weather warnings.



Image: The radio displaying its NOAA Weather Band functionality, with icons illustrating different weather conditions it can provide alerts for.

4.6 Wide and Narrow Bandwidth Options

The radio supports both 12.5KHz (narrow band) and 25KHz (wide band) bandwidth settings. This allows for compatibility with various communication systems and helps optimize signal clarity.

- Adjust the bandwidth setting via the radio's menu to match the requirements of the channel you are using.

4.7 DTMF Setup

The UV-17R Plus features a simplified DTMF (Dual-Tone Multi-Frequency) setup for various control functions, such as repeater access or remote control.

- Consult the detailed programming guide (often available online or through software) for specific DTMF code configurations and usage.

5. Maintenance

5.1 General Care

- Keep the radio clean by wiping it with a soft, damp cloth. Avoid harsh chemicals.
- Do not expose the radio to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture. The radio is not water-resistant.
- Ensure the antenna is securely attached but not overtightened.

5.2 Battery Care

- Charge the battery fully before initial use.
- Avoid overcharging or completely draining the battery, as this can reduce its lifespan.
- If storing the radio for an extended period, remove the battery and store it in a cool, dry place at approximately 50% charge.
- Do not dispose of batteries in fire. Recycle them according to local regulations.

6. Troubleshooting

If you encounter issues with your BAOFENG UV-17R Plus, refer to the following common troubleshooting steps:

- **Radio does not power on:**
  - Ensure the battery is correctly installed and fully charged.
  - Check if the power/volume knob is rotated clockwise past the "off" position.
- **No reception or poor audio:**
  - Verify the antenna is securely attached.
  - Check the volume level.
  - Ensure you are on the correct frequency and that the squelch level is not set too high.
  - Confirm that CTCSS/DCS settings match the transmitting station, if applicable.
- **Cannot transmit:**
  - Ensure you are on a valid transmission frequency (144-148 MHz or 420-450 MHz).
  - Check battery level; low battery can prevent transmission.
  - Verify that the radio is not in scan mode or another non-transmission mode.
  - Ensure your license permits transmission on the selected frequency.
- **Display issues:**
  - If the display is dim or unreadable, check battery charge.
  - Adjust screen brightness settings if available in the menu.

For more complex issues or if troubleshooting steps do not resolve the problem, please contact BAOFENG customer support or refer to online resources for advanced programming and diagnostics.

7. Specifications

Model Number	UV 17R Plus
Brand	BAOFENG

Item Weight	2.38 pounds (approx. 1.08 kg)
Package Dimensions	8.66 x 8.03 x 4.09 inches (approx. 22 x 20.4 x 10.4 cm)
Batteries	2 Lithium Ion batteries required (included), 2500mAh
Number of Channels	999
Receiver Frequency Range	FM 76-108 MHz; AM 108-136MHz; VHF 136-174MHz, 220-260MHz; UHF 350-390MHz, 400-520MHz; 10 NOAA Weather Band
Transmission Frequency Range	144-148 MHz, 420-450 MHz
Talking Range Maximum	5 Mile (approx. 8 km)
Voltage	7.2 Volts (DC)
Water Resistance Level	Not Water Resistant
Special Features	Digital Display, Dual Band Transmission, Multi-Band Reception, Long Range, Rechargeable, Voice Scrambler
Included Components	Antenna, Battery x 2, Cable
FCC ID	2AJGM-UV17

8. Warranty and Support

8.1 Manufacturer Warranty

The BAOFENG UV-17R Plus comes with an 18-month manufacturer warranty. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or exposure to water.

8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact BAOFENG customer support. Refer to the official BAOFENG website or your purchase documentation for the most current contact information.

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.

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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.

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