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BAOFENG UV-82

BaoFeng UV-82 Ham Radio User Manual

Model: UV-82
Brand: BAOFENG

1. Introduction

The BaoFeng UV-82 is a versatile dual-band FM transceiver designed for amateur radio enthusiasts. It operates on VHF (136-174 MHz) and UHF (400-480 MHz) frequencies, offering reliable communication with features like dual PTT, 128 channels, and a built-in LED flashlight. This manual provides essential information for setting up, operating, and maintaining your UV-82 radio.

2. What's in the Box

Your BaoFeng UV-82 package includes the following components:

- 5 x BaoFeng UV-82 Radio units
- 5 x 2800mAh BL-8 Battery packs
- 1 x FTDI Programming Cable
- 5 x Walkie Talkie Earpieces
- 5 x Power Adapters
- 5 x Desktop Chargers



Figure 2.1: Complete package contents of the BaoFeng UV-82 Ham Radio (5-pack).

3. Setup

3.1 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 securely into place.
3. To remove, press the release latch at the bottom of the battery and slide it downwards.



Figure 3.1: The 2800mAh Lithium Polymer battery, providing extended operation time.

3.2 Antenna Attachment

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

3.3 Programming with FTDI Cable

The BaoFeng UV-82 comes with an FTDI programming cable for easy customization of channels and settings. This cable is designed for plug-and-play functionality, typically requiring no additional driver installation on most modern operating systems.

1. Connect the FTDI programming cable to your computer's USB port.
2. Connect the other end of the cable to the programming port on the side of your UV-82 radio.
3. Use compatible programming software (e.g., CHIRP) to read from or write to the radio.



Figure 3.2: Connecting the FTDI programming cable for easy radio configuration.

4. Operating the Radio

4.1 Basic Controls and Features

- **Power/Volume Knob:** Rotate clockwise to turn on and increase volume; counter-clockwise to decrease volume and turn off.
- **Dual PTT (Push-to-Talk) Buttons:** The UV-82 features two PTT buttons, allowing for quick switching between two active frequencies (A/B Key). Press the top PTT for the upper frequency display, and the bottom PTT for the lower frequency display.
- **LCD Display:** Shows current frequencies, channel numbers, battery status, and various function indicators.
- **LED Flashlight:** A convenient light source located at the top of the radio.
- **Earphone Jack:** For connecting the included earpiece or other compatible audio accessories.



Figure 4.1: Key features and controls of the BaoFeng UV-82 radio.



Figure 4.2: The unique Dual Push-to-Talk (PTT) functionality of the UV-82.

4.2 Frequency Ranges

The BaoFeng UV-82 operates within the following frequency ranges:

- **Receive Frequency Range:** VHF: 136-174 MHz; UHF: 400-480 MHz
- **Transmit Frequency Range:** VHF: 144-148 MHz; UHF: 420-450 MHz





Figure 4.3: Important frequency ranges and FCC compliance information.

4.3 Advanced Functions

- **VOX Function:** Voice Operated Exchange allows for hands-free transmission when voice is detected.
- **Dual-Standby:** Monitor two different frequencies simultaneously.
- **Scan:** Scan through programmed channels or frequency ranges to find active transmissions.
- **Monitor:** Temporarily disable squelch to listen for very weak signals.

4.4 Product Overview Video

Video 4.1: An official overview of the Baofeng UV-82 Ham Radio, demonstrating its physical features and basic operation.

5. Maintenance

5.1 Battery Care

- Charge the battery fully before first use.
- Avoid overcharging or completely draining the battery to prolong its lifespan.
- Store the radio and battery in a cool, dry place when not in use for extended periods.

5.2 General Cleaning

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

6. Troubleshooting

- **Radio not turning on:** Check battery charge and ensure it is properly installed.
- **No audio/poor audio:** Adjust volume, check earpiece connection, or ensure squelch is not set too high.
- **Cannot transmit/receive:** Verify frequency settings, ensure you are within range, and check antenna connection. Confirm you have the necessary license for the frequencies you are attempting to use.
- **Programming issues:** Ensure the FTDI cable is securely connected to both the radio and computer. Use the latest version of compatible programming software (e.g., CHIRP).

7. Specifications

Feature	Detail
Item Weight	8.2 ounces
Product Dimensions	5.08 x 2.29 x 1.15 inches
Item Model Number	UV-82
Batteries	5 Lithium Polymer batteries required (included)

Display Type	LCD
Brand	BAOFENG
Color	Black
Number of Channels	128
Special Feature	Dual PTT
Frequency Range	144-148MHz/420-450MHz (Transmit)
Talking Range Maximum	5 Kilometer
Tuner Technology	VHF/UHF
Voltage	7.4 Volts
Water Resistance Level	Water Resistant

8. Safety and Legal Information

8.1 Safety Information

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-UV82.

8.2 Legal Disclaimer

Restricted to occupational use to satisfy FCC RF exposure limits. Modification of this device to receive cellular radiotelephone service signals is prohibited under FCC rules and federal law.

9. Warranty and Support

The BaoFeng UV-82 comes with a 30-day no-reason return policy. For any other problems or support inquiries, please contact the seller directly. Software for programming your UV-82 radio can be provided upon request.

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