BAOFENG DR-1801/TD-H6

BAOFENG DR-1801UV Digital/Analog Two-Way Radio User Manual

Model: DR-1801/TD-H6

Product Overview

The BAOFENG DR-1801UV is an advanced digital and analog two-way radio designed for reliable communication. It features dual-band operation, dual standby, and dual display capabilities, making it versatile for various communication needs. This model includes upgraded AES256 encryption for secure transmissions and a robust 2200mAh battery for extended use.



Image: The BAOFENG DR-1801UV radio, showcasing the main unit alongside its included accessories: a 2200mAh battery, high-gain antenna, charger, belt clip, hand strap, and direct charger cable.

Package Contents

Upon unboxing, verify that all components are present:

- Portable Radio Unit (DR-1801UV)
- 2200mAh Lithium-Ion Battery
- High Gain Antenna
- Desktop Charger Cradle
- AC Power Adapter for Charger
- Belt Clip
- Hand Strap
- User's Manual (this document)

- Direct Charger Cable

Setup Guide

1. Battery Installation and Charging

1. Align the 2200mAh battery 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. Connect the AC power adapter to the desktop charger cradle.
5. Place the radio with the installed battery into the charger cradle. The charging indicator light will illuminate.
6. A full charge typically takes approximately 4 hours.



Image: Illustration of the 2200mAh battery and its impressive endurance, highlighting up to 30 hours of standby time, 17 hours of working time, and a quick 4-hour charge time.

2. Antenna Attachment

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

3. Belt Clip and Hand Strap

Attach the belt clip to the designated slot on the back of the radio for convenient carrying. Secure the hand strap to the loop on the side of the radio to prevent accidental drops.

Operating Instructions

1. Power On/Off and Volume Control

Rotate the top knob clockwise to power on the radio and adjust the volume. Rotate counter-clockwise until a click is heard to power off.

2. Mode Selection (Digital/Analog)

The DR-1801UV supports both digital (DMR) and analog modes. The radio can be switched between these modes as needed. Refer to the display for the current operating mode.



Image: A clear LCD screen of the BAOFENG DR-1801UV, demonstrating how frequencies are displayed in both Analog and Digital modes for easy readability.

3. Channel and Frequency Selection

Use the keypad and navigation buttons to select channels or directly input frequencies within the 144-148MHz and 420-450MHz ranges. The radio supports 1024 channels.

4. Transmitting and Receiving

To transmit, press and hold the Push-to-Talk (PTT) button on the side of the radio. Speak clearly into the microphone. Release the PTT button to receive.

5. Advanced Features

- **AES256 Encryption:** Ensures secure and private communications. This feature helps protect sensitive information from unauthorized access.
- **DMO True 2 Time Slot:** Allows two groups of calls on a single frequency, doubling communication efficiency.

- **SMS Function:** Send and receive text messages between compatible radios.
- **VOX (Voice Operated Exchange):** Enables hands-free transmission.
- **Channels Scan:** Automatically scans through programmed channels to find active transmissions.
- **Emergency Alarm:** Activates an alarm signal in emergency situations.
- **DTMF, VFO, CTCSS, DCS:** Various signaling and frequency control options for advanced users.



Image: A visual representation emphasizing the upgraded AES256 Encryption feature of the BAOFENG DR-1801UV, ensuring secure and confidential communications.



Image: A demonstration of the SMS function on the BAOFENG DR-1801UV, showing two radios exchanging text messages.

Maintenance

- Keep the radio clean by wiping it with a soft, damp cloth. Do not use harsh chemicals or solvents.
- Ensure the antenna connection is secure but not overtightened.
- Store the radio in a dry, cool place away from direct sunlight and extreme temperatures.
- Regularly check the battery contacts for corrosion and clean if necessary.
- The radio is not water resistant; avoid exposure to water or high humidity.

Troubleshooting

Problem	Possible Cause	Solution

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 out of range.	Verify frequency/channel settings. Check antenna connection. Move closer to other radios.
Poor audio quality.	Low battery, weak signal, or incorrect volume.	Charge battery. Adjust volume. Ensure clear line of sight.
Display is blank or flickering.	Low battery or software issue.	Charge battery. If issue persists, contact support.

Specifications

Model: DR-1801/TD-H6

Channels: 1024

Power Output: 5W

Battery Capacity: 2200mAh Lithium-Ion

Time Slot: Dual (DMO True 2 Time Slot)

Frequency Range: 144-148MHz (VHF), 420-450MHz (UHF)

Working Time: Up to 17 hours

Standby Time: Up to 30 hours

Charge Time: Approximately 4 hours

Dimensions: 1.4 x 2.4 x 5.2 inches (36mm x 62mm x 133mm)

Weight: 1.31 pounds (574g)

Special Features: AES256 Encryption, Digital and Analog Compatible, Tier I & Tier II compliant DMR radio, VOX, SMS, Emergency Alarm, DTMF, VFO, CTCSS, DCS.

Water Resistance: Not Water Resistant



Image: Detailed illustration of the BAOFENG DR-1801UV's size and weight, providing precise measurements in both millimeters/inches and grams/ounces.



Image: The BAOFENG DR-1801UV radio in an outdoor setting, visually representing its highly integrated multifunctionality including VOX, SMS, High/Low Power, TOT, Wired Copy, Call Experience, Emergency Alarm, and Digital Encryption.



Image: An infographic detailing the long communication range of the BAOFENG DR-1801UV, showing typical ranges for open areas (up to 6.2 miles), community areas (up to 4 miles), and urban areas (up to 1.8 miles).

Warranty and Support

This BAOFENG DR-1801UV radio comes with a**1-year warranty** provided exclusively through "Shiqun Electronics Co., Ltd". For warranty claims, technical support, or any inquiries regarding your product, please contact the manufacturer directly.
Please retain your proof of purchase for warranty validation.

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