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**BAOFENG DR-1802U**

# BAOFENG DR-1802U DMR Digital & Analog Walkie Talkie User Manual

Model: DR-1802U

## Introduction

This manual provides detailed instructions for the proper setup, operation, and maintenance of your BAOFENG DR-1802U DMR Digital & Analog Walkie Talkie. Please read this manual thoroughly before using the device to ensure safe and efficient operation. Retain this manual for future reference.

## Product Overview

### Package Contents

The BAOFENG DR-1802U package includes the following items:

- BAOFENG DR-1802U Radio Unit
- High Gain Antenna
- 2200mAh Battery
- USB-C Charging Cable
- Charging Dock
- Power Adapter
- Belt Clip
- Lanyard
- 771 Antenna
- User's Manual (this document)




Figure 1: BAOFENG DR-1802U radio unit with all included accessories, including two antennas, battery, charging dock, USB-C cable, power adapter, belt clip, and lanyard.

## Key Features

- **1024 Memory Channels:** Ample storage for complex application needs.
- **1.77-inch Display:** Clear interface for easy navigation.
- **DMR True 2-Slot:** Efficient digital communication with two time slots.
- **Digital & Analog Compatible:** Seamless transition between modes.
- **Advanced AES256 Encryption:** Ensures secure and confidential communications.
- **USB-C Charging:** Convenient and modern charging standard.
- **VOX Voice Activation:** Hands-free operation in suitable environments.
- **SMS Function:** Supports text messaging capabilities.
- **Excellent Sound Quality:** Digital noise canceling for clear calls.

## Radio Components




Figure 2: Front and side view of the BAOFENG DR-1802U radio with key components labeled for identification.

- **Antenna:** For transmitting and receiving signals.
- **Channel Switch:** Rotary knob to select channels.
- **Power/Volume Knob:** Turns the radio on/off and adjusts volume.
- **Flashlight:** Integrated light source.
- **SK1, SK2, SK3 Keys:** Programmable side keys for quick functions.
- **Speaker:** Outputs audio.
- **PTT (Push-To-Talk) Button:** Activates transmission.
- **MENU Key:** Accesses the radio's menu system.
- **1.77-inch Screen:** Displays operational information.
- **EXIT Key:** Exits menus or functions.
- **Keypad:** For numerical input and function selection.
- **2-pin K Jack:** For external audio accessories (e.g., headset, programming cable).
- **Mic (Microphone):** For voice input.

## Setup

## 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 latch (if present) and slide the battery downwards.

## 2. Antenna Attachment

1. Screw the desired antenna (High Gain or 771 Antenna) clockwise into the connector on top of the radio until it is finger-tight. Do not overtighten.

## 3. Charging the Battery

Before initial use, fully charge the battery. The radio supports both USB-C direct charging and charging via the included desktop dock.




Figure 3: The BAOFENG DR-1802U radio demonstrating various charging methods, including direct USB-C connection and placement in the charging dock.

- **Using the Charging Dock:**
    a. Connect the power adapter to the charging dock and plug it into a power outlet.
    b. Place the radio (with battery installed) or just the battery into the charging slot.
    c. The indicator light on the dock will show charging status (e.g., red for charging, green for fully charged).
- **Using USB-C Direct Charging:**
    a. Connect the USB-C charging cable to the USB-C port on the radio.
    b. Connect the other end of the cable to a compatible USB power source (e.g., power adapter, computer USB port, car charger, power bank).

## Operating Instructions

### 1. Power On/Off and Volume Adjustment

- **Power On:** Rotate the Power/Volume knob clockwise until you hear a click. The display will light up.
- **Power Off:** Rotate the Power/Volume knob counter-clockwise until you hear a click. The display will turn off.
- **Volume Adjustment:** After powering on, rotate the Power/Volume knob clockwise to increase volume and counter-clockwise to decrease volume.

### 2. Channel Selection

- Rotate the Channel Switch knob on top of the radio to select your desired channel. The selected channel number will be displayed on the screen.

### 3. Transmitting and Receiving

- **Receiving:** When the radio is on and tuned to an active channel, it will automatically receive incoming transmissions.
- **Transmitting:** Press and hold the PTT (Push-To-Talk) button on the side of the radio. Speak clearly into the microphone. Release the PTT button to stop transmitting and return to receive mode.

### 4. Menu Navigation

- Press the **MENU** key to enter the main menu.
- Use the Up/Down arrow keys on the keypad to scroll through menu options.
- Press **MENU** again to select an option or confirm a setting.
- Press the **EXIT** key to go back to the previous menu level or exit the menu entirely.
- The SK1, SK2, and SK3 keys can be programmed for quick access to frequently used functions via PC programming software.

### 5. Digital and Analog Modes




Figure 4: The BAOFENG DR-1802U supports both Digital Mobile Radio (DMR) and traditional Analog modes, allowing for flexible communication.

The DR-1802U is compatible with both DMR digital and traditional analog modes. The radio can be configured to operate in either mode, allowing for smooth transition and compatibility with various radio systems. Mode selection is typically managed through channel programming.

## 6. AES256 Encryption




Figure 5: The BAOFENG DR-1802U features AES256 encryption for secure and private communications.

The radio features advanced AES256 encryption to secure your communications. When enabled, this encryption ensures that all transmissions are protected from unauthorized listening, providing enhanced privacy for sensitive information. Encryption settings are typically configured via PC programming software.

### 7. VOX Function (Voice Operated Exchange)

The VOX function allows for hands-free transmission. When enabled, the radio will automatically transmit when it detects your voice, eliminating the need to press the PTT button. Adjust VOX sensitivity in the menu to prevent accidental transmissions from background noise.

## Maintenance

### 1. Cleaning

- Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure the charging contacts and accessory jack are clean and free of debris.

### 2. Battery Care

- To maximize battery life, avoid overcharging or completely draining the battery frequently.
- Store the battery in a cool, dry place when not in use for extended periods.
- If the battery is not used for a long time, charge it periodically to maintain its capacity.

### 3. Storage

- Store the radio in a dry, dust-free environment, away from direct sunlight and extreme temperatures.
- Remove the battery if storing the radio for an extended period to prevent potential damage.

## Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Radio does not power on | Battery is low or not installed correctly. | Charge the battery. Ensure the battery is securely attached. |
| Cannot transmit or receive | Incorrect channel selected, antenna not attached, or out of range. | Verify channel. Ensure antenna is securely attached. Move closer to other radios. |
| Poor audio quality | Low volume, interference, or radio out of range. | Adjust volume. Check for sources of interference. Move closer to other radios. |
| Battery not charging | Charger or cable faulty, or improper connection. | Check charger and cable connections. Try a different USB-C cable or power source. Ensure radio/battery is correctly seated in the dock. |

## Specifications

| Feature | Detail |
|---|---|
| Model Number | DR-1802U |
| Dimensions (H x W x D) | 4.72 x 2.16 x 1.37 inches (120 x 55 x 35 mm) |
| Number of Channels | 1024 |
| Frequency Range | UHF 450-470 MHz |
| Talking Range Maximum | 5 Kilometers (approx. 3.1 miles) |
| Voltage | 7.4 Volts (DC) |
| Water Resistance Level | Not Water Resistant |
| Encryption | AES256 |
| Display | 1.77-inch |
| Charging | USB-C, Charging Dock |

## Warranty and Support

### Warranty Information

The BAOFENG DR-1802U comes with a**1-year warranty** provided exclusively through "Shiqun Electronics Co., Ltd". Please retain your proof of purchase for warranty claims.

### Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact the seller or manufacturer directly. Refer to your purchase documentation for specific contact details.
You may also visit the official BAOFENG website for additional resources and support information.


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