BAOFENG DM 1701

BAOFENG DM-1701 Dual Band DMR/Analog Two Way Radio Instruction Manual

Model: DM-1701

1. Introduction

The BAOFENG DM-1701 is a versatile dual-band, dual-time slot DMR/Analog two-way radio designed for amateur radio enthusiasts. It offers extensive channel capacity and advanced features for reliable communication. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your DM-1701 radio.



Figure 1: BAOFENG DM-1701 Radio with Included Accessories

2. What's in the Box

Upon unboxing your BAOFENG DM-1701, please ensure all the following items are present:

- DM-1701 Radio Unit
- Antenna

- 2200mAh Lithium-Ion Battery
- Desktop Charger with AC Adapter
- Belt Clip
- Wrist Strap
- Programming Cable (USB)
- PTT Earpiece
- User's Manual (this document)



Figure 2: Contents of the DM-1701 Retail Package

3. Product Features

The DM-1701 radio is equipped with a range of features to enhance your communication experience:

- **Digital & Analog Compatibility:** Supports both digital (DMR) and analog modes, including dual band operation. FCC Part90 Certification ID: 2AJGM-DM1701.
- **Extensive Channel Capacity:** Features 3,000 Channels, 10,000 Digital Talk Groups, and 120,000 Contacts.
- **OpenGD77 Support:** Compatible with OpenGD77 firmware for advanced customization.
- **1.77" Color TFT Display:** Provides clear visibility of radio status and menu options.
- **Multi-functional Operation:** Supports manual programming, DTMF, VFO, SMS, emergency alarm, digital monitor mode, CTCSS and CDCSS, color codes, and DMR encryption.
- **Customizable Keys:** Five programmable keys for quick access to frequently used features.
- **DMO True 2 Time Slot:** Direct mode dual slot communication allows two groups of calls on a single frequency, improving efficiency and saving spectrum resources. Compatible with MOTOTRBO Tier I & II and other DMR radios.

- **Long Battery Life:** Equipped with a 2200mAh Lithium-Ion battery, offering up to 48 hours of standby time and up to 12 hours of working time.
- **Durable Design:** Features a hardened outer casing with an ergonomic and comfortable design.



Figure 3: DM-1701 Radio Components Overview



Figure 4: Customizable Keys and Programming Software Interface



Figure 5: Battery Life and Standby Time

4. Setup

4.1. Battery Installation and Charging

1. Align the battery pack with the grooves on the back of the radio.
2. Slide the battery upwards until it clicks into place.
3. To remove, push the battery release latch (usually at the bottom of the battery) and slide the battery downwards.
4. Place the radio (with battery installed) into the desktop charger. Ensure the charging contacts align.
5. Connect the AC adapter to the desktop charger and plug it into a power outlet. The indicator light on the charger will show charging status.

4.2. Antenna Installation

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

4.3. Initial Power On and Password

Turn the Power/Volume knob clockwise to power on the radio. The initial password for the device is **00000000**. You can change or disable this password directly through the keypad menu.

4.4. Software and Firmware Setup

The DM-1701 CPS (Customer Programming Software) supports mass editing of channels and contact IDs, simplifying codeplug creation. Firmware and software upgrades are life-time-free and available from the Radioddity official site. The programming cable is equipped with a driver that supports Windows XP/7/10. macOS is not supported for programming software, but keypad operation is available.

Video 1: Baofeng DM-1701 DMR Overview and Setup. This video demonstrates the unboxing, basic features, and initial setup steps including connecting the programming cable.

5. Operating the Radio

5.1. Basic Operation

- **Power On/Off and Volume:** Rotate the top-left knob to power on/off and adjust volume.
- **Channel Selection:** Rotate the top-right Channel Knob to quickly select channels.
- **Push-to-Talk (PTT) Button:** Located on the left side of the radio. Press and hold to transmit, release to receive.
- **Menu Navigation:** Use the Menu button and arrow keys (up/down) to navigate through the radio's menu system. Confirm selections with the 'Confirm' button.

5.2. Digital Mobile Radio (DMR) Functions

The DM-1701 supports DMR operation, offering enhanced audio quality and efficient spectrum usage.

- **Talk Groups:** Organize communications into specific groups. The radio supports 10,000 Digital Talk Groups.
- **Contacts:** Store up to 120,000 contacts for direct private calls.
- **True 2 Time Slot:** Allows two simultaneous conversations on a single frequency, effectively doubling channel capacity.

5.3. Analog Functions

The radio also supports traditional analog communication modes.

- **VFO Mode:** Allows direct frequency input for analog channels.
- **CTCSS/CDCSS:** Use these tones for selective signaling in analog mode.

5.4. Advanced Features

- **SMS Function:** Send and receive text messages between DMR radios.
- **Emergency Alarm:** Activate an alarm in emergency situations.
- **Digital Monitor Mode:** Monitor digital traffic on a channel.



Figure 6: Global Communication with DM-1701



Figure 7: Switch Working Mode Anytime (Digital/Analog)

6. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or solvents.
- **Battery Care:** Avoid overcharging or completely draining the battery. Store the battery in a cool, dry place when not in use for extended periods.
- **Antenna Care:** Handle the antenna carefully to prevent bending or breaking.
- **Water Resistance:** The radio has a waterproof rating, but avoid submerging it in water for prolonged periods or exposing it to high-pressure water jets.

7. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on	Low or dead battery; Incorrect battery installation	Charge the battery; Reinstall the battery correctly
Cannot transmit or receive	Incorrect frequency/channel; Antenna not connected; Low battery; Repeater/Talk Group issue	Verify frequency/channel settings; Ensure antenna is securely attached; Charge battery; Check repeater status or Talk Group configuration
Poor audio quality	Weak signal; Incorrect squelch setting; Damaged microphone/speaker	Move closer to the other radio/repeater; Adjust squelch level; Contact support for repair
Programming software not working	Incorrect driver; Software compatibility issue (e.g., macOS); Cable not connected properly	Ensure correct driver installation; Use Windows 7/8/10; Reconnect programming cable; Refer to online programming guides

8. Specifications

Feature	Specification

Feature	Specification
Model Number	DM 1701
Dimensions	8.27 x 4.33 x 4.72 inches (210 x 110 x 120 mm)
Weight	1.48 pounds (0.67 kg)
Battery Type	1 Lithium Ion battery (2200mAh)
Number of Channels	3000
Frequency Range	420-450MHz (UHF, VHF)
Talking Range Maximum	10 Miles (approx. 6.2 miles effective)
Display	1.77" Color TFT Display
Water Resistance Level	Waterproof
Country of Origin	China
Date First Available	April 29, 2019



Figure 8: DM-1701 Size and Weight

9. Warranty and Support

The BAOFENG DM-1701 comes with a standard manufacturer's warranty. For specific warranty details, please refer to the warranty card included in your product packaging or contact BAOFENG customer support.

For technical assistance, software downloads, and firmware updates, please visit the official Radioddity website or contact their customer service. They provide life-time-free firmware and software upgrades for new functions.

Note: The programming software does not support macOS systems. Programming can be done via keypad operation on the device itself.

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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.

Name

Anonymous

Email

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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