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Anytone AT-D878UVII

Anytone AT-D878UVII Dual-Band DMR Handheld Instruction Manual

Model: AT-D878UVII | Brand: Anytone

1. INTRODUCTION

The Anytone AT-D878UVII is a versatile dual-band Digital Mobile Radio (DMR) handheld device designed for reliable communication across VHF and UHF frequencies. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your radio to ensure optimal performance.

Key features include dual-mode digital and analog capabilities, a large color display, built-in GPS and APRS TX, and an upgraded USB Type-C rechargeable battery. With 2GB of memory, it supports up to 500,000 digital contacts and 250 zones, each with up to 250 channels. The radio is FCC Part 90 certified, making it suitable for various professional and amateur applications.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Anytone AT-D878UVII Radio Unit
- 3100mAh USB Type-C Battery
- Charging Cradle with Power Supply
- USB Cable (for charging and programming)
- Programming Cable
- Belt Clip
- Lanyard
- Antenna
- Printed User Manual

3. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your AT-D878UVII radio.



Figure 3.1: Front view of the Anytone AT-D878UVII radio, highlighting the display, keypad, and control knobs.



Figure 3.2: The Anytone AT-D878UVII radio alongside its detached battery, illustrating the USB Type-C charging port on the battery unit.



Figure 3.3: A detailed view of the USB Type-C charging port located on the AT-D878UVII battery.

4. SETUP

4.1 Battery Installation and Charging

1. Align the battery with the grooves on the back of the radio.
2. Slide the battery upwards until it clicks securely into place.
3. To charge, connect the USB Type-C cable directly to the battery's port or place the radio in the charging cradle. The charging indicator will show the status.

4.2 Antenna Attachment

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

5. OPERATING INSTRUCTIONS

5.1 Power On/Off and Volume Control

1. To power on/off, rotate the top-left knob clockwise/counter-clockwise until you hear a click.
2. Adjust the volume by rotating the same knob.

5.2 Channel Selection (VFO/Memory)

The radio supports both VFO (Variable Frequency Oscillator) mode for direct frequency input and Memory mode for pre-programmed channels.

- Use the navigation buttons or the top-right knob to select channels or adjust frequencies.
- Press the V/M button to switch between VFO and Memory modes.

5.3 DMR and Analog Mode Switching

The AT-D878UVII supports both Digital Mobile Radio (DMR) and traditional Analog communication.

- The radio automatically detects the mode for pre-programmed channels.
- In VFO mode, you can manually select the desired mode through the menu settings.

5.4 GPS and APRS TX

The integrated GPS module allows for location tracking, and APRS TX enables automatic position reporting.

- Access GPS and APRS settings via the main menu to configure reporting intervals and other parameters.

5.5 Programming and Codeplugs

The radio's extensive features are best managed through its Customer Programming Software (CPS). A codeplug is a configuration file that contains all your radio's settings, including channels, zones, contacts, and talkgroups.

For a detailed guide on understanding and creating codeplugs, refer to the video below. While the video demonstrates a similar model, the principles of codeplug creation and management are applicable to your AT-D878UVII.

Video 5.1: An Easy Intro to DMR Codeplugs. This video demonstrates the process of creating and managing codeplugs, a fundamental aspect of configuring your DMR radio. The concepts shown are applicable to the Anytone AT-D878UVII, though a different model is used for demonstration.

5.6 AES256 Encryption

The AT-D878UVII supports AES256 encryption for secure digital communications, primarily for commercial use.

Video 5.2: Digital/Analog Walkie-Talkie with AES256. This video illustrates the AES256 encryption feature, which provides enhanced security for digital transmissions. While a different radio model is shown, the encryption functionality is similar to that found in the Anytone AT-D878UVII.

5.7 Bluetooth PTT Button

The radio includes Bluetooth connectivity, allowing for wireless operation with a Push-To-Talk (PTT) button.

Video 5.3: BTECH DMR-6X2 PRO Feature Highlights. This video demonstrates various features including Bluetooth PTT functionality, which is also available on the Anytone AT-D878UVII for convenient wireless operation.

5.8 Text Messaging

Send and receive text messages over the DMR network.

- Navigate to the 'Messages' option in the main menu to compose, send, and view messages.

5.9 Copying Frequencies

The radio supports copying frequencies and sub-tones from other radios, simplifying channel setup.

Video 5.4: Copy a frequency and sub tone from other radio nearby. This video demonstrates how to quickly copy frequency and sub-tone settings from another radio, a useful feature for rapid channel configuration on your Anytone AT-D878UVII.

6. MAINTENANCE

6.1 Battery Care

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

6.2 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 storage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on	Low or dead battery	Charge the battery fully.
No audio reception	Volume too low, incorrect frequency/channel, squelch too high	Increase volume, verify frequency/channel, adjust squelch level.
Cannot transmit	Incorrect frequency, low battery, transmit inhibit enabled	Verify frequency, charge battery, check programming for transmit inhibit.
GPS not acquiring signal	Obstructed view of sky, indoor use	Move to an open outdoor area with clear sky view.

8. SPECIFICATIONS

Feature	Detail
Model Number	AT-D878UVII

Feature	Detail
Frequency Range	136-174MHz (VHF), 400-480MHz (UHF)
Number of Channels	4000
Digital Contacts	500,000
Zones	250 (up to 250 channels per zone)
Battery Capacity	3100mAh (USB Type-C)
Special Features	Dual Band, Digital DMR, Analog, GPS, APRS TX, AES256 Encryption
Talking Range Maximum	5 Miles
Item Weight	2 pounds
Water Resistance Level	Not Water Resistant
Voltage	12 Volts (DC)

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The Anytone AT-D878UVII radio comes with a 1-Year Limited Warranty from the manufacturer, 12 Volt Power. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact 12 Volt Power customer support through their official channels. Refer to the product packaging or the manufacturer's website for the most current contact information.