BridgeCom Systems AT-D878UVII Plus

AnyTone AT-D878UVII Plus Dual Band Analog/DMR Radio User Manual

Model: AT-D878UVII Plus | Brand: BridgeCom Systems

INTRODUCTION

The AnyTone AT-D878UVII Plus is a state-of-the-art dual-band analog and DMR radio, designed for robust communication. This manual provides comprehensive instructions for setting up, operating, and maintaining your radio, ensuring optimal performance and longevity. It features advanced capabilities such as APRS receive and transmit, an expanded contact list, and versatile power output options for both VHF and UHF bands.

WHAT'S IN THE BOX

Upon unboxing your AnyTone AT-D878UVII Plus, you should find the following components:

- AnyTone AT-D878UVII Plus Radio
- AnyTone 12V Battery Eliminator
- Access to FREE AT-D878 course on BridgeCom University
- Standard accessories (battery, antenna, belt clip, charger, USB cable, wrist strap) -*Note: Specific accessories may vary based on package.*

Image: Contents of the AnyTone AT-D878UVII Plus package, including the radio, battery eliminator, Bluetooth PTT button, and charging accessories.

KEY FEATURES

- **APRS Receive and Transmit:** The AT-D878UVII PLUS supports APRS (Automatic Packet Reporting System) for both receiving and transmitting, allowing for location tracking and messaging.

- **Expanded Contact List:** Features an upgraded 500,000 contact list capacity, significantly larger than previous models, to accommodate a growing DMR community.

- **Battery Eliminator Compatibility:** The included 12V Battery Eliminator is compatible with both the AnyTone AT-D868UV and AT-D878UV models.

- **Comprehensive Training Course:** Includes access to a FREE AT-D878 course on BridgeCom University, providing step-by-step video tutorials for quick setup and contact making.

- **User-Friendly Interface:** Designed with an easy-to-use interface and programming software to simplify operation and contact management.

- **Dual Band Operation:** Operates on both VHF (7/5/2.5/0.2W) and UHF (6/5/2.5/0.2W) bands with selectable TX power output.
- **Digital and Analog Modes:** Supports both Digital Mobile Radio (DMR) Tier I and II, as well as traditional analog communication.
- **Bluetooth PTT:** Includes a Bluetooth Push-To-Talk button for effortless hands-free communication.

Image: The AnyTone AT-D878UVII Plus demonstrating its Bluetooth connectivity with the included PTT button for hands-free operation.

SETUP GUIDE

1. Charging the Battery

Before first use, fully charge the radio's battery. Connect the charger base to a power outlet and place the radio (with battery attached) or the battery alone into the charging cradle. The indicator light will show charging status.

Image: The AnyTone AT-D878UVII Plus radio shown with its 12V battery eliminator and Bluetooth PTT accessory.

2. Attaching the Antenna and Belt Clip

Screw the antenna clockwise onto the connector at the top of the radio until secure. Attach the belt clip to the back of the radio using the provided screws.

3. Initial Power On and Configuration

Press and hold the power button to turn on the radio. Follow the on-screen prompts for initial setup, including setting the date and time. For advanced configuration and programming, refer to the BridgeCom University training course.

OPERATING INSTRUCTIONS

1. Channel Selection

Use the rotary knob or the keypad to navigate through channels and zones. The display will show the current channel name and frequency.

2. Transmitting and Receiving

To transmit, press and hold the PTT (Push-To-Talk) button on the side of the radio or the Bluetooth PTT accessory. Speak clearly into the microphone. Release the PTT button to receive. Ensure you are on an appropriate frequency and have the necessary license to transmit.

3. Digital Mobile Radio (DMR) Operation

The AT-D878UVII Plus supports DMR Tier I and II. To operate in DMR mode, you will need to program talkgroups, color codes, and time slots using the programming software. The radio's 500,000 contact list allows for extensive DMR network access.

Image: The AnyTone AT-D878UVII Plus display highlighting its 500,000 contact list capacity, along with 4,000 memory channels and 10,000 talk groups.

4. APRS Functionality

The radio's built-in GPS enables APRS receive and transmit. Configure APRS settings in the menu to send your location data or receive data from other APRS users. This feature is particularly useful for mobile operations and tracking.
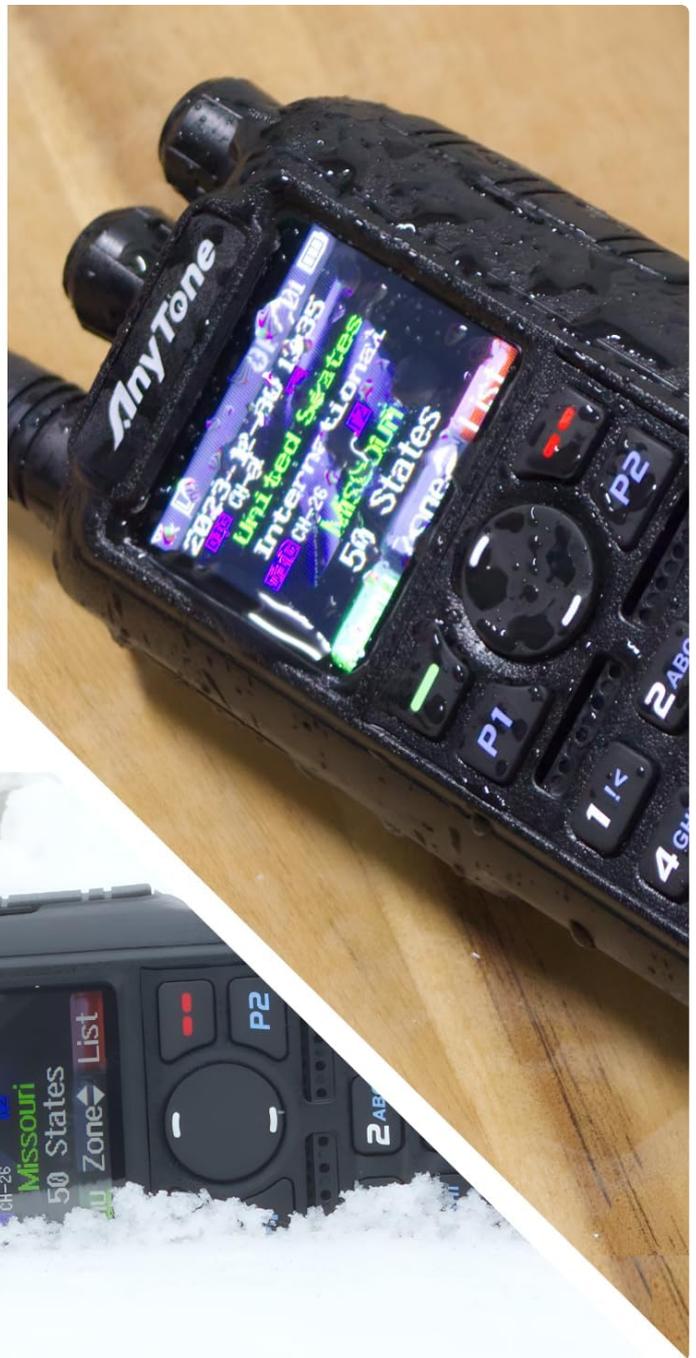
Image: The AnyTone AT-D878UVII Plus demonstrating its GPS capabilities for APRS transmit and receive, useful for mobile operations.

MAINTENANCE

- **Cleaning:** Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or solvents.
- **Battery Care:** Store the battery in a cool, dry place when not in use. Avoid overcharging or completely draining the battery frequently to prolong its lifespan.
- **Antenna Inspection:** Regularly check the antenna for any damage or bends. A damaged antenna can affect performance.
- **Software Updates:** Periodically check the BridgeCom Systems website for firmware and software updates to ensure your radio has the latest features and bug fixes.

TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Radio does not power on	Low or dead battery; Battery not properly seated	Charge the battery; Re-seat the battery firmly.
Cannot transmit or receive	Incorrect frequency/channel; Antenna not connected; Incorrect DMR settings (talkgroup, color code, timeslot)	Verify channel settings; Ensure antenna is securely attached; Check DMR programming.
Poor audio quality	Weak signal; Damaged antenna; Microphone obstruction	Move to an area with better signal; Inspect/replace antenna; Clear microphone.
Bluetooth PTT not connecting	PTT battery low; Not paired correctly; Out of range	Charge/replace PTT battery; Re-pair the PTT with the radio; Ensure PTT is within range.

SPECIFICATIONS

Feature	Detail
Model Number	AT-D878UVII Plus
Brand	BridgeCom Systems
Number of Channels	100
Frequency Range	VHF: 30-300 MHz, UHF: 300-3000 MHz
Tuner Technology	UHF, VHF
Voltage	12 Volts
Water Resistance Level	Not Water Resistant
Connectivity Protocol	Bluetooth
Compatible Devices	AnyTone AT-D868UV, AnyTone AT-D878UV
First Available Date	January 6, 2023

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official BridgeCom Systems website. The included FREE AT-D878 course on BridgeCom University also serves as an excellent resource for operational guidance and troubleshooting.

BridgeCom Systems Store: Visit Store