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BridgeCom Systems AT-D578UVIII PLUS

BridgeCom Systems AnyTone AT-D578UVIII Plus Tri-Band DMR Mobile Radio Instruction Manual

Model: AT-D578UVIII PLUS

1. INTRODUCTION

This manual provides essential instructions for the proper setup, operation, and maintenance of your BridgeCom Systems AnyTone AT-D578UVIII Plus Tri-Band DMR Mobile Radio. Designed for amateur radio use, this device offers advanced communication capabilities across VHF, UHF, and 220MHz bands, including Digital Mobile Radio (DMR) functionality.

Key features include Bluetooth audio connectivity for hands-free operation, a powerful built-in speaker for clear audio, and comprehensive learning support materials to assist users in maximizing the radio's potential.



Image 1.1: The AnyTone AT-D578UVIII Plus mobile radio, featuring the main unit, hand microphone, and a wireless Bluetooth PTT button.

2. SETUP

2.1 Unpacking and Component Identification

Carefully unpack all components. The package typically includes the AT-D578UVIII Plus radio unit, hand microphone, power cable, mounting bracket, and a GPS antenna. Refer to the packing list to ensure all items are present.

2.2 Power Connection

Connect the provided power cable to the radio's power input port. Ensure proper polarity. Connect the other end to a stable 13.8V DC power source capable of supplying sufficient current for the radio's maximum output (e.g., 50W VHF/45W UHF).

2.3 Antenna Connection

Connect your appropriate VHF/UHF/220MHz antenna to the antenna connector on the rear of the radio. Ensure the connection is secure to prevent signal loss and potential damage.



Image 2.1: Rear panel of the radio, highlighting the external GPS connector, external speaker connector, fans, and antenna connector.

2.4 Microphone and Bluetooth PTT

Connect the hand microphone to the front panel port. For wireless operation, pair the included Bluetooth PTT button with the radio according to the Bluetooth pairing instructions found in the detailed user guide.

2.5 GPS Antenna

Connect the external GPS antenna to the dedicated GPS connector on the rear of the unit. Position the GPS antenna in a location with a clear view of the sky for optimal signal reception, enabling APRS location services.

3. OPERATING INSTRUCTIONS

3.1 Power On/Off

Press and hold the power button on the front panel to turn the radio on or off. The display will illuminate upon

startup.

3.2 Basic Navigation and Display

The radio features a color display and several programmable function keys (P1-P6) for quick access to features. Use the rotary knobs and menu buttons to navigate through settings and channels.



Image 3.1: The radio's display showing active frequencies and menu options.

3.3 Mode Selection (Analog/DMR)

The AT-D578UVIII Plus supports both analog and Digital Mobile Radio (DMR) modes. You can switch between modes via the menu or pre-programmed channels. Refer to the detailed programming guide for setting up DMR talk groups and contacts.

3.4 Frequency and Channel Selection

Use the main rotary knob to tune frequencies in VFO mode or select pre-programmed channels in Memory mode. The radio operates across 144-148 MHz (VHF), 420-450 MHz (UHF), and 222-225 MHz (220MHz band).

3.5 APRS Functionality

The radio supports APRS (Automatic Packet Reporting System) for transmitting and receiving location data. Ensure the GPS antenna is connected and receiving a signal for accurate position reporting.

3.6 Bluetooth Audio

Once paired, Bluetooth audio accessories can be used for hands-free communication. This includes the wireless PTT button and compatible Bluetooth headsets.



Image 3.2: User operating the radio while driving, demonstrating mobile use.



Image 3.3: User operating the radio in a fixed station setup.

3.7 Microphone Gain Adjustment

The microphone gain can be adjusted for both analog and digital modes to optimize transmitted audio quality.

Access this setting through the radio's menu system.

4. MAINTENANCE

4.1 General Care

Keep the radio clean and free from dust and moisture. Use a soft, dry cloth for cleaning the exterior. Avoid using harsh chemicals or abrasive materials.

4.2 Environmental Considerations

Operate the radio within its specified temperature and humidity ranges. While the radio is water-resistant, it is not waterproof and should not be submerged.

4.3 Firmware Updates

Periodically check the manufacturer's website for firmware updates. Updating the firmware can improve performance, add new features, and resolve issues.

5. TROUBLESHOOTING

If you encounter issues with your AT-D578UVIII Plus, consider the following basic troubleshooting steps:

- **No Power:** Check power cable connections and ensure the power supply is active and providing 13.8V DC.
- **No Audio:** Verify volume settings, speaker connections, and ensure no external audio devices are interfering.
- **Poor Transmission/Reception:** Check antenna connection, SWR, and ensure you are on the correct frequency and mode.
- **GPS Not Locking:** Ensure the GPS antenna has a clear view of the sky and is properly connected.
- **Bluetooth Pairing Issues:** Ensure the radio's Bluetooth is enabled and the accessory is in pairing mode.

For more complex issues, refer to the detailed user manual or contact BridgeCom Systems support.

6. SPECIFICATIONS

The following table outlines the key technical specifications for the AnyTone AT-D578UVIII Plus mobile radio:

Feature	Specification
Model Number	AT-D578UVIII PLUS
Item Weight	4.2 pounds
Product Dimensions	7.5 x 5.5 x 2 inches
Frequency Range	144-148 MHz, 420-450 MHz, 222-225 MHz
Power Output	VHF: 50W, UHF: 45W, 220MHz: 5W
Number of Channels	4000
Voltage	13.8 Volts

Feature	Specification
Special Features	APRS Location Data RX/TX, Bluetooth Audio
Water Resistance Level	Water Resistant
Talking Range Maximum	30 Mile (dependent on conditions)



Image 6.1: Radio display indicating power output levels for different frequency bands.

7. WARRANTY AND SUPPORT

7.1 Product Warranty

The AnyTone AT-D578UVIII Plus comes with a 1-year manufacturer's warranty. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the documentation provided with your product or contact BridgeCom Systems directly.

7.2 Extended Protection Plans

Optional extended protection plans may be available for purchase, offering coverage beyond the standard manufacturer's warranty. These plans typically include 3-Year Protection Plan options.

7.3 Learning and Technical Support

BridgeCom Systems offers extensive learning resources, including the "BridgeCom University" with step-by-step video tutorials, to help users understand and utilize all features of the radio. For technical assistance, programming support, or any other inquiries, please visit the official BridgeCom Systems website or contact their customer support team.



Image 7.1: A visual representation of the BridgeCom University platform, offering educational resources.