AnyTone AT-778UV

AnyTone AT-778UV Dual Band Transceiver Mobile Radio

User Manual - Model: AT-778UV

1. Introduction

This manual provides detailed instructions for the proper installation, operation, and maintenance of your AnyTone AT-778UV Dual Band Transceiver Mobile Radio. The AT-778UV is a high-quality mobile radio designed for reliable communication across VHF and UHF frequency bands. Please read this manual thoroughly before operating the device to ensure safe and efficient use.

2. Safety Information

Adherence to the following safety guidelines is crucial for preventing damage to the radio and ensuring user safety:

- **FCC Compliance:** This device complies with Part 15B and Part 97 of FCC rules. The FCC ID is T4K-778UV. Operation is subject to the condition that this device does not cause harmful interference.
- **Power Supply:** Use only a stable 13.8V DC power supply. Ensure correct polarity when connecting the power cable. Incorrect voltage or polarity can damage the unit.
- **Antenna:** Connect a properly tuned antenna before transmitting. Transmitting without an antenna or with a mismatched antenna can cause damage to the radio's final amplifier.
- **Heat Dissipation:** The radio's full alloy body is designed for heat radiation. Ensure adequate ventilation around the unit during operation to prevent overheating.
- **Environment:** Avoid exposing the radio to extreme temperatures, direct sunlight, dust, or moisture. This product is not water resistant.

3. Package Contents

Upon unpacking, please verify that all items listed below are present and in good condition:

- 1 x AnyTone AT-778UV Radio Unit
- 1 x Microphone with Keypad
- 1 x Mobile Mounting Bracket
- 1 x DC Power Cable with Fuse Holder
- Other small accessories (e.g., screws, washers, spare fuse)

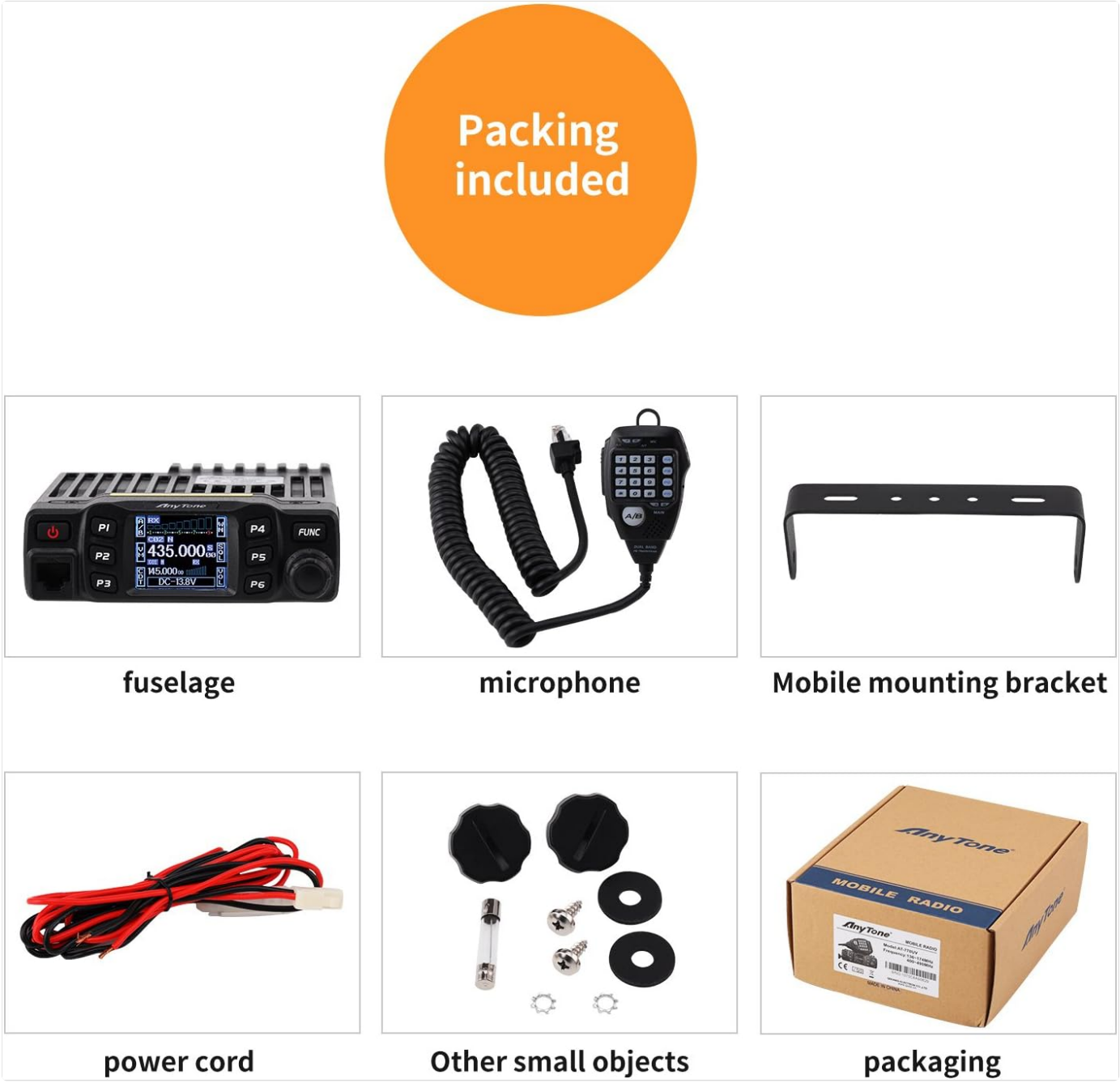


Figure 3.1: Included components in the AnyTone AT-778UV package.

4. Product Overview

The AnyTone AT-778UV features a compact design with a clear LCD display and an intuitive microphone keypad for ease of use.



Figure 4.1: Front view of the AnyTone AT-778UV radio and microphone.

4.1 Front Panel and Microphone Layout



Figure 4.2: Detailed diagram of the radio's front panel, microphone, and rear connections.

Front Side:

- **Power On/Off / Mute:** Button to power the unit on or off, and to mute audio.
- **LCD Display:** Bright, 180-degree rotatable TFT LCD for displaying frequency, status, and menu information.
- **P1-P6 Buttons:** Programmable function keys.
- **FUNC Button:** Function key / function group key.
- **Channel Switch/Push Button/Key Lock:** Rotary encoder for channel selection and menu navigation, with a push function for selection or locking keys.
- **Microphone Jack:** Port for connecting the supplied microphone.

Microphone:

- **PTT (Push To Talk):** Button for transmitting.
- **Keypad:** Numeric and function keys for direct frequency entry and menu navigation.
- **A/B Button:** Band switch.
- **TX/RX Indicator:** LED indicating transmit or receive status.
- **UP/DOWN Buttons:** For navigating menus or adjusting settings.
- **Lock UP/DOWN:** Keypad lock function.

Back Side:

- **Antenna Connector:** SO-239 type connector for external antenna.
- **Ex-Speaker Jack:** Port for connecting an optional external speaker.
- **Power Cable:** Connection point for the DC power cable.

5. Setup

Proper setup ensures optimal performance and longevity of your radio.

5.1 Mounting the Radio

Use the provided mobile mounting bracket to secure the radio in a stable location. Ensure the mounting location allows for adequate ventilation around the unit, especially the heat sink fins on the back and sides.

5.2 Power Connection

Connect the supplied DC power cable to the power input on the rear of the radio. Connect the other end of the cable to a stable 13.8V DC power source capable of supplying sufficient current (e.g., a regulated power supply or vehicle battery). Observe correct polarity: red wire to positive (+), black wire to negative (-). The cable includes an inline fuse for protection.

5.3 Antenna Connection

Connect a suitable VHF/UHF dual-band antenna to the antenna connector on the rear of the radio. Ensure the antenna cable is securely fastened. **Never transmit without an antenna connected.**

5.4 Microphone Connection

Plug the microphone cable into the microphone jack on the front panel of the radio. Ensure the connector is fully inserted and secured.

5.5 Software Programming

For advanced configuration, channel programming, and custom settings, it is recommended to use the dedicated

programming software. This software can typically be downloaded from the official AnyTone website. A USB programming cable (sold separately) is required to connect the radio to a computer for programming.

6. Operating Instructions

6.1 Power On/Off

Press and hold the **Power** button (red circle with vertical line) on the front panel to turn the radio on or off. A short press of this button will mute/unmute the audio.

6.2 Volume and Squelch Adjustment

The AT-778UV features a combined volume and squelch control. Refer to the specific instructions in the full user manual for precise adjustment, which typically involves pressing a function key followed by rotating the channel knob.

6.3 Frequency and Channel Selection

Rotate the main channel knob to change frequencies or channels. Use the microphone keypad for direct frequency entry. The radio supports a receiver frequency range of VHF: 136-174MHz and UHF: 400-490MHz. The transmitter frequency range is 144-148MHz and 420-450MHz.

6.4 Transmit Power Levels

The radio offers multiple transmit power levels: 25W, 15W, and 5W. These can be adjusted via the menu system to suit your communication needs and conserve power.

6.5 Call Functions

The AT-778UV supports various call types including single call, group call, selective call, and emergency call. Refer to the detailed programming instructions for setting up these functions.

6.6 VOX Function

The Voice Operated Transmit (VOX) function allows for hands-free transmission. When enabled, the radio will automatically transmit when it detects your voice.

6.7 CTCSS/DCS Scan

The radio includes CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digital Coded Squelch) scan functions, which help filter out unwanted signals and provide clearer communication.

7. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your AnyTone AT-778UV radio.

- **Cleaning:** Use a soft, dry cloth to clean the radio's exterior. For stubborn dirt, a slightly damp cloth with mild detergent can be used, but ensure no liquid enters the unit.
- **Ventilation:** Periodically check that the heat sink fins on the rear and sides of the radio are free from dust and debris to ensure efficient heat dissipation. The built-in cooling fan assists in maintaining optimal operating temperature.
- **Connections:** Ensure all cable connections (power, antenna, microphone) are secure and free from corrosion.

8. Troubleshooting

If you encounter issues with your AT-778UV, refer to the following common troubleshooting steps:

Problem	Possible Cause / Solution
Radio does not power on.	Check power cable connection. Verify power supply is providing 13.8V DC. Check the inline fuse on the power cable.
No audio from speaker.	Ensure volume is turned up. Check squelch level (reduce if too high). Verify external speaker (if used) is connected correctly.
Cannot transmit or low transmit power.	Ensure antenna is properly connected and tuned. Check transmit power setting (ensure it's not set to low). Verify PTT button on microphone is functioning.
Poor receive sensitivity.	Check antenna connection and condition. Ensure correct frequency/channel is selected. Verify squelch level is not set too high.
Microphone keypad unresponsive.	Check if the microphone's keypad lock function is engaged. Ensure the microphone cable is securely connected.

For more complex issues or if the problem persists, consult the comprehensive user manual available on the AnyTone website or contact customer support.

9. Specifications

Key technical specifications for the AnyTone AT-778UV:

Feature	Specification
Model Number	AT-778UV
Receiver Frequency Range	VHF: 136-174MHz, UHF: 400-490MHz
Transmitter Frequency Range	144-148MHz, 420-450MHz
Transmit Power Output	25W / 15W / 5W (VHF/UHF)
Number of Channels	200
Operating Voltage	13.8 Volts DC
Product Dimensions (Radio Unit)	4.7 x 5.8 x 1.5 inches (11.9 x 14.7 x 3.8 cm)
Item Weight	2.61 pounds (1.18 kg)
Display Type	180-degree rotatable TFT LCD
Special Features	Long Range, VOX, CTCSS/DCS Scan, Narrow Band Compliant



Figure 9.1: Physical dimensions of the radio unit and microphone.

10. Warranty and Support

For information regarding warranty coverage, please refer to the documentation provided with your purchase or visit the official AnyTone website. For technical support, software downloads, or further assistance, please visit the support section of the AnyTone website. The user manual often contains specific contact information for customer service.

Note: The programming software for this radio can be downloaded from the support section of the AnyTone website. It is essential for advanced configuration and channel management.

11. Official Product Videos

No official product videos from the seller were available in the provided data for embedding in this manual.

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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.

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