AnyTone AT-779UV

AnyTone AT-779UV Mini Dual Band Mobile Transceiver User Manual

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your AnyTone AT-779UV Mini Dual Band Mobile Transceiver. Designed for vehicle use, this radio offers stable and reliable communication with advanced features. Please read this manual thoroughly to ensure proper use and to maximize the performance of your device.



Image: The AnyTone AT-779UV Mini Dual Band Mobile Transceiver with its attached microphone, showcasing its compact design.

Product Overview

The AnyTone AT-779UV is a compact dual-band mobile transceiver supporting VHF and UHF frequencies. It features a robust design, an intuitive interface, and a range of functions for diverse communication needs.

Components and Controls

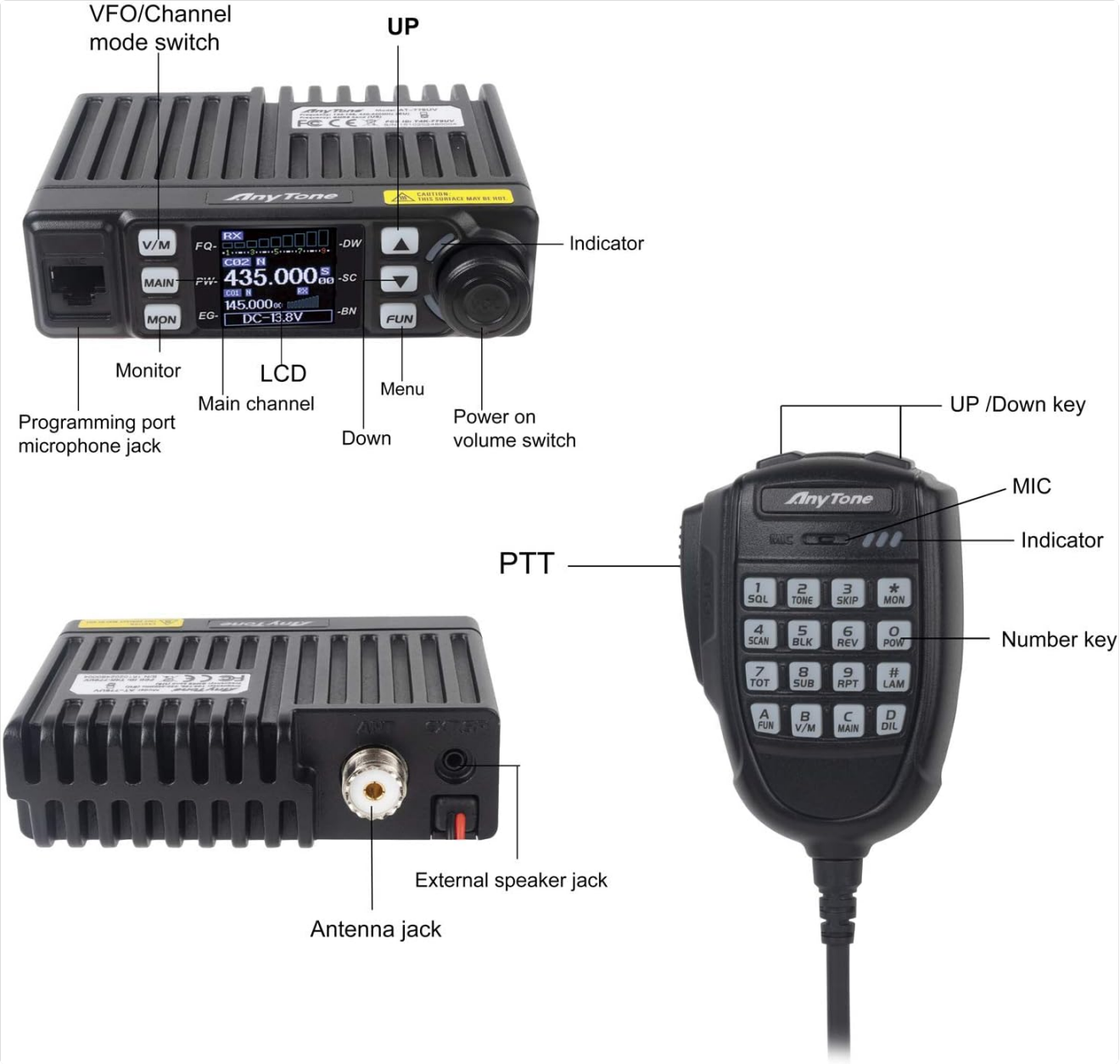


Image: Labeled diagram illustrating the main components and controls of the AT-779UV radio unit and its microphone.

- **VFO/Channel Mode Switch:** Toggles between VFO (Variable Frequency Oscillator) and Memory Channel modes.
- **UP/Down Keys:** Used for frequency adjustment, menu navigation, and channel selection.
- **Indicator:** Provides visual feedback on radio status (e.g., transmit, receive).
- **Monitor Button (MON):** Opens the squelch to listen for weak signals.
- **Main Channel Button (MAIN):** Selects the main operating channel.
- **LCD Display:** Shows frequency, channel number, and various operational icons.
- **Power On/Volume Switch:** Controls power and audio output level.
- **Menu/Function Button (FUN):** Accesses the radio's menu system.
- **Programming Port/Microphone Jack:** Connects the microphone and is used for programming the radio via computer.
- **PTT (Push-To-Talk) Button:** Activates transmission on the microphone.
- **Number Keypad:** Used for direct frequency entry and accessing specific functions.
- **External Speaker Jack:** Connects an optional external speaker for enhanced audio.

- **Antenna Jack:** Connects the external antenna.

Setup

Unboxing and Package Contents

Carefully unpack all items from the box. Verify that all components are present according to the packing list.



Image: A visual representation of all items included in the product packaging, such as the radio unit, microphone, mounting bracket, power cable, and programming cable.

The package typically includes:

- AnyTone AT-779UV Mobile Transceiver Unit
- Handheld Microphone with Keypad
- Mounting Bracket
- DC Power Cable
- USB Programming Cable
- Hardware for Installation (screws, washers)

Installation

1. **Mounting:** Select a secure and accessible location in your vehicle for the radio unit. Use the provided mounting

bracket and hardware to firmly attach the radio. Ensure adequate ventilation around the unit.

2. **Power Connection:** Connect the supplied DC power cable to the radio's power input. Connect the red wire to the positive (+) terminal of your vehicle's 13.8V DC power source and the black wire to the negative (-) terminal. Ensure a direct connection to the battery or a fused power source capable of handling the radio's current draw.
3. **Antenna Connection:** Connect a suitable dual-band VHF/UHF antenna (not included) to the antenna jack on the rear of the radio unit. Ensure the antenna cable has a proper PL-259 connector and is securely tightened.
4. **Microphone Connection:** Plug the handheld microphone into the programming port/microphone jack on the front of the radio unit.

Programming Software

The AT-779UV radio can be programmed via computer for channel management and advanced settings. The programming software is available for download from the official AnyTone website. Use the provided USB programming cable to connect the radio to your computer. Refer to the software's specific instructions for detailed programming procedures.

Operating Instructions

Basic Operation

1. **Power On/Off:** Rotate the Power On/Volume switch clockwise to turn the radio on. Continue rotating to adjust the audio volume. Rotate counter-clockwise until it clicks to turn the radio off.
2. **Frequency/Channel Selection:**
    - In VFO mode, use the UP/Down keys on the radio or microphone to adjust the frequency.
    - In Memory Channel mode, use the UP/Down keys to select a stored channel.
    - Direct frequency entry is possible using the number keypad on the microphone.
3. **Transmit/Receive:** To transmit, press and hold the PTT button on the microphone and speak clearly into the microphone. Release the PTT button to receive.
4. **Monitor Function:** Press the MON button to temporarily open the squelch and listen for weak signals or to check for activity on a channel.

Advanced Features

- **CTCSS/DCS Tones:** Configure CTCSS (Continuous Tone-Coded Squelch System) or DCS (Digital Coded Squelch) tones for selective calling and to filter out unwanted signals. These settings are typically accessed via the radio's menu.
- **DTMF/2Tone/5Tone:** The radio supports DTMF (Dual-Tone Multi-Frequency), 2-Tone, and 5-Tone signaling for advanced communication and control functions. Refer to the menu for configuration.
- **LCD Brightness Control:** Adjust the brightness of the LCD display through the radio's menu to suit ambient lighting conditions.
- **Main Unit and Microphone Key Lock:** Enable the key lock function to prevent accidental changes to settings or transmissions. This can be set for both the radio unit and the microphone.
- **Compander Function:** The compander function can improve audio clarity, especially in noisy environments, by compressing the audio during transmission and expanding it during reception.
- **Tone Pulse Frequency:** Configurable tone pulse frequencies are available for specific repeater access or signaling requirements.
- **Noise Reduction VOX:** The Voice Operated eXchange (VOX) feature allows for hands-free transmission. Noise

reduction helps to minimize background noise during VOX operation.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the radio's exterior. For stubborn dirt, a slightly damp cloth with mild soap can be used, followed by a dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** When not in use for extended periods, store the radio in a dry, cool place away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Regularly inspect power and antenna cables for any signs of wear, damage, or corrosion. Replace damaged cables immediately to ensure safe and optimal operation.
- **Firmware Updates:** Check the AnyTone website periodically for firmware updates that may improve performance or add new features. Follow the provided instructions carefully when performing updates.

Troubleshooting

This section addresses common issues you might encounter with your AT-779UV radio.

Problem	Possible Cause	Solution
Radio does not power on.	Loose power connection, blown fuse, insufficient power supply.	Check power cable connections. Verify vehicle battery voltage. Inspect the fuse in the power cable and replace if necessary.
No audio or low audio output.	Volume too low, squelch set too high, external speaker issue.	Increase volume. Adjust squelch level. Check external speaker connection if used.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not connected, PTT button malfunction, radio in scan/monitor mode.	Verify frequency/channel settings. Ensure antenna is securely connected. Check PTT button. Exit scan or monitor mode.
Programming software not recognizing radio.	Incorrect USB driver, faulty programming cable, wrong software version.	Install correct USB drivers for the programming cable. Ensure the cable is fully inserted. Download the latest software version from the AnyTone website. Some users have reported success with Radioddity DB-20 CPS if the official software does not work.
Radio gets hot during operation.	Extended transmission, inadequate ventilation.	Avoid prolonged transmissions. Ensure the radio has sufficient airflow around its heatsink. This is normal during high-power transmissions.

Specifications

Feature	Detail
Model Number	AT-779UV

Feature	Detail
Item Weight	3.52 ounces (approximately 100 grams)
Product Dimensions	4.88 x 3.98 x 1.42 inches (12.4 x 10.1 x 3.6 cm)
Number of Channels	500 programmable memory channels
Frequency Range (Transmitter)	VHF: 144-148MHz, UHF: 420-450MHz (Default)
Frequency Range (Receiver)	VHF: 136-174MHz, UHF: 400-490MHz (Expandable via software)
Output Power	UHF >18W, VHF >20W
Voltage	13.8 Volts DC
Talking Range Maximum	10 Kilometers (dependent on terrain and antenna)
Special Features	Amateur/Professional modes, CTCSS/DCS/DTMF/2Tone/5Tone, LCD brightness control, Key lock, Compander, Tone Pulse, Noise Reduction VOX.
Water Resistance Level	Not Water Resistant
Included Components	Power cable, Microphone, Mounting bracket, Programming cable.

Warranty Information

The AnyTone AT-779UV Mobile Transceiver comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product is free from defects in material and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

Support

For any queries regarding programming software, operation, or other aspects of your AnyTone AT-779UV radio, please contact the seller directly via email. Prompt assistance will be provided upon receipt of your questions.

Ask a question about this manual

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

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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