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› QYT KT-7900D Mini Mobile Radio User Manual

QYT KT-7900D

QYT KT-7900D Mini Mobile Radio User Manual

Model: KT-7900D

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your QYT KT-7900D Mini Mobile Radio. Please read this manual thoroughly before using the device to ensure safe and efficient operation. The KT-7900D is a compact quad-band, quad-standby mobile transceiver designed for reliable communication.

2. PACKAGE CONTENTS

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

- 1 x KT-7900D Radio Unit
- 1 x Mounting Bracket
- 1 x Car Charger Power Cable
- 1 x User Manual (this document)
- 1 x Microphone with DTMF Keypad
- 1 x Screw Pack for Mounting
- 1 x Programming Cable

Standard Package



Figure 2.1: Standard package contents for the QYT KT-7900D radio.

3. PRODUCT OVERVIEW

The QYT KT-7900D features a compact design with a clear display and intuitive controls. Below are the key components of the radio unit and its microphone.

Product Details



Figure 3.1: Front and rear views of the KT-7900D radio and its microphone, highlighting key features.

3.1. Main Unit

- **Display Screen:** Shows frequency, channel number, and status indicators.
- **Power ON/Volume Knob:** Controls power and audio output level.
- **Menu Knob:** Used for navigating menus and selecting options.
- **Microphone Connector:** Port for connecting the included microphone.
- **Antenna Connector:** Standard connector for external antenna.
- **Cooling Fan:** Located on the rear for heat dissipation during operation.

3.2. Microphone

- **PTT Button:** Push-To-Talk button for transmitting.
- **DTMF Keypad:** Numeric keypad for direct frequency entry, DTMF signaling, and menu navigation.
- **Function Buttons:** Additional buttons for various radio functions (e.g., MENU, V/M, CALL, EXIT/AB).

4. SETUP

4.1. Mounting the Radio

Use the provided mounting bracket and screw pack to securely install the radio in a suitable location within your vehicle.

Ensure the location allows for adequate ventilation and easy access to controls.

4.2. Power Connection

Connect the car charger power cable to the radio's power input and then to your vehicle's 12V power outlet (cigarette lighter socket). The radio operates on 13.8V DC \pm 15%.



Figure 4.1: Connecting the radio to a car charger power supply.

4.3. Antenna Connection

Connect a suitable external antenna to the antenna connector on the rear of the radio. Ensure the antenna is properly tuned for the operating frequencies to prevent damage to the transceiver.

4.4. Microphone Connection

Plug the microphone cable into the designated microphone connector on the front panel of the radio.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off and Volume Control

Rotate the Power ON/Volume knob clockwise to turn on the radio. Continue rotating to adjust the audio output level. Rotate counter-clockwise until it clicks to turn off the radio.

5.2. Frequency Bands and Display

The KT-7900D supports quad-band operation and quad-standby, allowing monitoring of multiple frequencies simultaneously. The display shows the active frequencies across the supported bands:

- 136-174 MHz (VHF)
- 220-270 MHz
- 350-390 MHz
- 400-480 MHz (UHF)

Colorful Screen Mini Mobile FM Radio

KT-7900D

25W Output Power

200 Channels

136-174MHz

220-270MHz

350-390MHz

400-480MHz

FM Radio



Quad Band
Quad standby

Figure 5.1: The radio's display showing active frequencies across multiple bands.



Figure 5.2: The KT-7900D as a quad display, quad band mini mobile transceiver.

5.3. Channel Selection and Programming

The radio supports 200 channels. Use the menu knob or the microphone's keypad to navigate and select channels. For advanced channel programming, including repeater offsets and tone settings, it is recommended to use the provided programming cable and compatible software. Please contact the seller for software access if needed.

5.4. Transmit Power Adjustment

The KT-7900D offers switchable high and low power output modes. The maximum output power is 25W for VHF and 20W for UHF. Refer to the radio's menu for instructions on how to switch between power levels.



Figure 5.3: High and low power output options for the KT-7900D.

5.5. Squelch Functions

The radio features various squelch methods to filter out unwanted noise:

- CARRIER Squelch
- CTCSS (Continuous Tone-Coded Squelch System)
- DCS (Digital Coded Squelch)
- 5 Tone Signaling
- 2 Tone Signaling
- DTMF (Dual-Tone Multi-Frequency)

Consult the radio's menu system for configuring these squelch options.

5.6. Remote Functions

The KT-7900D supports remote functions such as Remote Stun, Remote Activate, and Remote Kill. These features are typically configured via programming software and are used for managing radio units in a fleet.

6. MAINTENANCE

6.1. General Care

Keep the radio clean and free from dust. Use a soft, dry cloth for cleaning. Avoid using harsh chemicals or solvents. Ensure the radio is not exposed to extreme temperatures or direct sunlight for prolonged periods.

6.2. Cooling System

The radio is equipped with a cooling fan to maintain optimal operating temperature during extended use. Ensure the fan vents on the rear of the unit are not obstructed to allow for proper airflow and prevent overheating.



Figure 6.1: The radio's cooling system for long-term operation.

7. TROUBLESHOOTING

If you encounter issues with your QYT KT-7900D radio, consider the following basic troubleshooting steps:

- **No Power:** Check the power cable connection and the vehicle's 12V power source. Ensure the power knob is turned on.

- **No Audio:** Adjust the volume knob. Check microphone connection. Ensure squelch settings are not too high.
- **Cannot Transmit:** Ensure the antenna is properly connected. Verify frequency and channel settings. Check power output settings.
- **Poor Reception/Transmission:** Check antenna connection and condition. Ensure you are within range of other stations. Verify frequency and squelch settings.

For persistent issues, please contact your dealer or QYT customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	QYT
Model Number	KT-7900D
Output Power	25W (VHF) / 20W (UHF)
Number of Channels	200
Channel Spacing	25KHz / 20KHz / 12.5KHz
Frequency Range	136-174 MHz, 220-270 MHz, 350-390 MHz, 400-480 MHz
Squelch Method	CARRIER / CTCSS / DCS / 5 Tone / 2 Tone / DTMF
Working Voltage	13.8V DC \pm 15%
Frequency Stability	\pm 2.6ppm
Operation Temperature	-20°C to +60°C
Dimensions (W x H x D)	98 x 43 x 126 mm (3.85 x 1.75 x 5 inches)
Item Weight	2.09 pounds
Special Feature	Long Range, Quad Band, Quad Standby
Talking Range Maximum	5 Miles (approximate, depends on conditions)
Water Resistance Level	Not Water Resistant

9. SUPPORT AND CONTACT

For technical assistance, software inquiries, or warranty information, please contact the seller or manufacturer directly.

Refer to your purchase documentation for specific contact details.

For software, please contact us.