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## QUANSHENG UV-5R Plus

# QUANSHENG UV-5R Plus Tri-Band Radio Instruction Manual

Model: UV-5R Plus

## INTRODUCTION

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The QUANSHENG UV-5R Plus is a multi-functional tri-band radio designed for reliable communication. It features VHF/UHF dual-band transmission and reception, NOAA weather forecast channels, FM radio, and various advanced functions like cross-band communication and wireless frequency copying. This manual provides detailed instructions for the proper setup, operation, and maintenance of your radio.

## Package Contents

# Standard Package

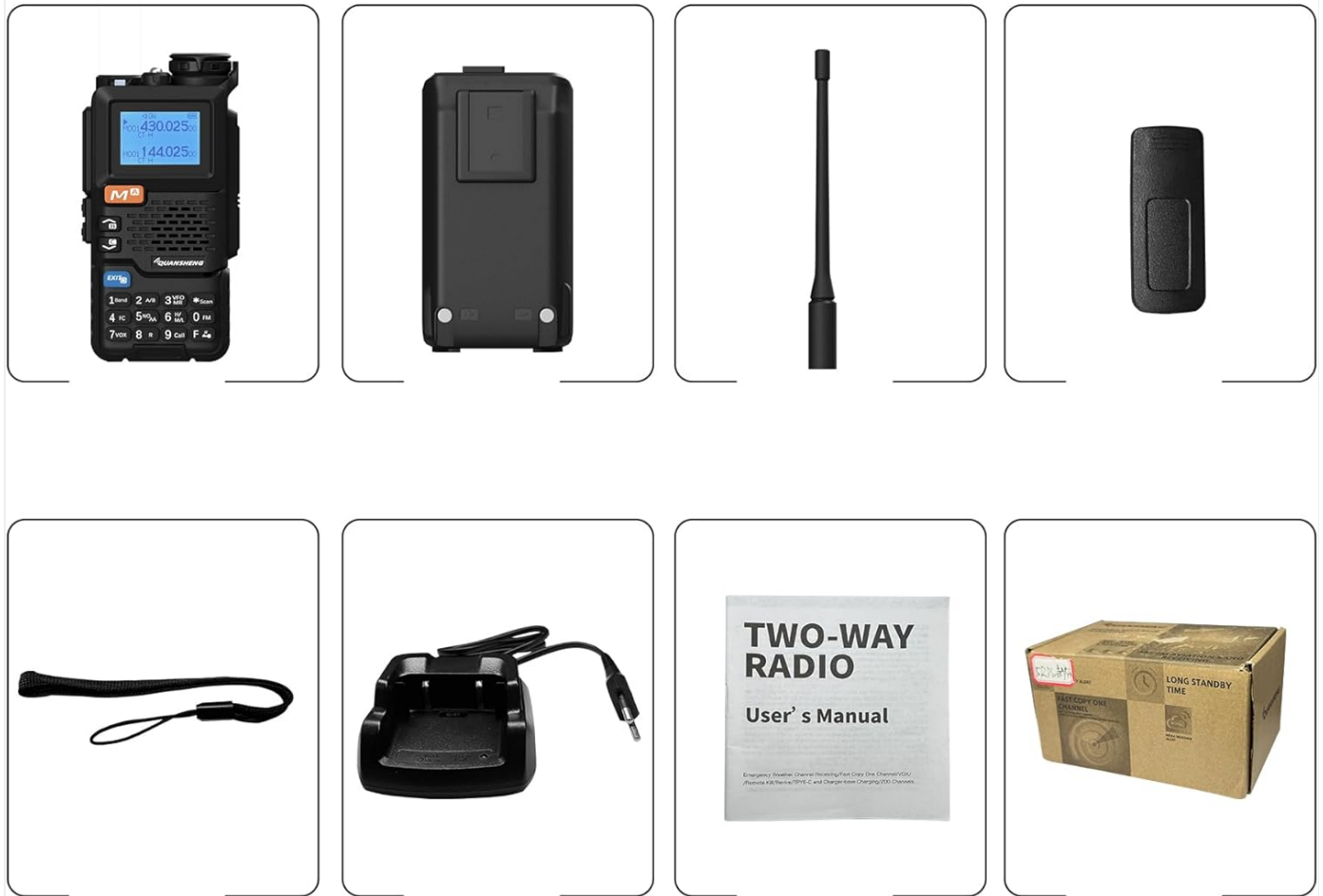


Figure 1: Standard Package Contents

The package includes the QUANSHENG UV-5R PLUS radio unit, an original high gain antenna, a 3800mAh Li-ion battery, a desk dock charger, a belt clip, a hand string, and this user's manual.

- QUANSHENG UV-5R PLUS Radio Unit
- Original High Gain Antenna
- 3800mAh Li-ion Battery Pack
- Desk Dock Charger
- Belt Clip
- Hand String
- User's Manual

## PARTS IDENTIFICATION

Familiarize yourself with the various parts and controls of your QUANSHENG UV-5R Plus radio.



Figure 2: Radio Parts Diagram

This diagram labels the key components: 01 Antenna, 02 Indicator, 03 Jack Light, 04 Power/Volume Switch, 05 LCD Screen, 06 Menu (Confirm Key), 07 Up Key, 08 Speaker, 09 Down Key, 10 Exit Key, 11 Microphone, 12 Keypad, 13 Transmitting Key (PTT), 14 Side Key 1, 15 Side Key 2, 16 Microphone Programming Jacks, 17 Type C Charging Port.

## SETUP

### 1. Battery Installation

1. Align the battery pack with the grooves on the back of the radio.
2. Slide the battery pack upwards until it clicks into place.
3. To remove, press the battery release latch and slide the battery downwards.

# High Capacity Battery

✓ Long Standby Time



Figure 3: High Capacity Battery

The radio is powered by a 3800mAh Li-ion battery, designed for extended use.

## 2. Antenna Attachment

1. Screw the antenna clockwise into the connector on the top of the radio until it is finger-tight.
2. Do not overtighten.

## 3. Charging the Battery

The radio can be charged using the included desk dock or directly via the USB-C port.

- **Using the Desk Dock:** Place the radio (with battery installed) into the charging cradle. Ensure the charging contacts align. The indicator light on the charger will show charging status.
- **Using USB-C:** Connect a USB-C cable to the Type C Charging Port (17 in Figure 2) on the side of the radio and to a compatible USB power source (e.g., USB charger, computer, power bank, car charger).

# Type-C Charging

● Charging ● Charging is Complete



<Type-C Interface>



Figure 4: Type-C Charging Options

The radio supports versatile Type-C charging from various sources. A red light indicates charging, and a green light indicates charging is complete.

## 4. Powering On/Off

Rotate the Power/Volume Switch (04 in Figure 2) clockwise to power on the radio and adjust the volume. Rotate counter-clockwise until it clicks to power off.

## OPERATING INSTRUCTIONS

### 1. Basic Operation

- **Power/Volume Switch (04):** Turn clockwise to power on and increase volume; turn counter-clockwise to decrease volume and power off.
- **PTT (Transmitting Key 13):** Press and hold to transmit, release to receive.
- **Menu (06):** Press to enter the menu, use Up/Down keys (07, 09) to navigate, and press Menu again to confirm

selection.

- **Exit (10):** Press to exit menu or cancel an operation.
- **Keypad (12):** Used for direct frequency input, channel selection, and accessing various functions.

## 2. Frequency and Channel Modes

The radio operates in both Frequency (VFO) mode and Channel (MR) mode.

- **Switching Modes:** Press the **F+ Button 3** on the keypad to toggle between Channel mode and Frequency mode.
- **Frequency Mode (VFO):** Allows direct input of frequencies.
- **Channel Mode (MR):** Allows selection of pre-programmed memory channels.



Figure 5: Frequency Range Display

The radio supports a wide frequency range for transmission and reception, including VHF (136-174MHz), UHF (350-390MHz, 400-470MHz), and FM broadcast (76.000-108.000MHz).

## 3. NOAA Weather Forecast

The radio can receive 10 USA NOAA weather forecast channels. Refer to the manual's specific instructions for accessing and scanning these channels.

#### 4. Air Band Receiving

The QUANSHENG UV-5R Plus supports Air Band receiving. Consult the full user manual for detailed instructions on how to tune into air band frequencies.

#### 5. Wireless Frequency Copy

This feature allows the radio to wirelessly copy frequencies from other compatible radios, including Quansheng UV-K6/UV-K5/UV-K5(8) models.



## One-Touch Copy Frequency

Figure 6: One-Touch Frequency Copy

The radio supports a convenient one-touch frequency copy function, allowing easy replication of settings from other compatible radios. To use this function, refer to the detailed steps in the comprehensive user manual.

#### 6. Emergency Alert

The radio includes an auto/manual emergency alert feature. Activate this function in emergency situations to signal for help. Consult the full manual for activation procedures.

## 7. Other Features

- **FM Radio:** Tune into standard FM broadcast stations.
- **VOX (Voice Operated Transmission):** Allows hands-free transmission.
- **Dual Band Standby:** Monitor two different frequencies simultaneously.
- **Scrambler:** 10-Group Scrambler for enhanced privacy.
- **Scanning:** Frequency, DCS, and CTCSS scan functions.
- **Digital Signal CTCC/DCS:** For selective calling.
- **DTMF and 1750 Tone:** For repeater access and other functions.
- **Built-in High Light Torch:** For illumination in low-light conditions.

## MAINTENANCE

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### 1. Cleaning

- Wipe the radio's surface with a soft, damp cloth.
- Do not use harsh chemicals or abrasive cleaners.
- Ensure the radio is powered off and disconnected from charging before cleaning.

### 2. Battery Care

- Charge the battery fully before first use.
- Avoid overcharging or completely draining the battery for optimal lifespan.
- Store the battery in a cool, dry place when not in use for extended periods.

### 3. Storage

- Store the radio in a dry environment, away from direct sunlight and extreme temperatures.
- Remove the battery if storing for a long duration.

### 4. Water Resistance

**Important:** The QUANSHENG UV-5R Plus radio is **Not Water Resistant**. Avoid exposing the device to water, rain, or high humidity to prevent damage.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery. Ensure the battery is securely attached.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not attached, low battery.	Verify frequency/channel settings. Ensure antenna is connected. Charge battery.

Problem	Possible Cause	Solution
Poor audio quality.	Low signal strength, incorrect squelch setting, damaged speaker/microphone.	Move to an area with better signal. Adjust squelch level. Contact support if hardware issue.
Battery does not charge.	Charger/cable faulty, poor connection, battery issue.	Check charger and cable. Ensure proper connection to radio and power source. Try charging via USB-C if using dock, or vice-versa.

If the problem persists after trying these solutions, please refer to the warranty and support information.

## SPECIFICATIONS





**Figure 7: Product Dimensions**

The radio measures approximately 11.02 inches (28cm) in total height (including antenna), with the radio unit itself being 4.53 inches (11.5cm) tall, 2.17 inches (5.5cm) wide, and 1.54 inches (3.9cm) deep.

Feature	Detail
Model Number	UV-5R Plus
Number of Channels	200
Number of FM Radios	16
Number of NOAA Channels	10 (USA NOAA Weather Forecast Channels)
Frequency Stability	±1ppm
Working Temperature	-20°C to +60°C
Antenna Impedance	50Ω
Modulation Mode	FM: 11K0F3E (12.5KHz), 16K0F3E (25KHz)
Battery Capacity	3800mAh Li-ion (included)
Audio Power	≥0.5W
Audio Distortion	≤10%
Transmitting Power	≤5W
Emission Current	≤1.5A
Maximum Frequency Deviation	≤5KHz (25KHz), ≤2.5KHz (12.5KHz)
Modulation Distortion	≤5%
Stray Power	≤7.5uW
Adjacent Channel Power	70dB (25KHz), 60dB (12.5KHz)

Feature	Detail
Item Weight	1.1 pounds
Package Dimensions	7.08 x 4.33 x 3.74 inches
Voltage	7.4 Volts (DC)
Water Resistance Level	Not Water Resistant
Compatible Devices	Quansheng UV-K6 Radios, External Antennas
Special Features	AM, Air Band, FM, One Key Copy Frequency, USB-C Charging

## WARRANTY INFORMATION

The QUANSHENG UV-5R Plus radio comes with a **3-month warranty**. This warranty is provided exclusively through "Shiqun Electronics Co., Ltd". Please retain your proof of purchase for warranty claims.

## SUPPORT

For further assistance, technical support, or warranty inquiries, please contact the vendor or "Shiqun Electronics Co., Ltd" directly. Refer to your purchase documentation for specific contact details.

