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## WOUXUN KG-R56

# WOUXUN KG-R56 VHF Professional Radio User Manual

Model: KG-R56

## INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your WOUXUN KG-R56 VHF Professional Radio. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage.

## Product Overview

The WOUXUN KG-R56 is a compact and robust professional VHF transceiver designed for authorized users, operating within the 66-88 MHz frequency range. It features 256 memory channels, advanced menu functions, and integrated USB Type-C charging. The device is compliant with current R&TTE RED CE standards.



Image: WOUXUN KG-R56 VHF Professional Radio. This image shows the front view of the radio, highlighting its display, keypad, and antenna connection.

## PACKAGE CONTENTS

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

- KG-R56 Transceiver
- 7.4V - 2000 mAh Lithium-Ion Battery Pack
- Charger
- 220V Power Supply
- Flexible Rubber Antenna
- Belt Clip
- User Manual (in original language)
- Certifications

## SETUP

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### 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 securely into place.
3. To remove, press the battery release latch (if present) and slide the battery downwards.

## 2. Charging the Battery

The KG-R56 features an integrated USB Type-C port for convenient charging.

1. Connect a USB Type-C cable to the radio's USB-C port.
2. Connect the other end of the cable to the provided charger or a compatible USB power source.
3. The charging indicator light on the radio will show the charging status.
4. A full charge typically takes several hours. Avoid overcharging the battery.

## 3. Attaching the Antenna

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

## 4. Attaching the Belt Clip

1. Use the provided screws to attach the belt clip to the designated area on the back of the radio.

# OPERATING INSTRUCTIONS

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## 1. Power On/Off

Rotate the Power/Volume knob clockwise to turn the radio on. Rotate it counter-clockwise until a click is heard to turn it off.

## 2. Adjusting Volume

After powering on, continue rotating the Power/Volume knob to adjust the audio output level to your preference.

## 3. Channel Selection

Use the Up/Down arrow keys or the rotary encoder (if present) to select the desired channel or frequency. The display will show the selected channel number, frequency, or channel name.

## 4. Transmitting and Receiving

1. To transmit, press and hold the Push-To-Talk (PTT) button on the side of the radio. Speak clearly into the microphone.
2. Release the PTT button to receive.
3. Always ensure the channel is clear before transmitting to avoid interference.

## 5. Menu Navigation

The KG-R56 features an advanced menu system for managing various radio functions.

1. Press the **MENU** button to enter the main menu.
2. Use the Up/Down arrow keys to scroll through the available menu options.

3. Press **MENU** again or **OK** (if available) to select an option.
4. Use the Up/Down keys to change settings within a selected option.
5. Press **EXIT** or **BACK** to return to the previous menu or exit the menu system.

## KEY FEATURES

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- **DTMF Encoding/Decoding:** Supports DTMF tones for advanced signaling capabilities.
- **CTCSS/DCS:** Includes 50 CTCSS groups and 105 DCS groups for selective calling. These can be customized via PC programming software.
- **CTCSS/DCS Scanner:** Automatically detects CTCSS/DCS tones on a received signal.
- **Voice Guide:** Provides audible prompts for menu navigation and function selection, enhancing user experience.
- **Channel Name Display:** Allows for editing and displaying custom channel names for easier identification.
- **Battery Capacity Inquiry:** Check the current battery level directly from the radio.
- **PC Programmable:** Customize radio settings, frequencies, and channels using dedicated PC software.
- **Selectable Bandwidth:** Choose between various channel spacing options (5K/6.25K/10K/12.5K/25K).
- **Reverse Frequency Function:** Quickly switch between transmit and receive frequencies for specific operations.
- **Multiple Scan Modes (TO/CO/SE):** Offers various scanning options for monitoring channels efficiently.
- **Display Modes:** Switch between displaying Frequency, Channel Number, or Channel Name.
- **TOT (Time-Out Timer):** Prevents excessively long transmissions by limiting transmission duration.
- **Busy Channel Lockout (BCLO):** Prevents transmission on an occupied channel, avoiding interference.
- **Keypad Lock (Automatic/Manual):** Prevents accidental key presses and setting changes.
- **Wired Clone Function:** Copy settings and configurations from one radio to another using a cable.
- **USB Type-C Charging:** Conveniently charge the radio via a standard USB-C port.

## MAINTENANCE

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### Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals, abrasive cleaners, or solvents, as these can damage the casing. Ensure the USB-C port cover is closed when not charging to protect against dust and moisture.

### Battery Care

- Charge the battery fully before initial use.
- Do not expose the battery to extreme temperatures (hot or cold).
- If the radio will not be used for an extended period, remove the battery and store it in a cool, dry place.
- Use only WOUXUN approved battery packs and chargers to ensure safety and optimal performance.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery or re-install it properly.
Cannot transmit.	Busy Channel Lockout (BCLO) active; incorrect frequency/channel; low battery.	Wait for the channel to clear; verify frequency/channel settings; charge battery.
No reception or weak signal.	Antenna not attached correctly; squelch level too high; out of range.	Check antenna connection; adjust squelch level; move closer to transmitting station.
Keypad is unresponsive.	Keypad lock is active.	Disable keypad lock (refer to operating instructions for specific key combination).
USB-C charging not working.	Cable or charger faulty; port dirty.	Try a different USB-C cable/charger; carefully clean the port if visibly dirty.
Audio output is distorted.	Volume too high; weak signal; speaker damage.	Adjust volume; check signal strength; contact support if speaker is damaged.

## TECHNICAL SPECIFICATIONS

**Model:** KG-R56

**Frequency Range:** 66-88 MHz

**Number of Channels:** 256

**Channel Spacing:** 5K/6.25K/10K/12.5K/25K

**Modulation:** FM F3E

**Operating Voltage:** 7.4V DC

**RF Output Power:** 5W/1W (selectable)

**Receiver Sensitivity:** 0.25 µV (12 dB SINAD)

**Squelch Sensitivity:** <0.16 µV

**Audio Output Power:** 500 mW at 8 ohms

**Battery Type:** 7.4V - 2000 mAh Lithium-Ion Pack

**Standby Current:** 50 mA

**Operating Temperature:** -30°C to +60°C

**Dimensions (H x W x D):** 105 x 63 x 39 mm (without antenna and battery)

**Weight:** 250 g (with battery and antenna)

**International Protection Rating:** IP54 (Protected from limited dust ingress and water spray from any direction)

**Water Resistance Level:** Not designed for immersion in water.

**Special Features:** Weather-resistant, USB rechargeable

*Note: Specifications are subject to change without notice.*

## SAFETY INFORMATION

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- Do not operate the radio in explosive atmospheres (e.g., near flammable gases, dust particles, or metallic powders).
- Do not modify the radio. Unauthorized modifications can void your warranty and violate regulatory compliance.
- Keep the radio away from medical devices (e.g., pacemakers) to avoid potential interference.
- Use only WOUXUN approved accessories, including batteries and chargers.
- Do not expose the radio to direct sunlight for extended periods or to extreme heat sources.
- Dispose of batteries properly according to local environmental regulations.
- While rated IP54 for weather resistance, this device is not designed for immersion in water. Avoid exposing it to heavy rain or submersion.

## WARRANTY AND SUPPORT

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For warranty information or technical support, please contact your authorized WOUXUN dealer or the point of purchase. Keep your purchase receipt as proof of purchase.

For further assistance, you may visit the official WOUXUN website or consult the contact information provided in your original product packaging.