# Product Manual

# QODOSEN QPR-001 Portable All Band Radio

### FM / MW / SW / LW / SSB / AIR | SI4735 | Pocket Receiver

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## Table of Contents


1. Warning & Safety Information ..... 3
2. Product Identification ..... 5
3. Package Contents ..... 6
4. Product Overview ..... 7
5. Installation & Operation Steps ..... 8
6. Use Limitations ..... 10
7. Specifications ..... 11
8. Troubleshooting ..... 12
9. Care & Maintenance ..... 13
10. Environmental Disposal ..... 14
11. EU Regulatory Compliance ..... 15
12. Warranty ..... 16
13. Manufacturer / EU Responsible Person ..... 17
14. Multi-Language Notice ..... 18


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## Chapter 1: Warning & Safety Information

⚠ WARNING — Read all instructions before use and retain for future reference. Failure to follow these warnings may result in electric shock, fire, injury, or hearing damage.

⚠ WARNING — Lithium Battery Safety: This product contains a rechargeable lithium-ion battery (14500 type). Do not disassemble, crush, puncture, or expose to fire or high temperatures (above 60 degrees C). Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to local regulations. Do not charge unattended for extended periods. Use only the supplied Type-C cable or a certified 5V/1A power adapter.

⚠ WARNING — Hearing Damage: Prolonged exposure to high volume levels through headphones or earphones can cause permanent hearing loss. Keep volume at a safe level. Do not use headphones at high volume for extended periods. If you experience ringing in the ears or hearing difficulty, stop use immediately and consult a physician.

⚠ WARNING — Electric Shock Hazard: Do not open the device casing. There are no user-serviceable parts inside. Opening the casing voids the warranty and exposes you to hazardous voltage. Only qualified personnel should perform internal repairs.

⚠ CAUTION — Charging Safety: Use only a 5V/1A (or lower) USB power adapter or computer USB port for charging. Do not use fast chargers (e.g., 9V/2A, 12V/2A) as they

may damage the charging circuit or cause overheating. Do not charge in extreme temperatures (below 0 degrees C or above 45 degrees C). Disconnect charging when battery is fully charged.

⚠ CAUTION — Moisture & Water: This device is not waterproof (no IP rating). Keep away from rain, moisture, and liquids. Do not use near bathtubs, sinks, or wet areas. If liquid enters the device, disconnect power immediately and do not attempt to operate.

⚠ CAUTION — Temperature: Operating temperature: 0 degrees C to 45 degrees C. Storage temperature: −10 degrees C to 60 degrees C. Do not leave the device in direct sunlight, inside vehicles, or near heat sources (radiators, stoves) for extended periods.

⚠ IMPORTANT — Non-Safety Equipment: This radio is for general entertainment and personal use only. It is NOT designed for use in safety-critical applications including: aviation navigation, maritime rescue, emergency services, medical equipment, life-support systems, or security alarm systems. Do not rely on this device for emergency communications.

⚠ IMPORTANT — Children Safety: This product contains small parts (battery, screws) that may pose a choking hazard. Keep away from children under 3 years old. Supervise children when using this product. The 14500 battery must not be accessible to children.

⚠ IMPORTANT — Headphone Use: When using headphones, be aware of your surroundings. Do not use headphones while driving, cycling, or operating machinery. Reduce volume when ambient noise is high to avoid temptation to increase volume to dangerous levels.

⚠ IMPORTANT — Antenna Safety: Do not use this radio near overhead power lines or high-voltage equipment. The telescopic or external antenna should not be deployed near power lines. Maintain a safe distance from electrical hazards.

⚠ IMPORTANT — Modifications: Do not modify, alter, or tamper with this device. Unauthorized modifications may void the warranty, violate regulatory compliance, and create safety hazards. Do not attempt to upgrade firmware or hardware modifications.

⚠ IMPORTANT — Damage Inspection: Before each use, inspect the device, cable, and battery for signs of damage, deformation, or overheating. If any abnormality is detected (unusual smell, smoke, excessive heat, strange noise), stop use immediately, remove the battery if safely possible, and contact the seller or manufacturer.

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## Chapter 2: Product Identification

**Product Name:** QODOSEN QPR-001 Portable All Band Radio

**Model Number:** QPR-001

**Brand:** QODOSEN

**Product Image Placeholder:** [Product image must match the main image on the storefront. Replace this placeholder with the actual product photograph before publishing.]

**Product Identification Consistency Table**

| Item | Description |
|---|---|
| Brand Name | QODOSEN |
| Model Number | QPR-001 |
| Product Type | Portable All Band Radio Receiver |
| Chipset | SI4735 |
| Supported Bands | FM / MW / SW / LW / SSB / AIR |
| Special Features | ATS (Auto Scan), RDS, Sync Detection |
| Charging Interface | Type-C (USB) |
| Battery Type | 14500 Rechargeable Lithium-ion |
| Form Factor | Pocket Receiver |
| Color | [To be confirmed - match storefront listing] |

**Note:** The model number, product image, and key specifications in this manual must be consistent with the product listed on the storefront. Any discrepancy must be corrected before publication.

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## Chapter 3: Package Contents

Please verify all items are present before use:

| Item | Quantity | Description |
|---|---|---|
| QODOSEN QPR-001 Radio | 1 | Main unit |
| Type-C Charging Cable | 1 | USB Type-C to USB-A cable |
| Headphones | 1 | 3.5mm earphones (if included in SKU) |
| User Manual | 1 | This document |
| Pocket Carrying Pouch | 1 | If included in SKU |
| Spare Antenna / Adapter | [Qty] | If included in SKU |

**Note:** Package contents may vary by SKU variant. Please check your specific listing for exact contents. If any item is missing, contact the seller immediately.

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## Chapter 4: Product Overview

### 4.1 Front Panel

| Component | Function |
|---|---|
| Power Button | Press and hold to power on/off |
| Volume Knob / Button | Rotate to adjust volume; press to select functions |
| Display Screen | Shows frequency, band, RDS info, battery level |
| Band Button | Cycle through FM / MW / SW / LW / SSB / AIR bands |
| Tuning Knob / Buttons | Adjust frequency manually or trigger auto-scan |
| Headphone Jack | 3.5mm headphone/speaker output |
| Type-C Port | Charging and data connection |

### 4.2 Side/Rear Panel

| Component | Function |
|---|---|
| Battery Compartment | Houses the 14500 rechargeable battery |
| LED Indicator | Shows charging status (red = charging, green = full) |
| Reset Hole | Press with pin to restart device |
| External Antenna Jack | Connect external antenna for improved reception |

### 4.3 Controls & Functions

**Power On/Off:** Press and hold the Power button for 2 seconds.

**Band Selection:** Press the Band button to cycle through: FM to MW to SW to LW to SSB to AIR to FM...

**Frequency Tuning:** - Manual: Rotate tuning knob or press +/- buttons - Auto-Scan (ATS): Press and hold Scan button to automatically search and save stations

**RDS Function (FM Band):** RDS displays station name, program type, and traffic information (where available).

**SSB Mode:** Switch to SSB band for amateur radio, maritime, and aviation communications. Requires proper antenna setup for optimal reception.

**AIR Band:** Receives aviation communications (108-137 MHz). Reception quality depends on distance from airports and line-of-sight to aircraft.

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## Chapter 5: Installation & Operation Steps

### 5.1 Initial Setup

**Step 1 - Battery Installation:** Open the battery compartment on the rear panel. Insert the 14500 rechargeable lithium-ion battery with correct polarity (+ and - matching the diagram inside the compartment). Close the compartment securely.

**Step 2 - Charging:** Connect the Type-C cable to the radio and plug the other end into a 5V/1A USB power adapter or computer USB port. The LED indicator will glow red while charging and turn green when fully charged. Full charging time: approximately 2-3 hours.

**Step 3 - Power On:** Press and hold the Power button for 2 seconds. The display will illuminate showing the last used frequency and band.

### 5.2 Daily Operation

**Step 4 - Select Band:** Press the Band button to select your desired band (FM/MW/SW/LW/SSB/AIR).

**Step 5 - Tune to Station:** Use the tuning knob or +/- buttons to manually search for stations. For auto-scan, press and hold the Scan/ATS button - the radio will automatically search, stop at strong stations, and save them to memory.

**Step 6 - RDS (FM Only):** When tuned to an FM station with RDS broadcast, the display will show the station name and program type. Press RDS button to cycle through RDS information.

**Step 7 - Headphone/Speaker:** Plug headphones into the 3.5mm jack. The internal speaker will mute automatically when headphones are inserted.

**Step 8 - External Antenna:** For improved SW/LW/SSB/AIR reception, connect an external antenna to the external antenna jack. A longer wire antenna or telescopic antenna significantly improves long-distance reception.

### 5.3 Battery Management

- **Low Battery:** The display will show a low battery icon and the radio will auto-shutdown after approximately 5 minutes.
- **Recharge:** Connect to Type-C power source when battery is low.
- **Long-term Storage:** If not using for extended periods, charge the battery to approximately 50% and store in a cool, dry place. Recharge every 3 months to maintain battery health.
- **Battery Replacement:** Only use 14500 rechargeable lithium-ion batteries. Consult a qualified technician for battery replacement.

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## Chapter 6: Use Limitations

**IMPORTANT - Read and understand the following limitations before using this product:**

1. **Intended Use:** This product is designed for personal entertainment radio reception only. It is a passive receiver - it receives radio broadcasts and does not transmit any signals.
2. **Prohibited Uses:** This device must NOT be used for:
    - Aviation navigation or aircraft communication
    - Maritime rescue or coast guard operations
    - Emergency services (police, fire, ambulance)
    - Medical equipment or life-support systems
    - Security alarm or surveillance systems
    - Industrial control or automation
    - Any application where failure could endanger human life
3. **Operating Environment:**
    - Do not use in explosive atmospheres (gas stations, chemical plants)
    - Do not use in environments with strong electromagnetic interference
    - Do not use in temperatures outside 0 degrees C to 45 degrees C
    - Do not expose to rain, moisture, or direct sunlight for extended periods
4. **Charging Restrictions:**
    - Use only 5V/1A (or lower) USB power supply
    - Do not use fast chargers or high-voltage adapters
    - Do not charge in temperatures below 0 degrees C or above 45 degrees C
    - Do not leave charging unattended for more than 8 hours continuously
5. **Battery Safety:**
    - Do not mix old and new batteries
    - Do not mix different types of batteries
    - Do not short-circuit the battery terminals
    - Do not dispose of batteries in fire
    - Remove battery before disposing of the device
6. **Proximity to Power Lines:** Do not operate this device near overhead power lines, electrical substations, or high-voltage equipment. Maintain a safe distance of at least 10 meters from overhead power lines.
7. **Driving Restriction:** Do not adjust settings or change stations while driving a vehicle. Pull over to a safe location before operating.
8. **No Waterproof Rating:** This device has no IP water resistance rating. Keep dry at all times.
9. **No Unauthorized Modifications:** Do not modify, alter, or tamper with the device hardware or software. Unauthorized modifications void the warranty and may violate radio regulations.
10. **Abnormal Condition:** If the device emits smoke, unusual odor, excessive heat, or strange noise, stop use immediately, disconnect power, and contact the seller or qualified service center.

11. **Signal Limitations:** Radio reception quality depends on distance from broadcast towers, terrain, atmospheric conditions, and nearby electronic interference. Poor reception does not indicate a defect.

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## Chapter 7: Specifications

| Parameter | Specification |
|---|---|
| Model | QPR-001 |
| Brand | QODOSEN |
| Chipset | SI4735 |
| FM Band | 87.5 - 108 MHz |
| MW Band | 522 - 1620 kHz |
| SW Band | 2.3 - 26.1 MHz (multiple shortwave bands) |
| LW Band | 153 - 279 kHz |
| SSB Band | 0.1 - 30 MHz (continuous coverage) |
| AIR Band | 108 - 137 MHz (aviation band) |
| RDS | Yes (FM band only) |
| ATS | Yes (Auto Scan & Memory) |
| Sync Detection | Yes (FM/SW/SSB) |
| Speaker | Built-in mono speaker |
| Headphone Jack | 3.5mm stereo |
| Charging Interface | USB Type-C |
| Battery | 14500 Li-ion rechargeable |
| Charging Input | 5V/1A (USB) |
| Operating Current | [To be confirmed] |
| Operating Temperature | 0 degrees C - 45 degrees C |
| Storage Temperature | −10 degrees C - 60 degrees C |
| Dimensions | [To be confirmed - match product listing] |
| Weight | [To be confirmed - match product listing] |

**Note:** Specifications are subject to change without notice. Actual performance may vary based on environment and antenna setup. Parameters marked [To be confirmed] must match the product listing and packaging.

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## Chapter 8: Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Radio will not power on | Battery depleted | Charge the battery for at least 30 minutes and try again |
| Radio will not power on | Battery not installed correctly | Check battery polarity and reinsert |
| No sound from speaker | Headphones plugged in | Remove headphones to restore speaker output |
| No sound from speaker | Volume too low | Increase volume using volume knob |
| Poor FM reception | Antenna not extended | Extend the telescopic antenna fully |
| Poor FM reception | Weak signal area | Move to different location near window |
| Poor SW/LW/SSB reception | Insufficient antenna | Connect external antenna for better reception |
| FM stereo sound is noisy | Weak signal or interference | Adjust antenna position; try mono mode if available |
| RDS not displaying | Station does not broadcast RDS | Try different FM stations; RDS only works with RDS-enabled stations |
| Radio resets randomly | Low battery | Charge the battery; replace if old/damaged |
| Radio resets randomly | Overheating | Turn off and let cool; ensure proper ventilation |
| Type-C charging not working | Cable or adapter issue | Try different Type-C cable or USB power adapter |
| Battery drains quickly | Old battery or high volume | Replace battery; reduce volume; close unused apps |
| Display shows error symbol | Internal fault | Power off, remove battery, wait 1 minute, restart. If problem persists, contact seller |

**If troubleshooting does not resolve the issue, please contact the seller or authorized service center. Do not attempt to repair internally.**

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## Chapter 9: Care & Maintenance

### 9.1 Cleaning

- Turn off and disconnect the device before cleaning.
- Use a soft, dry cloth to wipe the exterior.
- For stubborn stains, slightly dampen the cloth with water or mild detergent. Do not use abrasive cleaners, solvents, or ammonia-based products.
- Do not immerse the device in water or any liquid.
- Keep the device away from magnetic fields.

### 9.2 Storage

- Store in a cool, dry place away from direct sunlight.
- Ideal storage temperature: 10 degrees C to 25 degrees C.
- If storing for more than 1 month, charge the battery to approximately 50% capacity.
- Recharge the battery at least once every 3 months during storage to prevent deep discharge.
- Keep away from magnetic materials (speakers, transformers).
- Use the carrying pouch (if included) to protect from dust and scratches.

### 9.3 Battery Care

- Use only the specified 14500 lithium-ion battery.
- Avoid completely discharging the battery. Recharge when low battery indicator appears.
- Do not expose battery to temperatures above 60 degrees C.
- Do not leave the device plugged in continuously after full charge.
- Battery capacity naturally degrades over time - this is normal.
- Replace battery only through qualified service personnel.

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## Chapter 10: Environmental Disposal

⚠ WEEE Notice (2012/19/EU): This product bears the crossed-out wheeled bin symbol, indicating it must not be disposed of with household waste at the end of its life. Electrical and electronic equipment must be collected separately.

- **Do not dispose** of this product in regular household trash.
- **Return** the product to your local collection point for recycling of electrical and electronic equipment.
- **Separate disposal** helps conserve natural resources and prevents potential negative effects on human health and the environment that could arise from inappropriate waste handling.
- For more information about recycling, contact your local municipal office, your household waste disposal service, or the shop where you purchased the product.

**Battery Disposal**

- The integrated lithium-ion battery must be recycled separately.
- Do not dispose of batteries in fire - risk of explosion.
- Many collection points accept batteries and accumulators free of charge.
- Consult your local authority or retailer for recycling information.

**RoHS Compliance**

This product complies with EU Directive 2011/65/EU (RoHS) regarding restrictions on the use of hazardous substances in electrical and electronic equipment. This product does not contain lead (Pb), mercury (Hg), cadmium (Cd), chromium VI (Cr6+), polybrominated biphenyls (PBB), or polybrominated diphenyl ethers (PBDE) in concentrations exceeding the limits specified in the directive.

**REACH Compliance**

This product complies with EU Regulation (EC) No 1907/2006 (REACH) concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

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# Chapter 11: EU Regulatory Compliance

## 11.1 Applicable Directives

| Directive | Status | Notes |
|---|---|---|
| RED 2014/53/EU | Not Applicable | This product is a receiver-only device with no radio transmission capability |
| LVD 2014/35/EU | Applicable | Low Voltage Directive - safety of electrical equipment |
| EMC 2014/30/EU | Applicable | Electromagnetic Compatibility - conducted and radiated emissions |
| RoHS 2011/65/EU | Applicable | Restriction of Hazardous Substances |
| REACH (EC) 1907/2006 | Applicable | Chemical safety |
| WEEE 2012/19/EU | Applicable | Waste Electrical and Electronic Equipment |
| Battery Regulation (EU) 2023/1542 | Applicable | Lithium-ion battery safety and recycling |
| GPSR (EU) 2023/988 | Applicable | General Product Safety Regulation |

### 11.2 CE Marking

This product is a radio receiver (passive reception only) with integrated lithium battery and USB charging circuit. As such: - The product incorporates safety features compliant with applicable EU directives. - The manufacturer declares conformity with applicable requirements. - CE marking placement: Please refer to product labeling requirements. The device may carry CE marking as part of the integrated product compliance. - **Important:** If this product does not fall under the RED (no transmission), the CE marking obligation may be limited. Please verify with your notified body or legal advisor regarding CE marking requirements for your specific product configuration.

### 11.3 Declaration of Conformity

The undersigned hereby declares that the QODOSEN QPR-001 Portable All Band Radio is in compliance with the essential requirements of the applicable EU directives listed above. A copy of the Declaration of Conformity is available upon request from the manufacturer or EU Responsible Person.

### 11.4 Radio Spectrum Note

This device receives radio broadcasts only and does not transmit. Users should be aware that: - Listening to certain radio communications (e.g., SSB/AIR bands) may be subject to national regulations. - Decoding encrypted communications is prohibited in most jurisdictions. - Users are responsible for complying with local radio regulations in their country of use.

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## Chapter 12: Warranty

### 12.1 Warranty Terms

QODOSEN warrants the QPR-001 Portable All Band Radio against defects in materials and workmanship under normal use for a period of **2 years** from the date of purchase, in accordance with EU Directive 2019/771 on the sale of consumer goods and associated guarantees.

### 12.2 What Is Covered

- Manufacturing defects in materials or workmanship
- Functional failures under normal use conditions
- Battery capacity degradation beyond normal wear (within warranty period)

### 12.3 What Is Not Covered

- Damage caused by misuse, accident, or negligence
- Damage from unauthorized modifications or repairs
- Normal wear and tear (e.g., cosmetic scratches, button wear)
- Damage from using non-compliant chargers or accessories
- Damage from exposure to liquids, fire, or extreme temperatures
- Battery degradation from normal use over time
- Damage caused by using the product outside specified environmental limits
- Consumable parts (e.g., battery after 2 years)

### 12.4 Claim Process

1. Contact the seller from whom the product was purchased.
2. Provide proof of purchase (order confirmation, receipt).
3. Describe the defect and provide photos/videos if requested.
4. The seller will arrange repair, replacement, or refund in accordance with applicable consumer protection laws.

### 12.5 Statutory Rights

This warranty does not affect your statutory rights as a consumer under applicable national legislation. Nothing in this warranty excludes or restricts your legal rights.

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## Chapter 13: Manufacturer / EU Responsible Person

**Manufacturer:** - Company Name: [To be confirmed - match packaging] - Address: [To be confirmed - match packaging] - Country: [To be confirmed] - Email: [To be confirmed] - Phone: [To be confirmed]

**EU Responsible Person (per GPSR EU 2023/988):** - Company Name: [To be confirmed - match packaging] - Address: [To be confirmed - match packaging, must be in EU] - Email: [To be confirmed] - Phone: [To be confirmed] - Product Safety Officer: [To be confirmed]

**Importer (if applicable):** - Company Name: [To be confirmed - match packaging] - Address: [To be confirmed - match packaging]

**Note:** The Manufacturer, EU Responsible Person, and Importer information must be consistent with the product packaging and storefront listing. All fields marked [To be confirmed] must be filled in before publication.

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## Chapter 14: Multi-Language Notice

This product manual is provided in English as the primary language, in compliance with EU market requirements.

**Important Notice for Consumers:** - This manual is available in English as required by EU regulations. - Other official languages of the European Union (German, French, Spanish, Italian, Portuguese, Dutch, Polish, Swedish, Finnish, Danish, Greek, Czech, Hungarian, Romanian, Bulgarian, Croatian, Slovak, Slovenian, Estonian, Latvian, Lithuanian, Maltese, Irish, Luxembourgish) may be available through the platform’s automatic translation tool. - **Consumers are advised to read the manual in the language most understandable to them.** - **The English version shall prevail in case of any discrepancy or interpretation conflict.** - Model numbers, warning symbols, safety instructions, and regulatory references must NOT be altered in any translated version. - For the most accurate and up-to-date information, please refer to the English original version of this manual.

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End of Manual

Document Version: 1.0

Date: [To be confirmed]