LUOTWO V1-V1

LUOTWO V1-V1 Global Intercom Two-Way Radio User Manual

Model: V1-V1 | Brand: LUOTWO

Introduction



Image: The LUOTWO V1-V1 Global Intercom Two-Way Radio.
This image shows the overall design of the LUOTWO V1-V1 radio, featuring its robust build and clear display.

Thank you for choosing the LUOTWO V1-V1 Global Intercom Two-Way Radio. This device is engineered for reliable and extended-range communication, leveraging advanced 4G PoC technology, WiFi, and Bluetooth connectivity. Its robust IP67 waterproof design makes it suitable for various demanding environments. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device to ensure optimal performance.

Please read this manual thoroughly before using your LUOTWO V1-V1 radio.

Product Overview

Package Contents

The LUOTWO V1-V1 package includes the following items:

- 1 x LUOTWO V1-V1 Two-Way Radio
- 1 x USB Cable
- 1 x Antenna
- 1 x Rechargeable Battery
- 1 x Back Clip

- 1 x Lanyard
- 1 x User Manual

Device Layout and Controls

Familiarize yourself with the various parts and controls of your LUOTWO V1-V1 radio:



Image: Diagram of the LUOTWO V1-V1 radio's components and controls.
This image illustrates the key components of the radio, including the antenna, power switch, PTT key, side keys, menu button, select key, return key, group key, and the headphone/microphone/charging jack.

- **Antenna:** For signal transmission and reception.
- **Power Switch/Volume Knob:** Turns the device on/off and adjusts volume.
- **PTT (Push-to-Talk) Key:** Press and hold to transmit voice.
- **Side Key 1 & 2:** Programmable function keys.
- **Menu Key:** Accesses the device menu.
- **Navigation Keys (Up/Down/Left/Right):** For menu navigation and selection.
- **Select Key:** Confirms selections.
- **Return Key:** Goes back to the previous screen or exits a menu.
- **Group Key:** For managing communication groups.
- **Headphone/Microphone/Charging Jack:** Multi-purpose port for accessories and charging.

SETUP

1. Battery Installation

1. Ensure the radio is powered off.
2. Locate the battery compartment cover on the back of the radio.
3. Slide or unlatch the cover to open it.
4. Insert the provided rechargeable battery, ensuring the contacts align correctly.
5. Close the battery compartment cover securely.

2. SIM Card Installation (Dual SIM Support)

The LUOTWO V1-V1 supports dual SIM cards for flexible network connectivity.



Image: LUOTWO V1-V1 radio highlighting its dual SIM card compatibility.
This image visually confirms the radio's ability to use two SIM cards, allowing for switching between networks or services.

1. With the battery removed, locate the SIM card slots.
2. Carefully insert your SIM card(s) into the designated slot(s) according to the diagram.
3. Ensure the SIM cards are fully seated.

3. Antenna Attachment

1. Screw the provided antenna clockwise onto the antenna connector at the top of the radio until it is finger-tight. Do not overtighten.

4. Initial Charging

Before first use, fully charge the battery.



Image: LUOTWO V1-V1 radio connected for Type-C charging.
This image demonstrates the convenient Type-C charging port, allowing for modern and efficient power replenishment.

1. Connect the Type-C USB cable to the radio's charging port.
2. Connect the other end of the USB cable to a compatible USB power adapter or computer.
3. The charging indicator light will show the charging status. Charge until the indicator shows a full charge.

Operating Instructions

1. Power On/Off and Volume Adjustment

- **Power On:** Rotate the Power Switch/Volume knob clockwise until you hear a click. The radio will power on.
- **Power Off:** Rotate the Power Switch/Volume knob counter-clockwise until you hear a click. The radio will power off.
- **Volume Adjustment:** Rotate the Power Switch/Volume knob clockwise to increase volume and counter-clockwise to decrease volume.

2. Basic Communication (Push-to-Talk)

- Ensure you are connected to a network (4G, WiFi).

- Select your desired contact or group using the Menu and Navigation keys.
- Press and hold the **PTT key** on the side of the radio to transmit your voice. Speak clearly into the microphone.
- Release the PTT key to listen for a response.

3. Network Connectivity (4G PoC, WiFi, Bluetooth)



Image: LUOTWO V1-V1 radios demonstrating high-speed network capabilities for nationwide calls.
This image highlights the radio's ability to provide unlimited distance communication through high-speed network connections, breaking traditional radio range limitations.

- **4G PoC (Push-to-Talk over Cellular):** The radio utilizes 4G cellular networks for wide-area communication. Ensure your SIM card has an active data plan.
- **WiFi:** Access the menu to connect to available Wi-Fi networks. This can be used for communication and data transfer when cellular service is unavailable or preferred.
- **Bluetooth:** Pair with Bluetooth-enabled accessories like headsets for hands-free operation. Navigate to the Bluetooth settings in the menu to pair devices.



Image: LUOTWO V1-V1 radio's capability to connect via Starlink ground receiver for extended range.
This diagram illustrates how the radio can achieve long-distance communication by linking with Starlink ground receiver equipment, which then connects to the Starlink satellite network.

4. GPS Navigation



Image: LUOTWO V1-V1 radio demonstrating its GPS positioning function.
This image shows the radio's integrated GPS capabilities, useful for precise location tracking and route mapping, especially in outdoor and professional settings.

The integrated GPS functionality allows for precise location tracking and navigation. Access the GPS features through the radio's menu to view your current location, track routes, or share your position with other users in your group.

5. Multi-Talk Method and Group Communication



Image: LUOTWO V1-V1 radios engaged in multi-talk method communication across different locations.
This diagram illustrates the radio's support for various communication methods, including group calls, enabling multiple users to communicate simultaneously over a wide area.

The radio supports various communication methods, including individual calls, group calls, and broadcast messages. Use the Group Key and menu options to manage and switch between different communication groups.

Maintenance

1. Cleaning

- Wipe the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure all ports are free of dust and debris.

2. Battery Care

- To prolong battery life, avoid fully discharging the battery frequently.
- Store the radio and battery in a cool, dry place when not in use for extended periods.
- Use only the original or approved charging accessories.

3. Water Resistance (IP67)

The LUOTWO V1-V1 is IP67 rated, meaning it is protected from dust ingress and can withstand immersion in water up to 1 meter for 30 minutes.

- Ensure all port covers and the battery compartment are securely closed before exposing the radio to water or dust.
- Do not intentionally submerge the radio for prolonged periods or beyond the specified depth.
- If the radio gets wet, dry it thoroughly before charging or opening any compartments.

Troubleshooting

If you encounter issues with your LUOTWO V1-V1 radio, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on.	Low or depleted battery; improperly installed battery.	Charge the battery fully. Ensure the battery is correctly installed.
Cannot transmit or receive.	No network connection (4G/WiFi); incorrect group/contact selected; PTT key not pressed correctly.	Check network signal strength. Verify WiFi or 4G data is active. Ensure the correct group/contact is selected. Press and hold the PTT key firmly.
Poor audio quality.	Weak signal; microphone/speaker obstruction; volume too low.	Move to an area with better network coverage. Clean the microphone and speaker. Adjust the volume.
GPS not working.	Poor satellite signal; GPS function disabled.	Move to an open area with a clear view of the sky. Ensure GPS is enabled in the radio's settings.

If the problem persists, please contact customer support.

Specifications

Feature	Detail
Brand	LUOTWO
Model Number	V1-V1
Special Features	Long Range, Global Intercom, GPS Navigation
Compatible Devices	Devices with WiFi, Bluetooth, and Type-C charging
Network Configuration	2G/3G/4G (LTE FDD: B1/B2/B3/B4; LTE TDD: B38/B39/B40; WCDMA: B1/B5/B8; TDSCDMA: B34/B39; CDMA: EVDO Rev.A800M; GSM: 900-18000 MHz)
Battery Type	Polymer Lithium-Ion
Battery Capacity	6800 mAh

Feature	Detail
Usage Time	Up to 48 hours
Standby Time	5-7 days
Charging Mode	Charger / USB / Car / Computer (Type-C)
Rated Voltage	3.7 Volts (DC)
Weight (including battery)	165 g
Dimensions (without antenna)	110 x 52 x 32 mm
Water Resistance Level	IP67 (Waterproof)
UPC	703250438714



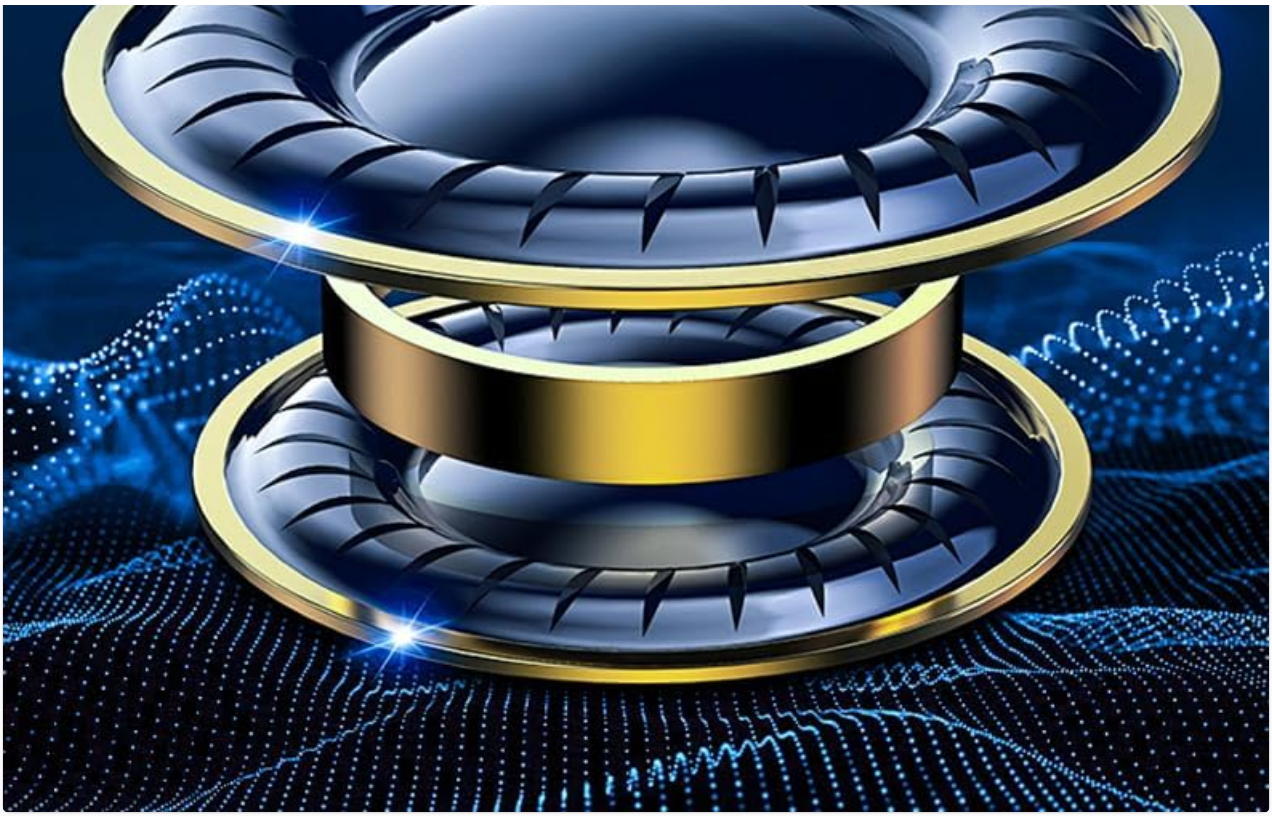


Image: High-definition speaker for clear audio output.
This image highlights the radio's HD speaker, designed to restore on-site sound with clear and loud quality, ensuring effective communication.

Warranty and Support

LUOTWO is committed to providing quality products. While specific warranty details are not provided in this manual, please retain your proof of purchase for any warranty claims. For technical support, service, or inquiries regarding spare parts, please contact your retailer or the official LUOTWO customer service channel.
Information regarding spare parts availability and guaranteed software updates is currently unavailable.

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