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› [LUITON LT-316 Mini UHF Two-Way Radio Instruction Manual](#)

## LUITON LT-316

# LUITON LT-316 Mini UHF Two-Way Radio Instruction Manual

Model: LT-316

## INTRODUCTION

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Thank you for choosing the LUITON LT-316 Mini UHF Two-Way Radio. This manual provides detailed instructions for the safe and effective use of your new radio. Please read this manual thoroughly before operating the device to ensure optimal performance and longevity. The LT-316 is designed for reliable communication with features such as 16 channels, scan function, CTCSS/DCS, VOX, and a durable build.

## PRODUCT OVERVIEW

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### Components and Controls

Familiarize yourself with the main components and controls of your LT-316 radio.



**Image:** Labeled diagram of the LUITON LT-316 radio, highlighting the Antenna, Power Knob, PTT (Push-To-Talk) key, UP key, Down key, and Headphone jack.

- **Antenna:** For transmitting and receiving radio signals.
- **Power Knob:** Rotates to turn the radio on/off and adjust volume.
- **PTT (Push-To-Talk) Key:** Press and hold to transmit, release to receive.
- **UP Key:** Used for channel selection or menu navigation.
- **Down Key:** Used for channel selection or menu navigation.
- **Headphone Jack:** For connecting an external earpiece or microphone.



**Image:** Side view of the LUITON LT-316 radio, showing the attached belt clip for convenient carrying.

## 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 the cover down or unlatch it according to the design.

4. Insert the 1500mAh Li-poly battery, ensuring the contacts align correctly.
5. Replace the battery compartment cover and secure it.

## 2. Charging the Battery

The LT-316 supports Micro-USB charging.

1. Connect the provided charging adapter to the Micro-USB port on the radio.
2. Plug the charging adapter into a standard power outlet.
3. The radio's indicator light will typically show red during charging and turn green when fully charged.
4. A full charge may take several hours. Do not overcharge the battery.

**Note:** For optimal battery life, fully charge the battery before first use.

## OPERATING INSTRUCTIONS

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### 1. Power On/Off and Volume Adjustment

- To power on the radio, rotate the Power Knob clockwise until you hear a click.
- Continue rotating the Power Knob clockwise to increase the volume.
- Rotate counter-clockwise to decrease the volume.
- To power off, rotate the Power Knob counter-clockwise until you hear a click.

### 2. Channel Selection

The LT-316 has 16 channels. Use the UP and Down keys to select your desired channel.

- Press the **UP key** to increase the channel number.
- Press the **Down key** to decrease the channel number.
- Ensure all radios in your group are set to the same channel for communication.

### 3. Transmitting and Receiving

- **To Transmit:** Press and hold the **PTT key**. Speak clearly into the microphone (located near the PTT key). Release the PTT key when you finish speaking.
- **To Receive:** Ensure the PTT key is not pressed. The radio will automatically receive signals on the selected channel.

### 4. VOX (Voice Operated Transmit) Function

VOX allows hands-free operation. When VOX is enabled, the radio will automatically transmit when it detects your voice.

- Refer to the advanced settings section (if available via programming software) to enable or disable VOX and adjust its sensitivity.
- When VOX is active, speak normally to transmit. The radio will stop transmitting shortly after you stop speaking.

### 5. Scan Function

The scan function allows the radio to automatically scan through all programmed channels to detect active conversations.

- To activate the scan function, typically a dedicated button or a long press of a specific key is used (refer to

specific model programming for details).

- When an active channel is detected, the radio will stop scanning and allow you to listen.
- To resume scanning, wait for the transmission to end or press a designated key.

## 6. CTCSS/DCS (Tone Squelch)

CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digital Coded Squelch) are sub-audible tones that filter out unwanted conversations on the same channel. Only signals with the matching tone will be heard.

- These settings are usually programmed into the radio channels using software.
- Ensure all radios in your group use the same CTCSS/DCS code on a given channel for private communication.

## 7. Squelch

Squelch eliminates background noise when no signal is being received. The LT-316 features an adjustable squelch level.

- A higher squelch level requires a stronger signal to open the receiver, reducing static but potentially missing weak signals.
- A lower squelch level allows weaker signals but may pick up more background noise.
- Squelch level is typically adjusted via programming software.

## 8. Low Battery Alert

The radio will provide an audible or visual alert when the battery level is low. Recharge the battery promptly to avoid interruption of communication.

## MAINTENANCE

### Cleaning

- Wipe the radio's surface with a soft, damp cloth.
- Do not use harsh chemicals, solvents, or abrasive cleaners.
- Ensure the charging port is free of dust and debris.

### Storage

- Store the radio in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, remove the battery and store it separately.
- Periodically charge the battery during long-term storage to maintain its health.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Battery is dead or not installed correctly.	Charge the battery. Reinstall the battery, ensuring proper contact.
Cannot transmit or receive.	Incorrect channel selected. Battery low. Radio too far apart.	Verify all radios are on the same channel. Recharge battery. Move closer to other radios.

Problem	Possible Cause	Solution
Poor audio quality or static.	Weak signal. Squelch level too low. Interference.	Move to an open area. Adjust squelch level (if programmable). Avoid sources of interference.
Radio transmits continuously (VOX issue).	VOX sensitivity too high.	Adjust VOX sensitivity or disable VOX function.

If the problem persists after attempting these solutions, please contact LUITON customer support.

## SPECIFICATIONS



**Image:** Diagram illustrating the dimensions of the LUITON LT-316 radio: 5.35 inches in height, 2.24 inches in width, and 1.22 inches for the antenna length.

Feature	Detail
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Feature	Detail
Frequency Range	400-470MHz
Channel Capacity	16 Channels
Operating Voltage	DC 3.7V
Antenna Impedance	50Ω
Working Temperature	-20°C to +60°C
Working Mode	Simplex for same/different channel
Battery	1500mAh Li-poly Battery
Dimensions (L x W x H)	96 x 55 x 22mm (3.78 x 2.17 x 0.87 inches)
Power Output	3 Watts
Standby Current	20 mA
Talking Range (Wild)	5-10 Miles
Charging	Micro-USB
Special Features	Scan, CTCSS/DCS, VOX, TOT, Low Battery Alert, Squelch

## WHAT'S IN THE BOX

Your LUITON LT-316 package includes the following items:

- 10 x LUITON LT-316 Radios
- 10 x Charging Adapters (Micro-USB)
- 10 x 1500mAh Li-poly Batteries
- 10 x Belt Clips
- *Optional:* Charger Base (may be included depending on package)



**Image:** A view of multiple LUITON LT-316 walkie talkies, along with their charging adapters, batteries, and belt clips, as typically included in a 10-piece package.

## WARRANTY AND SUPPORT

LUITON products are manufactured to high-quality standards. For warranty information or technical support, please refer to the warranty card included with your purchase or visit the official LUITON website. Please have your model number (LT-316) and purchase details ready when contacting support.

**Manufacturer:** Bond Telecom Co.,Ltd.