Fenix LD45R

Fenix LD45R 2800 Lumens Zoomable USB-C Rechargeable Flashlight User Manual

Model: LD45R

1. INTRODUCTION

The Fenix LD45R is a high-performance, rechargeable flashlight designed for various applications including outdoor activities, search and rescue, and general utility. It features a maximum output of 2800 lumens, a stepless adjustable focus between spotlight and floodlight, and an OLED display for real-time information. This manual provides detailed instructions for the proper use, maintenance, and care of your Fenix LD45R flashlight.

Image 1.1: The Fenix LD45R flashlight, showcasing its design, included USB-C charging cable, and a battery organizer.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- Fenix LD45R Flashlight (with battery pre-installed)
- USB-C Charging Cable
- Holster
- Lanyard
- LumenTac Organizer

Additional Accessories

Longhorn Tactical Organizer

Image 2.1: The included LumenTac Battery Organizer, useful for storing spare batteries or small accessories.

3. SPECIFICATIONS

The following table outlines the key technical specifications of the Fenix LD45R flashlight:

Category	Specification
Model	LD45R
Light Source	LED
Maximum Output	2800 Lumens
Beam Distance	Up to 480 meters (Spotlight)
Focus Type	Stepless Adjustable (Spotlight to Floodlight)
Display	OLED (Brightness, Battery Level, Runtime)
Charging Port	USB-C
Power Source	Lithium Ion Battery (included)
Material	Anodized Aluminum
Dimensions (L x W x H)	6.11" x 1.26" x 1.75" (155.3 x 32 x 44.5 mm)
Weight	10.72 ounces (302 g)

Category	Specification
Water Resistance	IP68 (Submersible)
Impact Resistance	1 meter

Note: Performance data is based on Fenix laboratory testing using a Fenix ARB-L21-5000 V2 battery under controlled conditions. Actual performance may vary depending on environmental factors and battery usage.

Image 3.1: The Fenix LD45R flashlight in an outdoor environment, highlighting its advanced features.

4. Setup

4.1 Battery Installation

The Fenix LD45R comes with a Lithium Ion battery pre-installed. Before first use, ensure the tail cap is securely tightened to establish electrical contact. If replacing the battery, unscrew the tail cap, insert the new battery with the positive (+) terminal facing the head of the flashlight, and then re-tighten the tail cap.

4.2 Initial Charging

It is recommended to fully charge the flashlight before its first use to ensure optimal performance and battery life. Refer to Section 6 for detailed charging instructions.

5. Operation

5.1 Power On/Off

- **To Turn On:** Long press the main switch for 0.5 seconds.
- **To Turn Off:** Long press the main switch for 0.5 seconds.

5.2 Mode Selection (General Mode)

With the flashlight turned on, single-click the main switch to cycle through the general output modes in the following order: **Eco → Low → Medium → High → Turbo**

The flashlight features intelligent memory for Eco, Low, and Medium modes. If the flashlight is turned off in High or Turbo mode, it will resume at Medium mode when turned on again to prevent accidental high output and heat generation.

5.3 Focus Adjustment (Spotlight/Floodlight)

Rotate the toggle switch located on the side of the flashlight to smoothly adjust the beam focus between a concentrated spotlight for long-range illumination and a wide floodlight for broad area coverage. This adjustment is stepless, allowing for precise control over the beam pattern.

Image 5.1: Operational diagram illustrating the electronic switch for power and output selection, and the toggle switch for beam focus adjustment.

Image 5.2: Visual representation of the stepless regulation feature, showing the transition from a focused spotlight to a wide floodlight beam.

5.4 Special Modes (Strobe & SOS)

- **Strobe:** With the flashlight turned on, long press the main switch for 1.2 seconds to activate Strobe mode.
- **SOS:** While in Strobe mode, single-click the main switch to switch to SOS mode.
- **Exit Special Modes:** Single-click the main switch to return to the previously used general output mode.

5.5 OLED Display

The integrated OLED display provides real-time information about the flashlight's status:

- **Current Lumen Value:** Shows the output level in lumens.
- **Current Selected Output:** Indicates the active brightness level (e.g., Lv.5 for Turbo).
- **Remaining Battery Level:** Displays a graphical representation of the battery charge.

Image 5.3: Close-up of the OLED smart display, providing essential operational data at a glance.

6. CHARGING

The Fenix LD45R features a convenient USB-C charging port for quick and efficient recharging.

- **Charging Port Location:** The USB-C charging port is located on the neck of the flashlight.
- **Charging Process:** Connect the supplied USB-C charging cable to the flashlight's port and to a USB power source (e.g., wall adapter, power bank, computer).
- **Charging Indicator:** The OLED display will show charging progress and battery level.
- **Charging Time:** A full charge typically takes approximately 3 hours with a compatible fast charger.
- **Operation During Charging:** The flashlight can be used in Eco and Low brightness modes while charging. Higher output modes may cause battery drain or prevent charging.

Image 6.1: The USB-C charging port on the flashlight's neck, demonstrating the charging connection.

7. MAINTENANCE

- **Cleaning:** Clean the flashlight body with a soft cloth. For optical surfaces, use a lens cleaning cloth.
- **Lubrication:** Periodically lubricate the O-rings with silicone grease to maintain water resistance.
- **Battery Care:** Store the flashlight with a partially charged battery if not used for extended periods. Recharge every few months to prevent battery degradation.
- **Contact Points:** Keep the electrical contact points clean to ensure reliable operation.

8. TROUBLESHOOTING

If your Fenix LD45R flashlight is not functioning correctly, please refer to the following common issues and solutions:

- **Flashlight does not turn on:**

  - Ensure the tail cap is fully tightened.
  - Check if the battery is inserted correctly with the positive (+) terminal facing the head.
  - Charge the battery; it may be depleted.
  - Clean the battery contact points and the flashlight's contact surfaces.

- **Output decreases or flashlight gets hot quickly:**

  - High output modes (High, Turbo) generate significant heat. The flashlight has a built-in intelligent overheat protection system that will automatically reduce output to prevent damage. This is normal operation.
  - Ensure adequate airflow around the flashlight during prolonged high-output use.

- **Battery drains rapidly:**

    - Using the flashlight continuously on High or Turbo modes will consume battery power quickly.

    - Ensure the battery is fully charged before use.

    - Verify the battery is a genuine Fenix battery or a high-quality equivalent.

- **Beam adjustment is not smooth:**

    - Check for any debris or obstructions around the toggle switch.

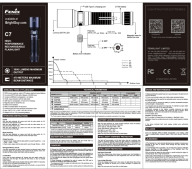   - Ensure the flashlight is clean and free from dirt.

9. WARRANTY AND SUPPORT

The Fenix LD45R flashlight is covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Fenix website. For technical support, service, or replacement parts, please contact your authorized Fenix dealer or the Fenix customer service department.

You can find more information and contact details on the Fenix Store on Amazon.

Related Documents - LD45R

Fenix C7 LED Flashlight User Manual and Specifications
Comprehensive guide to the Fenix C7 LED flashlight, covering features, technical specifications, usage instructions, battery management, and safety warnings. Includes details on charging, intelligent protection, and maintenance.

Fenix PD36R Pro Flashlight User Manual
Comprehensive user manual for the Fenix PD36R Pro flashlight, detailing features, operation, specifications, and maintenance.

[Fenix TK30R Tactical LEP Flashlight User Manual - 1500m Beam](#)

Comprehensive user manual for the Fenix TK30R tactical flashlight, detailing its LEP technology, 500-lumen output, 1500-meter beam distance, USB-C charging, specifications, operation, and safety warnings.

[Fenix HM60R V2.0 Headlamp User Manual](#)

The Fenix HM60R V2.0 is a high-performance metal headlamp featuring a spotlight, floodlight, and red light. This manual provides detailed instructions for its use, specifications, and safety precautions.

[Fenix LR50R Flashlight User Manual and Specifications](#)

Comprehensive guide to the Fenix LR50R flashlight, covering technical specifications, operating instructions, battery details, and maintenance. Features 12000 lumens, USB-C charging, and multiple modes.

[Fenix PD36R V2.0 Compact Rechargeable Tactical Flashlight User Manual](#)

Comprehensive user manual for the Fenix PD36R V2.0 tactical flashlight, detailing its 1700-lumen output, 396-meter beam distance, USB-C charging, operating modes, technical specifications, and maintenance.