

BERCOL P50-5

BERCOL P50-5 Rechargeable LED Flashlight User Manual

Model: P50-5

1. INTRODUCTION

Thank you for choosing the BERCOL P50-5 Rechargeable LED Flashlight. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your device. Please read this manual thoroughly before use and retain it for future reference.

2. PRODUCT OVERVIEW

The BERCOL P50-5 is a high-performance LED flashlight designed for various applications, featuring adjustable brightness, a rechargeable battery, and a durable, waterproof construction.

2.1 Key Features

- **Adjustable Brightness:** Offers multiple lighting modes for versatile use.
- **Rechargeable Battery:** Convenient USB charging with extended runtime.
- **Waterproof Design:** IPX6 rating ensures functionality in wet conditions.
- **Durable Construction:** Made from robust aluminum for portability and longevity.
- **Zoomable Function:** Adjustable focus from a wide floodlight to a narrow spotlight.

2.2 Components

Familiarize yourself with the main components of your flashlight:



Figure 1: Exploded view showing the flashlight's components including the lens, LED, battery compartment, power switch, and lanyard.

The image displays an exploded view of the BERCOL P50-5 flashlight, detailing its internal and external parts. Key components visible include the high transmittance lens, the LED light source, the heat sink for thermal management, the power switch with integrated power display, the battery compartment, and the anti-slip texture on the body. A lanyard is also shown attached for secure handling.



Figure 2: Diagram highlighting superior components and features.

This diagram illustrates the advanced features and construction of the BERCOL P50-5 flashlight. It points out the convex lens, ergonomic grooves for grip, an adjustable mode button, the rechargeable battery, zoom focus mechanism, sealed enclosure for protection, and a sealed cover. Icons also indicate drop resistance, precision design, waterproof capability, and rechargeability.

3. SETUP

3.1 Battery Installation

To install the battery:

1. Unscrew the tail cap of the flashlight.

2. Insert the rechargeable battery with the positive (+) end facing towards the flashlight head (LED).
3. Screw the tail cap back on securely.



Figure 3: Visual guide for correct battery installation.

This image provides a four-step visual guide for installing the battery. It shows unscrewing the back cover, identifying positive and negative battery terminals, inserting the battery with the positive end facing inward, and finally twisting the flashlight cover to close it securely.

3.2 Initial Charging

Before first use, fully charge the flashlight battery. Refer to the 'Charging' section for detailed instructions.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

Press the power button located on the side of the flashlight to turn it on or off.

4.2 Switching Modes

With the flashlight on, press the power button repeatedly to cycle through the 5 available lighting modes:

- High Light
- Medium Light
- Low Light
- Strobe
- SOS



Figure 4: Visual representation of the 5 lighting modes and their approximate runtimes.

This image illustrates the five distinct lighting modes of the BERCOL P50-5 flashlight: High, Medium, Low, Strobe, and SOS. Each mode is depicted with an icon and an example of its illumination in a dark environment, along with its approximate battery runtime.

4.3 Zoom Function

To adjust the beam focus, gently pull or push the head of the flashlight. This allows you to switch between a wide floodlight for broad area illumination and a narrow spotlight for long-distance viewing.



Figure 5: Demonstration of the flashlight's zoomable feature.

The image demonstrates the zoomable functionality of the flashlight. It shows the flashlight head being extended and retracted, illustrating how to adjust the focus from a wide beam to a narrow, concentrated beam for different lighting needs.

4.4 Power Indicator

The power button features integrated LED indicators to display the remaining battery charge. Observe these indicators to monitor battery status.

BERCOL P50-5 flashlight power display during charging

Figure 6: Power display indicators during charging.

This image shows the power display on the flashlight, indicating battery charge levels (100%, 75%, 50%, 25%) via blue LED lights. It also illustrates various charging methods, including power bank, AC charger, computer, and car charger, highlighting the versatility of its USB charging capability.

5. CHARGING

The BERCOL P50-5 flashlight is equipped with a USB charging port for convenient recharging.

5.1 Charging Procedure

1. Locate the USB charging port on the flashlight, typically protected by a rubber cap.
2. Gently lift the rubber cap to expose the port.
3. Connect the provided USB cable to the flashlight's port and the other end to a compatible USB power source (e.g., wall adapter, power bank, computer USB port).
4. The power indicator lights will illuminate to show charging status. When fully charged, all indicator lights will be solid.

5. Once charging is complete, disconnect the USB cable and securely close the rubber cap to maintain water resistance.



Figure 7: USB charging port and built-in protections.

This image highlights the USB charging port on the flashlight, emphasizing its direct charging capability. It also lists key safety features such as overvoltage protection, overcharge protection, and over-discharge protection, ensuring safe battery management. Various compatible charging sources like wall adapters, power banks, and laptops are also shown.

6. MAINTENANCE

6.1 Cleaning

Wipe the flashlight body with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they may damage the finish or internal components.

6.2 Storage

Store the flashlight in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, it is recommended to partially charge the battery every few months to maintain battery health.

6.3 Water Resistance

The flashlight has an IPX6 water resistance rating, meaning it is protected against powerful water jets. Ensure the USB charging port's rubber cap is securely closed to maintain this protection.



Figure 8: Flashlight demonstrating IPX6 water resistance.

This image shows the BERCOL P50-5 flashlight being subjected to water, illustrating its IPX6 water resistance. Insets highlight the rubber cap protecting the charging port and a rubber ring for waterproofing, emphasizing the design features that contribute to its water-resistant capabilities.

7. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|------------------------------|--------------------------------|---|
| Flashlight does not turn on. | Low battery. | Charge the battery. |
| | Battery incorrectly installed. | Check battery polarity and re-install. |
| | Loose connections. | Ensure tail cap is fully tightened. |
| Light is dim or flickers. | Low battery. | Charge the battery. |
| | Dirty contacts. | Clean battery and flashlight contacts with a clean cloth. |
| Flashlight does not charge. | USB cable or adapter faulty. | Try a different USB cable or power adapter. |
| | Charging port obstructed. | Ensure charging port is clear of debris. |

8. SPECIFICATIONS

| Feature | Detail |
|---------------------|------------------------------------|
| Model Number | P50-5 |
| Light Source Type | LED |
| Brightness | Up to 100,000 Lumens |
| Lighting Modes | 5 (High, Medium, Low, Strobe, SOS) |
| Power Source | Rechargeable Battery (USB Powered) |
| Material | Aluminum |
| Water Resistance | IPX6 |
| Product Dimensions | 2"D x 2"W x 3"H (Approximate) |
| Included Components | USB Cable |

9. SAFETY INFORMATION

- Do not look directly into the LED light when operating, as it can cause temporary vision impairment.
- Keep out of reach of children.
- Do not disassemble the flashlight, as this may void the warranty and cause damage.
- Use only the specified battery type and charging cable.
- Avoid exposing the flashlight to extreme heat or fire.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact BERCOL customer service directly. Keep your purchase receipt as proof of purchase.

11. PRODUCT VIDEO

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Video 1: An overview of the BERCOL P50-5 flashlight, demonstrating its brightness, various lighting modes (High, Medium, Low, Strobe, SOS), telescopic zoom function, power display, and IPX5 water resistance. The video also highlights its good heat dissipation.