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Kastar BA-1B-L160T-D

Kastar BA-1B-L160T-D Lithium-ion Battery Instruction Manual

Model: BA-1B-L160T-D

1. Introduction

This instruction manual provides essential information for the safe and effective use of your Kastar BA-1B-L160T-D Lithium-ion Battery. This battery is designed as a replacement for various laser level models, including KINAVEL 16 Lines Laser Level, KERATETY Lazer Leveler Tool, WAABENN 4x360° 4D Green Cross Line Horizontal/Vertical Laser Line, and Firecore 3 X 360 Green Laser Level. Please read this manual thoroughly before first use and retain it for future reference.

2. Safety Information

Your safety is paramount. Please observe the following precautions:

- Do not incinerate the battery.
- Do not disassemble the battery.
- Do not short-circuit the battery terminals.
- Dispose of property according to local regulations.
- Do not expose the battery to high temperatures exceeding 140°F (60°C).
- Keep the battery away from water and moisture.
- Store in a cool, dry place when not in use.
- This battery includes built-in over-charge, over-discharge, over-voltage, over-current, and over-heating protection circuits to ensure safe operation.

The Kastar lithium-ion battery cells meet UL1642 & CE safety standards.

3. Package Contents

Verify that all items are present in your package:

- 1 x Kastar BA-1B-L160T-D Lithium-ion Battery



Image: The Kastar battery packaging, showing the product box with branding and key features.

4. Specifications

Battery Type	Lithium-ion
Battery Voltage	7.2V
Battery Capacity	2400mAh
Model Number	BA-1B-L160T-D
Product Dimensions	2 x 1 x 3 inches
Item Weight	4 ounces



Image: The reverse side of the Kastar battery, displaying its label with specifications such as voltage and capacity.

5. Setup: Charging the Battery

Before initial use, fully charge the battery.

1. Locate the Type-C charging port on the battery.
2. Connect a Type-C USB cable to the battery's charging port.
3. Connect the other end of the USB cable to a 5V 2A adapter (not included) or a compatible USB power source.
4. During charging, the LED indicator on the battery will display a**red light**.
5. Once fully charged, the LED indicator will turn**blue**.
6. Disconnect the charging cable once charging is complete.



Image: The Kastar battery shown alongside a USB-A to USB-C charging cable, highlighting the Type-C port on the battery.



Image: Two views of the Kastar battery, one showing a red LED indicating charging, and the other showing a blue LED indicating a full charge.

6. Operating the Battery

6.1 Battery Installation

This battery is designed for compatibility with specific laser level models. Refer to your laser level's instruction manual for precise battery compartment location and installation procedures. Generally, follow these steps:

1. Ensure your laser level is powered off.
2. Locate and open the battery compartment on your laser level.
3. Insert the Kastar battery, aligning the contacts correctly. The battery should fit securely.
4. Close the battery compartment cover.
5. Power on your laser level to confirm proper installation and operation.

6.2 LED Indicators

- **Red Light:** Indicates the battery is currently charging.
- **Blue Light:** Indicates the battery is fully charged.

7. Maintenance

- **Cleaning:** Use a dry, soft cloth to clean the battery terminals and exterior. Do not use liquid cleaners.
- **Storage:** If storing the battery for an extended period, charge it to approximately 50-70% capacity and store it in a cool, dry place away from direct sunlight and extreme temperatures. Recharge every 3-6 months to prevent deep discharge.
- **Disposal:** Do not dispose of the battery with household waste. Follow local regulations for proper disposal of lithium-ion batteries. Many electronics retailers and recycling centers offer battery recycling services.

8. Troubleshooting

Problem	Possible Cause	Solution
Battery not charging (no LED light)	Charging cable not properly connected. Faulty charging cable or adapter. Battery deeply discharged.	Ensure cable is securely connected to both battery and power source. Try a different Type-C cable and 5V 2A adapter. Allow battery to charge for a longer period; it may take time to initiate charging from a deep discharge state.
Battery not powering device	Battery not fully charged. Battery not correctly installed in device. Device issue.	Ensure battery is fully charged (blue LED). Re-install the battery, ensuring contacts are aligned. Test the device with another known-good battery if available.
Battery drains quickly	Normal wear and tear (aging battery). Operating in extreme temperatures.	Battery capacity naturally decreases over time. Avoid using the device in very hot or cold conditions.

9. Warranty and Support

Kastar provides quality products. While specific warranty details are not fully outlined in this manual, the product packaging indicates an 18-month warranty. For warranty claims, technical support, or further assistance, please contact Kastar customer service through their official channels or the retailer where the product was purchased.
Manufacturer: Kastar
Date First Available: July 23, 2022

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