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> Nitecore NL1416R 1600mAh USB-C Rechargeable Battery Instruction Manual

## Nitecore NL1416R

# Nitecore NL1416R 1600mAh USB-C Rechargeable Battery Instruction Manual

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## 1. PRODUCT OVERVIEW

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The Nitecore NL1416R is a high-capacity 1600mAh USB-C rechargeable Li-ion battery designed for high-drain devices, such as the Nitecore MT2A Pro flashlight. It features an integrated USB-C charging port and a light indicator for charging status. This battery incorporates advanced safety features, including a built-in intelligent protective circuit and a pressure relief valve, to prevent overcharging, over-discharging, and short circuits. Constructed with durable materials like nickel-plated stainless steel protectors and a metallic film coating, the NL1416R offers enhanced resilience and efficient conductivity.



Image 1.1: The Nitecore NL1416R 1600mAh USB-C Rechargeable Battery, showcasing its compact design.

## 2. SETUP AND FIRST USE

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Before initial use, fully charge the Nitecore NL1416R battery. The battery comes with an integrated USB-C charging port for convenience.

1. **Initial Charge:** Connect a standard USB-C cable to the battery's charging port and to a USB power source (e.g., wall adapter, computer USB port).
2. **Charging Indicator:** A light indicator on the battery will illuminate during charging. This indicator will change color or turn off once the battery is fully charged. Refer to the "Operating" section for details on indicator behavior.
3. **Battery Insertion:** Once charged, insert the battery into your compatible device, such as the Nitecore MT2A Pro flashlight, ensuring correct polarity.

## 3. OPERATION

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### 3.1 Charging the Battery

The NL1416R battery features a built-in USB-C charging port, eliminating the need for an external charger.

- **Connect:** Plug a USB-C cable into the battery's USB-C port.
- **Power Source:** Connect the other end of the USB-C cable to any compatible USB power source (e.g., USB wall adapter, power bank, computer USB port).
- **Charging Status Indicator:** The indicator light on the battery will show the charging status.
  - **Red Light (or similar):** Indicates the battery is currently charging.
  - **Green Light (or similar) / Light Off:** Indicates the battery is fully charged.

*Note: The exact color or behavior of the indicator may vary slightly. Always ensure the indicator signals a full charge before disconnecting.*

### 3.2 Using the Battery in Devices

The NL1416R is designed for devices requiring high-drain 14500-sized Li-ion batteries, such as the Nitecore MT2A Pro flashlight.

- **Insertion:** Insert the battery into your device according to the device's instructions, paying close attention to polarity (+/-). Incorrect insertion can damage the battery or device.
- **Discharge:** The battery provides a continuous 5A discharge current, suitable for devices requiring consistent power output.

Your browser does not support the video tag.

Video 3.1: This video demonstrates the Nitecore MT series EDC flashlights, including the MT2A Pro, which is compatible with the NL1416R battery. It provides context for the battery's intended use.

## 4. MAINTENANCE AND STORAGE

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- **Regular Charging:** For optimal performance and longevity, avoid fully discharging the battery. Recharge it when the device indicates low power.
- **Storage:** Store the battery in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, it is recommended to charge the battery to approximately 50% capacity.
- **Cleaning:** Keep the battery contacts clean. Use a dry, soft cloth to wipe away any dust or debris.
- **Avoid Impact:** While designed with impact protection, avoid dropping or subjecting the battery to severe physical shocks.
- **Disposal:** Dispose of depleted or damaged batteries responsibly according to local regulations. Do not dispose of batteries in general waste.

## 5. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Battery not charging.	<ul style="list-style-type: none"> <li>• USB-C cable or power source faulty.</li> <li>• Battery charging port obstructed.</li> <li>• Battery fully charged.</li> </ul>	<ul style="list-style-type: none"> <li>• Try a different USB-C cable and power source.</li> <li>• Check and clean the USB-C port.</li> <li>• Verify the charging indicator status.</li> </ul>

Problem	Possible Cause	Solution
Device not powering on with battery.	<ul style="list-style-type: none"> <li>Battery not inserted correctly.</li> <li>Battery depleted.</li> <li>Device incompatibility.</li> <li>Battery contacts dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Re-insert battery, ensuring correct polarity.</li> <li>Charge the battery fully.</li> <li>Ensure your device is compatible with 14500 Li-ion batteries.</li> <li>Clean battery contacts on both the battery and the device.</li> </ul>
Reduced runtime or performance.	<ul style="list-style-type: none"> <li>Battery aging.</li> <li>Operating in extreme temperatures.</li> <li>High-drain usage.</li> </ul>	<ul style="list-style-type: none"> <li>Battery capacity naturally degrades over time. Consider replacement if significantly reduced.</li> <li>Use within recommended temperature ranges.</li> <li>Ensure the device's power requirements match the battery's capabilities.</li> </ul>

## 6. PRODUCT SPECIFICATIONS

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Feature	Detail
Model Number	NL1416R
Battery Type	Lithium Ion (Li-ion)
Capacity	1600 mAh
Amperage / Discharge Current	5 Amps (continuous)
Reusability	Rechargeable (via USB-C)
Charging Port	USB-C
Safety Features	Intelligent protective circuit, pressure relief valve (overcharging, over-discharging, short circuit protection)
Dimensions	3.86 x 0.56 x 0.56 inches
Weight	1.6 Ounces (approx. 45 Grams)
Recommended Use	Flashlights (e.g., Nitecore MT2A Pro)

## 7. WARRANTY INFORMATION

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The Nitecore NL1416R battery comes with a **12-month manufacturer warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

The warranty does not cover damage caused by misuse, unauthorized modification, improper storage, or normal wear and tear. For detailed warranty terms and conditions, please refer to the official Nitecore website or contact customer support.

## 8. CUSTOMER SUPPORT

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For technical assistance, product inquiries, or warranty claims, please contact Nitecore customer support through their official channels.

- **Official Website:** Visit the [Nitecore official website](#) for product information, FAQs, and support contact details.
- **Seller Support:** If purchased from a specific retailer, you may also contact the seller for assistance. For purchases made via Amazon, refer to your order details for seller contact information.

Please have your product model number (NL1416R) and proof of purchase ready when contacting support.