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› Nitecore UI2 Dual-Slot Intelligent Lithium-ion Battery USB Charger User Manual

Nitecore UI2

Nitecore UI2 Dual-Slot Intelligent Lithium-ion Battery USB Charger User Manual

PRODUCT OVERVIEW

The Nitecore UI2 is a compact, dual-slot USB Li-ion battery charger designed for efficient and safe charging of various lithium-ion batteries. It features a maximum charging current of 800mA per slot and supports a wide range of battery sizes, including 18650, 18350, 20700, 21700, 14500, and 16340. The UI2 incorporates intelligent charging modes and multiple safeguards to protect against issues like reverse polarity, overcharge, and overheating. Its micro-USB port allows for versatile power input from sources such as power banks, solar panels, and USB adapters, making it suitable for both indoor and outdoor use. The lightweight and portable design ensures convenience for users on the go.



Image: The Nitecore UI2 charger, showcasing its compact design and dual charging slots with batteries inserted.

SETUP INSTRUCTIONS

1. **Connect to Power Source:** Connect the micro-USB port of the Nitecore UI2 charger to a compatible USB power source. This can be a USB adapter, a power bank, or a solar panel. Ensure the power source provides DC 5V/2A (10W) for optimal performance.
2. **Power Indicator Check:** Upon successful connection, the power indicators on the charger will illuminate, indicating it is ready for use.

NITECORE®

UI2 → Portable Dual-Slot USB
Li-ion Battery Charger

Micro-USB Port for Outdoor Charging

Compatible with various mobile power source, solar panel and USB adaptors to ensure endless power supply.



USB Adaptor



Conventional
Power Bank



Solar Panel



NITECORE F2
Flexible Power Bank



These images are for guide purpose only, actual result may vary depending on ambient factors.
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Image: The Nitecore UI2 charger demonstrating its Micro-USB port connectivity with a USB adaptor, conventional power bank, and solar panel.

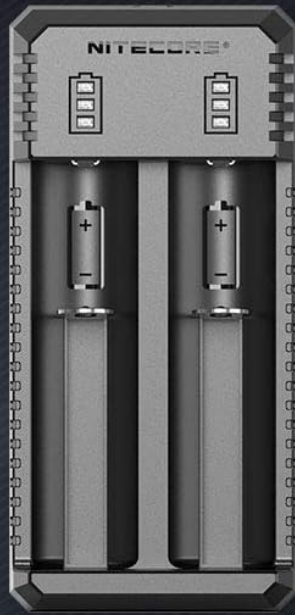
OPERATING INSTRUCTIONS

Inserting Batteries

- Carefully insert one or two compatible Li-ion/IMR batteries into the charging slots, ensuring correct polarity (+ and - ends match the markings on the charger).
- The charger is designed to accommodate various battery sizes, including larger 20700 and 21700 batteries.

NITECORE®

UI2 → Portable Dual-Slot USB
Li-ion Battery Charger



Powerful Compatibility

Compatible for 3.7V Rechargeable Li-ion Batteries

Available for Large-Sized
20700, 21700 Batteries



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Image: The Nitecore UI2 charger highlighting its compatibility with various 3.7V rechargeable Li-ion batteries, including large-sized 20700 and 21700 batteries.

Charging Process and Indicators

- The UI2 automatically detects the battery type and applies the optimal charging mode.
- For batteries with a voltage below 2.9V, the charger enters **Low Current Charging Mode** with a charging current of 100mA to protect and maximize battery cycle durability.
- For batteries with a voltage above 2.9V, the charger enters **Standard Mode** with a maximum charging current of 800mA per slot.
- The power indicators provide real-time display of battery level and charging status. Each slot has its own set of indicators.

NITECORE®

UI2 → Portable Dual-Slot USB
Li-ion Battery Charger

Single Slot Max Charging Current of 800mA

Available for low current charging below 2.9V
for protecting the batteries and maximizing the
battery cycle durability

When a battery with a voltage below 2.9V is inserted, the UI2 will
automatically access the Low Current Charging Mode with a
charging current of 100mA. When a battery with a voltage over
2.9V is inserted, it will access the Standard Mode with a max
charging current of 800mA.



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Image: The Nitecore UI2 charger illustrating its single slot maximum charging current of 800mA and the low current charging mode for batteries below 2.9V.

NITECORE®

UI2 → Portable Dual-Slot USB
Li-ion Battery Charger

Explicit and Simple Power Indicators

For real-time display of battery level and
charging status



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Image: The Nitecore UI2 charger with clear power indicators providing real-time battery level and charging status for each slot.

MAINTENANCE

- **Cleaning:** Regularly clean the charger's contacts and slots with a dry, soft cloth to ensure optimal conductivity and prevent debris buildup. Do not use liquid cleaners.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity when not in use.
- **Handling:** Avoid dropping the charger or subjecting it to strong impacts, as this can damage internal components.

TROUBLESHOOTING

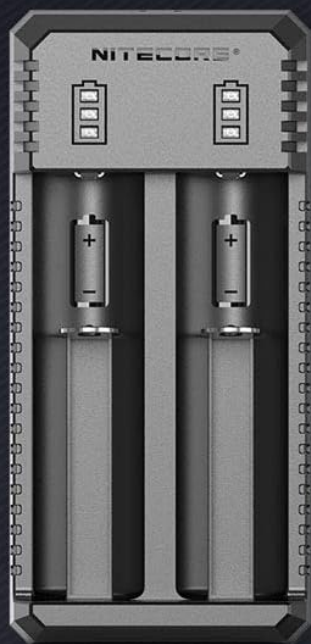
- **Charger Not Powering On:** Ensure the USB cable is securely connected to both the charger and the power source. Verify that the power source is functional and provides sufficient power (DC 5V/2A).
- **Battery Not Charging:** Check that the battery is inserted with correct polarity. Ensure the battery is a compatible Li-ion/IMR type and not severely damaged or completely depleted beyond recovery.
- **Indicator Lights Not Working:** If the indicator lights do not respond, try a different USB cable or power source. If the issue persists, the charger may require service.
- **Overheating:** While the UI2 has overheating protection, if you notice excessive heat, disconnect the charger immediately. Ensure adequate ventilation around the charger during operation.

SPECIFICATIONS

Input	DC 5V/2A 10W
Output Voltage	4.2V±1%
Output Current	800mA*2 (MAX)
Compatible with	Li-ion/IMR: 10340, 10350, 10440, 10500, 12340, 12500, 12650, 13450, 13500, 13650, 14430, 14500, 14650, 16500, 16340 (RCR123), 16650, 17350, 17500, 17650, 17670, 18350, 18490, 18500, 18650, 20700, 21700, 22500, 22650, 25500, 26500, 26650
Dimensions	125.5mm × 59.5mm × 32.1mm (4.94" × 2.34" × 1.26")
Weight	79.5g (2.8oz)
Model Number	UI2

NITECORE®

UI2 → Portable Dual-Slot USB
Li-ion Battery Charger



Specifications

Input: DC 5V/2A 10W
Output: 4.2V±1% 800mA*2 (MAX)

Compatible with:

Li-Ion/IMR: 10340, 10350, 10440, 10500, 12340, 12500, 12650, 13450, 13500, 13650, 14430, 14500, 14650, 16500, 16340 (RCR123), 16650, 17350, 17500, 17650, 17670, 18350, 18490, 18500, 18650, 20700, 21700, 22500, 22650, 25500, 26500, 26650

Dimensions: 125.5mmx59.5mmx32.1mm (4.94"x2.34"x1.26")
Weight: 79.5g (2.8oz)

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Image: The Nitecore UI2 charger accompanied by a list of its technical specifications, including input/output, compatibility, dimensions, and weight.

WARRANTY INFORMATION

This Nitecore product is covered by a manufacturer's warranty. Please refer to the warranty card included with your purchase or visit the official Nitecore website for detailed warranty terms and conditions. Keep your purchase receipt as proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact Nitecore customer support. Contact information can typically be found on the official Nitecore website or on the product packaging. When contacting support, please have your product model (UI2) and purchase details ready.