**UI1 USER MANUAL**

**Features**

* Portable USB Battery Charger
* Compatible for 3.7V rechargeable Li-ion batteries
* Available for low current charging below 2.9V
* USB Input
* Automatic adoption for the optimal charging modes between CC and CV
* Automatic termination upon charging completion
* Reverse polarity protection and anti-short circuit protection
* Thermal protection during the charging process
* Activates over-discharged batteries with protective circuits
* Compatible with power banks, 5V solar panels and USB adaptor
* Made from durable and fire retardant PC materials
* Optimal heat dissipation design
* Insured worldwide by Ping An Insurance (Group) Company of China, Ltd.

**Accessories**

USB Charging Cable

**Specifications**

Input: DC 5V/1A 5W

Output: 4.2V±1%

800mA (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: 122.5mm×29.2mm×32mm (4.82”×1.15”×1.26”)

Weight: 40.5g (1.43oz)

**Operating Instructions**

**Connect to the power source:** Connect the UI1 to an external power source (a USB adapter, a computer or other USB charging devices) via the USB charging cable. After connecting to the power source, the indicators will glow for approx. 1 second before they go out.

**Insert the battery:** The UI1 features 1 charging slot available for charging variously sized rechargeable Li-ion batteries. Please insert the battery of supported types into the slot according to the polarity mark on the slot. When the battery is inserted with the polarities reversed, the battery will not be charged, and all 3 indicators will flash to indicate an error.

**Charging indication:** When the charging status is normal, the indicators will flash to indicate the battery level. When the battery is fully charged, all 3 indicators will glow steadily. When the charging status is abnormal (e.g. the battery is short-circuited), all 3 indicators will flash to indicate an error.

**Charging current:** The UI1 is available for low current charging below 2.9V. When a battery with a voltage below 2.9V is inserted, the charger 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.

**Over-Discharged Li-ion Battery Activation**

The UI1 is capable of activating over-discharged Li-ion batteries with a protective circuit. After battery installation, UI1 will test and activate the battery before charging. When a battery is detected as damaged, the indicators will not be turned on. In this case, please cease the charging process immediately.

**Note:** Please DO NOT charge unprotected 0V over-discharged Li-ion batteries, or it will result in fire or even battery explosions.

**Thermal Protection Function**

When the charger is overheated due to the high temperature of the working environment, the UI1 will automatically regulate the charging current to protect the charger and the battery.

**Anti-short Circuiting and Reverse Polarity Protection**

If the battery is inserted with polar reversed or short-circuited, all 3 indicators will flash to indicate an error.

**Precautions**

1. The charger is restricted to charging Li-ion and IMR rechargeable batteries only. DO NOT use the charger with other types of batteries as this could result in battery explosion, cracking or leaking, causing property damage and/or personal injury.
2. Moderate heat from this product is to be expected during the charging process, which is normal.
3. Ambient Temperature of Usage: -10~40℃ (14~104℉); Temperature of Storage: -20~60℃ (-4~140℉)
4. Carefully read all labels on the device to ensure batteries are installed correctly.
5. Please connect this charger to power supplies with the input voltage stated in the specifications of the user manual. If the input voltage is too low or too high, it may lead to malfunctions, or even a fire.
6. DO NOT charge batteries if there is any sign of faulty or short circuit.
7. The charger is only to be used by adults above 18 years old. Children under this age must be supervised by an adult when using the charger.
8. DO NOT leave the product unattended while it is connected to a power supply. Unplug the product at any sign of malfunction.
9. DO NOT attempt to charge primary cells such as Zinc-Carbon, Lithium, CR123A, CR2, or any other unsupported chemistry due to risk of explosion and fire.
10. DO NOT charge a damaged IMR battery as doing so may lead to charger short-circuit or even explosion.
11. DO NOT charge or discharge any battery having evidence of leakage, expansion/swelling, damaged outer wrapper or case, color-change or distortion.
12. Use the original adapter and cord for power supply. To reduce the risk of damage to the power cord, ALWAYS pull by the connector rather than the cord. DO NOT operate the charger if it appears damaged in any way.
13. DO NOT expose the device to direct sunlight, heating devices, open flames, or rain and snow environment; avoid extreme high or extreme low ambient temperatures and sudden temperature changes.
14. Store the device in ventilated areas. DO NOT use the device in moist environment and keep away from any combustible materials.
15. Avoid any shock or impact to the device.
16. DO NOT place any conductive or metal object in the device to avoid short circuiting and explosions.
17. DO NOT overcharge or over-discharge the batteries. Please recharge the battery as soon as the power runs out.
18. Unplug the device and remove all batteries when it is not in use.
19. DO NOT disassemble or modify the device as doing so will render the product warranty invalid. Please refer to the warranty section in the manual for complete warranty information.
20. DO NOT misuse in any way! Use for intended purpose and function only.

**Disclaimer**

This product is globally insured by Ping An Insurance (Group) Company of China, Ltd. NITECORE shall not be held responsible or liable for any loss, damage or claim of any kind incurred as a result of the failure to obey the instructions provided in this user manual.

**Warranty Details**

Our authorized dealers and distributors are responsible for warranty service. Should any problem covered under warranty occurs, customers can contact their dealers or distributors in regards to their warranty claims, as long as the product was purchased from an authorized dealer or distributor. NITECORE’s Warranty is provided only for products purchased from an authorized source. This applies to all NITECORE products.

To be qualified for warranty, please refer to the “IMPORTANT WARRANTY NOTICE” section on top to validate your product.

Any DOA / defective product can be exchanged for a replacement through a local distributor/dealer within the 15 days of purchase. After 15 days, all defective / malfunctioning NITECORE® products can be repaired free of charge for a period of 12 months (1 year) from the date of purchase. Beyond 12 months (1 year), a limited warranty applies, covering the cost of labor and maintenance, but not the cost of accessories or replacement parts.

The warranty is nullified if the product(s) is/are:

1. broken down, reconstructed and/or modified by unauthorized parties

2. damaged from wrong operations (i.e. reverse polarity installation, installation of non-rechargeable batteries or failure to obey the warnings)

3. damaged by batteries leakage.

For the latest information on NITECORE® products and services, please contact a local NITECORE® distributor or send an email to service@nitecore.com.

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**Safety Instruction for Lithium-ion Batteries**

1. **Charging Current**

For all rechargeable Lithium batteries (including Li-ion, IMR and LiFePO4 batteries), we suggest not using current larger than 1C\* for charging. For small capacity batteries, the charging current must be smaller than 1C.

\*C=Capacity of a battery. For example, 1C in a 2600mAh rechargeable Lithium battery is 2.6A. 1C in a 3400mAh rechargeable Lithium battery is 3.4A.

Excessively large charging current will lead to great amount of heat, and consequently battery damage and explosion.

1. **Precautions**
2. DO NOT short circuit the battery in any way.
3. DO NOT use a 3.7V/3.8V Lithium battery when its voltage is lower than 2.8V, otherwise it can be over-discharged, and/or prone to explosion at next charging.
4. We strongly recommend batteries with protective circuit. For batteries without protective circuit (such as IMR batteries), please stay alert for over-discharge and short circuit.
5. DO NOT discharge a battery with a discharging current larger than its maximum rated current.
6. **Long-term Storage**

The best storage voltage for 3.7V/3.8V rechargeable Lithium batteries is 3.7V. Voltage too low or too high can damage your battery during storage. You can discharge a battery to 3.7V, or charge it to 3.7V in a charger before you keep it in long-term storage.