

Nitecore D2

Nitecore D2 Smart Charger User Manual

Model: D2

1. INTRODUCTION

The Nitecore D2 is an advanced universal smart charger compatible with nearly all cylindrical rechargeable batteries. It automatically detects Li-ion, IMR, LiFePO4, Ni-MH, and Ni-Cd batteries, and through intelligent circuitry, selects the optimal charging mode (CC, CV, and dV/dt). The integrated LCD panel clearly displays charging parameters and progress. The D2 features two independently controlled charging slots, allowing for simultaneous charging of different battery types.

2. SAFETY INFORMATION

- Use the charger only with compatible rechargeable batteries as listed in the specifications. Attempting to charge non-rechargeable batteries may cause explosion, rupture, or leakage, resulting in property damage and/or personal injury.
- Ensure correct battery polarity (+/-) when inserting batteries into the charging slots. The charger features reverse polarity protection.
- Do not leave charging batteries unattended.
- Keep the charger away from water, high humidity, and extreme temperatures.
- The charger is constructed from durable ABS (fire retardant/flame resistant) material for enhanced safety.
- Do not disassemble or modify the charger.
- Unplug the charger from the power source when not in use.

3. PACKAGE CONTENTS

- Nitecore D2 Smart Charger
- AC Power Cord (for wall outlet)
- 12V DC Car Power Cord
- 2 x EdisonBright AA to D Battery Converter Spacers
- User Manual



This image displays the Nitecore D2 Smart Charger, its retail packaging, included AC wall adapter, 12V DC car adapter, and two EdisonBright AA to D battery converter spacers.

4. PRODUCT FEATURES

- Intelligent circuitry detects battery type and status.
- Automatic selection of appropriate voltage and charge mode (CC, CV, dV/dt).
- Compatible with LiFePO4 batteries (manual selection required).
- Supports small capacity batteries.
- Automatic charging termination upon completion.
- Over-charge prevention and temperature monitoring.
- Reverse polarity protection.
- Designed for optimal heat dissipation.
- Integrated LCD panel displays charging parameters and progress.

5. SETUP

1. **Connect Power:** Plug the AC power cord into the charger and then into a wall outlet, or connect the 12V DC

car power cord to the charger and then to your vehicle's 12V DC socket. The charger will perform a self-test, and the LCD screen will illuminate.

2. **Initial Display:** When no batteries are inserted, the LCD will display "null".

6. OPERATING INSTRUCTIONS

6.1 Inserting Batteries

Insert one or two rechargeable batteries into the D2's charging slots. The charger will automatically identify the battery type (Li-ion, IMR, Ni-MH, Ni-Cd) and begin charging. For LiFePO4 batteries, manual selection is required (see section 6.4).



This image illustrates the compact design of the Nitecore D2 charger and its ability to accommodate two batteries of varying sizes and chemistries simultaneously, including Li-ion, IMR, LiFePO4, Ni-MH, and Ni-Cd.

6.2 Understanding the LCD Display

The integrated LCD panel provides real-time information about the charging process:

- **Charging Status:** Displays the current charge level with a bar graph.
- **Battery Type:** Indicates the detected battery chemistry (e.g., Li-ion, Ni-MH).
- **Charging Mode:** Shows the active charging mode (CC, CV, or -dV/dt).
- **Voltage:** Displays the current battery voltage.
- **Current:** Shows the charging current in mA.
- **Charging Time:** Indicates the elapsed charging duration.

Use the two side buttons to cycle through information for each slot or to select specific battery types and charging parameters.

NO DETAIL ESCAPES

The D2 allows you to know everything about the charging process clearly and precisely from charging voltage, charging current and elapsed charging time all the way to charging mode and battery type.



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SMART DIGICHARGER DESIGNED FOR ALL RECHARGEABLE BATTERIES

Digicharger D2

A visual representation of the Nitecore D2's LCD panel, highlighting its ability to display real-time charging parameters such as voltage, current, and elapsed charging time.

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INTELLIGENT AUTO-DETECT FUNCTION

Integrated microprocessor automatically identifies battery types and selects appropriate charging voltage and current. Automatically detects battery status and selects the appropriate charge mode (CC, CV and -dV/dt).



SMART DIGICHARGER DESIGNED FOR ALL RECHARGEABLE BATTERIES

Digicharger D2

This image demonstrates the charger's intelligent auto-detect function, showing how it identifies battery types and selects appropriate charging modes like Constant Current (CC), Constant Voltage (CV), and -dV/dt detection for Ni-MH/Ni-Cd batteries.

6.3 Charging Process

Once a battery is inserted, the charger will automatically detect its type and begin charging. The LCD will show the progress. Charging stops automatically when complete.

6.4 Manual LiFePO4 Selection

For LiFePO4 batteries, the charger requires manual selection. After inserting a LiFePO4 battery, press the side button corresponding to that slot to cycle through the battery types until "LiFePO4" is displayed. The charger will

then proceed with the appropriate charging cycle.

6.5 Using AA to D Battery Converter Spacers

The included EdisonBright AA to D battery converter spacers allow you to use rechargeable AA batteries in devices designed for D-sized batteries. Simply insert an AA battery into the spacer, then place the spacer into the D-sized battery compartment of your device. These spacers do not affect the charging process of the AA batteries in the Nitecore D2 charger.



A close-up view of the EdisonBright AA to D battery converter spacer, designed to allow AA batteries to be used in D-sized battery compartments.

7. MAINTENANCE

- Clean the charger and battery contacts regularly with a dry, soft cloth.
- Store the charger in a cool, dry place when not in use.
- Avoid exposing the charger to direct sunlight or extreme temperatures.

8. TROUBLESHOOTING

- **Charger not powering on:** Ensure the power cord is securely connected to both the charger and the power outlet/source. Check if the outlet is functional.
- **Battery not charging:** Verify that the battery is inserted with correct polarity. Ensure the battery is a compatible rechargeable type. If the battery is severely over-discharged, it may not be recognized immediately; try reinserting.
- **LCD display shows "null":** This indicates no battery is detected in the slot. Ensure the battery is properly seated and making contact.
- **Overheating:** The charger has temperature monitoring. If the charger or battery becomes excessively hot, discontinue use and allow it to cool. Ensure proper ventilation around the charger.

9. SPECIFICATIONS

Input	AC 100-240V 50/60Hz 0.25A(MAX), DC 12V 1A
Output Voltage	4.2V $\pm 1\%$ / 3.7V $\pm 1\%$ / 1.48V $\pm 1\%$
Output Current	500mA x 2
Compatible with	Li-ion / IMR / LiFePO4: 26650, 22650, 18650, 17670, 18490, 17500, 18350, 16340 (RCR123), 14500, 10440 Ni-MH / Ni-Cd: AA, AAA, AAAA, C
Dimensions	143mm x 74mm x 36mm (5.63"D x 2.91"W x 1.42"H)
Weight	168g (without batteries and power cord) / 0.8 Pounds (total item weight)

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Digicharger D2

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COMPATIBLE WITH

IMR / Li-ion / LiFePO4
26650 22650 18650 18350
18490 18500 17670 17500
14500 10440 16340 (RCR123)

Ni-MH / Ni-Cd
AA AAA AAAA C

NITECORE®
Digi charger D2
COMPATIBLE WITH
IMR / Li-ion / LiFePO4
26650 22650 18650 18490
18350 17670 17500 14500
10440 16340 (RCR123)
Ni-MH / Ni-Cd
AA AAA AAAA C
DESIGNED FOR TOP SAFETY IN USE
• Fire Retardant Materials
• Intelligent Circuits
• Worldwide Insurance
• Batteries are not included.

ALL IN ONE

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SMART DIGICHARGER DESIGNED FOR ALL RECHARGEABLE BATTERIES

Digicharger D2

This graphic outlines the technical specifications of the Nitecore D2 charger, including input/output voltage and current, dimensions, weight, and a comprehensive list of compatible Li-ion, IMR, LiFePO4, Ni-MH, and Ni-Cd battery sizes.

10. WARRANTY AND SUPPORT

The Nitecore D2 Smart Charger is insured worldwide by Ping An Insurance (Group) Company of China, Ltd. For specific warranty terms and conditions, please refer to the documentation included with your product or contact the retailer. For technical support or inquiries, please contact the manufacturer or your point of purchase.



The product packaging for the Nitecore D2 charger, indicating the location of the validation code for product authenticity verification.

Related Documents - D2

	<p>NITECORE Intellicharger NEW i2 User Manual - Battery Charger Guide</p> <p>Comprehensive user manual for the NITECORE Intellicharger NEW i2, detailing its features, specifications, operating instructions, safety precautions, and warranty information for various rechargeable batteries.</p>
	<p>Nitecore Intellicharger NEW i4 User Manual</p> <p>User manual for the Nitecore Intellicharger NEW i4, detailing its features, specifications, operating instructions, safety precautions, and warranty information.</p>
	<p>NITECORE NEW i4 Intellicharger User Manual</p> <p>Comprehensive user manual for the NITECORE NEW i4 Intellicharger, detailing operating instructions, smart charging features, battery compatibility, safety precautions, and warranty information.</p>

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The New Benchmark in Intelligent Chargers

Digicharger D4(D4EU)
User Manual

- English
- Español
- Deutsch
- Français
- Italiano
- 简体中文



**Important! IMPORTANT NOTICE CONCERNING
WARRANTY SERVICE**

[Nitecore Digicharger D4\(D4EU\) User Manual](#)

Comprehensive user manual for the Nitecore Digicharger D4(D4EU), detailing features, specifications, operating instructions, and safety precautions for charging various battery types.

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KEEP INNOVATING

UM2 Intelligent USB
Dual-Slot Charger

- Supports all Rechargeable Batteries
- Supports Smart Charge
- Supports Smart Charge, Smart Charge, and Smart Charge



[NITECORE UM2 Intelligent USB Dual-Slot Charger User Manual](#)

Comprehensive user manual for the NITECORE UM2 Intelligent USB Dual-Slot Charger, detailing operating instructions, features, specifications, safety precautions, and warranty information.

NITECORE®
KEEP INNOVATING

UMS4 Intelligent USB
Four-Slot Superb Charger

- Supports all Rechargeable Batteries
- Supports Smart Charge
- Supports Smart Charge, Smart Charge, and Smart Charge



[NITECORE UMS4 Intelligent USB Four-Slot Battery Charger User Manual](#)

Comprehensive user manual for the NITECORE UMS4 Intelligent USB Four-Slot Superb Charger, detailing features, specifications, operating instructions, safety precautions, and warranty information for charging various battery types.