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› [XTAR](#) /

› [XTAR L4 Pro AA/AAA Battery Charger and 8-Pack 4150mWh Lithium AA Batteries User Manual](#)

XTAR L4 Pro

XTAR L4 Pro AA/AAA Battery Charger and 8-Pack 4150mWh Lithium AA Batteries User Manual

Model: L4 Pro

1. INTRODUCTION

Thank you for choosing the XTAR L4 Pro Battery Charger and XTAR 4150mWh Lithium AA Batteries. This manual provides detailed instructions for the safe and efficient use of your new charger and batteries. Please read this manual thoroughly before operation and retain it for future reference.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x XTAR L4 Pro Charger
- 1 x USB-C Cable
- 1 x User Manual (this document)
- 8 x 1.5V 4150mWh Rechargeable Lithium AA Batteries
- 2 x Battery Cases



Image: Contents of the XTAR L4 Pro package, showing the charger, USB-C cable, and eight AA lithium batteries.

3. SAFETY INSTRUCTIONS

To prevent injury, property damage, or product damage, observe the following safety precautions:

- Do not disassemble, short circuit, or expose batteries to heat.
- Do not mix with used batteries or batteries of different types.
- Use only with compatible 1.5V Li-ion AA/AAA and 1.2V Ni-MH AA/AAA rechargeable batteries.
- Do not charge alkaline or non-rechargeable batteries.
- Keep the charger and batteries away from water and high humidity.
- Do not operate the charger if it has been damaged in any way.
- Ensure proper polarity when inserting batteries into the charger.
- Keep out of reach of children.
- Unplug the charger from the power source when not in use.

Multiple Protection & Safety Using



Image: Diagram illustrating the XTAR L4 Pro's multiple protection features, including over-charge, over-voltage, over-current, short circuit, timely stop when fully charged, reverse polarity protection, intelligent detection, and soft start.

4. PRODUCT OVERVIEW

The XTAR L4 Pro is a smart 4-slot independent charger designed for both 1.5V Li-ion and 1.2V Ni-MH AA/AAA rechargeable batteries. It features an LCD display for monitoring charging status and offers various modes for optimal battery care.

XTAR L4 Pro Smart Charger

Compatible with AA/AAA Ni-MH and 1.5V Li-ion



Smart Recharge



Deep Refresh



LCD Display



Independent Slot



Safer Protection



Image: Overview of the XTAR L4 Pro Smart Charger, highlighting features such as Smart Recharge, Deep Refresh, LCD Display, Independent Slots, and Safer Protection.

4.1. Key Features

- **Universal Compatibility:** Supports 1.5V Li-ion AA/AAA and 1.2V Ni-MH AA/AAA rechargeable batteries.
- **4 Independent Slots:** Allows simultaneous charging of 1-4 batteries of different types and sizes.
- **LCD Display:** Provides real-time charging status, voltage, and battery type detection.
- **Smart Recharge:** Automatically detects battery type and applies appropriate charging current.
- **Deep Refresh Mode:** Optimizes battery capacity for Ni-MH cells.
- **Repair Mode:** Recovers over-discharged 1.2V Ni-MH batteries.
- **USB-C Input:** Convenient and fast charging.
- **Multiple Protections:** Over-charge, over-voltage, over-current, short circuit, and reverse polarity protection.

MULTIPLE-BATTERY COMPATIBLE

Support Simultaneous Charging Of Different Model Batteries

1.5V Li-ion

AA/AAA Rechargeable Battery

1.2V NI-MH

AA/AAA Rechargeable Battery



Image: The XTAR L4 Pro charger with various AA and AAA batteries inserted, demonstrating its multi-battery compatibility for both 1.5V Li-ion and 1.2V Ni-MH types.

4.2. XTAR 4150mWh Lithium AA Batteries

The included 1.5V 4150mWh Lithium AA batteries offer high capacity and a stable 1.5V output. They feature a unique low-voltage indicator and built-in protection against over-charge, over-discharge, and short-circuit.

Low-voltage detection function

Upgraded base on 1.5V constant voltage output batteries



1.5V
constant output



1.1V
low-voltage
indicator



Note:
its accurate voltage control
IC enables the device (with
low power indicator function)
to remind the user in time
when the power is insufficient.

Image: Illustration of the XTAR Lithium AA battery's low-voltage detection function, showing a 1.5V constant output and a 1.1V low-voltage indicator, useful for devices like smart door locks.

5. SETUP

- Connect Power:** Connect the provided USB-C cable to the charger's input port and plug the other end into a compatible USB power adapter (not included, 5V/2A recommended). The LCD screen will illuminate.
- Insert Batteries:** Carefully insert 1 to 4 rechargeable AA or AAA batteries into the charger slots, ensuring correct polarity (+ and - ends match the markings on the charger).
- Automatic Detection:** The charger will automatically detect the battery type (Li-ion 1.5V or Ni-MH 1.2V) and display the current status on the LCD screen.

6. OPERATING INSTRUCTIONS

6.1. Charging Batteries

1. After inserting batteries, the charger will begin charging automatically.
2. The LCD screen will show the charging progress for each slot.
3. Charging time for rechargeable lithium AA/AAA batteries is approximately 1.5 hours.
4. Once charging is complete, the LCD will display "Done" for the respective slot.
5. Remove batteries promptly after charging is complete.

6.2. Refresh Mode (for Ni-MH Batteries)

The Refresh Mode is designed to maximize the capacity of older or frequently used Ni-MH batteries by fully discharging and then recharging them. This process can help reduce memory effect.

- **DisCHG Mode:** A daily and quick refresh, ideal for batteries that are not too old.
- **Refresh Mode:** A deep and intelligent refresh, suitable for older or frequently used batteries.

Maximize Old Battery Capacity with Refresh Mode

For Ni-MH Batteries



The image shows the XTAR L4 Pro charger's LCD screen displaying the "Refresh" mode. The screen shows four battery slots: the first and fourth slots are labeled "Li-ion 1.5V" and show a full battery icon; the second and third slots are labeled "Ni-MH" and show a partially discharged battery icon. A blue hand icon points to the "Refresh" button on the screen.

DisCHG Mode:

Daily and Quick Refresh
Ideal for batteries that are not too old



The DisCHG mode LCD screen shows the same four battery slots as the Refresh mode, but with a "DisCHG" label above the second and third slots, indicating a full discharge cycle.

Refresh Mode:

Deep and Intelligent Refresh
Suitable for older or frequently used batteries



The Refresh mode LCD screen shows the same four battery slots as the DisCHG mode, but with a "Refresh" label above the second and third slots, indicating a deep discharge and recharge cycle.

Image: The XTAR L4 Pro charger's LCD screen displaying the "DisCHG" and "Refresh" modes for Ni-MH batteries, illustrating how these modes help maximize battery capacity.

6.3. Repair Mode (for 1.2V Ni-MH Batteries)

The Repair Mode uses micro-current activation technology to safely recover over-discharged 1.2V Ni-MH batteries, potentially saving them from being discarded.

1. Insert an over-discharged 1.2V Ni-MH battery into a slot.
2. The charger will attempt to activate the battery using a low current.
3. If successful, the charger will proceed with normal charging. If not, "Err" will be displayed.



Image: The XTAR L4 Pro charger demonstrating its low-voltage battery recovery feature, showing a discharged battery being reactivated by micro-current activation technology.

6.4. Understanding the LCD Display

The LCD screen provides visual feedback on the charging process:

- **Battery Icon:** Indicates charging progress.
- **Li-ion 1.5V / Ni-MH 1.2V:** Shows the detected battery type.

- **CHG:** Charging in progress.
- **DisCHG:** Discharging in progress (Refresh Mode).
- **Refresh:** Refresh cycle in progress.
- **Done:** Charging or refresh cycle complete.
- **Err:** Error detected (e.g., incompatible battery, short circuit, defective battery).

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the charger and battery contacts. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger and batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, avoid fully discharging lithium batteries frequently. For Ni-MH batteries, use the Refresh Mode periodically.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not powering on.	No power connection or faulty USB cable/adaptor.	Ensure USB-C cable is securely connected. Try a different USB power adapter or cable.
"Err" displayed on LCD.	Incompatible battery, short circuit, reverse polarity, or defective battery.	Check battery type and polarity. Remove and reinsert the battery. If error persists, the battery may be defective.
Battery not charging.	Poor contact, battery fully charged, or battery is too deeply discharged (for Ni-MH).	Clean battery contacts. Ensure battery is properly seated. For Ni-MH, try Repair Mode.
Charging takes too long.	Low power input from USB adapter.	Use a 5V/2A or higher output USB power adapter.

9. SPECIFICATIONS

Parameter	Value
Brand	XTAR
Model	L4 Pro
Compatible Batteries	1.5V Li-ion AA/AAA, 1.2V Ni-MH AA/AAA
Input	USB-C (5V/2A recommended)
Output Voltage	1.5 Volts (DC)
Charging Time	Approx. 1.5 Hours (for lithium AA/AAA)
Number of Ports	4 Independent Slots
Operating Temperature	0-45°C

Parameter	Value
Storage Temperature	-20 to 50°C (best 25±5°C)
Battery Energy (AA)	4150mWh
Battery Cycle Life (AA)	≈1200 cycles

Parameters



Positive Pole	Button Top
Protected	yes
Standard Charging Voltage	5V
Normal Voltage	1.5V
Voltage Output At Low Power	1.1V
Max Continuous Discharge Current	2A
Charging Current	0.45A
Working Temperature	-20 to 60°C
Charging Temperature	0-45°C
Storage Temperature	-20 to 50°C (best 25±5°C)
Cycle Life	≈1200
Net Weight	19g
Energy	4150mWh
Size	Φ14.3±0.3mm×H50.3±0.5mm
With Indicator	Yes

Image: Detailed parameters table for XTAR batteries, including positive pole type, protection, standard charging voltage, normal voltage, low power voltage output, max continuous discharge current, charging current, working temperature, charging temperature, storage temperature, cycle life, net weight, energy, size, and indicator presence.

10. OFFICIAL PRODUCT VIDEOS

10.1. XTAR L4 Pro Charger Overview (5:34)

Your browser does not support the video tag.

Video: A comprehensive overview of the XTAR L4 Pro battery charger, demonstrating its features, compatibility, and various operating modes.

10.2. Advanced Features and Usage (9:51)

Your browser does not support the video tag.

Video: An in-depth guide to the advanced functionalities of the XTAR L4 Pro charger, including detailed explanations of Refresh and Repair modes, and tips for optimal battery performance.

11. WARRANTY AND SUPPORT

XTAR products are manufactured with high-quality materials and are thoroughly tested. For warranty information and technical support, please refer to the official XTAR website or contact their customer service directly.

- **Official Website:** www.xtar.cc
- **Customer Service:** Refer to the contact information provided on the official website or your purchase platform.

