

SMALLRIG 3821-SR

SmallRig LP-E6NH Camera Battery Charger Set Instruction Manual

Model: 3821-SR

1. INTRODUCTION

This manual provides instructions for the safe and effective use of your SmallRig LP-E6NH Camera Battery Charger Set. This set includes two 2040mAh rechargeable batteries and a dual-slot charger designed for various Canon camera models. Please read this manual thoroughly before use and retain it for future reference.



Image 1.1: SmallRig LP-E6NH Camera Battery Charger Set components.

2. PRODUCT OVERVIEW AND PACKAGE CONTENTS

2.1 Package Contents

- 1 x Dual-Slot Battery Charger
- 2 x LP-E6NH Rechargeable Batteries (2040mAh each)
- 2 x Battery Protective Covers

2.2 Key Features

- **Dual-Slot Charging:** Charges one or two batteries simultaneously.

- **Multiple Charging Options:** Features a built-in USB-A cable and a USB-C input port.
- **Intelligent LCD Screen:** Displays real-time charging status, including current, voltage, progress, and charged capacity.
- **Safety Protections:** Incorporates 6-point protection against over-charging, over-current, short-circuit, over-discharge, over-voltage, and recovery issues.
- **High Compatibility:** Fully decoded batteries compatible with a wide range of Canon cameras.



Image 2.1: Detailed view of the charger, batteries, and protective covers.

3. SPECIFICATIONS

Feature	Detail
Model Number	3821-SR
Battery Capacity	2040mAh (each battery)
Charger Input (USB-A)	5V/2.1A (Minimum)
Charger Input (USB-C)	5V/2.1A (Minimum)
Output Voltage	8.4V

Product Dimensions	3.54"D x 2.2"W x 1.06"H (Charger)
Item Weight	10 ounces / 283 grams (Total package)

4. COMPATIBILITY

The SmallRig LP-E6NH batteries and charger are fully compatible with the following Canon camera models:

- Canon EOS R, R5, R6, R7, R5 C, R6 Mark II
- Canon EOS 5D Mark II, 5D Mark III, 5D Mark IV, 5DS, 5DS R
- Canon EOS 6D, 6D Mark II
- Canon EOS 7D, 7D Mark II
- Canon EOS 60D, 60Da, 70D, 80D, 90D
- Canon XC10, XC15



Image 4.1: Visual representation of compatible Canon camera models.

5. SETUP AND CHARGING INSTRUCTIONS

5.1 Powering the Charger

The charger offers two methods for power input:

1. **Built-in USB-A Cable:** Connect the integrated USB-A cable from the charger to a USB power source (e.g., USB adapter, car charger, power bank).
2. **USB-C Input:** Use a USB-C cable (not included) to connect the charger's USB-C port to a compatible USB-C power source.

Important: Do not use both USB-A and USB-C input interfaces simultaneously.



Image 5.1: Multiple ways to power the charger using USB-A or USB-C.

5.2 Inserting Batteries

Insert one or two LP-E6NH batteries into the designated charging slots (CH1 and CH2) on the charger. Ensure the battery contacts align correctly with the charger pins.

5.3 Monitoring Charging Status

The intelligent LCD screen will activate upon battery insertion and power connection, displaying real-time charging information for each battery:

- **CH1/CH2 Indication:** Identifies the charging slot.
- **Charging Current:** Displays the current in milliamperes (mA).

- **Charging Voltage:** Displays the voltage in volts (V).
- **Charging Progress:** Visual indicator (circular segments) showing 25%, 50%, 75%, and 100% charged status.
- **Charged Capacity:** Displays the accumulated charged capacity in milliamper-hours (mAh).

Intelligent LCD Screen

Check charging voltage, charging progress, charged capacity in real-time.



Image 5.2: Understanding the Intelligent LCD Screen display.

6. OPERATING THE BATTERIES

6.1 Battery Installation in Camera

Once fully charged, remove the batteries from the charger. Refer to your camera's instruction manual for proper battery installation procedures. Ensure the battery is inserted correctly into the camera's battery compartment.

6.2 Battery Performance

Each 2040mAh battery is designed to provide extended power for continuous recording or taking photos. Actual performance may vary based on camera model, usage patterns, and environmental conditions.

Power Your Day

2040 ×2
mAh



≥ 3 H

Continuous Recording



≥ 2000 pic

Continuous Taking Photos



Note

It is impossible to exceed the capacity of 2400mAh due to the size of the battery.

Image 6.1: Battery capacity and estimated usage.

7. SAFETY INFORMATION AND PROTECTIONS

The SmallRig LP-E6NH Battery Charger Set is equipped with a 6-point protection system to ensure safe operation and protect your devices:

- **Over-charge Protection:** Prevents batteries from being charged beyond their capacity.
- **Over-current Protection:** Safeguards against excessive current flow.
- **Short-circuit Protection:** Automatically cuts off power in case of a short circuit.
- **Over-discharge Protection:** Prevents batteries from being discharged too deeply.
- **Over-voltage Protection:** Protects against input voltage surges.
- **Recovery Protection:** Ensures safe recovery from protection states.

6-Points Protection

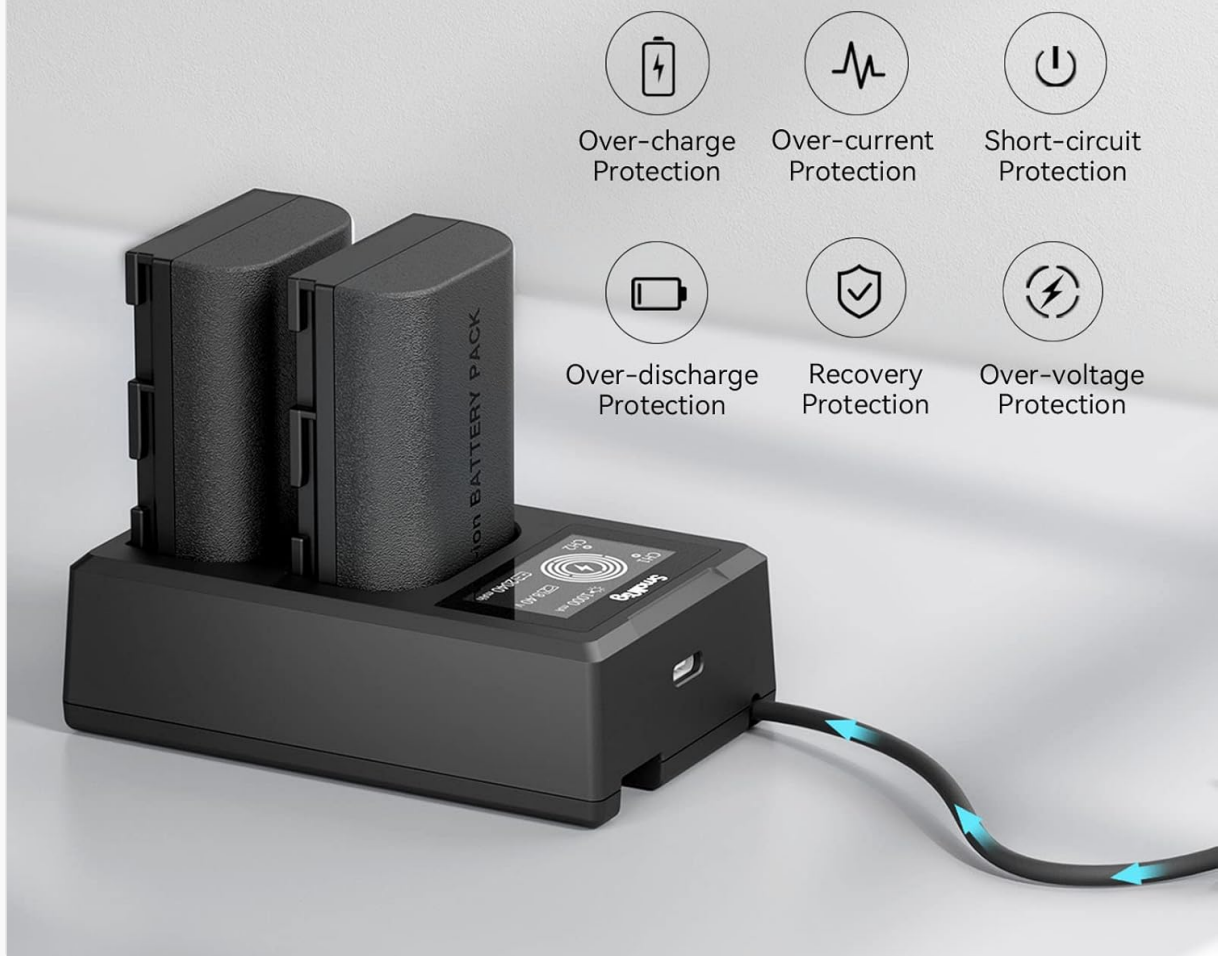


Image 7.1: Overview of the 6-point protection system.

8. MAINTENANCE

- Keep the charger and batteries clean and dry. Avoid exposure to moisture or extreme temperatures.
- Use a soft, dry cloth to clean the contacts on both the batteries and the charger regularly.
- Store batteries in a cool, dry place when not in use, ideally with their protective covers installed.
- Avoid dropping or subjecting the charger and batteries to strong impacts.
- Do not attempt to disassemble or modify the product.

9. TROUBLESHOOTING

- **Charger not powering on:** Ensure the USB cable is securely connected to both the charger and a functional power source. Verify the power source is providing at least 5V/2.1A.
- **Batteries not charging:** Check if the batteries are inserted correctly into the slots with contacts aligned. Ensure the charger is powered. Clean battery and charger contacts if necessary.
- **LCD screen not displaying information:** Confirm the charger is powered and batteries are inserted. If the issue persists, try a different power source or cable.
- **Slow charging:** Ensure your power adapter provides sufficient output (at least 5V/2.1A). Lower output power sources will result in slower charging times.


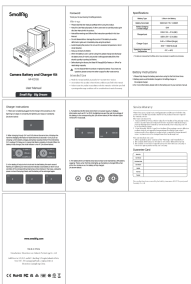
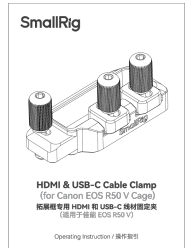
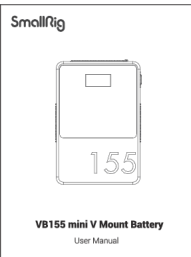

- **Battery not recognized by camera:** Ensure the battery is fully charged and correctly inserted. If the issue persists, try another compatible battery to rule out a camera issue.

10. WARRANTY AND SUPPORT

SmallRig products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please contact SmallRig customer service through their official website or the retailer where the product was purchased. Please have your product model number (3821-SR) and proof of purchase available.

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Related Documents - 3821-SR

	<p>SmallRig SR-RG1 Wireless Shooting Grip User Manual</p> <p>User manual for the SmallRig SR-RG1 Wireless Shooting Grip, detailing its features, compatibility, pairing instructions for Sony and Canon cameras, product specifications, and warranty information.</p>
	<p>SmallRig NP-FZ100 Camera Battery and Charger Kit User Manual</p> <p>User manual for the SmallRig NP-FZ100 Camera Battery and Charger Kit, detailing specifications, charging instructions, battery usage, and warranty information.</p>
	<p>SmallRig HDMI & USB-C Cable Clamp for Canon EOS R50 V Cage - Operating Instructions</p> <p>Operating instructions for the SmallRig HDMI & USB-C Cable Clamp designed for the Canon EOS R50 V Cage. Includes installation steps, specifications, and manufacturer details.</p>
	<p>SmallRig VB155 Mini V Mount Battery User Manual - 155Wh High-Capacity Power Solution</p> <p>Comprehensive user manual for the SmallRig VB155 Mini V Mount Battery. Learn about its features, specifications, charging protocols, safety warnings, and operation for powering cameras, monitors, and other video equipment.</p>
	<p>SmallRig USB-C Data Cable (Male to Female) 5595: High-Speed Data & Charging</p> <p>Operating instructions and specifications for the SmallRig USB-C Data Cable (Male to Female) 5595, featuring 20Gbps data transfer, 240W power delivery, and secure mounting for camera rigs.</p>

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Mount Plate for AirTag for Canon

[SmallRig MD5424 Mount Plate for AirTag for Canon Cameras - Operating Instructions](#)

Detailed operating instructions and specifications for the SmallRig MD5424 Arca-Swiss mount plate designed for Canon EOS R5, R5 C, R5 Mark II, R6, R7, and R10 cameras. Features integrated AirTag compartment, quick-release system, and multiple mounting points.