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## DuraPro Li-92B Li-90b/DB-110

# DuraPro LI-90B LI-92 DB-110 Battery and LCD USB Charger Instruction Manual

Model: Li-92B Li-90b/DB-110

## 1. INTRODUCTION

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Thank you for choosing the DuraPro LI-90B LI-92 DB-110 Battery and LCD USB Charger. This product provides a reliable power solution for your compatible digital cameras, ensuring you have extra power when you need it most. The included LCD USB charger offers convenient and versatile charging options with built-in safety features.



Image 1.1: DuraPro LI-90B LI-92 DB-110 Battery and LCD USB Charger Kit. This image shows the two batteries and the LCD USB charger, highlighting the complete package.

## 2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 2 x DuraPro LI-90B / LI-92 / DB-110 Batteries
- 1 x DuraPro LCD USB Charger
- 1 x USB Cable (Type A to Micro USB)
- 1 x Instruction Manual (this document)

# With Protective Case, Better for Battery Keeping and Carrying



Image 2.1: DuraPro Batteries with Protective Cases. This image displays two DuraPro batteries, each housed in a clear protective plastic case, designed for safe keeping and transport.

## 3. COMPATIBILITY

The DuraPro LI-90B / LI-92 / DB-110 batteries and charger are fully compatible with the following camera models:

- **Ricoh Cameras:** GR III, GR IIIx, Theta X, WG-6, G900
- **Olympus Cameras:** TOUGH TG-1, TG-1 iHS, TG-2 iHS, TG-3, TG-4, TG-5, TG-Tracker, SH-1, SH-2, SH-50 iHS, SP-100

These batteries are designed as replacements for Olympus LI-90B and LI-92B batteries, and Ricoh DB-110 batteries.

## 4. SAFETY INFORMATION

Please read and follow these safety precautions carefully to prevent damage to the product or injury to yourself:

- **Do not connect incorrectly:** Ensure batteries are inserted into the charger with correct polarity.
- **Fire Hazard:** Do not dispose of batteries in fire. They may explode.
- **Damage:** Do not use damaged batteries. A damaged battery can explode.
- **Avoid Liquids:** Do not expose batteries or charger to liquids.
- **Mechanical Shock:** Avoid strong mechanical shocks to the batteries or charger.
- **Disassembly:** Do not attempt to disassemble the batteries or charger.

- **Temperature:** Store and operate the product within recommended temperature ranges.

# Multi-protection, safe and reliable

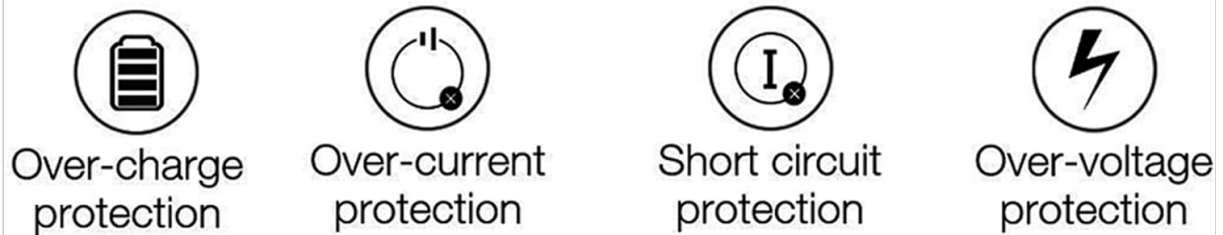


Image 4.1: DuraPro Charger Multi-Protection Features. This image illustrates the safety features of the charger, including icons for over-charge protection, over-current protection, short circuit protection, and over-voltage protection.

## 5. SETUP

Before first use, ensure all packaging materials are removed. The charger requires a USB power source (not included) for operation.

1. Connect the provided USB cable to the Micro-USB input port on the DuraPro LCD USB Charger.
2. Connect the other end of the USB cable (Type-A) to a compatible USB power source. This can be a USB wall charger, car charger, portable power bank, or a computer's USB port.
3. The charger's LCD display will illuminate, indicating it is ready for use.

# Unlimited Charging Options

When others can only use wall charger, you can charge via car charger, wall charger, or even power bank and Laptop computer



Note: Wall charger / car charger / portable charger are sold separately

Image 5.1: DuraPro Charger Unlimited Charging Options. This image shows the DuraPro charger connected via a USB cable, with illustrations of various compatible power sources such as a laptop, wall charger, car charger, and power bank.

## 6. OPERATING INSTRUCTIONS (CHARGING)

Follow these steps to charge your DuraPro batteries:

1. Ensure the charger is connected to a power source as described in the "Setup" section.
2. Carefully insert one or two DuraPro LI-90B / LI-92 / DB-110 batteries into the charging slots on the LCD USB Charger. Ensure the battery contacts align correctly with the charger's pins.
3. The LCD display on the charger will show the charging status for each battery. A blinking battery icon or segment indicates charging in progress.
4. Once a battery is fully charged, the corresponding battery icon on the LCD will show a full charge (e.g., 4 solid segments) and stop blinking.
5. Remove the fully charged batteries from the charger.
6. Disconnect the charger from the power source when not in use.

The charger features an integrated high-performance protected circuit that automatically safeguards against overcharging, over-discharging, and short circuits.



*Image 6.1: DuraPro LCD USB Charger Front View. This image provides a clear view of the charger's front, showing the LCD screen displaying a full battery charge indicator and the battery slot.*



Image 6.2: DuraPro LCD USB Charger Angled View. This image shows the charger from an angled perspective, highlighting the battery slot and the Micro-USB input port on the side.

## 7. MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the charger and batteries. Do not use liquid cleaners or solvents.
- **Storage:** Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, charge batteries to about 50% capacity.
- **Battery Life:** To maximize battery life, avoid fully discharging batteries frequently.
- **Protective Cases:** Utilize the provided protective cases for batteries when not in use or during transport to prevent damage and short circuits.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Battery not charging	<ul style="list-style-type: none"> <li>◦ Charger not connected to power source.</li> <li>◦ Battery inserted incorrectly.</li> <li>◦ Faulty USB cable or power source.</li> <li>◦ Battery or charger is damaged.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Ensure USB cable is securely connected to both charger and power source.</li> <li>◦ Re-insert battery, ensuring correct polarity and full contact.</li> <li>◦ Try a different USB cable or power adapter.</li> <li>◦ If problem persists, discontinue use and contact support.</li> </ul>
LCD display not lighting up	<ul style="list-style-type: none"> <li>◦ No power to the charger.</li> <li>◦ Charger is faulty.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Check power connection and try a different power source.</li> <li>◦ If still no display, the charger may be faulty.</li> </ul>
Battery drains quickly after charging	<ul style="list-style-type: none"> <li>◦ Battery is old or degraded.</li> <li>◦ High power consumption by the camera.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Battery life naturally decreases over time. Consider replacing old batteries.</li> <li>◦ Ensure camera settings are optimized for battery life.</li> </ul>

## 9. SPECIFICATIONS

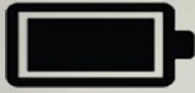
### Battery Specifications:

- **Battery Type:** Li-ion (Lithium-ion)
- **Capacity:** 1270 mAh (Milliamperetimme)
- **Voltage:** 3.7 V
- **Weight:** Approximately 60 grams per battery
- **Reusability:** Rechargeable

### Charger Specifications:

- **Input:** 5 V / 2 A (10 W)
- **Output:** 4.2 V / 0.6 A (2.5 W)
- **Display:** LCD screen for charging status
- **Safety Features:** Over-charge, over-current, short circuit, over-voltage protection

# Higher Capacity, Run Longer



1270mAh



Long Battery Life



Fast Charging



Image 9.1: DuraPro Battery Capacity and Charging Features. This image highlights the battery's 1270mAh capacity, long battery life, and fast charging capabilities, with two batteries shown in the foreground.

## 10. WARRANTY & SUPPORT

DuraPro products are manufactured to high-quality standards. For any issues or questions regarding your DuraPro LI-90B LI-92 DB-110 Battery and LCD USB Charger, please refer to your purchase documentation for warranty details or contact the seller directly for support.

Please retain your proof of purchase for warranty claims.