

WATSON®

Duo Charger

for Digital Camera and
Camcorder Batteries

Owner's Manual

Please read
before using
this equipment.







Thank you for
purchasing the
Watson Duo
Charger.

Browse through
this manual for
instructions and
useful tips on how
to use your new
equipment.



THE WATSON DUO BATTERY CHARGER'S FEATURES INCLUDE:



LCD Screen

Visually displays the charging status and charging source for each battery individually.



Charges two batteries independently

Charges two different types of batteries with different voltages simultaneously.



Plate switching

Charger plate is interchangeable, allowing the Duo Charger to charge a wide variety of batteries. (Charging plates available for purchase separately.)



Battery tester

Test the charge state of your battery even with the charger unplugged by pressing the Duo Charger's TEST button.



Charges batteries and USB devices

Charge a USB device while simultaneously charging your digital camera or camcorder batteries.



AC Adapter and DC Cord

Attach an external AC adapter for indoor use or a cigarette lighter plug from 12V car DC while you are traveling.



Overcharge protection

Automatically detects when the battery is fully charged and stops charging to prevent damage to your batteries.



Overheat protection

The Duo Charger senses when the battery is about to overheat and immediately stops charging.



Short circuit protection

Protects the charger from defective or shorted batteries.

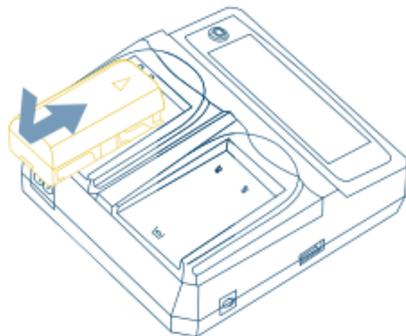
This intelligent charger for digital camera and camcorder batteries was designed with advanced switching power source technology, allowing you to charge your batteries at home or on the road.

The charger is compatible with the brand(s) and model(s) of Li-ion rechargeable batteries listed on the packaging for this manual. Please read these operating instructions carefully before operating this equipment.

CHARGING OPERATION:

LITHIUM-ION BATTERIES

- 1** Mount your rechargeable battery. Align the metal contacts of the battery with the contacts on the charger. Be certain you are using the correct model battery plate for your battery.
- 2** Attach the included AC power cable to the charger base and plug the other end into a 100-240VAC wall socket.



USB

You can use your Duo Charger to charge USB devices while you're also charging your digital camera or camcorder batteries.

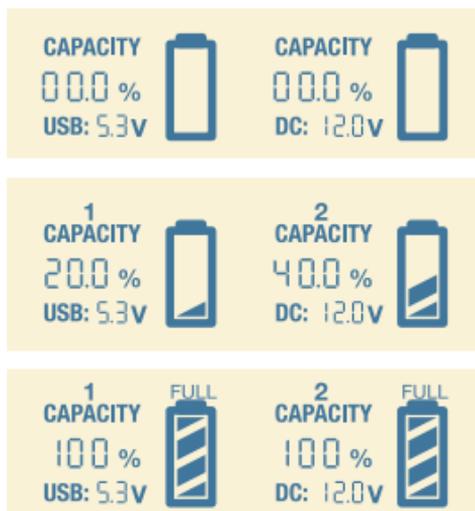
- 1 Plug the USB end of the device's charging cable into the USB output jack on the side of the Duo Charger. The USB output is displayed on the LCD screen.

TEST BUTTON

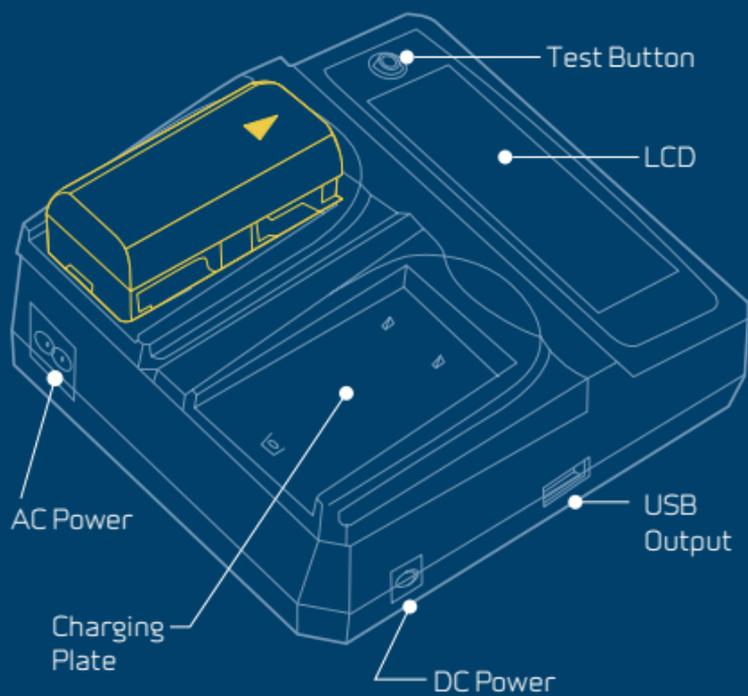
You can test the charge state of your battery even with the Duo Charger unplugged.

- 1 Just slide the battery into the charging plate and press the TEST button.
- 2 Press the TEST button a second time to display the voltage of the battery. After five seconds, the display will revert to showing the charge state.
- 3 If the charger does not charge the battery, check to see if the battery is dead, faulty or worn out. All rechargeable batteries eventually wear out after being used for a number of cycles.

LCD INFORMATION:



- The top screen above will display when you first plug in the Duo Charger.
- Once charging begins, the screen will be similar to the middle display shown above. You can charge two batteries independently.
- When charge is complete, "FULL" will appear above the battery icon and the screen will display similar to the bottom illustration.



IMPORTANT SAFETY INSTRUCTIONS:

CAUTION! TO REDUCE THE RISK OF DAMAGE, SAVE THESE INSTRUCTIONS

- Do not store, place, or use the charger where it may come into contact with excess heat, water or moisture.
- High-voltage internal components present the risk of electric shock when exposed.
- Charge only on a vibration-free, dry surface at room temperature.
- Should you ever notice smoke or a strange odor coming out of the charger, immediately unplug the AC adapter from the power outlet. Using the charger under these conditions can cause fire and electric shock.
- Do not short-circuit the terminals of your battery or charger.
- Do not attempt to disassemble any part of the charger.
- Use this charger with the specified types of batteries only.

- The charger, adapters, and batteries may feel warm during the charging process. This is normal.
- Unplug the AC adapter from the power outlet and clean the area around the prongs of the plug when necessary. The presence of dust around the prongs can cause fire.

AC ADAPTER PRECAUTIONS

- Never use an electrical outlet whose voltage is outside the rating marked on the AC adapter. Doing so can cause fire or electric shock. Use only the supplied AC adapter or DC car cord for the charger.
- Do not allow the AC adapter power cord to be cut or damaged, and do not place heavy objects on it. A damaged AC adapter cord can cause fire or electric shock.
- Never try to modify the AC adapter power cord, or subject it to severe bending, twisting, or pulling. Doing so can cause the risk of fire and electric shock.

- Never touch the AC adapter while your hands are wet. Doing so can cause electric shock.
- Do not overload extension cords or wall outlets. Doing so can cause fire and electric shock. Indoor use only. Do not expose the charger to rain or snow.
- To reduce the risk of damage to the electrical plug and cord, disconnect by pulling the plug, not the cord.
- Make sure the cord is located properly so that it will not be stepped on, tripped over, or subjected to damage.
- To reduce the risk of electric shock, unplug the charger from the outlet before attempting cleaning or when not in use.
- Do not use solvents to clean the unit. They may damage the surface and the plastic parts of the unit. Clean the unit gently with a soft dry cloth only.
- Not recommended for use by children.

TO MAXIMIZE BATTERY PERFORMANCE

- Make sure the battery is fully charged before use.
- Clean the battery and terminals with a clean, soft, dry cloth.
- The battery may be warm during use or recharging. This is normal.
- When storing the battery for an extended period, be sure that it is not completely charged, nor completely discharged. The ideal level is a 40% charge. This is approximate; the closer the battery is to this level, the better it will hold its charge during storage. The battery should be stored in a cool, dry place. The recommended temperature for storage is 59°F (15°C). You may store a battery in a refrigerator. Do not store batteries in a freezer.
- Remove the battery from your equipment when not in use. Some electronic equipment will draw current even when the switch is off.
- When operation time has noticeably shortened, the battery may need to be replaced.

SPECIFICATIONS:

Input Voltage	AC 100-240V, 50/60 HZ DC 12/24 2A
Output	DC 1.2-8.4 V 2A (maximum)
USB	DC 5V2A (maximum)
Charging Time	2-6 Hours
Operating Temp.	32°F to 104°F (0°C to 40°C)
Storage Temp.	-4°F to 140°F (-20°C to 60°C)
Dimensions	4.9" x 4.5" x 1.75" (124 x 114 x 44.5 mm)
Weight	w/o plates 9.7 oz. (275g) with plates 10.76 oz. (305g)

ONE-YEAR LIMITED WARRANTY

This Watson product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function. This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state. To obtain warranty coverage, contact the Watson Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Watson along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense. For more information or to arrange service, visit www.poweredbywatson.com or call Customer Service at 212-594-2353.

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