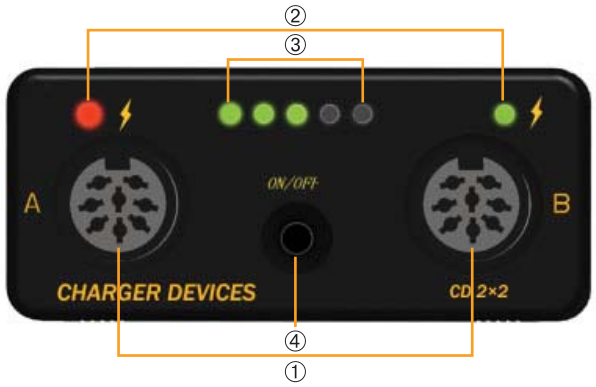
CD2x2 Lithium Polymer Battery Pack

Thank you for purchasing the Charger Devices CD2x2 Battery Pack. Before operating the pack, please take a moment to read through and familiarize yourself with the features of the battery pack.

Technical Specifications

Charger Specification	16V/ 2A
Battery Chemistry	Lithium Polymer
Number of Shots	Up to 1500 on a full charge
Battery Capacity &	4400 mAh/ 11.1V
Recharging Time	2.5 - 3 Hours
Flash Recycling Speed	1.2 s
Weight	700g
Dimensions	150 (L) x 88 (W) x 38 (H) mm

Control Panel



1. Channel A / B Connectors
   Supply 325V/7000uFmax/60Wmax pulse output voltage or 9V/1A continuous DC output voltage to a flashhead or camera via custom cable; and receive charging input from a 15V/2.5A external AC adapter.

2. Channel A / B Status LED
   Off – No output
   Solid green – Normal output
   Solid red – The high voltage output from the Channel is too low (Less than 200V)
   Flashing red – The thermal protection for the high voltage circuitry has been activated

3. Battery Indicator LEDs
   LED flashing red: Battery level low. You should recharge the battery as soon as possible.
   LED 1 On: Battery level > 20%
   LED 1-2 On: Battery level > 40%
   LED 1-3 On: Battery level > 60%
   LED 1-4 On: Battery level > 80%
   LED 1-5 On: Battery level = 100%
   Battery Indicator LEDs are red when the battery pack is being charged or green when the battery pack is full or not being charged.
   Note: Battery Indicator LEDs are always in the ON or RECHARGING status. To minimize power consumption, switch off the pack when the AC adaptor is not connected and no power output is required.

4. On / Off Button
   Press and hold the key for more than 3 seconds to toggle between the ON and OFF status.
   If you connect or disconnect a connector while the battery is ON, power is automatically turned off to protect the battery.

Battery Charging

1. Connect the AC adaptor to either the Channel A or B Connector and turn on the power. For safety, please do not operate battery while charging.
2. The CD2x2 features a 4400mAh/11.1V lithium polymer battery pack capable of large current discharge. The recharging time is generally 2.5 - 3 hours.
3. After 20 - 30 recharge - discharge cycles, it is recommended to balance the battery pack by charging it for 12 - 24 hours, to maximize its usable capacity.
4. Please charge the battery only with the supplied charger. Do not attempt to charge the battery pack via both connectors at the same time.

Battery Operation

1. Connect Channel A or B from the battery pack to the input connector of your flashlight or your camera via the custom output cable. Press and hold the ON/OFF key for 3 seconds until the Battery Level LEDs light up.
2. The Channel Status LED will light up to indicate that Channel A or B is working. Battery Level LEDs only show the approximate battery level. To avoid running out of power please recharge as soon as possible.
3. Occasional high-power discharges will temporarily reduce the indicated remaining power. This is not an error and will correct itself in a few moments.

Frequently Asked Questions

Q: How many flashes can be generated on a Canon 580 or Quantum flashhead?
A: Excluding standby power consumption, the battery pack is capable of powering 1,200 – 1,500 full flashes on a Canon 580, with a recycle time of about 1.2 seconds, or 600 – 800 full flashes on a Quantum flashlight, with a recycle time of about 2 seconds.
Q: How do I reset the battery pack if a short circuit occurs?
A: The internal protection circuit is triggered by an external overload or short circuit due to a failed connection or flash system. In such a case, your battery pack will have no output and all the buttons will be disabled. To recover from this protected state, remove all failed connections, plug in the AC adaptor, and wait for the charging LEDs to light up.
Q: How can I recover the system if it fails in extreme environments?
A: The battery pack is should be used in an environment of 0-40°C and less than 85% Relative Humidity. The system will automatically restart and enter the OFF state if it was previously ON, or automatically restart and re-enter the charging state if it was charging. The internal battery pack cannot utilize its full capacity if you useit in an environment of less than 0°C. Never use it when the temperature is less than -18°C, or place it in an environment of more than 60°C.