

# CUE-D150

## Li-ion V-Mount Battery



Lithium Ion

### Instruction Manual

Thank you for purchasing the CUE-D150 Li-ion V-Mount Battery. Prior to using the CUE-D150, we strongly recommend reading this Instruction Manual on how to best use the CUE-D150. Please keep this manual for your reference. If you have any additional questions, please contact your local IDX office listed at the end of this manual.

### Caution for safety use

Improper handling of this Li-ion battery may result in smoke, heat, fire, explosion or leakage as well as cause performance degradation or failure. Please be sure to observe the following precautions.

#### ⚠ DANGER

##### May cause sudden serious injury and death.

- Charge with IDX battery charger only.
- Use with professional video cameras or other video equipment. Please contact IDX for more information.
- Do not short the contact pins with any metal object. Do not carry or store with metal equipment.
- Do not expose to heat and never throw the battery in a fire.
- Do not immerse in water. Keep the battery dry and away from excessively dry or humid environments.
- Do not leave the battery exposed to excessive heat such as in a car or directly under the sun light. Do not use outside of specified temperature ranges.
- Do not solder on the contact pins directly.
- Do not attempt to open the outer casing or break apart the battery.
- Do not subject the unit to extreme physical impact or pressure, or place any object across the terminals that could cause it to short.
- Do not pierce or drill into the outer casing of the unit.
- Do not attempt to use the battery if damaged.
- Do not use the battery in a corrosive environment. Damages occur from salt water, seawater, acid, alkali, corrosive gas, etc.
- Risk of explosion if battery cells are replaced by an incorrect type.

#### ⚠ WARNING

##### May cause serious injury and death.

- Please note that the outside casing becomes hot when the battery is discharged in high temperatures or with high loads.
- Stop charging immediately if the battery fails to charge within the designated time. Refer to charger manuals for charge times.
- Do not use if the battery displays unusual characteristics (odd odor, discoloration, etc.) when in use, during charge or in storage.
- Keep away from fire if the battery leaks fluid or has an unusual smell.
- In case of leakage immediately wash your hands and face thoroughly with clean water and contact your IDX representative for further instructions.
- Immediately seek medical attention if battery fluid gets into contact with your eyes.

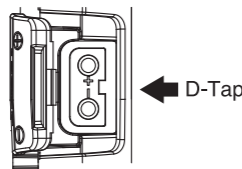
#### ⚠ CAUTION

##### May cause injury or damage other equipment.

- Follow instructions on charging and discharging.
- Store in cool and dry conditions.
- During long periods of inactivity, please remove the battery from the equipment.
- Do not use, store or place the battery in an electrostatic area.
- Always keep the connectors clean.

### Features

- High-capacity and high-load type.
- Four-step LED power indicator.
- D-Tap output (battery-through output).



### Discharging

- When using the battery, the total power consumption should not exceed 120W 104°F (40°C) or less. Please carefully calculate the total power consumption of the equipment(s) connected to the battery prior to use. If power loads exceed 120W, an internal protection circuit will activate and stop discharging to protect the battery cells. Excessive power loads may generate excessive heat, which can damage or melt battery protection fuses.
- The battery life may diminish if high loads are applied frequently.
- Battery run-time may reduce when used in extreme high and low temperatures. IDX highly recommends to use the battery in ambient temperatures of 50~104°F (10°C~40°C).
- The discharge characteristics of lithium ion batteries illustrate a steady curve until 13V. At 13V, the discharge curve sharply drops. For this reason, IDX recommends setting the camera's "Low Voltage" alarm settings to 13~13.5V. Refer to battery settings on the camera's user manual.
- The battery will automatically stop discharging when the voltage reaches 12V. To extend battery life, IDX recommends to stop using before the battery reaches 12V.
- Microwave transmitters with 5W outputs or more should be kept as far away from the battery as possible. High power transmitters may disrupt or stop supplying power.

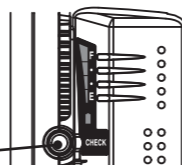
### Charging

- Only charge with an IDX lithium ion charger and refrain from charging with third party chargers. Please refer to the charger manual for charging method information.
- Estimated charging times may vary depending on the charger and condition of the battery. Refer to our website or brochure for more details.
- The ambient temperature range for charging is 32~104°F (0~40°C); however, 50~86°F (10~30°C) is recommended for optimizing the charging performance. When the battery is charged in temperatures 32°F (0°C) or below, it may not fully charge, even if the designated charge time has elapsed.
- Charging outside of the recommended temperature range can accelerate cell deterioration.
- Lithium ion batteries have a slight self discharge; therefore, IDX recommends to charge prior to use.
- Can not be charged using with C-NP2E, C-VAL2E.

### Capacity display LEDs

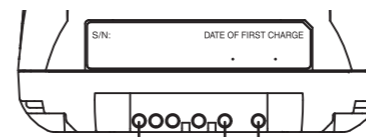
- The remaining capacity is shown with four built-in LEDs. F indicates 'fully charged' and E indicates 'empty' or 'need to charge'.
- To check the remaining capacity, press the check button. The LED lights will emit and reflect the battery charge level.

※ Please be aware that LED indicates approximate amount of capacity when not providing power, and this varies by age and condition of battery.



Battery capacity display LEDs check button

### Main connector



⊕ : Charging / Discharging ⊖ : Negative  
ID : Battery ID

### Protection circuitry

There are three types of protection circuits to ensure the battery is protected from Over-charge, Over-discharge, and Over-current. If the protection fuse is blown, the battery is no longer operable.

### D-Tap

- D-Tap power output terminal available.
- The maximum power output is 50W.
- The output voltage is a battery through (12~16.8V).
- Do not draw power from D-Tap while charging as it may interrupt charging, cause a charger error, or damage the charger.
- D-Tap output can be used for IDX portable lights, wireless systems, and accessories.

### Storing

- Store in cool and dry conditions.
- Do not store or leave in temperatures of 122°F (50°C) or above.
- For long-term storage, please store at 20~30% capacity and re-charge every 5 months to maintain the charge level.
- Deterioration of battery performance will accelerate when the battery is stored in high ambient temperatures and/or stored for long periods without use.

### Specifications

- Cell chemistry : Li-ion
- Nominal voltage : DC 14.8V
- Capacity : 9.8Ah/146Wh \*1
- Charge voltage : DC 16.8V
- Charge current : Max 5.0A
- Maximum discharge rate : 120W / 7.1A (at 16.8V)~10A (at 12.0V) \*2 (104°F (40°C) or less)
- End voltage : 12V
- Battery protection circuit : Over-charge, Over-discharge, Over-current,
- Ambient temperature
  - Charge : 32~104°F (0~40°C) (50~86°F (10~30°C) recommended)
  - Discharge : -4~113°F (-20~45°C) (50~104°F (10~40°C) recommended)
  - Storage : 32~104°F (0~40°C) (Three month)
- Dimensions / Weight : 97(W) x 146(H) x 59(D) mm / approx, 1,050g : 3.82(W) x 5.75(H) x 2.32(D) inches / approx, 2.31lbs
- D-Tap output voltage : Battery through voltage
- maximum load : 50W \*2

\*1. Measured capacity of battery is a minimum rating at 20°C.

\*2. Maximum load is the sum of D-Tap and Camera loads (Total must be less than 120W or 95W).

### Life cycle

- Life may vary depending on frequency of use, storage, and operating temperature environments.
- Life will be reduced if frequently used with high load applications.
- Life is also reduced if stored in fully charged or empty conditions for extended periods.



<http://www.idx.tv>

Design and specification are subject to change without notice.

IDX Company, Ltd. : 6-28-11 Shukugawara, Tamaku, Kawasaki-shi, Kanagawa-ken 214-0021 Japan  
Tel : +81-44-850-8801 Fax : +81-44-850-8838 E-mail : idx.japan@idx.tv  
IDX System Technology, Inc. : 19001 Harborgate Way, Suite 105, Torrance, CA 90501 USA  
Tel : +1-310-328-2850 Fax : +1-310-328-8202 E-mail : idx.usa@idx.tv  
IDX Technology Europe, Ltd. : Unit 9, Langley Park, Waterside Drive, Langley, Berkshire SL3 6AD England  
Tel : +44-1753-547692 Fax : +44-1753-546660 E-mail : idx.europe@idx.tv

### Battery recycle

This Li-ion battery can be recycled. Please follow the regulations in your country or contact your local IDX office for further details.

### Li-ion Battery Air transport Compliance (as of Jan 1st, 2014)

The battery is classified as Class9 Dangerous Goods product by Dangerous Goods Regulations of the International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA). This battery will be required to follow certain procedures at times of shipping and/or transporting.

International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA) rules and regulations:

- Battery is proven to meet the requirements of each test in the UN Manual of Tests and Criteria, Part III, subsection 38.3.
- Lithium ion batteries exceeding a Watt-hour rating of 100Wh but not exceeding 160Wh.
- The Watt-hour rating must be labeled on the outside of the battery case.

CUE-D150 has passed the tests for United Nations Recommendations on the Transport of Dangerous Goods. CUE-D150 is labeled as exceeding a Watt-hour rating of 100Wh but less than 160Wh.

### For carry-on baggage

Bringing batteries on an aircraft as carry-on baggage is permitted if approved by the airline; IDX recommends checking airline rules and regulations before traveling.

If the battery is attached to equipment, it can be checked-in baggage or carry-on baggage.

Spare batteries are permitted for carry-on but are limited to 2 batteries per person.

Be sure to protect the battery terminals by covering them with tape or inserting the battery in a plastic bag.

CUE-D150 by itself cannot be checked-in and must be carried onboard.

### For cargo

- Battery only (Packing Instruction 965 Section I .A)
- Battery packed with equipment (Packing Instruction 966 Section I)
- Battery contained on / in equipment (Packing Instruction 967 Section I)
- Packing must follow Class 9 Dangerous Goods regulations.
- There is no limit to the number of batteries per package.
- For passenger plane transportation, the package must be 11 lbs (5 kg) or less.
- For cargo plane transportation, the package must be 77 lbs (35 kg) or less.
- Batteries must meet the Packing Group II performance standards.
- Use a strong cardboard box to meet Packing Group II.
- The packages will require Class9 label, Name and address of shipper and consignee, Proper shipping name, UN number (UN3480 Lithium ion batteries or UN3481 Lithium ion batteries packed with equipment or UN3481 Lithium ion batteries contained in equipment)
- When battery package weight exceeds 11 lbs (5 kg), the CAO label is necessary.
- In addition, a dangerous goods declaration that contains the sender and consignee information must be submitted to the transporter.

Dangerous Goods regulations are subject to change. Please comply with the most updated regulations.



201408

EU only

