

# Li-Ion V-Mount Battery

## Maintenance Instructions



### **How to properly store batteries:**

- \* For short term storage (day-to-day, week-week) = Store fully charged
- \* For long term storage (month-to-month, three months+) = Maintain a 20-40% charge in a cool and dry room for every 3 months of non-use. Check batteries periodically and charge when necessary. All lithium-Ion cells have a self-discharge rate, so it is important to properly maintain and check batteries during long-term storage. Otherwise the battery cells will begin to discharge, which will lead to the battery becoming over-discharged and the cell balance collapsing (dead).  
Note: Keep stored batteries away from heat. (Examples include environments such as automobile trunks, heaters, ovens, and stoves)

### **How to properly discharge batteries:**

- \* When using with video or lighting equipment, power consumption of the equipment must be equal to or less than the max discharge capacity of the battery (The max discharge loads are listed below).
- \* Note that Li-Ion Batteries can be used in ambient temperatures of -20°C~50°C, but runtimes will be shorter in extreme high and low temperatures.
- \* Stop discharge at 12V to reduce cell damage.

Max Battery discharge loads:

E7S: 4.6A@50W

E-HL9S/E-HL9: 10A@120W

E-10S/E-10: 6.3A@69W

DUO-95: 6.3A@76W

ELITE: 9.2A@110W

DUO-150: 10A@120W

### **How temperature affects battery charge:**

- \* Low ambient temperatures may cause slow activation of electrolytes, which results in a decreased rate of charge and discharge.
- \* High ambient temperatures may accelerate cell deterioration.

### **Rated cycle counts of batteries:**

- \* All Lithium Ion Cell batteries have an **average** rated cycle count of **350 - 500** cycles if properly maintained with no over-discharges (results vary depending on maintenance and usage).

### **IMPORTANT 2-Year Warranty Information**

#### **ENDURA Li-ion Batteries with BMS (ENDURA ELITE/E-HL9/E-10/E-7)**

- \* Batteries which are unable to charge to more than 70% of the Initial Nominal Capacity within 2 years from the date of purchase, and within 300 Charge/Recharge Cycles from first charge date will be considered defective.
- \* Must never have been operated or stored at over 60 degrees Celsius/140 degrees Fahrenheit.
- \* Must not have been operated continuously or been stored for more than 5 hours at over 40 degrees Celsius/104 degrees Fahrenheit.
- \* Must never have been discharged to or below 9.2V (over-discharged).
- \* Any damage caused by customers through neglect or incorrect operation
- \* Never submerged in liquid

#### **ENDURA Li-ion Batteries without BMS (E-HL9S, E-10S, E-7S, NP-L7S, DUO-95, DUO-150)**

- \* Batteries which are unable to charge to more than 70% of the Initial Nominal Capacity within 1 year from the date of purchase will be considered defective.
- \* Must never have been discharged to or below 9.2V (over-discharged).
- \* Any damage caused by customers through neglect or incorrect operation
- \* Never submerged in liquid



Japan: **IDX Company, Ltd.** : 6-28-11 Shukugawara, Tama-ku, Kawasaki-shi, Kanagawa-ken, 214-0021 JAPAN

Tel: +81-44-850-8801 Fax: +81-44-850-8838 E-mail: [idx.japan@idx.tv](mailto:idx.japan@idx.tv)

Europe: **IDX Technology Europe, Ltd.** Unit 9, Langley Park, Waterside Drive, Langley, Berkshire SL3 6EZ ENGLAND

Tel: +44-1753-547692 Fax: +44-1753-546660 E-mail: [idx.europe@idx.tv](mailto:idx.europe@idx.tv)

USA: **IDX System Technology, Inc.** 19001 Harbortgate Way, Suite 105 Torrance, CA 90501 USA

Tel: +1-310-328-2850 Fax: +1-310-328-8202 e mail: [idx.usa@idx.tv](mailto:idx.usa@idx.tv) **Service Department** Tel: +1-310-328-2850 ext. 315