

## Key to Maximize the Life of Li-ion

### 1. Charging Recommendations

#### Recommended Charging Temp: 50 ~ 86°F (10 ~ 30°C)

Low ambient temperature may cause slow activation of electrolytes, which results in decrease in charge rate.

High ambient temperature may cause acceleration of cell deterioration.

#### Don't Charge with Non-IDX Charger

Charging voltage and charging specifications are different in each manufacturer. If battery is charged with an improper charge method, cells may lead to deterioration, lead to abnormal heating, and result in dangerous condition.

#### Recommend Removing the Battery within 2hours After the Full Charge Signal (Green LED)

Li-Ion battery has very minimum self-discharge rate of (approx) 20mAh/day.

### 2. Discharge Recommendations

#### Discharge Temp : -4 ~ 122°F (-20 ~ 50°C)

When the ambient temperature is extremely low, the cell will not be active and will reduce in discharge rate. This will result in performing under specification level.

High temperature condition, Temp above 68°F (20°C) will accelerate cell deterioration, which eventually lead to shorter battery life.

#### Stop Discharge at 13V Range.

ELITE can be discharge down to 12V but Li-Ion has the sudden drop in voltage after 13V. Due to this characteristic, regular alarm setting may not provide sufficient time from alarm to camera shut off. Also, repeated deep discharge may lead to acceleration to cell deterioration.



### 3. Key for Storage

#### Recommended Storage Temp : 32 ~ 68°F ( 0 ~ 20°C )

#### Recommended Storage Capacity : approx 40% range

The most ideal storage capacity is 0% but due to some consumption by the internal circuit board and minimal self-discharge, battery must have some charge for storage to avoid over discharge, which leads to cell deterioration.

At near 0% capacity, there is almost no cell damage even in high temperature storage condition. In 100% capacity situation, there may be a reduction in recovery capacity due to some deterioration.

Recommend Storage Condition: 32~68°F (0-20°C) at 40% capacity range.