Underwater Video Light

VIDEO 8X 13000lm CRI92

Operating Instructions

For Professionals Who Know The Difference.
BEFORE STARTING

- Read operating instructions.
- Keep O-ring clean and grease regularly.
- For storage charge the battery to 30-60%. Storing a fully charged or empty battery is detrimental to the battery’s life in the long run.
- Discharge/charge battery at least every 6 months.
- Remove the battery from casing when storing the light.
- Charge the battery before every dive.

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INSTRUCTIONS

1. MAGNETIC SWITCH
Attention: the light uses a magnetic switch, so your compass reading may be off when you hold it close (within 5cm or 2”) to the black on/off switch.

2. CHARGE OF THE BATTERY
Only use the supplied Li-Ion charger to charge the battery. For best results, the battery should be charged at room temperature.

3. MAINTENANCE OF BATTERY
It is not recommended to discharge the battery after each dive. Complete discharge after every use may reduce life time of battery. We recommend the following service procedures:
• For storage remove battery from casing.
• Discharge and recharge the battery at least once every 6 months.
• Avoid deep discharge of the battery pack.
• Store battery with approximately a 30-60% partial charge in a dry and cool place.
• Charge fully before each dive.
• The storage of a fully discharged battery may cause permanent damage to the battery.

4. BATTERY PROTECTION CIRCUIT
The integrated protection circuit protects the battery from overload, overcharge and deep discharge.

5. CHARGE LEVEL INDICATOR
The green charge level indicator displays the available relative charge and the two digit display shows the remaining run time at the actual power setting. The display unit is 1 minute. While charging the 2 digit display shows the remaining charge time. The unit is 10 minutes. The display is turned off when the battery is fully charged.

6. USE IN AIR
The video light can also be used outside water but at low power level only. If the light gets too hot, it slowly and automatically reduces the power to avoid overheating.
7. HOW TO OPEN THE CASING
Remove excess water from the outside before opening. Point the light slightly upward while opening to avoid water from entering the housing.

Friction of the O-ring seal (and therefore force needed to open the cap) increases over storage time. After long and deep dives the friction might increase too. To avoid high friction, regularly grease the O-ring.

8. MAINTENANCE
After each use rinse well with fresh water.
Care should be taken to avoid scratching of the O-ring seals. Keep seals clean of sand, hair, cloth fibers or similar materials at all times. O-rings of the battery screw cap should be regularly inspected and cleaned. Occasionally apply small amounts of silicone grease for lubrication. If not treated, the O-ring will fail to provide proper sealing causing the light to malfunction.

• Do not use sharp tools to remove the O-ring.
• Never use a battery which appears damaged.
• In case of a damaged lamp, contact your nearest KELDAN® dealer.
• Do not remove front glass cover (high operating voltage).
• O-rings need to be replaced by KELDAN® or an authorized dealer every 5 years.

9. STORAGE AND TRANSPORTATION
Battery and casing must be stored apart in a cool and dry place. Maintain battery pack according to our recommendations. Separate battery pack from casing if traveling by air.

12. WARRANTY
The light carries a two-year warranty after purchase (proof of purchase date required). The warranty is limited to material defects which occur when correctly handling the product. The warranty does not cover the battery packs.
KELDAN® warranty coverage is void for defects as a result of improper use.

11. LIABILITY
KELDAN® declines all responsibility for damages arising from any improper use of the VIDEO 8X 13000lm CRI92 light or as incurred by a third person.
SAFETY INSTRUCTIONS

The VIDEO 8X 13000lm CRI92 light produces an extremely powerful and intense light.

- Never point directly at a person at close distance.
- Never stare directly into the light.

RISK GROUP 2

CAUTION. Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eye.

SPECTRAL POWER DISTRIBUTION

Spectral Power Distribution

Beam Angle

Beam Angle

degrees

air

water
## TECHNICAL DATA

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Battery (Li-Ion)</td>
<td>14.4V / 99Wh</td>
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<tr>
<td>Charging time</td>
<td>3-4 hours</td>
</tr>
<tr>
<td>Diameter / Length</td>
<td>7 / 23.5 cm</td>
</tr>
<tr>
<td>Weight (in water)</td>
<td>0.88 (0.30) kg</td>
</tr>
<tr>
<td>Maximum depth</td>
<td>200 m</td>
</tr>
<tr>
<td>Color temperature</td>
<td>5600 K</td>
</tr>
<tr>
<td>Color rendering index</td>
<td>92 CRI (Ra)</td>
</tr>
<tr>
<td>Beam angle in water at 50% intensity</td>
<td>90°</td>
</tr>
<tr>
<td>Beam angle in water at 25% intensity</td>
<td>110°</td>
</tr>
</tbody>
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## POWER SETTINGS

<table>
<thead>
<tr>
<th>Luminus Flux</th>
<th>Candlepower</th>
<th>Burn Time</th>
<th>Electrical Power</th>
</tr>
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<tbody>
<tr>
<td>13'000 lumen</td>
<td>5600 candela</td>
<td>40 min</td>
<td>128 watts</td>
</tr>
<tr>
<td>7800 lumen</td>
<td>3400 candela</td>
<td>80 min</td>
<td>65 watts</td>
</tr>
<tr>
<td>4700 lumen</td>
<td>2000 candela</td>
<td>140 min</td>
<td>38 watts</td>
</tr>
<tr>
<td>2800 lumen</td>
<td>1200 candela</td>
<td>240 min</td>
<td>24 watts</td>
</tr>
<tr>
<td>1700 lumen</td>
<td>740 candela</td>
<td>380 min</td>
<td>15 watts</td>
</tr>
<tr>
<td>1000 lumen</td>
<td>430 candela</td>
<td>570 min</td>
<td>10 watts</td>
</tr>
<tr>
<td>610 lumen</td>
<td>270 candela</td>
<td>950 min</td>
<td>6 watts</td>
</tr>
<tr>
<td>350 lumen</td>
<td>150 candela</td>
<td>1200 min</td>
<td>4.5 watts</td>
</tr>
<tr>
<td>220 lumen</td>
<td>100 candela</td>
<td>1400 min</td>
<td>4 watts</td>
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Expedition Gombessa:
Laurent Ballesta meets the coelacanth at 120m depth.