

**Advanced Lighting Technology** 

Underwater Video Light

# **VIDEO 4X 100001m CRI85**

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 (proove 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 4X 10000lm CRI85 light or as incurred by a third person.

## **SAFETY INSTRUCTIONS**

The VIDEO 4X 10000lm CRI85 light produces an extremely powerful and intense light.

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

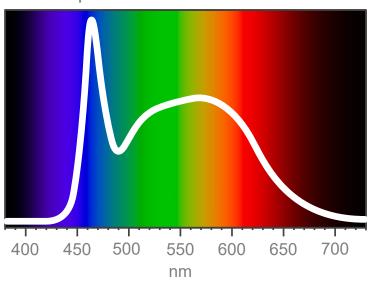
#### **RISK GROUP 2**



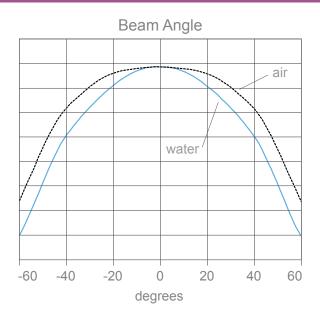
CAUTION. Possibly hazardous optical radiaton emitted from this product. Do not stare at operating lamp. May be harmful to the eye.

# **SPECTRAL POWER DISTRIBUTION**

**Spectral Power Distribution** 



### **BEAM ANGLE**



# **TECHNICAL DATA**

Battery (Li-Ion)	14.4V / 49Wh
Charging time	3-4 hours
Diameter / Length	7 / 17 cm
Weight (in water)	0,63 (0,20) kg
Maximum depth	200 m
Color temperature	5600 K
Color rendering index	85 CRI (Ra)
Beam angle in water at 50% intensity	90°
Beam angle in water at 25% intensity	110°

#### **POWER SETTINGS**

Luminus Flux	Candlepower	Burn Time	Electrical Power
10'000 lumen	4300 candela	35 min	67 watts
6100 lumen	2600 candela	65 min	44 watts
3800 lumen	1600 candela	100 min	27 watts
2300 lumen	1000 candela	180 min	16 watts
1400 lumen	600 candela	240 min	12 watts
870 lumen	370 candela	420 min	7 watts
530 lumen	230 candela	600 min	5 watts
320 lumen	140 candela	750 min	4 watts
200 lumen	90 candela	850 min	3.5 watts



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