

# **KELDAN**

Advanced Lighting Technology

Dive and Search Light

## **Dive 8S 8000lm**

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

The 5 power levels allows to adjust the brightness of the light over a very wide range. The TEST position activates the charge level display on the rear side.

Attention: the light uses a magnetic switch, so your compass reading may be off when you hold it close (within 10cm or 4”) 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. Avoid charging when batteries are still hot after use. Let them cool down before charging.

## 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 Dive 8S 8000lm light can also be used outside water but for continuous operation in air it is recommended to set the light to the 2nd highest power level. At highest power level the light may get too hot after some time and the over temperature protection will be activated and the power will be reduced automatically 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. Do not allow water to dry on glass to avoid water marks especially when diving in high mineral content brackish water. Rinse the black magnetic switch ring by rotating 3-5 times to dislodge salt or sand on inner portion

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.

## **10. 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.

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 Keldan Dive 8S 8000lm light or as incurred by a third person.

# SAFETY INSTRUCTIONS

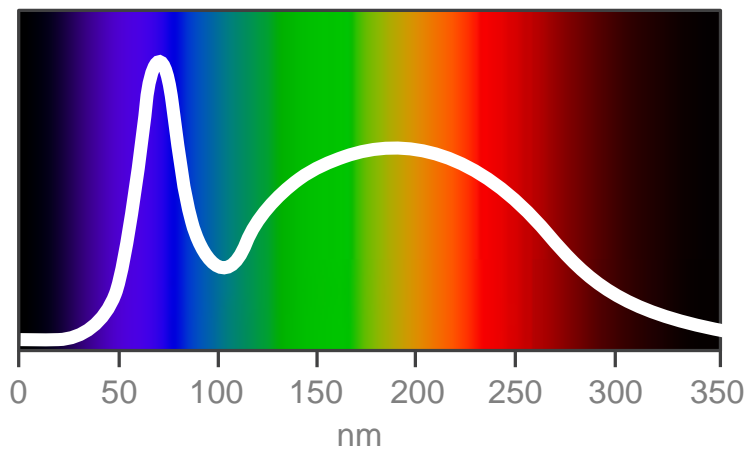
The Keldan Dive 8S 8000lm light produces an extremely powerful and intense light.

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

<b>RISK GROUP 2</b>	
	CAUTION. Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eye.

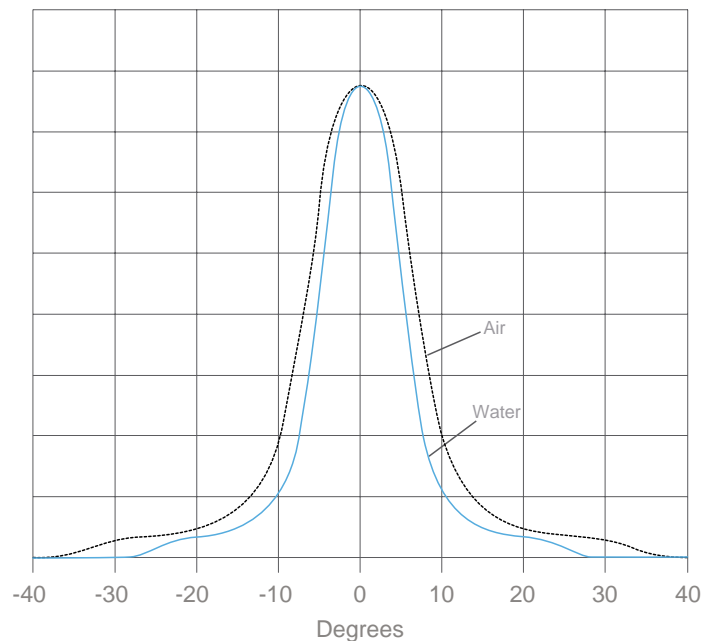
# SPECTRAL POWER DISTRIBUTION

Spectral Power Distribution



# BEAM ANGLE

Beam Angle



## TECHNICAL DATA

<b>Battery (Li-Ion)</b>	14.4V / 6.9Ah (99Wh)
<b>Charging time</b>	3-4 hours
<b>Diameter / Length</b>	8 / 20 cm
<b>Weight (in water)</b>	1.05 (0.28) kg
<b>Maximum depth</b>	200 m
<b>Color temperature</b>	5000 K
<b>Color rendering index</b>	82 CRI (Ra)
<b>Beam angle at 50% intensity</b>	15°

## POWER SETTINGS

<b>Luminus Flux</b>	<b>Candlepower</b>	<b>Burn Time</b>	<b>Electrical Power</b>
8000 lumen	60'000 candela	60 min	90 watts
4200 lumen	31'000 candela	135 min	40 watts
2200 lumen	16'000 candela	4 h	20 watts
1100 lumen	8500 candela	7 h	12 watts
600 lumen	4500 candela	12 h	7 watts

# KELDAN<sup>+</sup>

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