

KELDAN

Advanced Lighting Technology

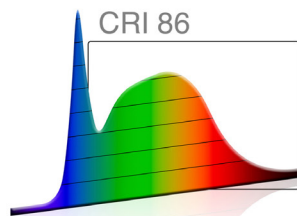
Underwater Video Light

VIDEO 4XR 11000lm CRI86

Operating Instructions



**READY FOR
WIRELESS
REMOTE CONTROL**



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 CONTROL RING

Attention, the black ring controls the operating mode of the light with a magnetic field. Do not place your compass close to the black control ring (keep a minimum distance of 10cm or 4”).

2. OPERATING MODES

Normal Mode : LOW HIGH:

- the 9 logarithmic Power Levels

Remote Control Mode: “R”:

- this is the Mode to control a XR light with the Wireless Remote Control

Basic Workflow to pair a XR Light with the Wireless Remote Control:

1. Switch the XR light to remote mode “R”, now pairing messages from the remote are accepted during the next 10 seconds.
2. Send pairing message with the Remote Control (see Remote Control manual for details)
3. The light confirms a successful pairing with short flashes.



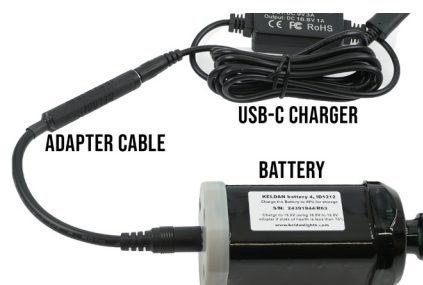
Important:

Be aware of the time out of 10 seconds. If there is no pairing message sent within 10 seconds after switching to “R” mode, turn off the light and switch again to “R” to reactivate accepting pairing messages for another 10 seconds.

3. CHARGE OF THE BATTERY

Use the supplied USB-C 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.

Important: If the battery state of health falls below 75%, always use the included 16.8V to 16.6V adapter cable when charging.



4. 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:

- Discharge and recharge the battery at least once every 6 months.
- For storage remove battery from casing.
- 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.

5. BATTERY PROTECTION CIRCUIT

The integrated protection circuit protects the battery from overload, overcharge and deep discharge.

6. CHARGE LEVEL INDICATOR

The charge level monitor circuit shows the available energy by taking into account charge and discharge currents.

The two digit numerical display shows the remaining run time in minutes at the actual power setting. During charge it shows the remaining charge time (1 digit = 10 minutes).



The display is turned off when the battery is fully charged. The LED bar with the green LED is a relative display which tells you the actual charge level like a fuel gauge.

7. USE IN AIR

The video light can also be used outside water but at low power level only. If the light gets too hot, the over temperature protection will be activated and the power will be reduced automatically to avoid overheating.

8. 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.

9. 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.

10. 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.

11. 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.

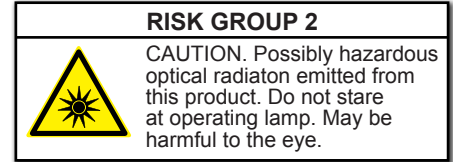
12. LIABILITY

KELDAN® declines all responsibility for damages arising from any improper use of the VIDEO 4XR 11000lm CRI86 light or as incurred by a third person.

SAFETY INSTRUCTIONS

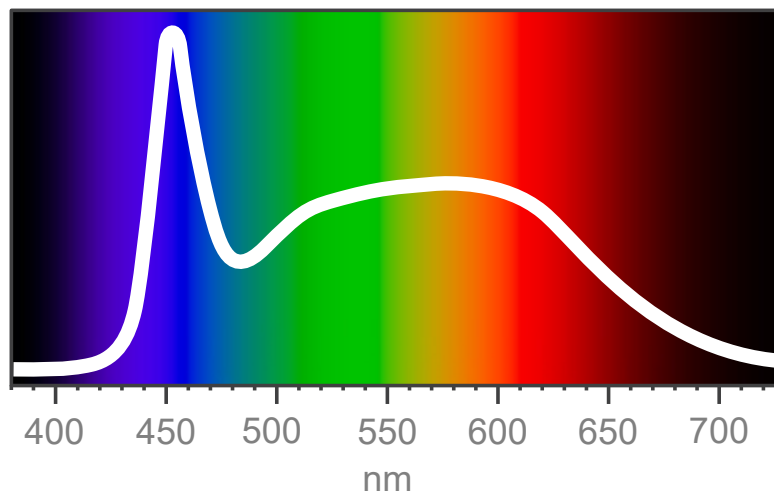
The VIDEO 4XR 11000lm CRI86 light produces an extremely powerful and intense light.

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



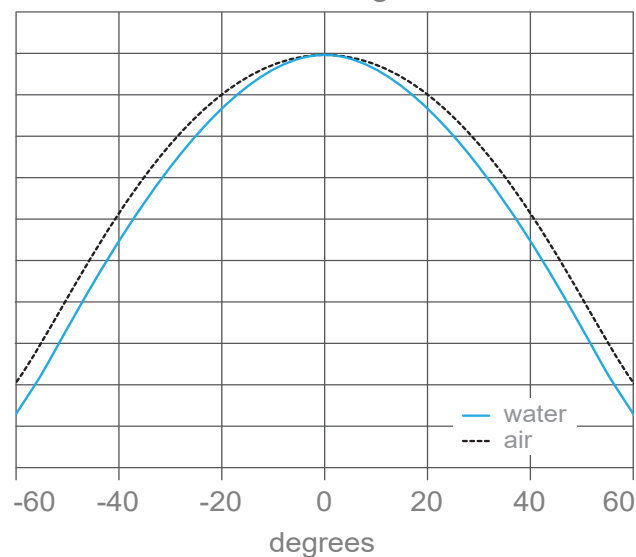
SPECTRAL POWER DISTRIBUTION

Spectral Power Distribution



BEAM ANGLE

Beam Angle



TECHNICAL DATA

Article Nr.	2027
Battery (Li-Ion)	14.4V / 49Wh
Charging time	4-6 hours
Diameter / Length	7 / 16 cm
Weight (in water)	0,67 (0,23) kg
Maximum depth	200 m
Color temperature	5600 K
Color rendering index	86 CRI (Ra)
Beam angle in water at 50% intensity	90°
Beam angle in water at 25% intensity	110°
Flux Integral	7'100lumenhours @ 7100lm

POWER SETTINGS

Luminus Flux	Candle Power	Burn Time	Flux Integral Lumenhours	Electrical Power
11'000 lumen	4700 candela	35 min	6400	71 watts
7100 lumen	3000 candela	60 min	7100	45 watts
4100 lumen	1800 candela	100 min	6800	26 watts
2200 lumen	1000 candela	180 min	6600	15 watts
1400 lumen	600 candela	280 min	6500	10 watts
720 lumen	320 candela	450 min	5400	6 watts
460 lumen	200 candela	620 min	4800	5 watts
290 lumen	120 candela	800 min	3900	4 watts
180 lumen	80 candela	900 min	2700	3 watts

KELDAN⁺

Advanced Lighting Technology

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Subject to change without notice, December 2024.

Lighting with Remote Controllable 4XR Lights

