

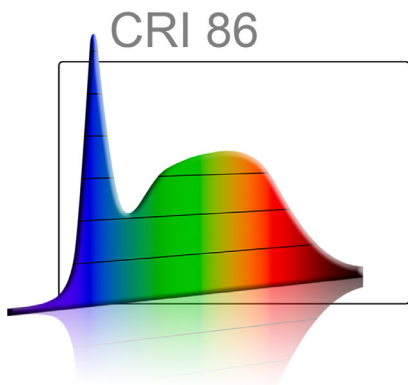
# **KELDAN**

Advanced Lighting Technology

Underwater Video Light

## **VIDEO 8XR 20000lm 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

- 9 logarithmic Power Levels

### Remote Control Mode: “R”

- This is the Mode to control the XR light with the RC1 Remote Control

Basic Workflow to connect XR Light(s) to the RC1 Remote Control:

1. Switch the RC1 remote control to PAIR mode.
2. Switch the Video 8XR light to remote mode “R”, now pairing is possible during the next 10 seconds.
3. Turn the brightness knob on the RC1 remote control. (Use the channel you want the light to be paired to).
4. The light confirms a successful pairing with short flashes.



## 3. 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.

## 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:

- 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.

## 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.

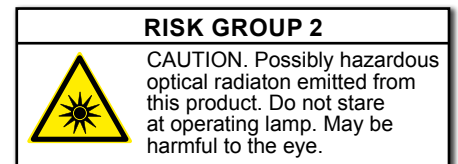
## 12. LIABILITY

KELDAN® declines all responsibility for damages arising from any improper use of the VIDEO 8XR 20000lm CRI86 light or as incurred by a third person.

# SAFETY INSTRUCTIONS

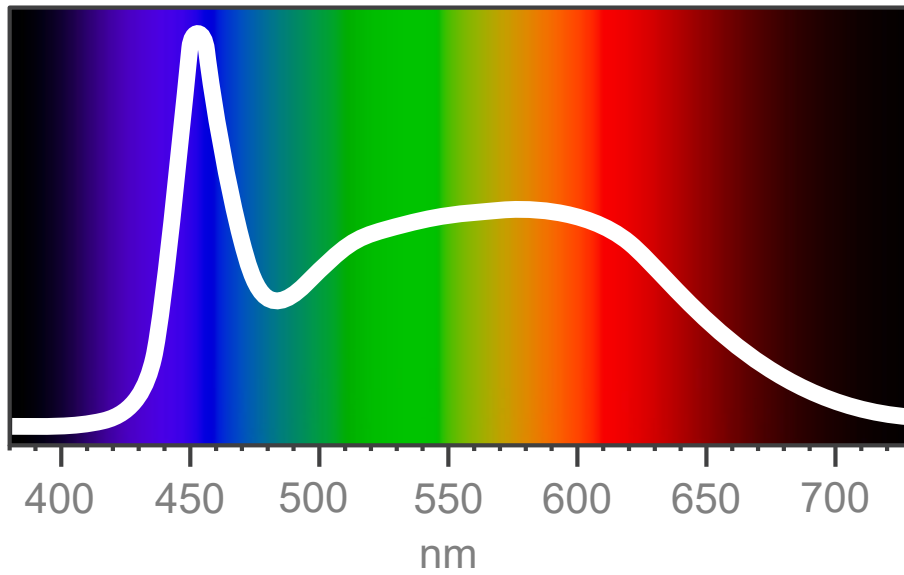
The VIDEO 8XR 20000lm CRI86 light produces an extremely powerful and intense light.

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



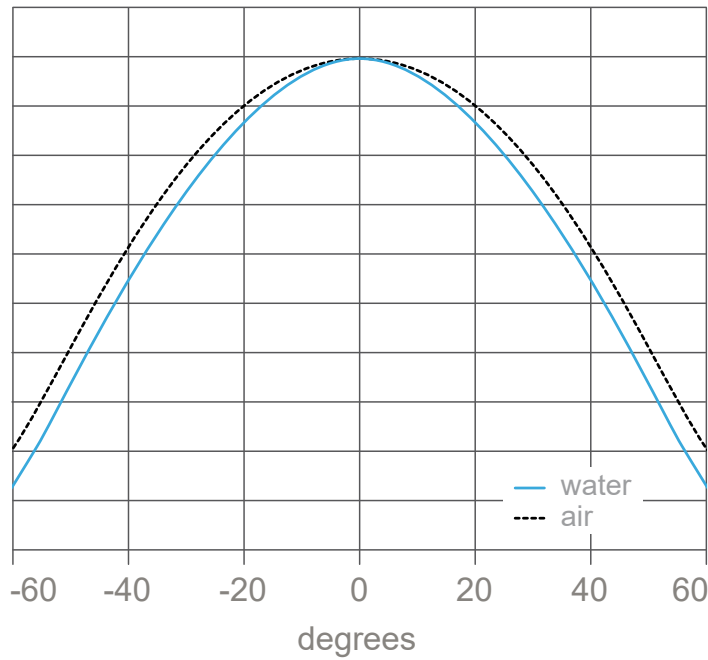
# SPECTRAL POWER DISTRIBUTION

## Spectral Power Distribution



# BEAM ANGLE

## Beam Angle



## TECHNICAL DATA

<b>Article #</b>	1725
<b>Battery (Li-Ion)</b>	14.4V / 99Wh
<b>Charging time</b>	3-4 hours
<b>Diameter / Length</b>	7 / 23,5 cm
<b>Weight (in water)</b>	0,9 (0,33) kg
<b>Maximum depth</b>	200 m
<b>Color temperature</b>	5600 K
<b>Color rendering index</b>	86 CRI (Ra)
<b>Beam angle in water at 50% intensity</b>	90°
<b>Beam angle in water at 25% intensity</b>	110°

## POWER SETTINGS

<b>Luminus Flux</b>	<b>Candle Power</b>	<b>Burn Time</b>	<b>Electrical Power</b>
20'000 lumen	8600 candela	35 min	145 watts
11'000 lumen	4700 candela	65 min	80 watts
6700 lumen	2900 candela	120 min	45 watts
3900 lumen	1700 candela	220 min	25 watts
2200 lumen	950 candela	350 min	16 watts
1300 lumen	550 candela	550 min	10 watts
750 lumen	320 candela	800 min	7 watts
430 lumen	180 candela	1100 min	5 watts
250 lumen	110 candela	1400 min	4 watts



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Subject to change without notice, March 2022.

Lighting Cenote Nohoch Nah Chich with  
remote controlled Video 8XR lights  
Photo: Natalie Gibb

