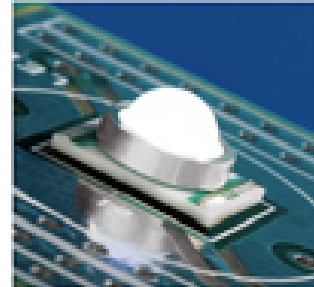


## Underwater Lighting System Model OPT-LR06



### Brightest LEDs Available



The Model OPT-LR06 underwater lighting system is the perfect compliment to the OPT-06 OceanCam. Its high-powered LED modules produce a large quantity of warm white light while minimizing the power supply requirements.

This unique lighting system is mounted off camera around the underwater housing. Each of the three modules has six high-power LEDs. This allows almost the full working range of the camera to be illuminated. The light modules generate 40 foot-candles of illumination when measured at one meter. The LEDs provide an effective lighting range of 3-4 meters from the camera.

The lighting modules require a 48 VDC power supply delivered via a separate underwater power cable. The on-board controller, mounted inside the housing, allows for remote network control of the lights with ON/OFF settings. The lights can be mounted pointing 40 degrees upwards or downwards, or can be pointed horizontally. Adjustable brackets are also available. The vertical angle of illumination is 110°. The six LEDs are mounted on a curved heat sink and the horizontal angle of light spread per module is more that 150 degrees.

Lighting systems are available in one or more module chains. Power supply cables can be either a separate power cable up to 300 feet (100 meters) or a single combined cable for camera network and power.

### Features

Remote control switching (ON/OFF) via camera over the Internet

Lumen maintenance of greater than 70% after 50,000 hours

Correlated color temperatures (CCT) from 2600 K - 10,000 K

Excellent white point stability over time

RoHS-compliant

### Specifications

System power supply	1.2 amp @ 48 VDC
Controller supply voltage range	30-56 VDC
Illumination	40 foot-candles @ 1 meter
Low beam load (adjustable)	20 watts minimum
High beam load (adjustable)	60 watts maximum
Light module power	800 mA @ 24 VDC
Output voltage to LEDs	18-24 VDC
Emitter light spread	110° spread

Three six-emitter modules illuminate nearly the full range of camera motion. They are available with fixed position mounting or adjustable positioning brackets. Off camera mounting is recommended in order to illuminate an area and minimize phytoplankton swarms. An underwater power cable up to a maximum length of four meters can be employed to place the lights off the camera and near the viewing area.

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