

# PRODUCT SPECIFICATION

# SEA-LED HIGH INTENSITY UNDERWATER LED LAMP



**Solid State**  
**Variable Intensity**  
**Digital or Analogue Control**  
**Up To 32 Lamps Individually Addressable On Same RS485 Line**  
**Low Power Consumption**  
**Processor Controlled Thermal Overload Protection**

## Description

The SeaLED is next generation in subsea lighting technology for ROVs, Diving Inspection and Oceanographic Research. This highly efficient underwater light is based around the latest advancement in super-bright LEDs. The amazing quality of "white light" results in excellent colour rendering making it an ideal choice for high quality video work such as Environmental and Scientific Research. The LED layout in each array results in the illumination being very uniform with no hot spots.

The shock resistant solid state design avoids the problems normally associated with conventional filament type lamps, making it ideal for applications where high levels of vibration are present. The expected life of the LED array is typically 50,000 hours.

The SeaLED can be powered from a low voltage DC supply resulting in increased safety for diver operation, this also avoids electrical interference on video signals associated with AC powered lights. A built in micro-processor provides multi-drop RS485 intensity control, proportional analogue intensity control and thermal protection for the LED array all as standard.

## Specifications

### Optical

Colour Temperature	White 4700k (Typical)
Luminous Intensity	1070 LUX @ 1m (tested at typical sea water temp 5°C)
Colour Rendering Index	78 (Typical)
Beam Angle	65°

### Electrical

Input Voltage	16-36 V dc
Power Consumption	40 Watts Max
Intensity Control Digital	RS485, 2-wire half duplex, Baud rates - user selectable, Multi-drop (Up to 32 lamps on same RS485 line)
Intensity Control Analogue	0 - 5 V dc input, Proportional control
LED Array Life	50,000 hours

### Mechanical

Depth Rating	3000 meters
Length	130 mm (excluding connector)
Diameter	95 mm front end 62 mm main body
Weight	1.0 kg in air 0.58 kg in salt water
Body Material	6082-T6 Marine Grade Aluminium
External Finish	Hard anodized
Viewport	Acrylic
Connector	MCBH5M

All specifications are subject to change without notice

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