

SeaLED

Seatronics High Intensity Underwater LED Lamp



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, however an AC option is also available. A built in micro-processor provides multi-drop RS485 intensity control, output is greater than standard 300w halogen underwater lamp, proportional analogue intensity control and thermal protection for the LED array all as standard.

Features

- Solid state not susceptible to vibration
- Variable intensity
- Digital or analogue control
- DC & AC options
- Up to 32 lamps individually addressable on same
- Thermal cut off

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Technical Specifications

Optical

Colour temperature	White 4700k (typical)
Luminous intensity	1067 LUX (Typical @ 1m)
Colour rendering index	78 (Typical)
Beam angle	65°

Electrical

Input voltage	16-36V DC / 60 - 115 V AC (AC Model)
Power consumption	40 Watts Max / 27 Watts Max (AC Model)
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 - 5V DC input, proportional control
LED array life	50,000 hours

Mechanical

Depth rating	4000m
Length	130mm (excluding connector)
Diameter	95mm front end 62mm main body
Weight	1.0kg in air 0.58kg in salt water
Body material	6082 - T6 marine grade aluminium
External finish	Hard anodized
Viewport	Acrylic
Connector	MCBH5M / MCBH3M (AC Model)

Specifications subject to change without notice

seatronics

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