



OceanTools OceanLED

High-intensity subsea LED lights

Key features:

Available in narrow-beam spotlight and wide-beam floodlight versions

Lamp intensity controlled by Digital, Analogue and Serial methods

Flicker-free electronics improve camera image quality

Includes holes for mounting brackets

Sold with optional mounting bracket

Depth ratings from 1000m to 6000m.



The OceanTools OceanLED is a compact, cost-effective and extremely durable underwater light. OceanLED is available in two guises – the OceanLED/Flood and the OceanLED/Spot.

Utilising the very latest developments in high-intensity LED technology, the OceanTools OceanLED does not have the fragile filaments found in conventional subsea lighting systems thus making it suitable for use in a wide variety of subsea and underwater applications. Its rugged design allows it to be used with confidence on subsea vehi-

cles that are subject to large levels of vibration e.g. subsea trenching systems and ploughs.

The very low power consumption of only typically 8.4 Watts makes it ideal for use where power is a critical system consideration. For example, when fitted to autonomous underwater vehicles.

OceanTools have included variable intensity in the OceanLED and offer three innovative methods of controlling the intensity. These include:

Digital : by toggling a command line the lamp intensity may be increased, decreased, turned on or turned off.

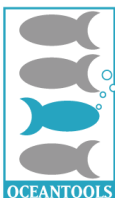
Analogue : an analogue signal in the range of 1.0 to 3.0 VDC can be used to vary intensity between minimum and maximum.

Serial : a multi-drop RS232 message can be used to control the intensity of up to 16 lamps over a single control line.

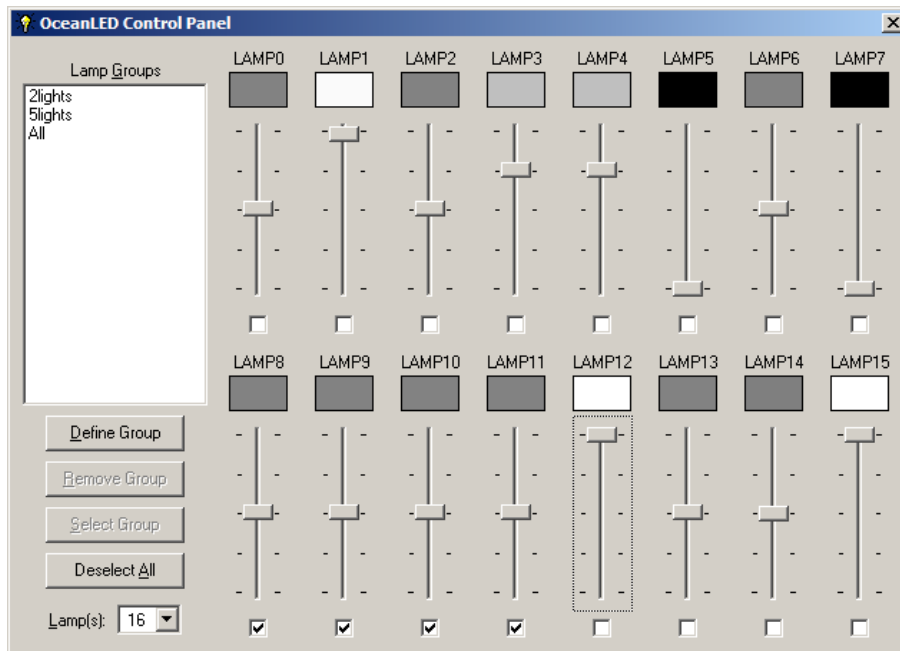
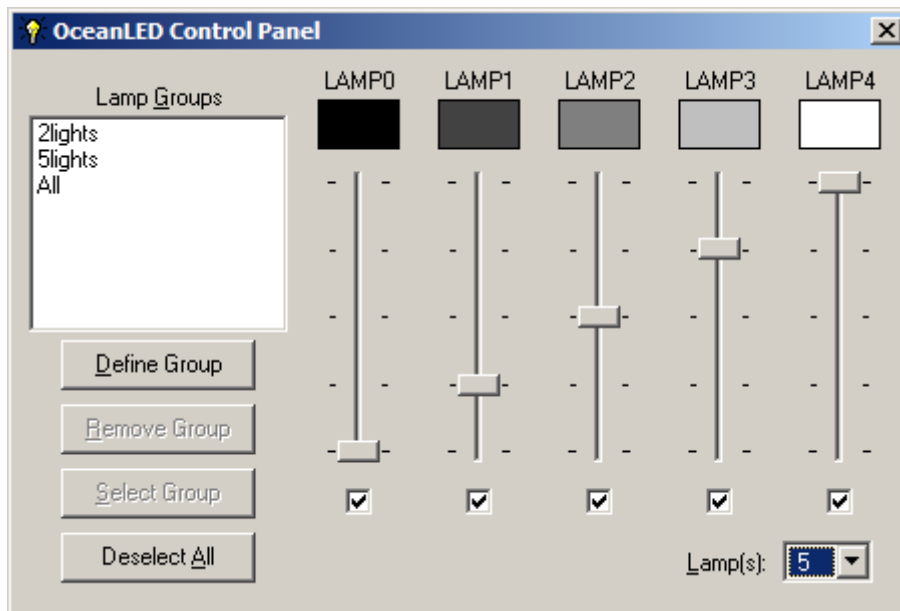
OceanTools offer an expanding range of video controller solutions and control systems for subsea video requirements. Please do not hesitate to contact us for further information on these products.

OceanLED Specifications

Beam intensity, spotlight	720 Candela/100 Lumen
Beam intensity, floodlight	900 Candela/125 Lumen
Overall length (exc. connector)	82.5mm
Maximum diameter	85mm
Standard depth rating	1000m, 3000m, 6000m
Weight in air, 1000m unit	0.3kg
Weight in water, 1000m unit	0.1kg
Supply voltage range, spotlight	22-30VDC
Supply voltage range, floodlight	18-30VDC
Current consumption	350mA typical
Power consumption (at 24VDC)	8.4Watts
Intensity control	Digital, Analogue, Serial
Materials	Aluminium body, lexan viewport
Connector type	Subcon 3 pin, various others



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OceanLED Controller Software for RS232 control of multiple OceanLED lamps

Within the Graphical User Interface, the operator can choose how many lamps to control, up to a maximum of 16. If there are only 2 lamps in the system, it is best to ensure that only 2 sliders are shown, as this results in less serial traffic. The window size will adapt to fit the number of sliders required. The window is designed so that it is never any larger than a 640x480 display, so it can be used on a basic PC etc.

The sliders are used to increase or decrease the intensity of a lamp. The indicator at the top of the slider fades from black to white as the operator increases the lamp intensity. To control multiple sliders together, tick the sliders you want to group together then drag any slider in the group and the others will follow.

To avoid having to manually select groups of lamps that are often used together, the user can define groups of lamps. First, select all lamps in the group, then press Define Group and enter a name. At any stage, you can select that group of lamps again by selecting the group name in the list on the left and pressing the Select Group button. You can do the same by double-clicking the group name. You can remove a group by selecting its name in the list and pressing Remove Group. Lamp groups are saved for future sessions.



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