



TRiOLight-UV

High Brightness Underwater LED Light

The SeaTRiO UV Subsea Anti-Fouling Light is a compact, purpose-designed ultraviolet lighting solution developed to control biofouling and organic growth on illuminated underwater surfaces. Emitting high-intensity UV light at 250 nm with a total optical output of 30 W, this unit is ideal for protecting sensors, camera ports, optical windows, and other critical subsea components where biological growth can degrade performance over time.

Housed in the same compact and lightweight aluminium enclosure as the SeaTRiO Compact Subsea Light range, the UV Subsea Anti-Fouling Light is well suited to integration on small ROVs, fixed subsea installations, and long-term deployed systems where space, weight, and reliability are key considerations. The highly scratch-resistant lens ensures excellent durability and optical stability in harsh subsea environments.

Control and integration are flexible and straightforward, with support for RS232, RS485, 0–5 V analogue input, and PWM control, enabling seamless compatibility with a wide range of vehicle and system architectures. The light can be precisely controlled to suit specific deployment requirements, allowing operators to manage output levels and operating schedules for effective biofouling mitigation while optimising power consumption.

Whether used to protect optical surfaces on mobile platforms or to prevent organic growth on fixed subsea assets, the SeaTRiO UV Subsea Anti-Fouling Light provides a robust, compact, and highly effective solution for long-term biofouling control in demanding underwater environments.

Power	24V, 2.3A
Operating Temperature	-10° to 45°C
Light output	30W at 250nm
Dimming control	RS232, RS485, PWM, 0-5V/10V (0V-On, 5V-Off)
Connector	MCBH8M or MCBHRA8M, others on request



Model	TRiOLight-UV1000	TRiOLight-UV4000
Depth Rating	1000m	6000m
Diameter	58mm	63mm
Length	106mm	120mm
Weight in Air	340g	460g
Weight in Water	200g	230g
Material	Anodised Aluminium	Anodised Aluminium