



TRiOLight-M

High Brightness Underwater LED Light

The SeaTRiO High-Power Compact Subsea Light builds on the proven design of our Compact Subsea Light, delivering significantly increased output in a slightly larger yet still lightweight and space-efficient form factor. Designed for applications where maximum illumination is required without compromising vehicle size or payload, this light is ideally suited to small and medium ROVs, advanced inspection platforms, and high-performance subsea systems operating in low-visibility environments.

Operating on 24VDC, the unit produces a substantially higher lumen output, providing powerful, even illumination for demanding tasks such as detailed inspections, surveying, and imaging in turbid or deep-water conditions. Despite its increased performance, the light remains compact and lightweight, making it an excellent choice for vehicles that require high lighting levels but have limited space and power budgets.

Manufactured from solid aluminium and fitted with a highly scratch-resistant lens, the light is engineered to withstand harsh subsea conditions while maintaining excellent optical clarity and long-term reliability. Control is flexible and integration is straightforward, with support for RS232, RS485, 0–5V analogue input, and PWM control. The included intuitive topside software allows operators to easily adjust brightness and manage control settings in real time.

Whether deployed as a primary lighting solution on a high-performance compact ROV or integrated into a larger subsea system requiring exceptional illumination, the SeaTRiO High-Power Compact Subsea Light delivers outstanding output, robust construction, and seamless control in a compact, professional-grade package

Power	24V, 2.3A
Operating Temperature	-10° to 45°C
Light output	8000lm
Dimming control	RS232, RS485, PWM, 0-5V/10V (0V-On, 5V-Off)
Connector	MCBH8M or MCBHRA8M, others on request



Model	TRiOLight-M1000	TRiOLight-M4000
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