



TRiOLas-S

High Performance
Underwater Laser

SeaTRiO Ltd offers a high-performance subsea laser designed for advanced industrial applications requiring precision and versatility. Housed in a rugged anodised aluminium body, this premium laser system supports a range of beam configurations including dot and line projections, making it ideal for machine vision, alignment, and underwater measurement systems. With a higher pointing accuracy than our compact models, it is particularly well-suited for demanding tasks such as parallel beam range estimation and dimensional analysis in subsea environments.

This laser is available in blue, green, and red wavelengths, allowing users to select the most effective output for their specific operational conditions. It is equipped with a sapphire lens that provides exceptional durability and resistance to both scratching and biofouling, ensuring consistent optical performance during extended deployments. Though unit delivers the precision and flexibility required for critical subsea operations where accuracy and reliability are paramount..

Power	24V, 160mA
Operating Temperature	-10° to 40°C
Laser power output	Blue 100mW Green 50mW Red 130mW
Wavelengths	Blue 450nm Green 520nm Red 650nm
Connector	MCBH2M or MCBHRA2M, others on request



Model	TRiOLas-S4000	TRiOLas-S6000
Depth Rating	4000m	6000m
Diameter	43mm	43mm
Length	106mm	112mm
Weight in Air	340g	460g
Weight in Water	240g	230g
Material	Anodised Aluminium	Titanium