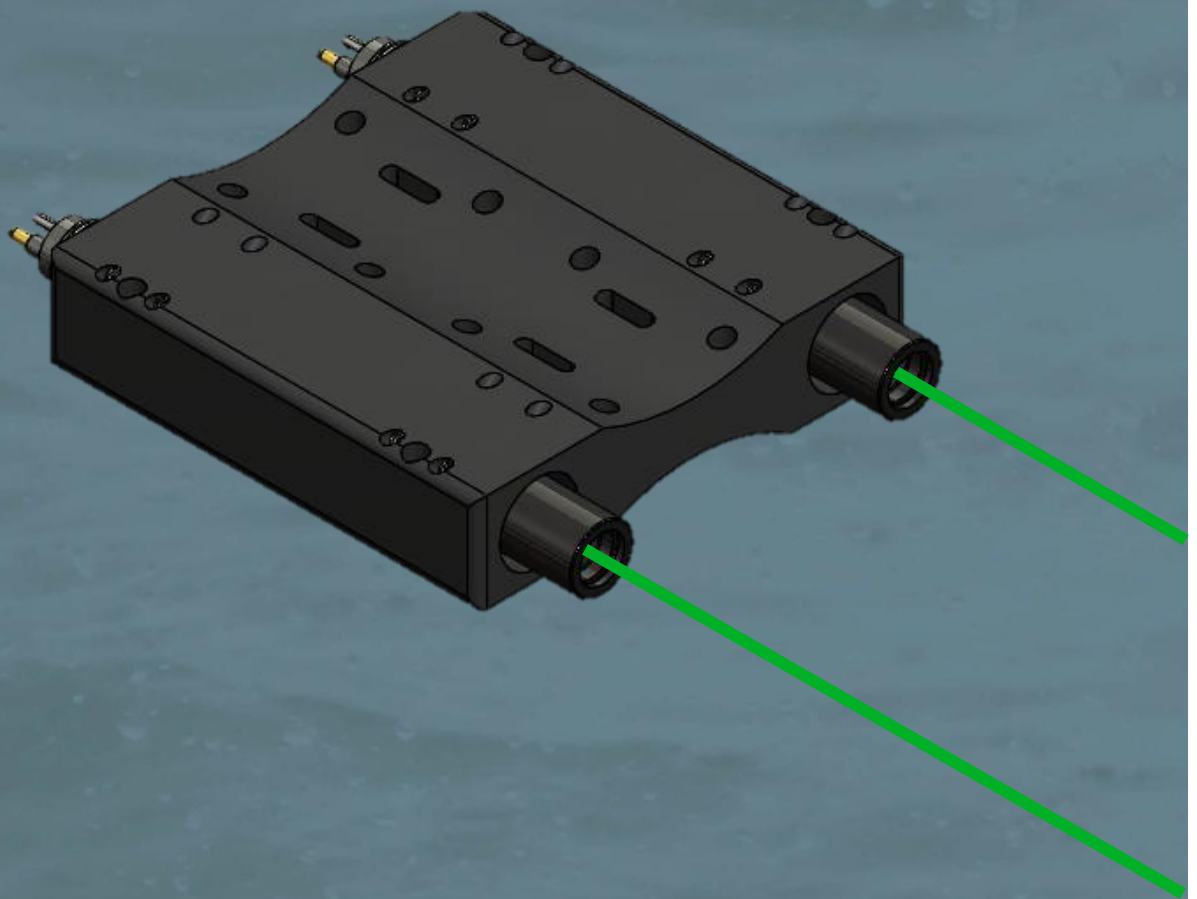


ROPOS

CANADIAN SCIENTIFIC SUBMERSIBLE FACILITY



Scaling Lasers

Summary

Dual green laser scaling module consisting of two 532 nm, 5 mW diode laser modules integrated into pressure-rated housings and mounted within a fixed alignment block. The lasers are aligned to project parallel beams with a fixed separation of 10 cm at the target plane, providing a visual scale reference for subsea imaging applications. Units are typically mounted to DSC and HD camera systems.

Key Features

- Dual 532 nm green lasers
- 100 mm fixed parallel spacing
- 5000 m depth rating
- <1 mRad low-divergence beam
- <1% output stability (APC)

Specifications

Laser	
Type	Continuous Wave Semi-conductor laser diode Class III-A
Beam Diameter	<1.2 mm
Wavelength	532 nm
Beam Divergence	<1 mRad
Beam Power	5 mW per laser
Beam Type	Line
Environmental	
Depth Rating	5,000 m
Operational Temperature	1°C to 30°C
Electrical	
Voltage	3–5 VDC
Current	<300 mA per laser
Connector	SubConn MCBH2M
Mechanical	
Housing	Titanium 6Al-4V
Port	Flat UV-grade fused silica
Weight in Air	2.81lbs (1.27kg)
Weight in Water	1.75lbs (0.79kg)