

SeaLaser[®] 100

- 2,000 Meter Depth Rated
- <5 mW Beam Output (Class IIIA)
- Red (635 nm) or Green (532 nm)
- Small and Lightweight
- Beam is Precisely Aligned to Housing Barrel
- Ensures Camera or Light Alignment
- Dual Mounting Bracket for Object Scaling or Distance Estimation
- Internal Thermal Overheat Protection
- Internal Reverse Polarity Protection



DEEPSEA
Power & Light[®]

SeaLaser[®] 100

The SeaLaser 100 is a low cost, lightweight underwater scaling, range finding, and aiming device that utilizes a high quality solid state laser diode module. It can be used in pairs or arrays of parallel-aligned beams to determine sizes/scale of viewed objects. Used in an array of three parallel plus one oblique (four total) it can determine zoom lens focal length settings as well.

The SeaLaser 100 is good to 5-8 meters range (red), and further for green. The beam's sharp focus distance is a standard factory-set 10 feet (3.3m). An internal power regulation board allows smooth operation over a broad temperature range, protects the laser diode from most voltage transients, and is internally fused. This is important for applications using long cables or those that might have switching transients. It has a scratch resistant SAR optical port.

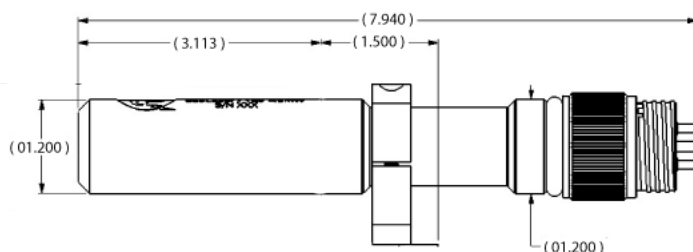
NOTE: The usable range is a function of ambient light levels, water conditions, and camera sensitivity.

SeaLaser[®] 100 Specifications

MECHANICAL		
Housing Material:	Acetal plastic (Delrin)	
Port:	SAR Acrylic	
Length:	15.24 cm (6.0 in.) excluding connector	
Diameter:	3.0 cm (1.2 in.)	
Weight in Air:	227g (0.500 lb) laser only; 300 g (0.661 lb) with bracket	
Weight in Water:	67 g (0.148 lb) laser only; 140 g (0.309 lb) with bracket	
Other:	Mounting bracket included	
LASER		
Type:	Semi-conductor laser diode Class III-A (<5 mW)**	
Beam Diameter:	Red, elliptical 1.8mm x 0.5mm; Green, circular, <2 mm Dia	
Wavelength:	Red (635 nm), Green (532 nm)	
Beam Divergence:	RED: 0.09 mRad x 0.19 mRad; GREEN: <1.2 mRad	
Beam Alignment:	Beam runout 5 cm at 10 m (2 in at 33 ft), max	
Optimum Operating Temp*:	Red	Green
	-10 to +40°C	+1 to +30°C
ELECTRICAL		
Power:	Red/Green: 7-27 VDC 250 mA	
ENVIRONMENTAL		
Depth	2,000 meters (6,500ft)	
ACCESSORY		
Option:	Dual laser mount	

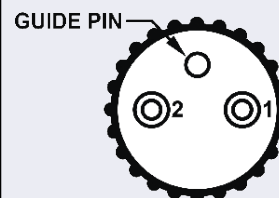
*Cold water operational note: DeepSea recommends turning on the green SeaLaser 100 3-5 minutes prior to the intended use to allow the module to come to its optimum operating temperature to produce full intensity. Please contact DSPL technical sales for further information.

**Class III-A: Output power does not exceed 5 mW. Beam power density may not exceed 2.5 mW/square cm. Many laser sights for firearms and laser pointers are in this category.



Specifications subject to change without notice.

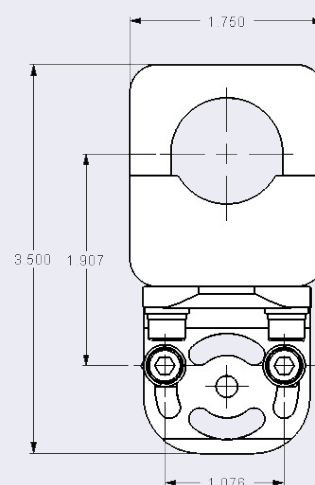
Connector



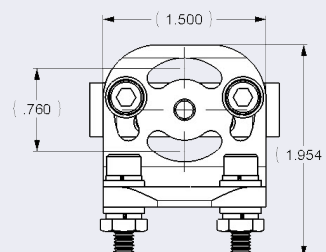
BH2MP
1= neg
2= pos

Mount

Front



Bottom



DSPL ENG 718-005
REV 11.30.12



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