



SeaLaser 100

**SMALL, LIGHTWEIGHT
& LOW COST**

**5 mW 670 nm &
7 mW 635 nm**

**BEAM IS PRECISELY
ALIGNED TO HOUSING
BARREL**

**ENSURES CAMERA OR
LIGHT ALIGNMENT;
ALLOWS OBJECT
SCALING USING PAIR**



The SeaLaser 100 is a low cost, lightweight underwater scaling, rangefinding, 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 setting as well.

The 5 mW low cost unit is recommended for close-up applications out to about 1-meter range, whereas the 7 mW high power 635 nm unit is good to 5-8 meters range. The shorter 635 nm wavelength penetrates water much better than does the near IR 670 nm low cost laser. The beam's sharp focus distance is a standard factory-set 1 meter.

An internal power regulation board allows operation to 24 volts DC and 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: 227 g laser only, 300 g with bracket
Weight in Water: 67 g laser only, 140 g with bracket
Other: Mounting bracket included

LASER

Type: Semi-conductor laser diode Class III-A (670 nm)
Semi-conductor laser diode Class III-B (635 nm)
Beam Diameter: 1.8 mm x 0.5 mm
Wavelength: 635 nm (7 mW) and 670 nm (5 mW)
Beam Divergence: 0.09 mRadians x 0.19 mRadians
Power: 5 mW (670 nm) and 7 mW (635 nm)
Beam Alignment: Beam runout 5 cm at 10 meters max.

ELECTRICAL

Voltage: 5-24 VDC
Connector: BH2M standard, others available

ENVIRONMENTAL

Depth: 2,000 meters (6,500 feet)

OTHER

Option: Beam focus distance



Specifications subject to change without notice

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