SIDUS Solutions

SS501 Scaling & Pointing Subsea Laser

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Manufacturer / system supplier: SIDUS Solutions

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Applies to the named models and revision only. Housing, interface and performance differences must follow the individual model tables. Source discrepancies are recorded on the ROVITEC product pages; request the approved specification before integration.

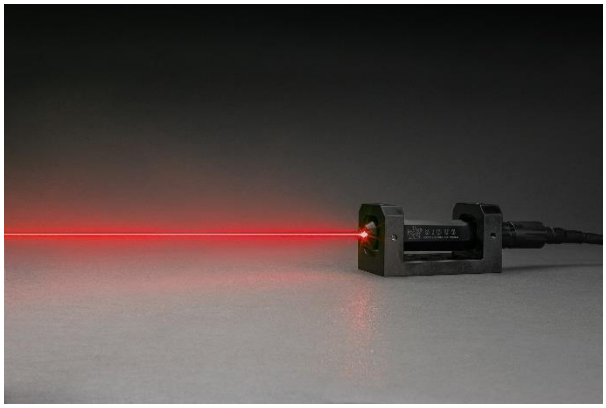
Original manufacturer source

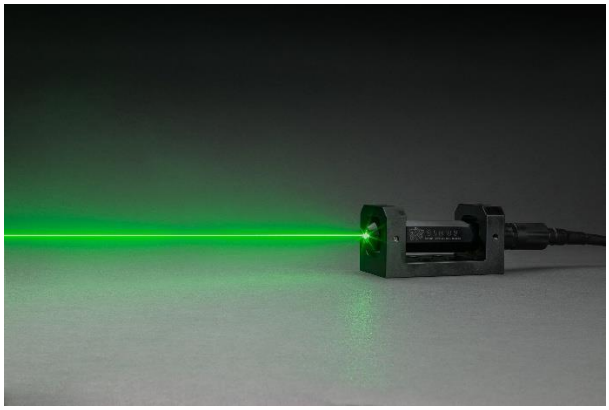
https://www.sidus-solutions.com/wp-content/uploads/2025/12/SS501-Subsea-Pointing-and-Scaling-Laser-Specifications-2025.pdf

Manufacturer pages follow unchanged. Local distribution copy.

SIDUS

SS501 Scaling & Pointing Subsea Laser Specifications





Sidus Solutions' SS501 is a deep water pointing and scaling laser that utilizes a powerful 532nm green or red laser.

Pairing two SS501 **subsea laser scanning** devices together in parallel separated by a known distance enables scaling of video and still images. Adding an additional SS501 at an intersecting beam angle enables measurement of object distance, useful for maintaining a constant object position. Optionally, the SS501 can be configured with a 45-degree line beam (in water), which is particularly useful for depth analysis.



With a rugged anodized aluminum housing, fused silica port and operating depth of 6000 meters, the SS501 is distinctively suited for deep water applications. Additionally, the SS501 features an integrated thermal management system for reliable operation in even the most extreme environments.

Other available options are customer selected connectors and input voltage options. Housing options are available to best suit the client's needs.

ELECTRICAL SPECIFICATIONS:

Power Output Options	
	50, 100mW (Class 3B)
Line Beam Angle	(Option) 45° (in water) (Option) 60° (in air)
Operating Voltage	12-24 VDC (600mA max)
Laser Lifetime	>5,000 hours
Connector	Customer selectable – 4 pin Seaconn MCBH-4P is standard, others available
Laser Mounting Bracket	Part # 903006302-01

ENVIRONMENTAL SPECIFICATIONS:

Operating Depth	6000m (20,000 feet)
Operating Temperature	10°C to + 40°C (+14°F to 104°F) operating in water use only
Storage Temperature	-20°C to + 50°C (-4°F to 122°F)
Housing Material	Hard Anodized Aluminum
Beam Diameter	1.5mm
Beam Divergence	<1.0 mRad
Wavelength	532nm

MECHANICAL SPECIFICATIONS:

Dimensions	
Diameter	1.15 inches [29.2mm]
Length	6.4 inches [162.6mm]
Weight	in Air 6.7 oz [190 grams] in Water 4.8 oz [136 grams]

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Pin Out

1. GND
2. 12 to 24 VDC
3. Spare
4. Spare
   Others available

Recommended Bracket: 903006302-01

