



## SS501 Green Laser



Sidus Solutions' SS501 is a deep water pointing and scaling device that utilizes a powerful 532nm green laser. This product outperforms other less powerful underwater laser devices. With several laser output choices ranging from 5mW to 100mW, the SS501 gives you the flexibility to select the power that is optimal for your application. Additionally the SS501 features an integrated thermal management system for reliable operation in even the most extreme environments. Optionally, the SS501 can be configured with a 45 degree line beam (in water), which is particularly useful for depth analysis.

Pairing two SS501 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. With a rugged anodized aluminum housing, fused silica port and operating depth of 6000 meters the SS501 is distinctively suited for deep water applications.

Sidus Solutions supplies complete turn-key inspection system equipment and services. Ask your representative today about other Sidus Solutions product offerings and services.

### Specifications

|                          |   |
|--------------------------|---|
| Length                   | 6.4 in (162.6 mm)                                   |
| Diameter                 | 1.15 in (29.2 mm)                                   |
| Weight                   | 6.7 oz in air (190g)<br>4.8 oz in water (136g)      |
| Housing                  | Hard anodized aluminum                              |
| Beam Diameter            | 1.5mm   |
| Beam Divergence          | <1.0 mRad   |
| Wavelength               | 532nm   |
| Output Power Options     | 5mW (Class 3R)<br>10, 20, 30, 50, 100mW (Class 3B)  |
| Line Beam Angle (Option) | 45° (in water), 60° (in air)                        |
| Operation Voltage        | 12-24 VDC (600mA max)                               |
| Laser Lifetime           | >5,000 hours  |
| Operating Depth          | 6000 meters (20,000 feet)                           |
| Operating Temperature    | -10° ~ +40° C (in water use only)<br>(14° – 104° F) |
| Storage Temperature      | -20° ~ +50° C<br>(-4° – 122° F)                     |

Standard Connector: Seacon MCBH-4P  
Pinout: 1 - GND, 2 - 12 to 24VDC  
3 - Spare, 4 - Spare  
(Others available upon request)

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Design and Specifications are subject to change.