

Engineered Tooling Solutions *FAST*



The ULS-500 Subsea Laser Scanner is a long-range measurement system that is ideal for capturing high-detail measurements in subsea areas spanning from 1m to over 10m, in ideal conditions. The system is designed for inspection of 0° shore jackets, inland dam and bridges, pipeline surveys and ovality measurements. The laser scanner produces very high-detail measurements, capable of resolving measurements of less than 1mm and can be easily deployed by ROV, AUV or diver.

ULS-500 can be easily operated, using the 2G Robotics ULScanSoft CAD package, to collect and process the underwater point cloud data. Measurements can be taken directly from the point clouds, and the point clouds can be saved to .xyz files, which are commonly used file formats for point cloud data.

The point clouds can be imported into almost any CAD for advanced data analysis and overlay comparison. An API is also available for command and data collection through your own software program. The unit can be mounted on a rotary actuated tripod and placed on the seabed or mounted on an ROV and integrated to the ROV system.

Features:

- Ambient light filtration
- Hundreds of times higher resolution than sonar
- Modular design
- Algorithms to deal with silt in the water
- ROV AUV & diver deployable
- .xyz, LAS & CSV formats

Specifications:

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| • Dimensions | 267L x848Hmm |
| • Weight in Seawater | 20.5kg |
| • Scan Range | 1m (Min) <5m (Ideal)
Can exceed 10m |
| • Vertical Laser Alignment | 50° |
| • Vertical Resolution | 0.0072° |
| • Rotational Range | 360 ° |
| • Laser Foot Print | 3mm |
| • Power | 12-76Vdc 150W |
| • Data Interface | 10/100Mbit Ethernet |
| • Depth Rating | 350msw |

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