

TECHNICAL SPECIFICATION

ULS-100 Short Range Underwater Laser Scanner

Stork has introduced the ULS-100 Short Range Underwater Laser Scanner to further develop its capabilities in providing high quality data on heavily pitted areas within internal tubulars. The ULS-100 accurately scans the surface profile to identify damaged areas and size defects. The ULS-100 can also provide additional data within the dry sections which currently relies on remote visual inspection.

Stork's ULS-100 Underwater Laser Scanner is a short-range measurement system that is ideal for capturing high-detail measurements in areas spanning 10cm to 1m. The system is designed for internal pipe inspection, pipeline ovality and defect measurements where the scanner can be placed within close range of the target.

Stork's ULS-100 Underwater Laser Scanner produces very high detailed measurements capable of determining defects of less than 1mm and can be easily deployed on our in-house centraliser range. Stork's Laser Scanner is not limited only to the internals of a caisson; the technology can also be utilised topside for scanning pipe dents or damage to structural members on a platform.



Benefits:

- Hundreds of times higher resolution than sonar
- Constructed of lightweight materials
- Compact design
- Low energy consumption
- 360° capabilities
- Low bandwidth needs with specifically designed algorithms to deal with silt in the water
- The Stork 360° ULS-100 Underwater Laser Scanner is currently one of only seventeen operational scanners in the world

Applications of the ULS-100:

- Offshore oil asset damage assessment
- Internal pipe inspection
- Mooring chain
- Nuclear inspection
- Underwater pipeline ovality measurements
- Concrete piling measurements
- Ship hull inspections / ship propeller inspections
- Underwater archaeology and marine biology