

Subsea Acoustic Imaging - All In one Solution

The Subsea Acoustic Cam is a Patented High Resolution Ultrasonic Imaging System, Engineered & Adapted by Subsea 7 for the Subsea Oil, Gas & Renewables market. The revolutionary inspection concept was originally developed for the Aerospace industry.

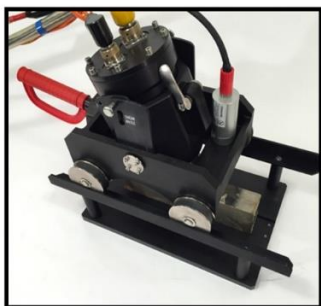
Before developing this unique inspection tool, Subsea7 listened to the needs & requirements of it's clients in order to address the major shortfalls in the Asset integrity management sector.

Major factors such as Real time data & Rapid reporting on critical inspections was a fundamental requirement.

Other issues concerned Qualitative & Quantitative data, as client found that certain inspection packages cost a fortune to deploy, but yet the data was low in quality and non-conclusive.



Non-Contact Inspection 25mm Water Stand-off



Techniques

Corrosion Mapping
Through Transmission
45-Deg Shear - Weld
60-Deg Shear - Weld
70-Deg Shear - Weld
Flooded Member Detection
Time of Flight Diffraction (TOFD)
Surface Mapping
Ovality

Specifications

Array: 14 400 Pixels
Capture: 30 FPS
Speed: 100mm/sec
Source: Multi Element
Focus: Automated Lens
Remote Control Ops.
300m Rated
Diver/ROV Operated
Modular Design



Patented High Resolution Imaging Array

Materials up to 50mm

Composites
Steel
Stainless Steel
Aluminium,
Titanium,
Magnesium
Ceramics
Polymers

Inspection Data:

C-Scan
A-Scan
B-Scan
Shear Data

Instand Report
Off-line Reporting
Auto Defect Detection
ProjectSummary



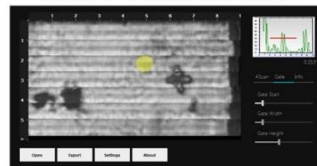
Simultaneous C-Scan & A-Scan data collection at 100mm/sec

Sizing & depth measurements can be taken directly from C-Scan data.

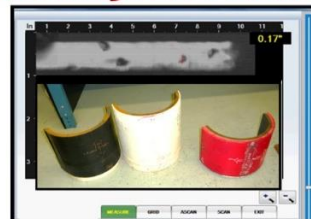
Depth Sensitivity = 0.1mm

Sizing Sensitivity: Sub 1mm (Material Dependant)

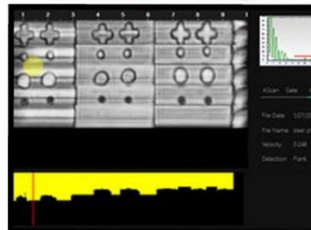
Real Time Data



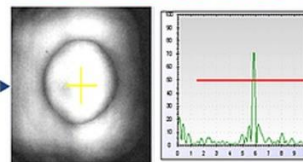
Coatings & Insulation



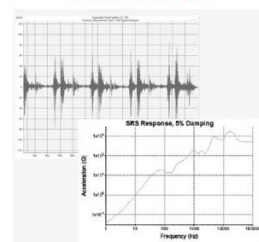
Off-line Analysis



Auto-Calibration



SG Test



Inspection Service Package:
Inspection, Repairs & Maintenance Programs
Asset Integrity Management Service
Life Extension Programs
Fitness fore Service Assessments
Inspection & Integrity Data Management

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