STR

SUBSEA TECHNOLOGY & RENTALS

STR SEAGAMMA FLOODED MEMBER DETECTION

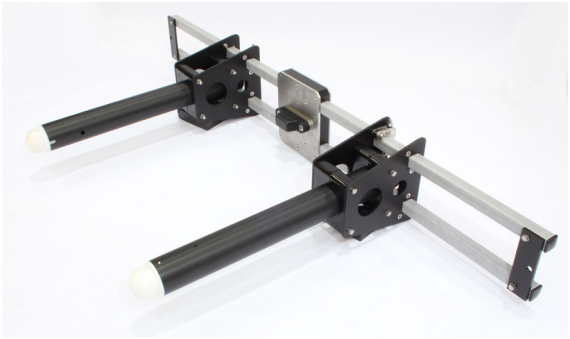
The STR SeaGamma FMD system has been designed as a modern inspection tool to reliably determine if a subsea structure with normally sealed watertight members has sustained water ingress as a result of corrosion, weld failure or damage.

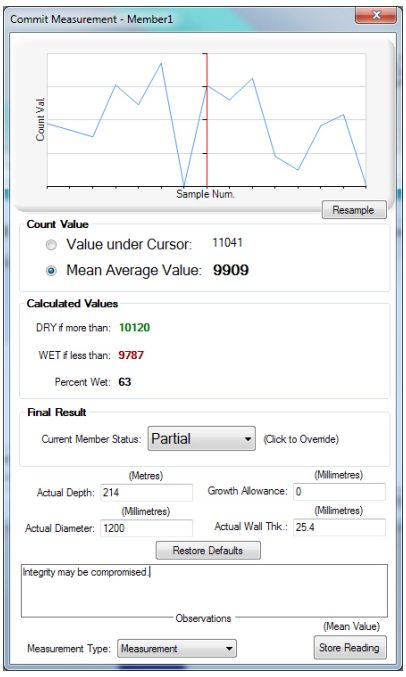
The system is based on the use of low level collimated Gamma radiation enabling reliable operation without the need to clean away marine growth build-up from the members prior to survey, meaning the results are fast and reliable.

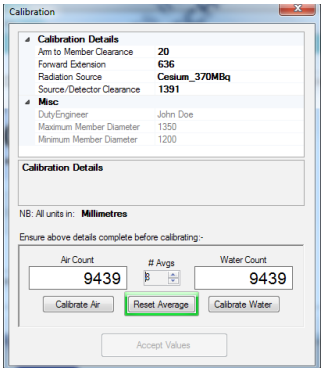
Two system types are available:

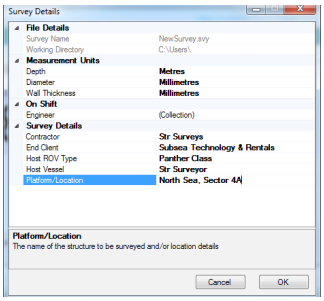
- **SeaGamma Standard System** – designed to work from small inspection and light work class Remotely Operated Vehicles, capable of covering member sizes up to 2 metres in diameter.

- **SeaGamma Ultra System** – designed for deployment from Work Class ROVs, capable of covering member sizes up to 3 metres in diameter.









KEY FEATURES

- Mechanically robust detector and source arms
- Adjustable frame with rotator option
- Advanced acquisition and reporting software
- Continuous sampling and fast results
- Marine growth removal unnecessary
- Custom designed Tungsten collimator for improved safety
- High sensitivity detector capable of greater than 1 million counts per second

E: sales@str-subsea.com W: www.str-subsea.com T: +44 (0)845 388 6383

STR SEAGAMMA FLOODED MEMBER DETECTION

STR SeaGamma Frame

Construction: Stainless Steel, Aluminium, GRP & Acetal
Fittings: Stainless Steel
Max Member Diameter: 2000mm
Mounting: ROV skid/belly mount, rotator, manipulator
Weight in Air / Water: 13Kg / 7.4Kg
Adjustment: Manual pre-deployment configuration 260mm to 2100mm source-detector separation
Safety Features: Safety retention lanyard (Source & Detector retained to ROV)

STR SeaGamma 370MBq Collimated Source

Nuclide Type: Caesium 137 (Cs-137)
Enclosure: Double encapsulated source protected in a Tungsten collimator
Source Strength: 370MBq
Mounting: Installed within frame arms
Safety Features: Narrow beam, thick wall collimator to reduce unwanted gamma exposure. Polarised mounting points to prohibit incorrect assembly and mounting

STR SeaGamma 370MBq Detector

Detector Type: Scintillator Gamma Radiation Detector
Sensitivity: Typical 1MCPS @ minimum frame separation
Input Supply Voltage: 19 to 70V DC
Input Supply Power: 2W Typical 5W Max
Depth Rating: 500m operational
Operating Temperature: 0ºC to 45ºC
Housing Material: Acetal plastic
Connector: Subconn MCBH8M
Dimensions: 400mm L x 63mm Dia.
Communications: RS232 & RS485
Circuit Protection: Reverse polarity protection, under-voltage lockout, over-voltage protection

STR SeaGamma Topside Acquisition System

- Simple survey setup using Import Wizard
- Unique “traffic light” video overlay giving clear representation of member integrity
- Continuous sampling prevents missed measurements
- On-the-fly processing and comprehensive reporting features

Typical PC Specification: 14” Display, Intel i5 CPU, 4GB RAM, 300GB HDD, Windows 7 64 Bit, LAN, WIFI
Software: STR SeaGamma Logger, Acronis Image Recovery & Backup
Serial Interface: 4 port configurable RS232/485 USB adaptor

STR SeaGamma Remote Display

Hand held display for use on deck to monitor count value prior to ROV deployment

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