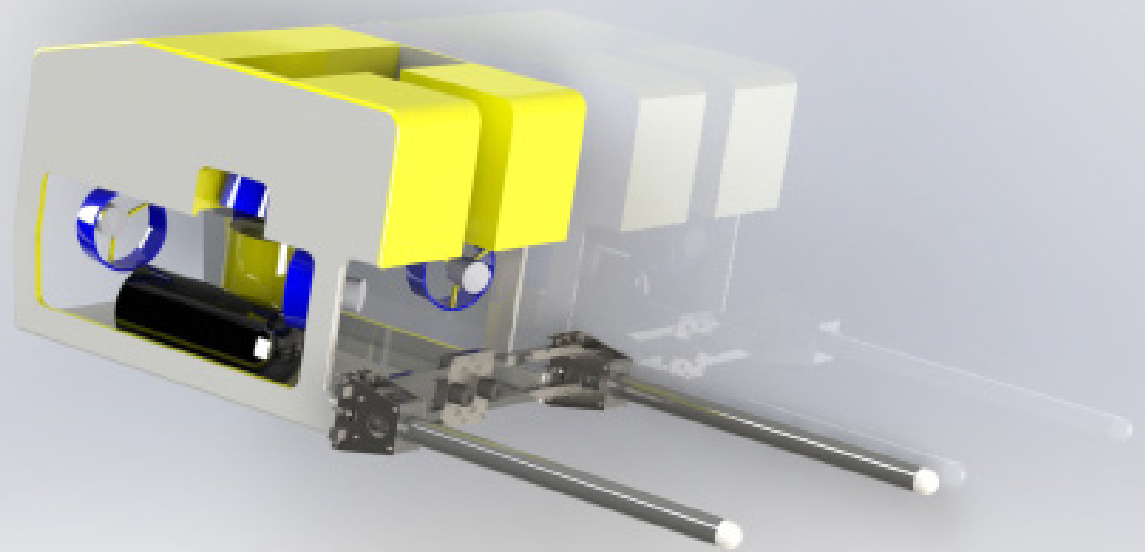


STR

Subsea Technology & Rentals Ltd

SeaGamma Flooded Member Detection



SeaGamma FMD



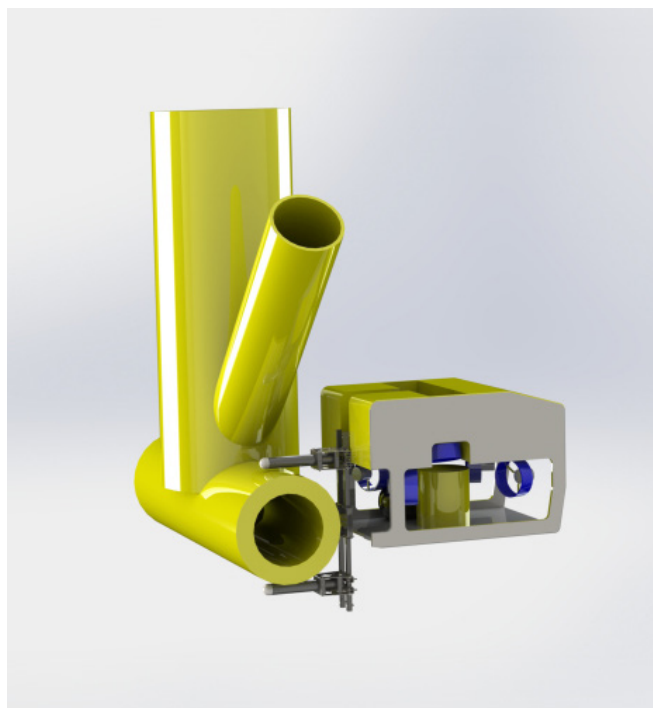
ABOUT

Gamma Flooded Member Detection has long been the method of choice for the inspection and monitoring of subsea structural members for the detection of water ingress.

FMD inspection technique can also be applied to locating blockages in pipelines as a result of pigging or silt build up.

As a result, FMD has proven to be a cost efficient technique, simplistic in its approach and dynamic in its results.

With climate change warming our coastal waters, progressive marine growth means traditional methods of NDT inspection can be costly and inefficient. SeaGamma FMD requires no marine growth removal to deliver results.



As a result, FMD has proven to be a cost efficient technique, simplistic in its approach and dynamic in its results

THE CONCEPT

SeaGamma system utilises a small gamma radiation source, Caesium 137 installed directly opposite a scintillation detector on a host ROV deployment frame which is positioned over the component to be inspected. Our deployment frame can easily be configured for horizontal and vertical components of different sizes.

All as built data i.e. member diameter, wall thickness and orientation is logged into the STR reporting software prior to survey. The components are then grouped in sizes relative to the frame configuration to generate an efficient inspection programme.

Calibration of air and water counts taken prior to each dive are entered into the SeaGamma software which then provides the operator a predicted dry or flooded status.

The operator will be given an unambiguous diagnosis of each component, which is automatically logged in the software for post inspection reporting. Any anomalies found are discovered real-time, with a detailed report supplied post survey.

SeaGamma FMD

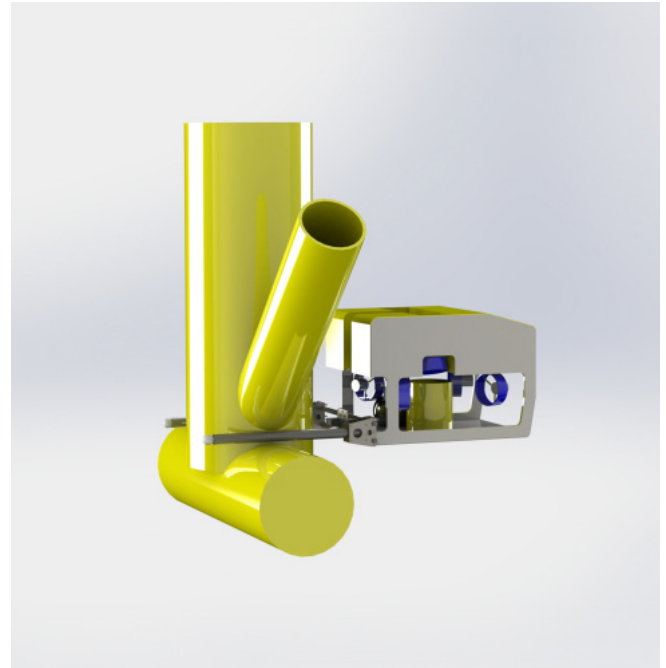


METHOD

The deployment frame should be radial to the component and as low as operationally possible to vertical and vertical diagonal members.

An adjustable frame is attached to a host vehicle, using a supplied installation skid. Alternatively, a ROV mounted rotator can be utilised. The rotator offers more flexibility and efficiency, resulting in a reduction in ROV recovery time for frame adjustments. This will also minimise the dangers of radiation exposure to personnel on deck.

System power consumption is low, requiring a nominal 24 VDC from the host vehicle. A range of standard communication protocols are supported for telemetry.



**Our team of professionals
carry substantial
experience in this
vitaly important field of
inspection**



WE OFFER

SeaGamma FMD standard system is designed to survey components up to 2m diameter from an inspection or work class ROV.

Our system comprises:-

- PC complete with advanced acquisition and processing software
- Radioactive source mounting frame for host ROV
- Fully certified gamma sources, documented in accordance with current regulations
- Comprehensive field spares kit
- 500m depth rating (other options available)
- Certified operators with substantial industry experience
- Detailed survey reporting
- SeaGamma ultra system for inspection of large components



STR

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SeaGamma FMD