WELAPTEGA
an Ashtead Technology company

Welaptega SAMIR

Semi-Autonomous Mooring Inspection Robot

SAMIR combines visual inspection, photogrammetric measurement and Magnetic Flux Leakage (MFL) technology to assess the in-service condition of sheathed and unsheathed wire moorings lines.

SAMIR is deployed to the wire by ROV and is self-propelled using integrated electric drive wheels. Inspection data and tool telemetry are transmitted to the topside data recording and processing system which can then provide results in real-time.

Applications

UWILD wire rope inspection (external + internal)
Class survey wire rope inspection (external + internal)
Wire rope diameter measurements

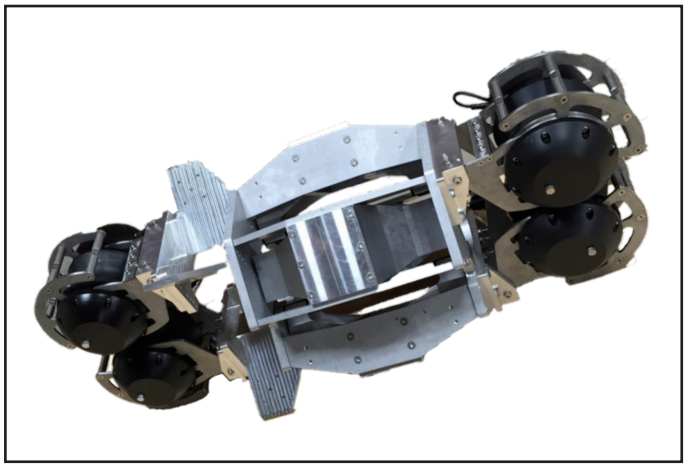
Features

Internal, quantifiable wire rope inspection using advanced magnetic NDT
Provides 360 degree close visual inspection of the exterior condition
Provides objective quantitative inspection of internal defects that cannot be seen by visual inspection alone
Inspect without impact to production
Measures inclination and depth location of anomalies
Designed in consultation with rope manufacturers

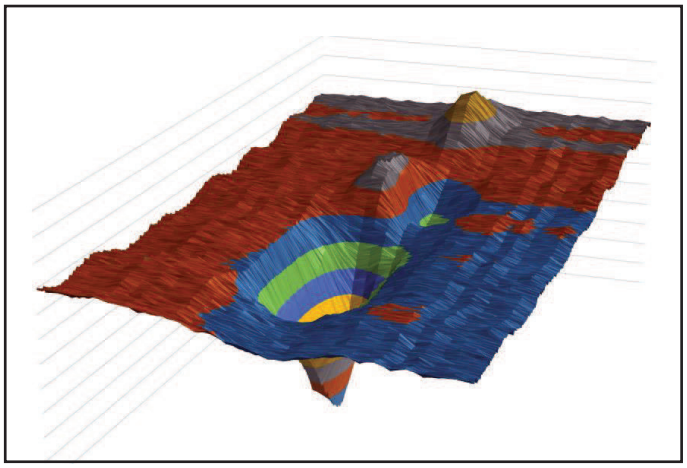
Welaptega SAMIR
Specifications

WELAPTEGA
an **Ashtead Technology** company

System components	Composite frame Buoyancy to reduce in-water weight Fail-safe design ensures ROV and tool are always retrievable Topside fibre optic data transmission and analysis system
Deployment requirements	Work-class ROV Four video lines Hydraulic supply 3000psi working pressure Dedicated single-mode fiber 120 AC 10 amps power supply



SAMIR without buoyancy



Sample data output showing two peak and valley patterns
Representing two Broken wires in close proximity

Aberdeen
+44 (0)1224 771888

Abu Dhabi
+971 2 650 7710

Halifax
+1 902 422 8303

Houston
+1 281 398 9533

Singapore
+65 6545 9350