

# OCEANSENSE™

## Underwater leak detection system

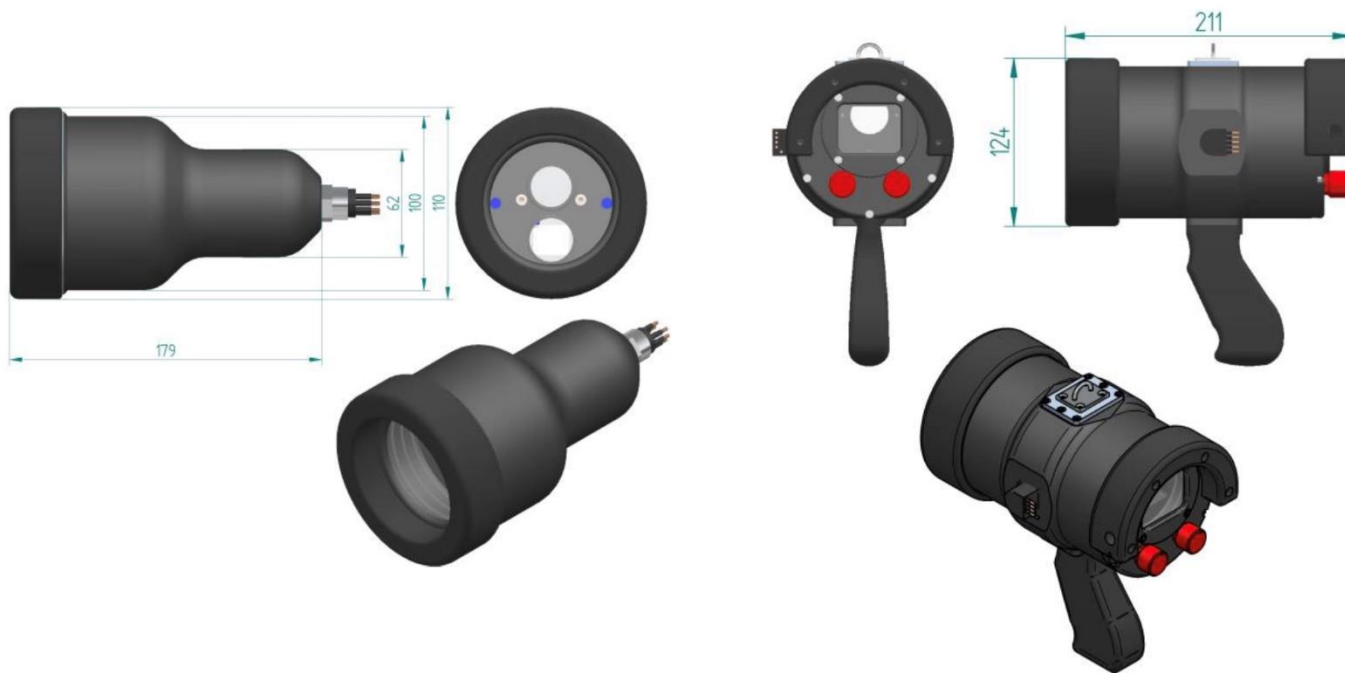


The industry standard OTAQ OceanSENSE™ Leak & Cement Detection System has been field proven on hundreds of offshore jobs in the harshest of environments achieving a detection success rate of close to 100%.

With the dual applications of detecting leaks from subsea oil and gas infrastructure and confirming cement returns during subsea cementing operations, OceanSENSE™ is proven to reduce vessel time and save money.

OceanSENSE™ emits high intensity light at a wavelength specific to the fluorescing dye under detection. The agitated dye emits light at a different wavelength which is detected by OceanSENSE™. The system multiplies this light many thousands of times before analysis and presentation of the data. OceanSENSE™ has a detection capability approximately 50 times that of the human eye and conventional 'black-light' detection system.

Technology	High sensitivity fluorosensor that detects minute amounts of fluorescing dyes in water, generating software based results.
Market	Offshore Oil & Gas; Construction & Commissioning, Production & Decommissioning
Applications	<ul style="list-style-type: none"><li>• Leak Detection; locating leaks in hydraulic control systems, flowlines, risers and subsea Infrastructure</li><li>• Commissioning; confirms structural integrity of spool tie ins and subsea structures.</li><li>• Cement Detection; confirming cement returns at seafloor when forming new wells.</li><li>• Decommissioning; cement returns during plug and abandonment.</li></ul>
Detects	<ul style="list-style-type: none"><li>• Fluorescing trace dyes including Roemex RX-9022 and B275</li><li>• Hydraulic fluids including Transaqua HT2, Pelagic 100 &amp; 100 Pink</li><li>• UV Dyes including Roemex RX-9026E and Champion Clear Dye</li><li>• Dye Sticks such as Roemex RX-9034A</li><li>• Hydrotest cocktail fluids such as Roemex RX-5255</li><li>• Hydrocarbons</li><li>• Please contact us for a full list of detectable dyes</li></ul>
Notes	<ul style="list-style-type: none"><li>• Deployed globally on over 1000 projects for over 50,000 days with near 100% success rate</li><li>• Detects presence of dye far below industry standard dye concentration level</li><li>• Advanced technology removes human judgement enabling repeatability of results</li><li>• Protects the environment and reduces offshore operational costs</li><li>• Classed as a 'bright light' system, ROV's lights do not have to be turned off during detection making the whole operation significantly safer</li></ul>



OceanSENSE ROV

OceanSENSE Diver

Model	OceanSENSE ROV 3K	OceanSENSE ROV 6k	OceanSENSE Diver
Max detect range	Up to 15 m		
Material	Anodised aluminium	Titanium	Anodised aluminium
Depth rating	3000 m	6000 m	200 m
Weight in air/water	1.9 kg/0.97 kg	3.8 kg/2.7 kg	3.5 kg /1.8 kg
Voltage	18-32 VDC		24vDC from supplied battery pack (approx. 10 hours)
Power requirements	500mA @24vDC		
Data	RS232 / RS485		n/a
Connector	MCBH8M wet mate		n/a
Interface	Oceansense App supplied on fully configured laptop		On board display
Part no	OS-200100	OS-200105	OS-200110