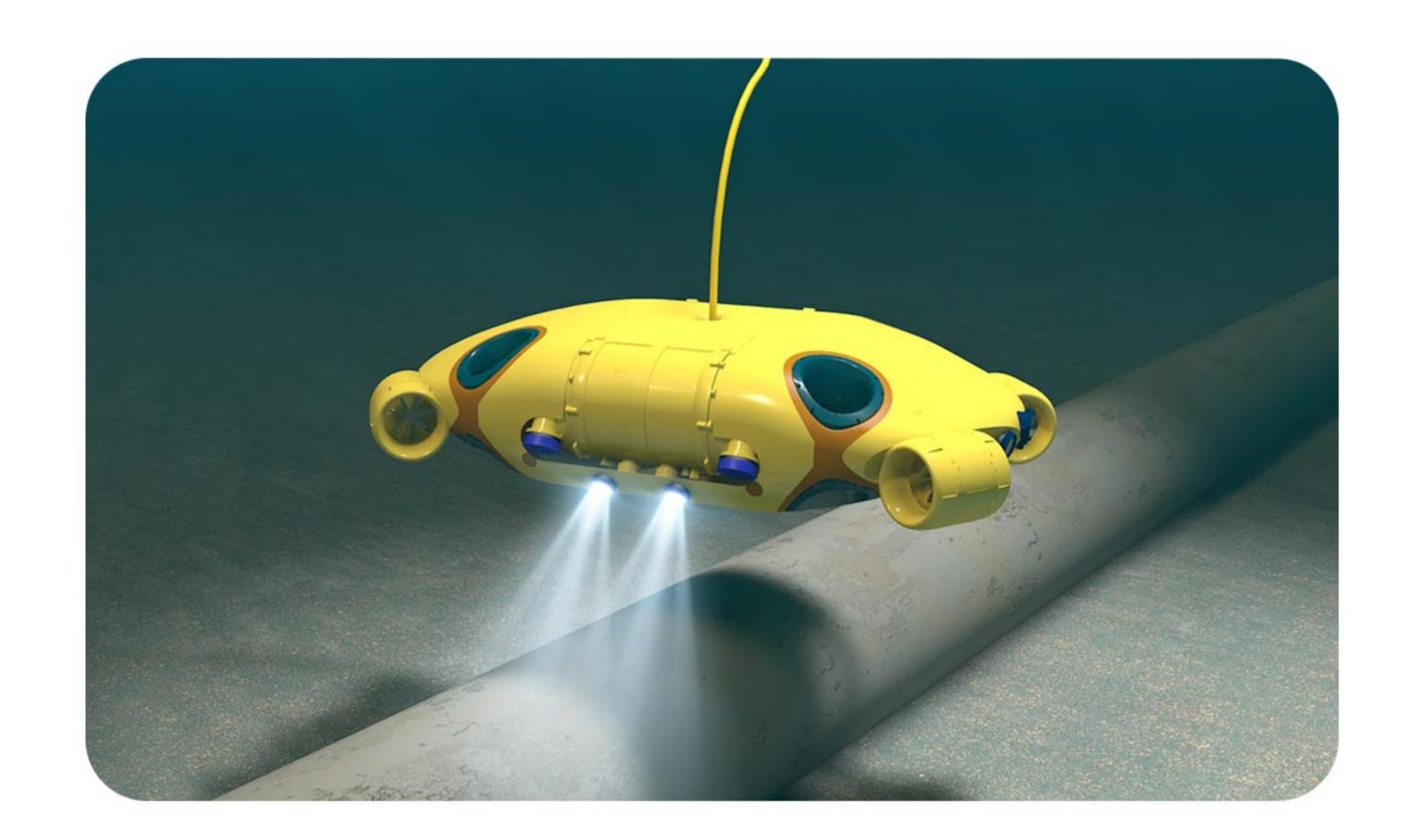


OVERVIEW

Our in-house developed **ProSpector**® is powerful and flexible to perform a range of pipeline and cable inspection tasks underwater. Smaller in comparison to larger more traditional Inspection ROV's, yet with a better operational capability

It has the advantage of built-in MCS Photo Realistic 3D Cloud (PRC) technology for highly accurate subsea measurements.



OUR APPROACH

The ProSpector® ROV is tailor-designed to be integrated and deployed from MCS Ocean Aurora remote survey vessel (RSV). Additionally, it can also be operated conventionally on board a small vessel, platform, rig, or barge, offering a versatile solution for assessing the integrity of pipelines and cables as well as light intervention operations with 2x 5-function manipulators.

The prospector can operate up to 300m water depth from our Ocean Aurora RSV and conventional crewed operations.

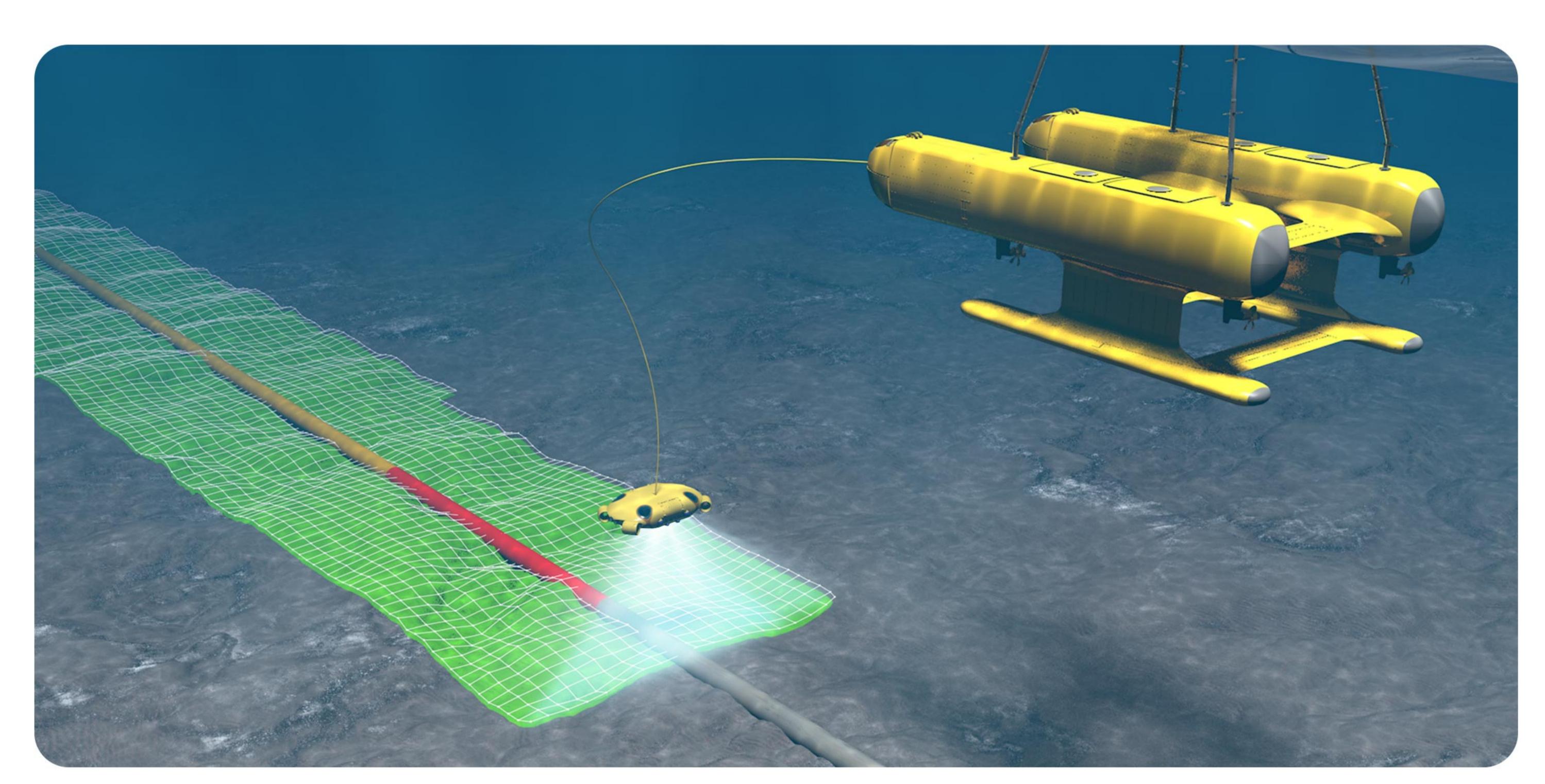
FEATURES AND CAPABILITIES

- Optimised hydrodynamic shell.
- Withstands up to 5 knots current.
- Payload Up To 40 Kg.
- Umbilical fiber optic.
- Embedded PRC system.
- 6 D.O.F Maneuverability.
- Hub-less thrusters.

- 360° camera view.
- Auto depth control.
- Auto heading control.
- Pitch hold and Roll hold controls.
- Position hold control.
- Embedded Cathodic Protection System.

BENEFITS

- Reduce carbon footprint by eliminating or reducing the need for offshore ROV vessels.
- High levels of accuracy and 3D PRC technology gathers precise information for planning, construction, and maintenance.
- Reduce costs by performing from a platform or smaller vessel with reduced personnel.

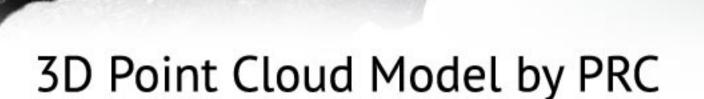


Ocean Aurora RSV and ProSpector® ROV conduct a comprehensive survey to determine the depth of burial in pipeline inspections

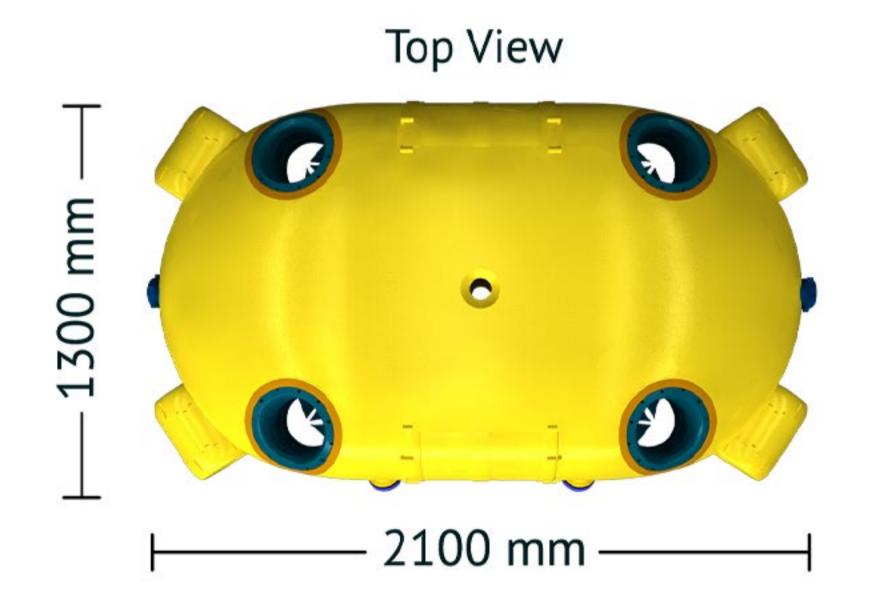
ProSpector® provides a level of inspection data leading to in depth integrity assessment and lifetime extension of existing assets such as: Producing design drawings for subsea structures up to fabrication accuracy and creating as-built models of its current condition.

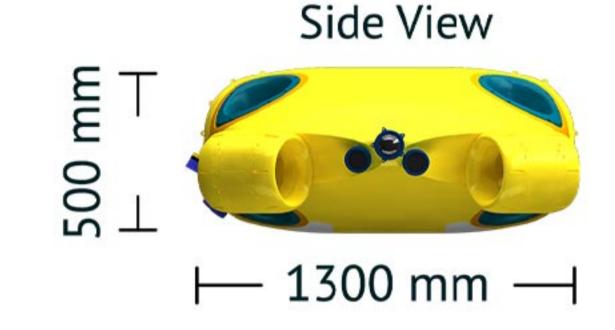
It uses a platform approach to gather precise 3D reference for dimensions and features including position and orientation for all future construction

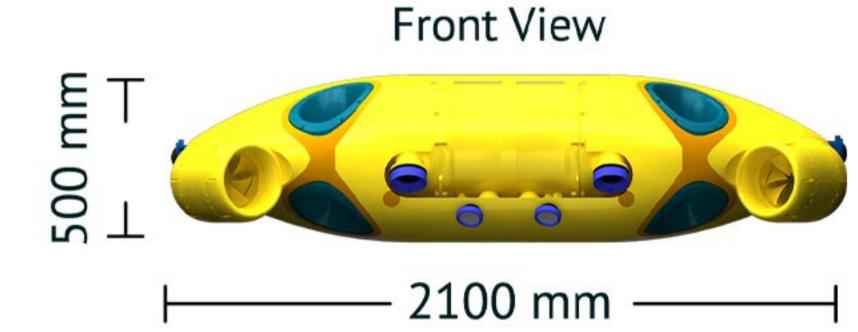
and maintenance.



Prospector 3D scanning







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Ve	h	IC	le	di	me	nsi	on	S

vernete annensions	
Length	2100 mm
Height	500 mm
Width	1300 mm
Launch Weight	450 kg
Payload	40 kg
Depth	
Depth	300 msw
Power	
Propulsion	70 KW
Forward Speed	5 knots
Lateral Speed	4 knots
Power Source	Three phase - 380 VAC

Thrusters

Maneuverability

- 4 Horizontal vectored RIM thrusters
- 4 Vertical RIM thrusters

Forward Thrust	200 kgf
Lateral Thrust	280 kgf
Vertical Thrust	160 kgf

6 D.O. F

Sensors and Tooling

- 2x 5-Function Manipulator
- Cathodic Protection Probe
- Ultrasonic Thickness Reading (UT)
- Flooded member detection
- Super Seaking Bathymetric / DFP

Camera

Camera 1	1x colored FHD PAN/Tilt/Zoom camera		
Camera 2	360° fixed array of cameras		
Camera 3	4x HD Cameras (Extendable)		
3D Image Scan Precise Subsea Measurements	 2x Embedded Cameras MCS (PRC MCS Computer Vision 		
Lights	- 8x Distributed LED light system		

Auto Function

- Auto heading, auto depth, pitch hold and roll hold
- Position hold control
- High accuracy depth sensor 0.05% FS
- Advanced AHRS providing Heading, Pitch & Roll
- Advanced INS with magnetic disturbance rejection
- Compact DVL with 1% accuracy

Redundant

- 2x Fiber Optic Cables for redundancy
- Spare serial communication channels
- Spare Ethernet communication channels

Conventional Operations

- ProSpector On-Deck Station
- Tether Management System

Latching Mechanism

Up to 1500Kg capacity





mcsoil.com

3D Blue View sonar

Brush Cleaning Tool

2D Imaging Sonar

Pipe Tracker