



Solus-LR Autonomous Underwater Vehicle

CELLULA ROBOTICS LTD.

KEY FEATURES

LONGEST-ENDURANCE AUV / POWERED BY CLEAN TECHNOLOGY /
IHO COMPLIANT



Solus-LR

Autonomous Underwater Vehicle

Solus-LR is a long-range hydrogen fuel cell powered AUV with an operational range greater than 2000 km. Designed for port-to-port missions, Solus-LR provides a persistent subsea capability supporting ASW, ISR & MCM missions in addition to traditional subsea survey and inspection.

Payloads & Systems

Your choice of standard payloads:

- VLF towed array
- Suction anchor
- MBES, SAS, SSS/SBP
- Camera & laser
- OFG Self Compensating Magnetometer
- CTD, pH, CO₂ and other chemical sensors
- Variable buoyancy system

Applications

- Port-to-port missions
- Anti-submarine warfare
- Intelligence, surveillance, and reconnaissance
- Mine countermeasures
- Geophysical survey & pipeline inspection
- Offshore renewables
- Deployment of surveillance payloads

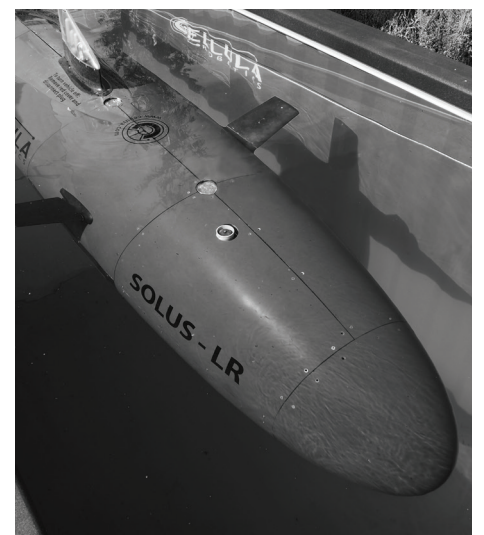


Standard Configuration Specifications

AUV SPECIFICATIONS	OPTIONAL FEATURES
<ul style="list-style-type: none"> • Depth Rating: 3000 m • Range: 2000 km • Speed: 2 m/s (4 kts) • Length: 8.5 m • Diameter: 1 m • Weight: 3700 kg • Max Ascent/Descent Angle: 45° • Terrain Following: At altitudes > 3.5 m 	<ul style="list-style-type: none"> • Comprehensive support package: including spares, support equipment, software, training, and post-processing. • Belly pack • Pop-up buoy • LARS
ENDURANCE/ENERGY	SOFTWARE & DATA HANDLING
<ul style="list-style-type: none"> • Endurance: 360 hrs at 1.5 m/s (3 kts) • 250 kWh hydrogen fuel cell • 12 hour refuel and turnaround time 	<ul style="list-style-type: none"> • Mission planning tool • Performance analysis tool • Backseat driver • Option for on-shore piloting
NAVIGATION	COMMUNICATION
<ul style="list-style-type: none"> • INS/DVL: Sonardyne SprintNav 300, 500, 700 • Navigation Accuracy: 0.04%, 0.02%, 0.01% • OAS: Imagenex Delta-T • GNSS system 	<ul style="list-style-type: none"> • Acoustic Communication: Sonardyne AvTrak 6 • Surface Communication: 2.4 GHz radio • Satellite Communication: Iridium • Acoustic Positioning: Sonardyne Ranger 2

Benefits

- ✓ **Longest-endurance AUV.** Solus-LR's novel suction anchor and fuel cell enables Solus-LR to hold station at a surveillance location in a low-power state for multiple months.
- ✓ **Powered by clean technology.** The fuel cell is powered by hydrogen: a high-efficiency green fuel. The vehicle can operate without a fully manned surface vessel, reducing your carbon footprint and ensuring your operations are environmentally sustainable.
- ✓ **IHO compliant.** Solus-LR is compliant with IHO standards for hydrographic surveys.



All vehicles customizable upon request.



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