

KEY FEATURES



Solus-MR

Autonomous Underwater Vehicle

Solus-MR is Cellula's standard work-class AUV for those requiring multi-day missions. A highly customizable platform, Solus-MR can be configured with different payloads as missions demand to optimize your operations.

Payloads & Systems

Your choice of standard payloads:

- MBES, SAS, SSS/SBP
- · Camera & laser
- OFG Self Compensating Magnetometer
- CTD, pH, CO, and other chemical sensors
- Variable buoyancy system
- Towed arrays

Applications

- Hydrographic survey
- · Offshore renewables
- Marine research
- Mine countermeasures
- Pipeline inspection
- Wide area search & survey



Standard Configuration Specifications

AUV SPECIFICATIONS

- Depth Rating: 1000, 3000, or 6000 m
- Range: 600 km
- Speed: 2 m/s (4 kts)
- Length: 7.3 m
- Diameter: 1 m
- Weight: 2400 kg
- Max Ascent/Descent Angle: 45°
- Terrain Following: At altitudes > 3.5 m

OPTIONAL FEATURES

- Comprehensive support package: spares, support equipment, software, training, and post-processing.
- Belly pack
- Payload deployment
- Suction anchor
- Pop-up buoy
- LARS

Benefits

- ✓ Customizable payloads. Payloads and sensors can be included as your missions demand, including your company's currently-owned sensors.
- ✓ Multi-day mission capabilities. Solus-MR is capable of 4 days bottom time with all payloads activated.
- ✓ **IHO compliant.** Solus-MR is compliant with IHO standards for hydrographic surveys.

ENDURANCE/ENERGY

- Endurance: 115 hrs at 1.5 m/s (3 kts)
- 80 kWh pressure tolerant lithium ion batteries (swappable)
- 8 hour charge time

NAVIGATION

• Can be easily upgraded to Solus-LR for higher endurance

SOFTWARE & DATA HANDLING

- Mission planning tool
- · Performance analysis tool
- Backseat driver
- Removable data pod
- · Option for on-shore piloting

COMMUNICATION

- INS/DVL: Sonardyne SprintNav 300, 500, 700
- Navigation Accuracy: 0.04%, 0.02%, 0.01%
- OAS: Imagenex Delta-T
- GNSS System

- Acoustic Communication: Sonardyne AvTrak 6
- Surface Communication: 2.4 GHz radio
- Satellite Communication: Iridium
- Acoustic Positioning: Sonardyne Ranger 2



All vehicles customizable upon request.

