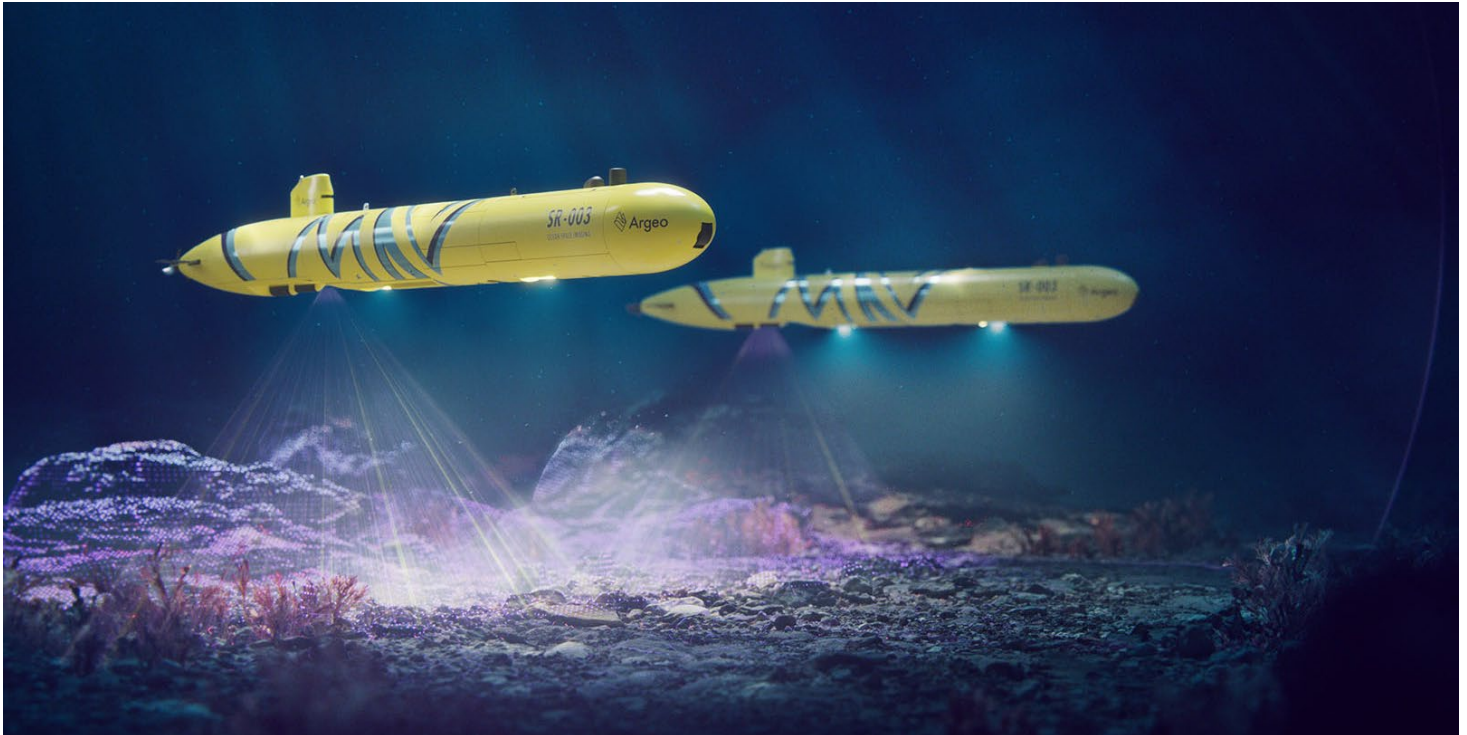


Autonomous Underwater Vehicle

SEARAPTOR 6000



High performance, deep rated AUV

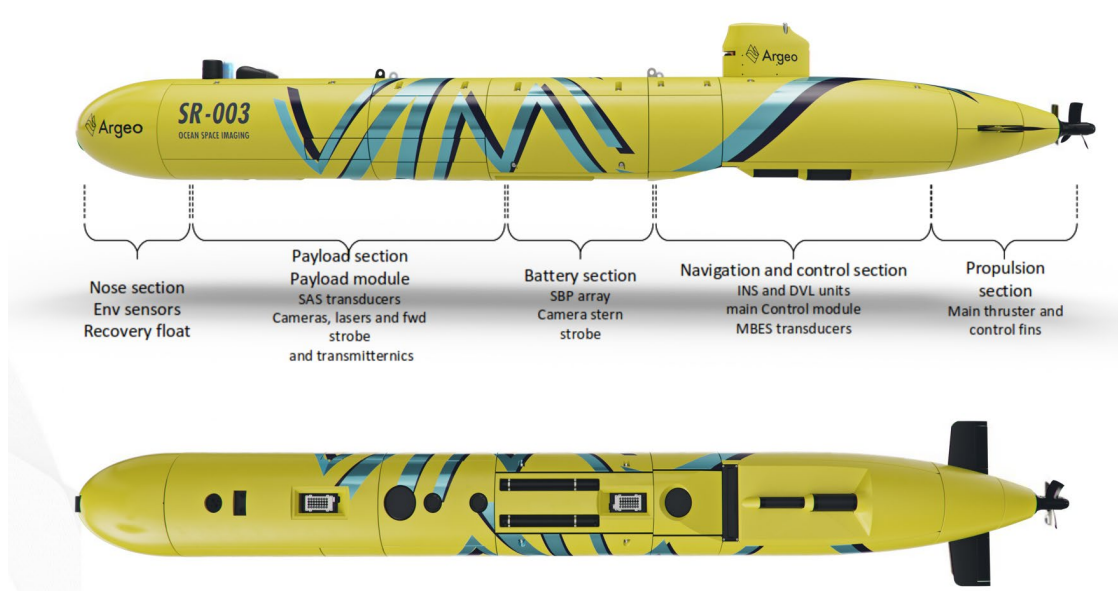
The SeaRaptor 6000 is a survey grade deep water autonomous underwater vehicle (AUV) designed to operate at abyssal depths. A wide range of sensors allow the SeaRaptor 6000 to complete several types of missions including broad area search with Synthetic Aperture Sonar, hydrographic survey with Multibeam and Sub Bottom Profiler, and high-resolution inspection survey with camera and acoustic sonar. These surveys support a variety of applications, such as inspection, search & recovery, salvage, exploration, construction support, marine archaeology, and oceanography

Key features

- Depth rated to 6,000m
- Modular payload ports
- Estimated endurance: > 50 hrs. @ nominal speed

Key benefits

- Wide range of available sensor integrations
- Custom sensor integration possible
- State of the art navigation sensors and acoustic aiding



Safety and communication sensors

Collision avoidance sonar	Blueview MB450
Acoustic communication	Sonardyne AvTrack 6
Underwater locator	RJE ULB-362-B
Emergency release	Benthos acoustics
Surface communication	RF, Iridium and WLAN

Navigation and environmental sensors

INS	IXblue phins 6000 (0.01% Distance Travel)
DVL	RDI Tasman DVL (300 kHz w/ADCP)
CDT	Valeport uxSVP
Environmental pack	RBR Maestro (CDT, Oxygen, Methane, pH, Turbidity, Redux)

Payload sensors

Multibeam	Teledyne Reson T50 DF (200/400)
Sub-Bottom Profiler	Benthos Chirp III
Synthetic Aperture Sonar	Kraken minSAS 120 w/Real-Time onb. proc
Camera and Laser	CathX Hunter twin laser UHD
Cathodic Protection Inspection	Argeo Robotics EM Tool pack
Onboard data processing	Caris Onboard and EIVA

- RBR maestro
 - CTD
 - Oxygen
 - Methane
 - pH
 - Turbidity
 - Redux
- Valeport uxSVP
 - Pressure (depth)
 - Sound velocity
 - Temperature
- OFG magnetometer
 - 3 axis magnetic field measurement



Depth rating, speed and power

Depth Rating	6000 m
Useful Speed	2.5-4.5 knots
Operating Speed	3-4 knots

Weight and dimensions

Length	6.8 m
Weight	1600 kg
Diameter:	0,665 m

Required utilities

Power requirement (vehicle container)	400V/63A 3-phase
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Container information

Vehicle container	Standard 40ft ISO container
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SeaRaptor AUV 6000 vs. 2.0 17.12.2021