



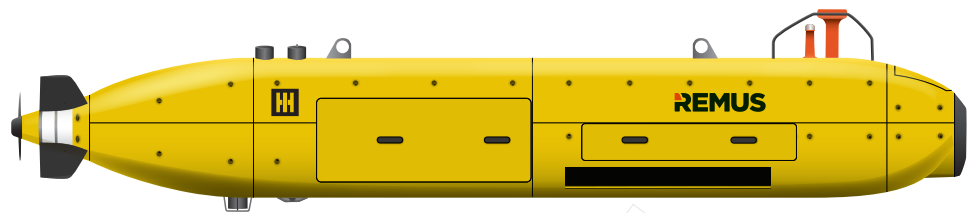
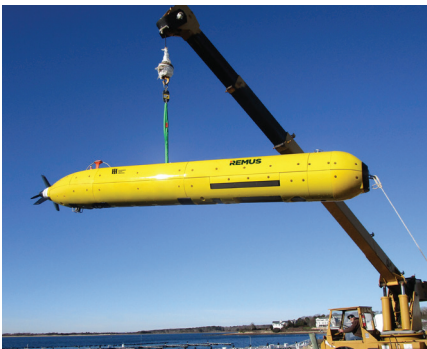
NEW GENERATION

REMUS 6000

Unmanned Underwater Vehicle

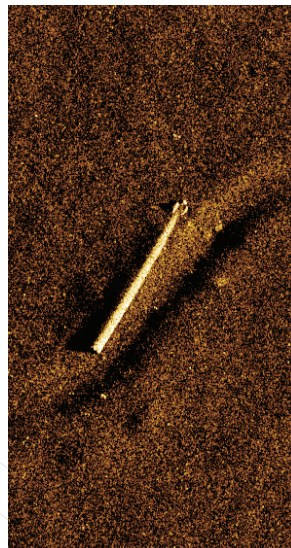
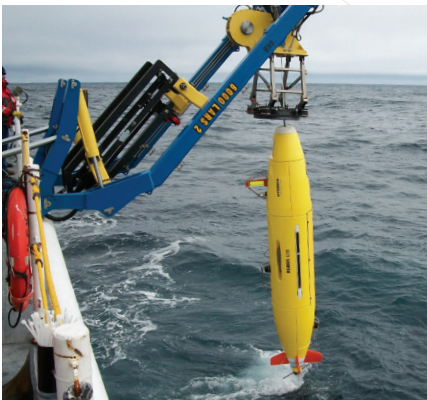
The new generation REMUS 6000 has been redesigned to increase modular payload space, allowing integration of multiple advanced sensors. Reaching depths of 6,000 meters, this deep-water unmanned underwater vehicle can survey 98% of the ocean for a variety of applications.

The open architecture and modularity of the REMUS Technology Platform facilitates increased capabilities, interoperability and applications while decreasing risk and cost.



Key Features

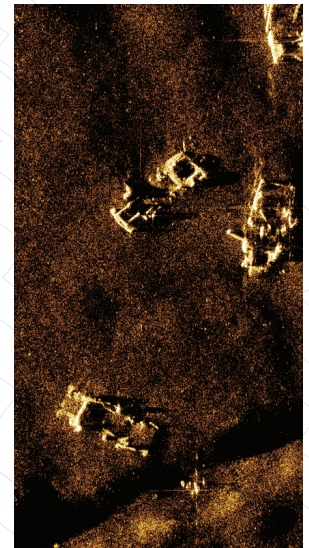
- Large-class UUV
- 6,000-meter depth rated
- Up to 60+ hour mission duration
- Speeds up to 4 knots
- Open architecture
- Increased modular payload capacity
- Swappable battery bottles
- Advanced synthetic aperture sonar
- Proven stern/side launch and recovery system



Torpedo, 40m Range, SAS



Shipwreck, Stills Camera



Cars, 50-75m Range, SAS

Applications

Given the stability and versatility of the REMUS 6000, there are numerous applications possible, including:

- Search and recovery
- Hydrography
- Geothermal vent research
- Tectonic plate research
- Deep sea mineral exploration
- Treasure hunting
- Marine research
- Fisheries research
- Environmental monitoring
- Oil and gas infrastructure monitoring
- Marine geology



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Approved for Public Release

REMUS 6000 Unmanned Underwater Vehicle

Specifications

Standard Specifications, Sensors and Payloads	
Depth Rating	6,000m (3.73 miles)
Hull Dimensions	79cm ² (31 in ²)
Length	5.2m (17.6 ft.)
Weight	Approximately 1,950kg (4,300 lb.)
Speed	0-4 knots (0-2 m/s)
Estimated Endurance	60+ hours at 3.0 knots (1.5 m/s)
Energy Storage	Six 8.1 kWh swappable lithium-ion battery bottles for a total of 48.6 kWh of energy
Recharge Time External to Vehicle	8-12 hours
Propulsion and Control	Direct drive DC brushless motor, open 2-blade propeller; four independent fins for control (yaw, pitch and roll)
Communications	WHOI micromodem low frequency (8-16 kHz) acoustic communications; 2.4 GHz WiFi; Iridium
Antenna	GPS, WiFi, Iridium (customer must provide SIM card)
Navigation	Commercial GPS; Long Baseline (LBL); Ultra-short baseline (USBL); doppler velocity assisted dead reckoning; Inertial Navigation System (INS); terrain following
Sonar	Kraken Aquapix MINSAS 120 Interferometric Synthetic Aperture Sonar with bathymetry; Constant resolution of 3cm x 3cm processed in real-time; Swath up to 480m
Other Standard Sensors	Multi-beam gap filler with bathymetry; Doppler Velocity Log (DVL); CT sensor; pressure sensor; Sound velocity probe
Camera	Voyis Observer Pro high resolution color stills camera with high intensity NOVA LED panels
Hard Drive	Two 16 TB swappable data bottles
Warranty	Standard one year warranty; warranty options available
Software	Vehicle Interface Program (VIP) for mission programming and post-mission analysis
External Connections	Gigabit ethernet; Vehicle power/charging (220V)
Tracking	Ranger and VIP software via towfish communications; mission monitoring; re-direct, loiter and abort commands
Safety Features	Ground fault detection; leak detection; forward-looking sonar; emergency strobe; ascent weight
Operations	Capable of operating multiple REMUS vehicles simultaneously
Auxiliary Equipment Options	Shipboard console/mast; power box with battery charger; antenna box; ACOMMS bottle; shipboard cables; ranger and towfish; ruggedized laptop; vacuum pump; vehicle maintenance cart; operation and maintenance spares
Optional Payloads, Equipment and Software	
Sonar	Sub-bottom profiler
Sensors	Eco puck triplet; oxygen sensor
Software	SeeByte SeeTrack and Neptune; REmote CONTROL (RECON)
Launch and Recovery System	Proven A-frame system that can launch and recover the UUV from the stern or side of a vessel

*Please inquire on pricing for integration of alternative sensors, payloads, software and equipment, including any not listed above.

© 2022. Performance specifications are approximate and may vary depending on vehicle configuration, operational specifics, and environmental conditions. Specifications are subject to change without notice.



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