



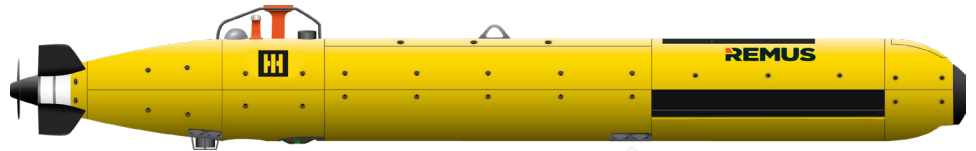
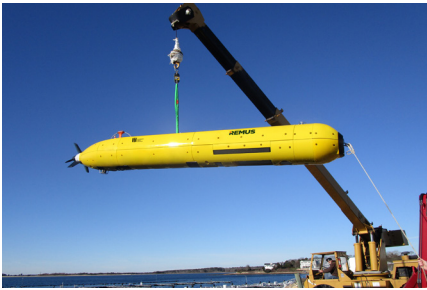
NEW GENERATION

REMUS 6000

Unmanned Underwater Vehicle

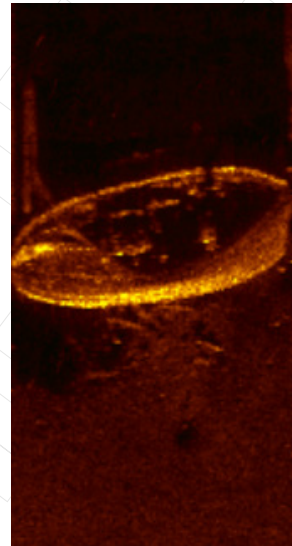
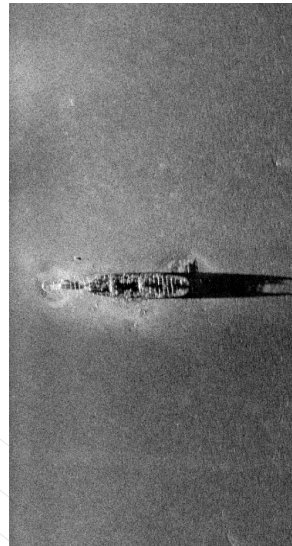
The new generation REMUS 6000 has been upgraded to increase modular payload space, allowing integration of multiple advanced sensors. Reaching depths of 6,000 meters, this deep-water unmanned underwater vehicle can survey 98% of the ocean for a variety of applications.

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



Key Features

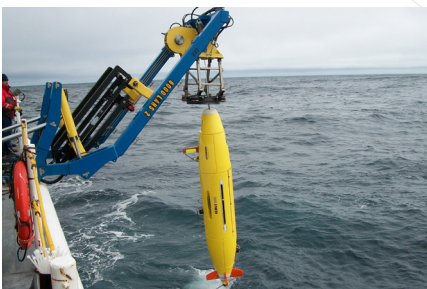
- Large-class UUV
- 6,000-meter depth rated
- Up to 25 hour mission duration
- Speeds up to 4.2 knots
- Open architecture
- Increased modular payload capacity
- Swappable battery bottles
- Advanced sonar options
- Proven stern/side launch and recovery system



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)
Diameter	80cm (31.5 in.)
Length	Approximately 5.2m (17 ft.)
Weight	Approximately 1,630kg (3,600 lb.)
Speed	0-4.2 knots (0-2.16 m/s)
Estimated Endurance	Up to 25 hours at 3.0 knots (1.5 m/s)
Energy Storage	Three 5.85 kWh swappable lithium-ion battery bottles for a total of 17.55 kWh of energy
Recharge Time External to Vehicle	About 24 hours
Propulsion and Control	Direct drive DC brushless motor, open 2-blade propeller; four fins for control (yaw, pitch and roll)
Communications	WHOI micromodem acoustic communications; WiFi; Iridium
Antenna	GPS, WiFi, Iridium (customer must provide SIM card)
Navigation	Commercial GPS; Long Baseline (LBL); doppler-assisted dead reckoning; Inertial Navigation System (INS); terrain following
Sonar	Synthetic Aperture Sonar (SAS)
Other Standard Sensors	Doppler Velocity Log (DVL); CT sensor; pressure sensor; Sound velocity probe; Ultra-short baseline (USBL) options
Camera	Stereo camera with LED light array
Hard Drive	Two 8 TB swappable data bottles; additional data bottles optional
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
Alternative Sensors, Payloads, Software and Equipment*	
Sonar	Dual frequency side scan sonar with bathymetry option; multibeam sonar; gap-filling sonar; sub-bottom profiler
Sensors	Eco puck triplet; oxygen sensor
Software	SeeByte SeeTrack and Neptune; REmote CONTROL (RECON); Reflection Post-Mission Analysis
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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