



REMUS 6000

Unmanned Underwater Vehicle

Deep-Ocean Reach With Expanded Modularity

The REMUS 6000 is a next-generation, large-class unmanned underwater vehicle (UUV) engineered for deep-water exploration and high-capacity payload integration. Upgraded with increased modular payload space and open-architecture interfaces, it supports multiple advanced sensors and mission packages.

REMUS 6000 is powered by Odyssey™, a cross-domain asset management suite enabling collaborative autonomy across missions and platforms for enhanced operational efficiency and control.

Mission Application

REMUS 6000's stability, endurance and modularity supports a wide range of deep-ocean missions, including:

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

Advantages

- Large modular payload capacity for advanced sensor integration
- Mature product line for flexible mission customization
- High-reliability platform with proven deep-ocean performance
- Swappable battery bottles for rapid turnaround
- Compatible with advanced sonar systems
- Supports stern or side launch and recovery

Features

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

REMUS 6000 can access 98% of the world's oceans – delivering unmatched capability for scientific, commercial and defense applications.



Contact:

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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
Standard Specifications, Sensors and Payloads	
Sonar	Standard dual frequency side-scan sonar
Optional Payloads	Multi-beam sonar, synthetic aperture sonar, sub-bottom profiler, Ultra-short baseline (USBL), User Defined Payloads, Third Party Autonomy
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.

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