



REMUS 300

Unmanned Underwater Vehicle



Modular, Expeditionary UUV for Multi-Mission Undersea Operations

The REMUS 300 is a next-generation, two-person-portable unmanned underwater vehicle (UUV) engineered for maximum payload flexibility and advanced modularity. Built on the REMUS Technology Platform, it delivers increased capability, interoperability and mission adaptability while reducing cost and risk. Its open-architecture design supports rapid integration of wet or dry payloads, enabling operators to tailor the vehicle for diverse defense, commercial and research missions.

REMUS 300 is powered by Odyssey™, a cross-domain asset management suite enabling collaborative autonomy across missions and platforms for enhanced operational efficiency and control.

Mission Applications

- Mine Countermeasures (MCM)
- Search and Recovery (SAR)
- Rapid Environmental Assessment (REA)
- Marine Archaeology
- Offshore Oil and Gas Exploration
- Renewables

REMUS 300 supports optional scalable, modular space for payloads for multiple missions including intelligence, surveillance and reconnaissance (ISR) and anti-submarine warfare.

Advantages

- Common technology platform for fleet interoperability
- Modular and reconfigurable for diverse mission profiles
- Mature product line
- Rapid payload integration
- Cost-effective with long service life

Features

- Small-class, two-person-portable
- 305-meter depth rating
- Up to 30-hour mission duration
- Max speed of 4.0+ knots
- Flexible energy options with blind-mated end caps for fast field battery exchange
- Removable 1 TB hard drive



The U.S. Navy's Lionfish program is built on the REMUS 300 platform under a multi-year program that could scale to 200 vehicles.



Contact:

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Specifications

Vehicle Specifications: Three Rechargeable Battery Options			
Lithium-ion Battery Options	1.5 kWh Battery	3.0 kWh Battery (Standard)	4.5 kWh Battery
Diameter	19cm (7.5 in.)	19cm (7.5 in.)	20.7cm (8.13 in.)
Length	2.03m (80 in.)	2.39m (94 in.)	2.64m (104 in.)
Weight	48.5kg (107 lb.)	58.5kg (129 lb.)	70.3kg (155 lb.)
Estimated Endurance*	10 hours	20 hours	30 hours
Maximum Range*	55km (29nm)	110km (59nm)	165km (89nm)
Recharge Time in Vehicle**	6 hours	12 hours	18 hours
Standard Specifications, Sensors and Payloads			
Depth Rating	100m (330 ft.)		
Speed	0-4 knots (0-2.1 m/s)		
Propulsion and Control	Direct drive DC brushless motor, open 3-blade propeller; Cruciform fin control (yaw and pitch)		
Communications	WHOI micromodem 2.0 high frequency (20-30 kHz) acoustic communications; 2.4 GHz WiFi; Iridium (optional)		
Antenna	GPS, WiFi, Iridium, LED status lights and visible and infrared (IR) recovery locating strobe		
Navigation	iXblue Phins C3 Inertial Navigation System (INS); Garmin commercial or optional GB-Gram Military GPS; Long Baseline (LBL); DVL-aided dead reckoning		
Doppler Velocity Log (DVL)	Teledyne 300 kHz phased array DVL capable of 200m bottom lock		
Side Scan Sonar	Marine Sonics MK II Arc Scout 900/1800 kHz dual frequency; Resolution up to 5cm; Swath up to 160m		
Other Sensors	NBOSI conductivity and temperature (CT) sensor; TE Connectivity depth sensor		
Hard Drive	1 TB removeable solid state hard drive; Optional spare drives and data docking station		
Warranty	Standard 1 year warranty; Warranty options available		
Software	Vehicle Interface Program (VIP) for mission programming and post-mission analysis		
External Connections	Gigabit ethernet; Vehicle power/charging (110/220V)		
Tracking	Ranger & VIP software via towfish communications; Mission monitoring; Re-direct, loiter and abort commands		
Safety Features	Ground fault detection; Leak detection; RJE International emergency locator beacon; Health status		
Operations	Capable of operating multiple REMUS vehicles simultaneously		
Auxiliary Equipment	Ranger and towfish; Ruggedized laptop; Hub box; Transit case with shock absorbent mounting; Lightweight, wheeled cradle; Vehicle maintenance cradle, Operations and maintenance spares		
Iridium Communications	Iridium capable with encrypted Iridium dial-up and SMS modem; Customer must provide SIM card		
Optional Payloads, Equipment and Software			
Camera	HD color stills camera		
Synthetic Aperture Sonar	Kraken Aquapix MINSAS 60 Interferometric Synthetic Aperture Sonar with bathymetry; Constant resolution of 3cm x 3cm processed in real-time; Swath up to 236m		
Environmental Sensors	Seabird Scientific EcoPuck Triplet		
HDK and SDK	Hardware Development Kit (HDK) and Software Development Kit (SDK) for integration of third-party payloads and autonomy		
Software	SeeByte SeeTrack and Neptune; REmote CONTROL (RECON); Reflection Post-Mission Analysis		
Auxiliary Equipment	LBL transponders; Surface communications station; Extra hard drive and docking station; External battery charger**		
NiMh Batteries	Nickel-Metal Hydride (NiMH) battery options		

*At 3.0 knots (1.5 m/s) with standard sensors active

**Recharge time external to vehicle is 6 hours

** Bottom lock range value is based on theoretical maximum achievable range given ideal environmental and ocean floor conditions. Actual results may vary.

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