

REMUS 100B Unmanned Underwater Vehicle

Specifications

Standard Specifications, Sensors and Payloads	
Depth Rating	100m (328 ft.)
Diameter	19cm (7.5 in.)
Length	2.12m (83 in.)
Weight	50kg (110 lb.)
Speed	0-4.5 knots (0-2.3 m/s)
Estimated Endurance*	8 hours
Energy Storage	1.5 kWh rechargeable lithium-ion battery
Recharge Time in Vehicle	6 hours
Maximum Range*	50km (27nm)
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, visible and infrared (IR) recovery locating strobe
Navigation	iXblue Phins C3 Inertial Navigation System (INS); Garmin commercial GPS; Long Baseline (LBL); Doppler-assisted dead reckoning
Doppler Velocity Log (DVL)	Teledyne 300 kHz phased array DVL with 200m bottom lock
Side Scan Sonar	Klein 3500 455/900 kHz dual frequency with bathymetry; Resolution up to 2.4cm; Swath up to 250m
Other Sensors	YSI conductivity and temperature (CT) sensor; TE Connectivity depth sensor
Hard Drive	1 TB solid state hard drive
Warranty	Standard 1 year warranty; Warranty options available
Software	Vehicle Interface Program (VIP) for mission programming and post-mission analysis
External Connections	100 Megabit 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; Health status
Operations	Capable of operating multiple REMUS vehicles simultaneously
Auxiliary Equipment	Ranger and towfish; Ruggedized laptop; Pelican transit case; Vehicle maintenance cradle; Operations and maintenance spares
Optional Payloads, Equipment and Software	
Camera	Voyis Robotics 4K HD stills camera module with high intensity LED lightbar
Iridium Communications	Iridium capable with encrypted Iridium dial-up and SMS modem; Customer must provide SIM card
Environmental Sensors	Kongsberg EK80; Aanderaa oxygen optode; Seabird Scientific Eco Puck Triplet
Safety Features	RJE International emergency locator beacon
Software	SeeByte SeeTrack and Neptune; Reflection Post-Mission Analysis
Auxiliary Equipment	LBL transponders; Surface communications station

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

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