



# REMUS 600M

## Unmanned Underwater Vehicle

### MINE COUNTERMEASURES VARIANT

The REMUS 600M mine countermeasures variant is a medium-class unmanned underwater vehicle that can dive to depths of 600 meters to collect high-resolution data in support of long-endurance defense missions.



### Mine Countermeasures (MCM)

The REMUS 600 is used by expeditionary warfare forces to conduct long-endurance MCM and port and harbor clearance down to 600 meters. Using high-resolution side scan sonar, the REMUS 600 surveys large areas autonomously, allowing operators to detect and classify mine-like objects during post-mission analysis.

### Search and Recovery (SAR)

REMUS 600 UUVs allow for large area coverage on a single mission, making them ideal for SAR operations. Multiple launch and recovery options can be tailored to a wide variety of vessels. High-resolution side scan sonar and precision navigation provide highly accurate data to locate targets of interest, including downed aircraft and sunken ships.

### Rapid Environmental Assessment (REA)

REMUS 600 UUVs can be used for REA, evaluating ocean bottom type and obstacles to clear Q routes. High-resolution side scan sonar facilitates characterization of the physical environment to increase mission effectiveness, reduce risk and improve efficiency for follow-on missions.

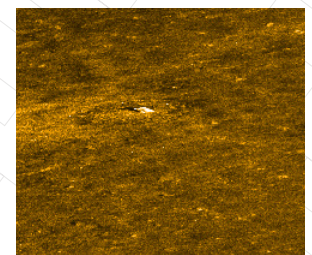
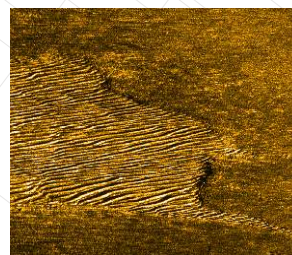
### Key Features

- Medium-class UUV
- 600-meter depth rated
- Up to 24-hour mission duration
- Speeds up to 4 knots
- Multiple launch and recovery options



Sailors from Mobile Diving and Salvage Unit (MDSU) two launch the MK18 underwater unmanned vehicle (UUV) during a training evolution at Joint Expeditionary Base Little Creek-Fort Story. (U.S. Navy photo by Mass Communication Specialist 2nd Class Benjamin Woody/Released)

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### Other Applications

Given the stability and versatility of the REMUS 600M, there are numerous applications possible. Other common applications include:

- Intelligence, Surveillance and Reconnaissance (ISR)
- Seabed Warfare
- Marine Geology
- Marine Archaeology



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## Specifications

Standard Specifications, Sensors and Payloads	
Depth Rating	600m (1968 ft.)
Diameter	32.4cm (12.75 in.)
Length	Approximately 3.6m (11.7 ft.)
Weight	Approximately 250kg (550 lb.)
Speed	0-4 knots (0-2.05 m/s)
Estimated Endurance*	Up to 24 hours
Energy Storage	Two 5.4 kWh lithium-ion battery trays
Maximum Range*	Up to 133km (72nm)
Propulsion and Control	Direct drive DC brushless motor; open 2-blade propeller; three independent control fins providing yaw, pitch and roll control
Communications	WHOI micromodem low frequency (8-16 kHz) acoustic communications; 2.4 GHz WiFi; Iridium (optional)
Antenna	GPS, WiFi, Iridium capable
Navigation	iXblue C7 Inertial Navigation System (INS); Garmin commercial GPS; Long Baseline (LBL); Doppler-assisted dead reckoning
Doppler Velocity Log (DVL)	Teledyne RDI 600kHz DVL
Side Scan Sonar	Klein UUV 3500 455/900 kHz dual frequency; Resolution up to 2.4cm; Swath up to 300m or Edgetech 2205 230/850 kHz dual frequency; Resolution up to 1.0cm; Swath up to 600m
Other Sensors	Conductivity and temperature (CT) sensor; Depth sensor
Warranty	Standard one year warranty; Warranty options available
Software	Vehicle Interface Program (VIP) for mission programming and post-mission analysis
Tracking	Ranger & VIP software via towfish communications; Mission monitoring; Re-direct, loiter and abort commands
Safety Features	Ground fault detection; Leak detection; Health status; Emergency strobe; Pencil beam sonar
Operations	Capable of operating multiple REMUS vehicles simultaneously
Auxiliary Equipment	Power box with battery charger; ACOMMS bottle; Shipboard cables; Ranger and towfish; Ruggedized laptop; Vacuum pump; Pelican transit case; Vehicle maintenance cradle; Operations and maintenance spares
Communications Equipment Options	Shipboard console; Shipboard mast; Antenna box
Optional Payloads, Equipment and Software	
Other Payloads	Camera and lightbar
Iridium Communications	Iridium capable with encrypted Iridium dial-up and SMS modem; Customer must provide SIM card
Navigation	Military GPS
Software	SeeByte SeeTrack and Neptune; REmote CONTROL (RECON); Reflection Post-Mission Analysis
Auxiliary Equipment	Surface communications station; Gateway buoy

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

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