



The Bluefin-9M is a lightweight, two-man-portable autonomous underwater vehicle with a mission turnaround time of less than 15 minutes. Equipped with a variety of user-selected payloads for multiple applications, the Bluefin-9M provides the performance of much larger AUVs in a convenient and rapidly deployable package.

EASY DEPLOYMENT – The lightweight Bluefin-9M is easily deployed by two people from any small boat and requires minimal support equipment. The vehicle is also designed to accommodate various launch and recovery systems.

RAPID TURNAROUND – With a pressure-tolerant battery and a removable data storage module, turnaround time between missions is less than 15 minutes.

FIELD-MAINTAINABLE – Easy access to field-swappable, modular subsystems reduces time on deck for maintenance and accelerates operational tempo.

INTUITIVE SOFTWARE – Bluefin's intuitive software package enables quick and easy mission planning and monitoring. Post-mission analysis can be completed with Bluefin tools or exported to third-party packages.

ACCURATE NAVIGATION – The vehicle uses an INS to provide the best possible navigation accuracy. Dead reckoning drift is typically less than 0.1% of distance traveled, yielding higher quality data.



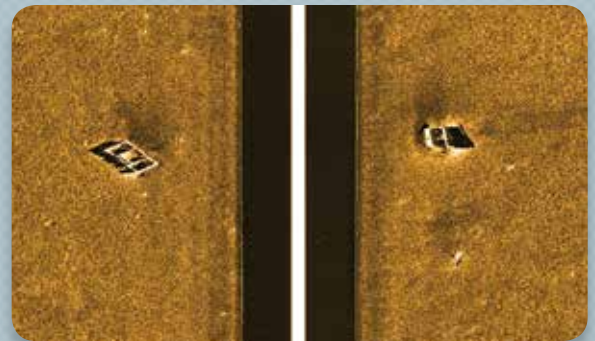
The Bluefin-9M can be easily launched and recovered from a RHIB

Applications

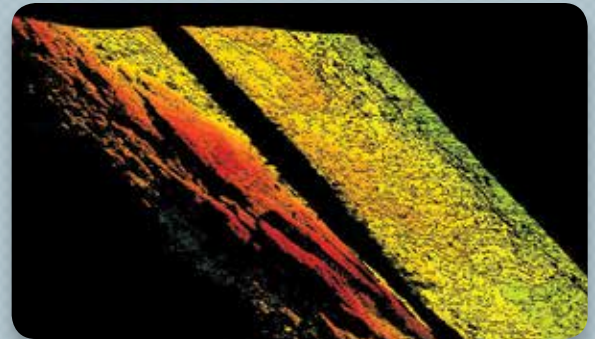
- Inshore Survey
- Environmental Protection & Monitoring
- Mine Countermeasures (MCM)
- Port & Harbor Security
- Unexploded Ordnance (UXO)
- Rapid Environmental Assessment (REA)
- Intelligence, Surveillance & Reconnaissance (ISR)

Bluefin-9M

Diameter	9.375 in (24 cm)
Length	98.5 in (250 cm)
Weight (Dry)	155 lb (70 kg)
Buoyancy	1.5 lb (0.7 kg) net positive
Lift Points	2 (located fore and aft) and 1 single reinforced for crane recovery
Depth Rating	980 ft (300 m)
Endurance	10 hours @ 3 knots with standard payload
Speed	Up to 5 knots
Energy	1.5 kWh of total energy One 1.5 kWh battery pack Lithium-polymer, pressure-tolerant
Propulsion	Gimbaled, ducted thruster for propulsion and control
Navigation	Real-time accuracy < 0.1% of D.T. CEP 50 INS, DVL, SVS+T, depth, and GPS IMU/Compass Nav and USBL tracking (options)
Antenna	Integrated — GPS, RF, Iridium and strobe
Communications	RF, Iridium and acoustic; Ethernet via shore power cable
Safety Systems	Fault and leak detection, acoustic tracking transponder, strobe and RDF (all independently powered)
Software	GUI-based Operator Tool Suite
Data Management	128 GB removable data storage module (RDSM)
Standard Payload	MCM Configuration Klein 3500 455/900 kHz with interferometry DeepSea Power&Light Wide-I SeaCam Camera WET Labs ECO Optical Backscatter Sensor <i>Hydrographic Survey Configurations available with Klein 3500 or EdgeTech 2205 Side Scan Sonar, Multibeam Echosounder, Sub-Bottom Profiler, Upward-Looking ADCP, and/or CTD</i>



Side scan sonar imagery of debris on the seafloor



Bathymetry data of cliff face



SYSTEM PACKAGE — The Bluefin-9M comes as a part of a comprehensive system package primarily consisting of the vehicle, support equipment, spares, software, training and 1-year warranty.



OPERATOR TOOL SUITE — Each system includes an intuitive software package that provides the interface between the AUV and operator for all phases of a mission, including planning, monitoring and execution, data management, and post-mission analysis.