GENERAL DYNAMICS

Mission Systems

Bluefin[®] - 9

Unmanned Underwater Vehicle (UUV)





Most Powerful Sensor Package in a Two-Man Portable UUV

Expeditionary & Low Logistics for the Most Dynamic Missions

Side Scan Sonar w/ Full Swath Bathymetry

HD Machine Vision Camera

Sound Velocity Sensor + Temperature + Pressure

Turbidity

Fluorometry

The General Dynamics Mission Systems Bluefin[®]- 9 unmanned underwater vehicle (UUV) provides unmatched high-resolution data, leading navigation, data processing and mission turnaround time in a two-man portable UUV. Featuring a full carbon fiber body, a carefully selected and integrated suite of sensors, latest generation communications and navigational components, and new onboard processing capabilities, the Bluefin-9 is the professional's tool to KNOW WHAT'S BELOW.

UNMATCHED DATA QUALITY - Bluefin-9's integrated Sonardyne Solstice multi-aperture side scan sonar delivers a 200 meter swath range and ultra-high along-track resolution of 0.15°.

PRECISE & RELIABLE NAVIGATION - The Bluefin-9 provides precise navigation (0.3% D.T. CEP 50) and accurate, geo-referenced data by incorporating a high-performance Doppler Velocity Log (DVL) and Inertial Navigation System (INS).

EXPEDITIONARY OPERATION - The Bluefin-9 allows swapping of the 1.9 kWh battery and 1TB Removable Data Storage Module (RDSM) in 30 minutes or less. The modular, free-flooded architecture eases in-field maintenance and minimizes operational down-time.

DATA WHEN YOU NEED IT - The Bluefin-9 features advanced on-board data processing that offers operators access to processed sonar and camera data that is ready for post-mission analysis.

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When the data are mission critical, trust General Dynamics Mission Systems' Bluefin Robotics completely redesigned Bluefin-9 UUV to provide the most reliable and comprehensive data sets in a vehicle of its class.

Sonardyne Solstice Multi-Aperture Sonar

The integrated Sonardyne Solstice multi-aperture sonar delivers high-resolution sonar imagery for hydrographic and bathymetric mapping. Each of the two Solstice arrays has 32 multibeam elements to dynamically focus along the whole length of the swath. High-resolution data across the entire swath results in maximum effective resolution, decreases false-positives, and improves operational efficiencies.

1TB Removable Data Storage Module (RDSM) With Camera

Bluefin-9's new RDSM acts as an independent data processor, generating and storing post-processed data with a simple interface to an operator's workstation. The RDSM contains a high-definition, machine vision-grade monochrome camera that captures still images and video. Imagery is geotagged for easy review during post-mission analysis.

Dedicated Emergency Operations System

The Bluefin-9 is designed with an innovative emergency operations system that provides redundancy to the vehicle's core functions in the event of a failure. An independently powered low-power microcontroller ensures key communications systems are able to provide locational data and telemetry to an operator to facilitate prompt and safe recovery of the vehicle.

12-Month Standard Limited Warranty

Like all Bluefin Robotics solutions, the Bluefin-9 comes with General Dynamics quality, reliability, and support. Our 12-month limited warranty provides additional confidence that the Bluefin-9 is the platform of choice for the toughest and most vital missions.

Technical Specifications

- Diameter
 - ~9.375" (23.8 cm) W x 10.375" (26.4 cm) H
 - Increased vehicle stability
- Length
 - 95.2" (248.1 cm)
- Weight
 - (Dry): 155 lb (70 kg)

Buoyancy

- Buoyant in Fresh and Salt Water
- Seamless transition between water bodies
- Lift Points
 - Nose and Aft Mounted carrying handles for two man lift

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FOR MORE INFORMATION, PLEASE CONTACT:

Depth Rating

- 656′ (200m)
- Energy
 - 1.9 kWh Rechargeable Lithium Ion battery
 - Designed for rapid removal and replacement recharges in six hours using rugged battery charger

Endurance

- 8hr @ 3kt / 12hr @2kt
- (2hr transit; 6 hr survey)

Speed

- Up to 6.0 kt sustained transit
- Survey at up to 5.0 kt

Propulsion

- Gimbaled, ducted thruster for propulsion and control
- Navigation
 - Realtime accuracy <- 0.3% D.T. CEP 50</p>
 - Dedicated Inertial Navigation System
 - Doppler Velocity Log

Integrated Payloads & Sensors

- Sonardyne Solstice 3000 Multi-aperture sonar
- Removable Data Storage Module (RDSM) with Camera
- Turbidity and Fluorometer Sensor
- Sound Velocity Sensor + Temperature + Pressure

Antenna

Integrated GPS, Wi-Fi, and Iridium with visible strobe

Communications

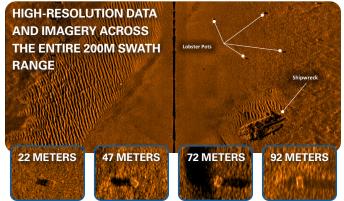
Ethernet, Wi-Fi, Iridium, Acoustic

Safety Systems

• Ground Fault Detection, Leak Detection, Independently Powered Emergency Operations System

Software

- Bluefin Dashboard and Bluefin Planner
- Optional SeeByte SeeTrack v4 interoperability



Lobster Pots. Approximate dimensions 800mm x 600 mm x 400mm

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