The General Dynamics Mission Systems Bluefin-12 is a lightweight medium-class unmanned underwater vehicle (UUV) designed to deliver mission critical data and complete operators’ high-consequence and changing missions. Built with robust core capabilities, increased modularity, embedded intelligence, data processing, and extended operational range, Bluefin-12 is READY FOR TODAY’S MISSION AND PREPARED FOR TOMORROW’S THREATS.

**Core Capabilities** – The Bluefin-12 UUV is equipped with a suite of core sensors and capabilities delivering a low-logistics, high performance UUV.

**On-Board Data Processing** – Equipped with robust data processing power and a 1TB Removable Data Storage Module (RDSM), Bluefin-12 delivers actionable data at the conclusion of each mission.

**Unmatched Data Quality** – Bluefin-12’s available Sonardyne Solstice multi-aperture side scan sonar delivers a 200 meter swath range and ultra-high along-track resolution of 0.15°.

**Precise and Reliable Navigation** – The Bluefin-12 provides precise navigation (0.1% D.T. CEP 50) and accurate, geo-referenced data by incorporating a high-performance Doppler Velocity Log (DVL) and Inertial Navigation System (INS).

**Mission-Based Modularity** – The Bluefin-12 provides greater than 4,000 cubic centimeters (4,150 cm³) of available payload space open for the integration of user-selected and mission-specific sensors.
Bluefin™-12 with Integrated Survey Package

General Dynamics Mission Systems’ Bluefin-12 UUV adapts and delivers mission critical capability and data over long-duration operations. The completely redesigned medium-class Bluefin-12 is the UUV to extend your mission capability.

Mission-Based Modularity

The Bluefin-12 features a modular construction enabling the integration of user-selected and mission specific payloads. Four discrete modular sections enable efficient on-deck mission preparation, maintenance and refitting for continuous extended missions, including rapid access and maintenance of internal components.

Integrated Intelligent Capabilities

Bluefin-12 delivers numerous capabilities that increase operational efficiency including collision avoidance, terrain following, and Automatic Target Recognition (ATR).

1TB Removable Data Storage Module (RDSM) with Camera

Bluefin-12’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.

Technical Specifications

- Diameter
  - ~12.8” (32 cm)
- Length
  - 15.8’ (4.83 m)
- Weight
  - (Dry): 550 lb (250 kg) – with integrated survey package
- Payload Capacity
  - 4,150cm³
- Buoyancy
  - Buoyant in Fresh and Salt Water
  - Seamless Transition Between Water Bodies
- Lift Points
  - Nose, Mid-section, Aft Mounted Lift-Points
- Depth Rating
  - 656’ (200 m)
- Energy
  - Four (4) 1.9 kWh Rechargeable Lithium Ion battery
  - Designed for Rapid Removal
  - Replaceable Individual Batteries Recharge in Six Hours
- Endurance
  - 24 hr @ 3kt / 36 hr @2kt
  - (4 hr Transit; 20 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 < 0.1% D.T. CEP 50
  - Doppler Velocity Log
- Available Integrated Payloads and 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

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