



L3HARRIS®
FAST. FORWARD.

IVER4 900

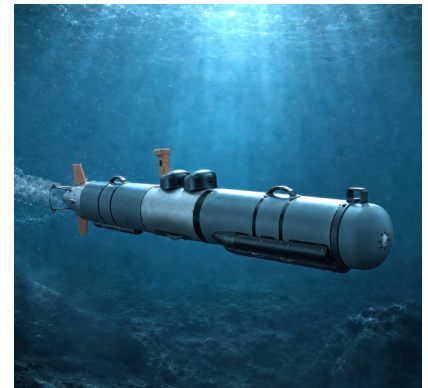
Autonomous Underwater Vehicle (AUV)

STANDARD CONFIGURATION

Length, Diameter and Weight	2.5 m length, 9" diameter carbon fiber tube, <230 lbs
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STANDARD FEATURES

Depth Rating	300 m rated titanium/carbon fiber pressure housing
Endurance	>40 NM (NiMH), >80 NM (Li-Ion) <i>(payload and current dependent)</i>
Speed Range	>3 knots transit, >5 knots sprint
Communications	Wireless 802.11n, Iridium (SBD) and acoustic communications Surface: 2.4 GHz telemetry radio for handheld remote and Iridium with cloud-based tracking software Subsurface: Benthos acoustic modem and topside deck box
Antenna Mast	GPS/Wi-Fi fixed strobe antenna mast
Navigation	Surface: GPS (WAAS corrected) Subsurface: Nortek DVL, INS
Software	VectorMap: mission planning and data viewing Sonar Mosaic: creates GeoTIFF images of side-scan records and KMZ files for Google Earth Underwater vehicle console (UVC): operation, run mission, remote control
Energy	Swappable battery chemistries: 2 kWh NiMH rechargeable 20+ hrs, 4 kWh Li-Ion rechargeable 40+ hrs
Onboard Electronics	Intel Celeron N2930 1.83 GHz Quad-core processor with MS Windows embedded; 1 TB solid-state drive for data storage, 8 TB encrypted DataMag removable storage for secure mission data
Propulsion System	Brushless DC motor with three-blade stainless steel propeller
Control	Four independent direct driven control planes
Charging	48 V external connector
Sonar Side Scan	Dual-frequency 1600/600 kHz w/bathy (900/600 kHz optional)
Inerferometric Co-Registered Sonar	Edgetech 2205B: swath bathymetry 600 kHz
Inertial Navigation System	INS based on iXBlue PHINS compact C3 fiber-optic gyroscope
SVP Sensor	Sound velocity probe (AML)
Doppler Velocity Log	Nortek DVL w/ ADCP (5 beam - 1 vertical) with 140 m bottom lock
Handheld Remote Control	Rugged water resistant remote with joystick for surface control (300+ meter range)
Acoustic Pinger	Underwater locator beacon
Rugged Transit Case	Shock absorbent mounting
Safety Systems	Drop weight and WatchDog Iridium safety systems
Field Rugged Operator Console	Getac for mission planning, operating and data viewing; includes VectorMap Mission Planning Software and VectorMap Surface Radio
Spares Kits	General spares kit and mission support field kit
Transport Dolly	Dolly with shipping case
Warranty	12-month limited warranty



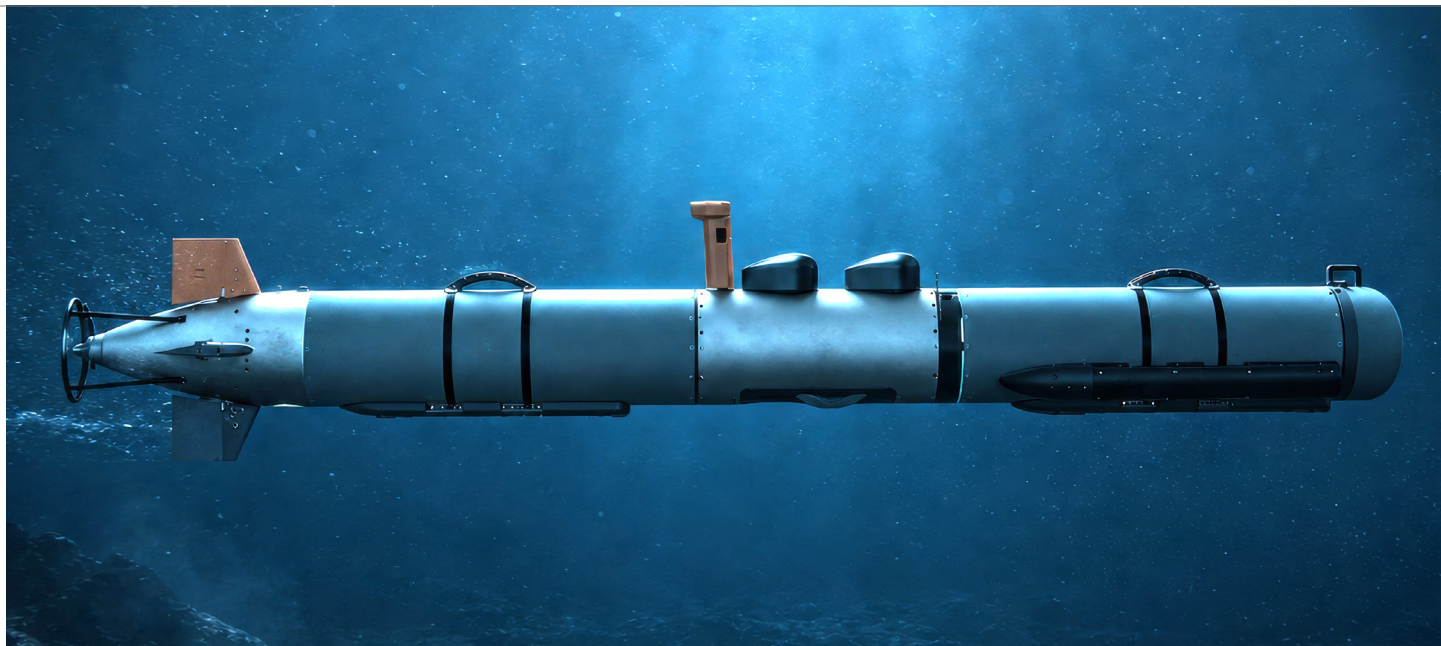
The Iver4 900 offers users a 300-meter depth workhorse system featuring long duration capability and no shipping restrictions with L3Harris' lithium-free standard design. The Iver4 900 comes standard with rechargeable NiMH battery packs supporting up to 20-hour run times (approx. 40 nautical miles) for long ingress/egress missions

The Iver4 900 is the first in a family of advanced AUVs to address a wide variety of missions, including commercial and defense applications such as long range survey, multi-domain intelligence, surveillance and reconnaissance (ISR), anti-submarine warfare (ASW) and mine warfare.

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IVER4 900 AUV KEY FEATURES

- > Extended endurance using a safe battery chemistry that allows transport on commercial aircraft while requiring no special equipment
- > Modular, wet-mate sections with unique, bi-directional GigE communications and power allow sensor changes in the field
- > Unmatched shallow water and surf zone performance with sophisticated shore avoidance autonomy and robust navigation architecture
- > Proven open interface that allows customers to perform special missions and eases integration with sensor and software partners
- > Years of sensor integration experience on the Iver platform produce the highest position accuracy available with leading inertial and acoustic navigation sensors
- > Features clean power architecture and low electromagnetic interference to produce better data for easier target detection



AVAILABLE OPTIONS

- > Towed marine magnetics magnetometer
- > Imagenex 852 forward-looking echo sounder in AUV bow for object avoidance
- > Blueprint Ocuclus forward looking sector scanning sonar for sonar gap fill
- > For camera imaging system: Contact L3Harris for details
- > Iver4 900 AUV open user forward section with six penetrator holes includes: dedicated 1 kWh rechargeable NiMH battery pack (total of 2 kWh with aft section), drop weight safety systems, Imagenex 852 object avoidance echo sounder (675 kHz) in the nose cone, AML sound velocity probe, user space for payload integration and case
- > Iridium subscription required for surface communications with AUV (commercial or DoW)
- > One week Basic Operator/Maintainer training course for up to six people at the L3Harris facility in Fall River, MA
- > One week Advanced Operator/Maintainer course for up to six people at the L3Harris facility in Fall River, MA*

*Requires participants to have completed "Basic Operator Training"

For more information call (508) 678-0550 or email Iver.Sales@L3Harris.com

Iver4 900 AUV

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1025 W. NASA Boulevard
Melbourne, FL 32919

[L3Harris.com](https://www.l3harris.com)