



**L3HARRIS**<sup>®</sup>  
FAST. FORWARD.

# IVER3 AUTONOMOUS UNDERWATER VEHICLE (AUV)

## STANDARD CONFIGURATION

Length, Diameter and Weight      74-to-85 in. Length, 5.8 in. Diameter,  
59-to-85 lbs. (standard)

## STANDARD FEATURES

Depth Rating	100m rated (200m optional)
Endurance	8-to-14 hours at speed of 2.5 knots **payload and current dependent**
Speed Range	1-to-4 knots
Communications	Wireless 802.11n ethernet standard (Iridium and Acoustic Communications optional)
Antenna Mast	Navigation lights with IR and visible LEDs (programmable strobe)
Tracking Internal Data Log	Programmable resolution
Navigation	Surface: GPS (WAAS corrected) Subsurface: RDI Doppler Velocity Log (DVL), 81m range, depth sensor and corrected compass
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	800 Whrs of rechargeable Lithium-Ion batteries (swappable section)
Onboard Electronics	Quad Core 1.3 GHz Intel Atom Low Power CPU w/ Windows Embedded, 1 TB SATA Solid State Drive
Propulsion System	48V Servo Controlled DC Motor with three-blade cast bronze propeller
Control	Four independent control planes (pitch/yaw fins)
Charging	24V External Connector with USB 2.0 support



Iver is the first commercially developed family of low-cost autonomous underwater vehicles (AUVs). They are ideal for coastal applications such as sensor development, general survey work, sub-surface security, research and environmental monitoring. These modern AUVs are single man-portable and feature simple point-and-click mission planning.

The Iver family offers the widest range of world class sensors and sonar packages. It also features a state-of-the-art open system, where users can make software extensions to the vehicle without a custom design.

## IVER3 AUV KEY FEATURES

- > State-of-the-art open system
- > Reliable, efficient, simple to operate
- > Launch and operate from shore, single person operation
- > Affordable systems
- > Mission planning in minutes
- > Field rugged, compact design

OPTIONAL SENSORS & ACCESSORIES	
Sonar Side Scan	<b>Edgetech 2205:</b> Dual Frequency 400/900 kHz or 600/1600 kHz <b>Klein UUV-3500:</b> Dual Frequency 455/900 kHz <b>Tritech Starfish:</b> Single Frequency 450 kHz
Interferometric Co-registered Sonar	<b>Edgetech 2205B:</b> Swath Bathymetry 600 kHz <b>Klein UUV-3500B:</b> Swath Bathymetry 455 kHz
Inertial Navigation System (INS)	INS based on iXBlue PHINS Compact C3 fiber-optic gyroscope
Ultra-Short BaseLine (USBL)	Inertial aiding using AvTrak 6 for acoustic positioning
CT Sensor	Conductivity and temperature (NBOSI)
SVP Sensor	Sound velocity probe (AML)
Communications	<b>Surface:</b> 2.4 GHz telemetry radio for handheld remote and/or Iridium with cloud based tracking software <b>Subsurface:</b> Acoustic modem (Benthos, Blueprint or WHOI)
Topside Deck Box	Surface equipment for subsurface communications with Benthos or Blueprint acoustic modem option
Handheld Remote Controller	Touch screen based remote with joystick for surface control (300+ m range)
Embedded Camera Module	Downlooking Mako-G-234C (color) camera with strobe lighting
Acoustic Pinger	Underwater locator beacon
Rugged Transit Cases	With custom foam inserts for Iver3
Magnetometer	Support for towed Marine Magnetics magnetometer
Field Rugged Operator Console	Getac for mission planning, operating and data viewing
Object Avoidance Sonar	Imagenex 852 forward-looking echo sounder in AUV bow
Other Options	Iver3 spares kit, launch and recovery capture cocoon, collapsible AUV field stand, swappable battery section with tail, training at L3Harris in San Diego, California

### Iver3 AUV Spec Sheet

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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