



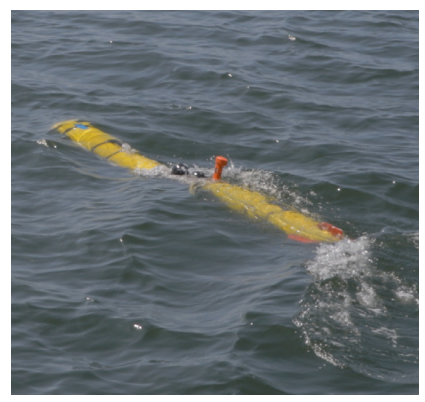
# IVER4 PW UNMANNED UNDERWATER VEHICLE (UUV)

## STANDARD CONFIGURATION

**Length, Diameter and Weight**      2.5m Length, 9” Diameter Carbon Fiber Tube, <200 lbs.

## STANDARD FEATURES

Depth Rating	300m Rated Titanium/Carbon Fiber Pressure Housing
Endurance	>40 NM (NiMH), >80 NM (Li-Ion) **payload and current dependent**
Speed Range	>3 knots transit, >5 knots sprint
Communications	Wireless 802.11n, Iridium (SBD) and Acoustic Communications
Antenna Mast	GPS/WiFi 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, 3 kwh primary alkaline 30+ Hrs, Aluminum-Water power for 80+ Hrs in 2020
Onboard Electronics	Intel Celeron N2930 1.83GHz Quad-Core Processor with MS windows embedded; 1 TB solid-state drive for data storage
Propulsion System	Brushless DC Motor with three-blade stainless steel propeller
Control	Four independent direct driven control planes
Charging	48V 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 200m bottom lock
Bottom Lock	200m Bottom Lock Range
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
Handheld Remote Control	Rugged water resistant remote with joystick for surface control (300+ meter range)
Acoustic Pinger	Underwater locator beacon
Rugged Tranist Case	Shock absorbent mounting
Safety Systems	Drop weight and Watchdog Iridium safety systems
Field Rugged Opertor Console	Getac for mission planning, operating and data viewing. Includes VectorMap Mission Planning Software and VectorMap Surface Radio



The Iver4 offers users a 300-meter depth workhorse system featuring long duration capability and no shipping restrictions with L3Harris’ Lithium-free standard design. The Iver4 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 PW is the first in a family of advanced UUVs 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.

## Iver4 UUV 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 allows 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 produces the highest position accuracy available with leading inertial and acoustic navigation sensors
- Iver4's clean power architecture and low electromagnetic interference produces better data for easier target



### 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

Iver4 Spares Kit

### Iver4 UUV Spec Sheet

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