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 locater beacon
- **Rugged Tranist Case**: Shock absorbent mounting
- **Safety Systems**: Drop weight and Watchdog Iridium safety systems
- **Field Rugged Operor 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 identification

**AVAILABLE OPTIONS**

- Towed Marine Magnetics Magnetometer
- Imagenex 852 forward-looking echo sounder in AUV bow for object avoidance
- Blueprint Occlus forward looking sector scanning sonar for sonar gap fill
- Iver4 Spares Kit