

Next Generation 300 Meter Iver4 PW

Precision Workhorse Commercial UUV

The Iver4 PW UUV offers users a 300-meter depth workhorse system featuring long duration capability and no shipping restrictions with L3 OceanServer's Lithium-free standard design. The Iver4 comes standard with rechargeable NiMH battery packs supporting up to 20-hour run times of 40 nautical miles mission duration 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), seabed warfare and mine warfare. The new system offers survey customers a commercial platform that can be easily shipped on common carries without the concern of hazardous goods shipping. The Iver4 PW comes standard with industry leading tracking and safety communications, precise and repeatable measurements, high accuracy navigation and low drag side scan and bathymetry transducers.

KEY BENEFITS

- Extended Endurance for Long Ingress/Egress Missions
- Durable - Titanium and Carbon Fiber Construction
- Wet Pluggable/User Defined/ Swappable Payloads
- Swappable Battery Chemistry - up to 4 kwh
- Man-Portable, Sealed Sections with no DOT IX Travel Restrictions or Vacuum Required
- 200m DVL Bottom Lock
- High Accuracy Depth Sensor

**Multi Mission Flexibility. Low Logistics. Reliable.
Precise Navigation. Intuitive Mission Planner.**





STANDARD FEATURES	
Dimensions	2.5 m (99 in)
Tube diameter	.23 m (9 in) Carbon Fiber Tubes
Weight	~200 lbs (standard configuration)
Depth rating	300 m (980 ft) Rated Durable Titanium Center Section
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
Antenna mast	GPS/WiFi Fixed Strobe Antenna Mast
Navigation	Surface: GPS (WAAS corrected), Subsurface: Nortek DVL, INS
Software	VectorMap: Mission planning and data viewing, SonarMosaic: 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+ hours in 2019
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)
Interferometric 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
Topside Deck Box	Surface equipment for subsurface comms with Benthos Acoustic Modem
Handheld Remote Controller	Rugged water resistant remote with joystick for surface control (300+ m range)
Acoustic Pinger	Underwater locator beacon
Rugged Transit Case	Shock absorbent mounting
Safety Systems	Drop Weight & Watchdog Iridium safety systems
Magnetometer	Support for towed marine magnetics explorer - optional
Field Rugged Operator Console	Getac for mission planning, operating and data viewing. Includes VectorMap Mission Planning Software and VectorMap surface radio.
Object Avoidance Sounder	Imagenex 852 forward-looking echo sounder in AUV bow - optional
Gap Filler Sonar	Blueprint Oculus forward looking sector scanning sonar - optional
Other Options	Iver4 Spares Kit

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