



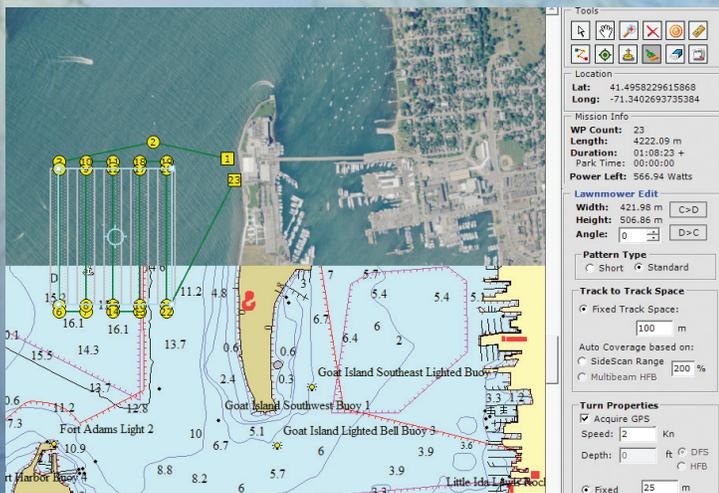
# IVER3

## Affordable Work Class Autonomous Underwater Vehicle (AUV)

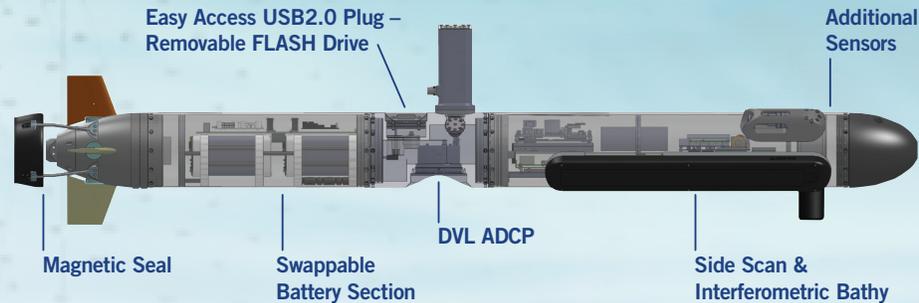
Extended OPERATION Time

Wide Variety of HIGH RESOLUTION SONAR Options

INTUITIVE Mission Planner



# IVER3 AUV SPECIFICATIONS



## STANDARD FEATURES (All Vehicle Models)

**DIMENSIONS:** Standard Length: 60-85 inches

**TUBE DIAMETER:** 5.8 inches

**WEIGHT:** < 85 Lbs (standard vehicle)

**DEPTH RATING:** 100 meters

**ENDURANCE:** 8-14 hours at speed of 2.5 knots; configuration dependent

**SPEED RANGE:** 1-4 knots

**COMMUNICATION:** Wireless 802.11n Ethernet standard (Iridium and Acomms optional)

**POWER:** 18-24V DC Charge Voltage

**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

**VECTOR MAP:** Mission planning and data viewing

**SONAR MOSAIC:** Creates GeoTiff images of side scan records and KMZ files for Google Earth

**BATHY MOSAIC:** Creates GeoTiff images for bathymetry data

**UNDERWATER VEHICLE CONSOLE (UVC):** Operation, run mission, remote control

**ENERGY:** 800-1200 WHrs of rechargeable Lithium-Ion batteries, depending on vehicle configuration (Swappable section)

**ONBOARD ELECTRONICS:** Intel Dual Core 1.6 GHz N2600 processor with MS Windows embedded; Up to 256 GB solid state drive for data collection

**PROPULSION SYSTEM:** 48V Servo Controlled DC Motor with 3-blade cast bronze propeller

**CONTROL:** Four independent control planes (Pitch/Yaw Fins)

**REMOVABLE FLASH:** USB2.0 port for sonar record recovery

## OPTIONAL SENSORS & ACCESSORIES

### SONAR SIDE SCAN

**MARINE SONIC SEA SCAN HDS:** Dual frequency 600/1200 kHz or 900/1800 kHz

**L3 KLEIN UUV-3500:** Dual frequency 455/900 kHz

**NEW – EDGETECH 2205:** Dual frequency 400/900 kHz or 600/1600 kHz

**SONAR MULTIBEAM:** Imagenex Delta T 260 kHz; Beams: 120, 240, 480; Beam width, transmit and receive: 120° x 3°; fixed or auto range

### INTERFEROMETRIC CO-REGISTERED SONAR

**L3 KLEIN UUV-3500:** Swath bathymetry 455 kHz

**NEW – EDGETECH 2205:** Swath bathymetry 600 kHz

**CT SENSOR:** Conductivity & Temperature (NBOSI)

**NEW – SV SENSOR:** Sound Velocity Probe (AML)

**COMMUNICATIONS: Surface:** 2.4 GHz telemetry radio or Iridium with Iver Track software. **Subsurface:** Acoustic (WHOI or Benthos) Modem

**HANDHELD REMOTE CONTROLLER:** Touch screen based 2.4 GHz telemetry radio remote with joystick surface control (300 meter + range)

**CAMERA:** Still and video imagery

**SECURITY SYSTEM SAFETY TOW FLOAT:** Emergency airbag recovery system

**ACOUSTIC PINGER:** Underwater locating and tracking

**RUGGED TRANSIT CASE:** With custom foam inserts for Iver2, includes collapsible AUV field stand

**MAGNETOMETER:** Support for towed Marine Magnetics Explorer

**INERTIAL NAVIGATION SYSTEM (INS):** Consult factory for options

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