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 – EDGE Tech 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 – EDGE Tech 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

Contact OceanServer Technology for the very latest specifications