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**: 59-85 Lbs (standard vehicle)

**DEPTH RATING**: 100 meters

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

**SPEED RANGE**: 1-4 knots (0.5-2.0 m/s)

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

**ANTENNA MAST**: Navigation Lights, with IR and Visible LEDs (programmable strobe)

**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
- **SONARMOSAIC**: Creates GeoTiff images of side scan records and KMZ files for Google Earth
- **BATHYMOSSAIC**: Creates GeoTiff images for bathymetry data
- **UNDERWATER VEHICLE CONSOLE (UVC)**: Operation, run mission, remote control

**ENERGY**: 800 WHrs of rechargeable Lithium-Ion batteries, (Swappable section)

**ONBOARD ELECTRONICS**: Intel Dual Core 1.6 GHz N2600 processor with MS Windows embedded; Up to 512 GB solid state drive for data storage

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

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

**CHARGING**: 24V External Connector with USB 2.0 Support

OPTIONAL SENSORS & ACCESSORIES

**SONAR SIDE SCAN**

- **EDGETECH 2205**: Dual frequency 400/900 kHz or 600/1600 kHz
- **L3 KLEIN UUV-3500**: Dual frequency 455/900 kHz
- **TRITECH STARFISH**: Single frequency 450 kHz

**INTERFEROMETRIC CO-REGISTERED SONAR**

- **EDGETECH 2205B**: Swath bathymetry 600 kHz
- **L3 KLEIN UUV-3500B**: Swath bathymetry 455 kHz

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

**SVP SENSOR**: Sound Velocity Probe (AML)

**COMMUNICATIONS**: Surface: 2.4 GHz telemetry radio for Handheld Remote; and/or Iridium with cloud based tracking software. Subsurface: Acoustic modem: (Benthos or WHOI)

**TOPSIDE DECK BOX**: Surface equipment for subsurface comms with Benthos Acoustic Modem option

**HANDHELD REMOTE CONTROLLER**: Touch screen based remote with joystick for surface control (300 meter + range)

**GO PRO BASED CAMERA SYSTEM**: Still or Video; includes LED lighting & processing software

**ACOUSTIC PINGER**: Underwater locator beacon

**RUGGED TRANSIT CASE**: With custom foam inserts for Iver3, includes collapsible AUV field stand

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

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

**FIELD RUGGED OPERATOR CONSOLE**: Getac for mission planning, operating and data viewing

**GPS COMPASS STAND**: High accuracy, land based AUV calibration tool

**OBJECT AVOIDANCE SOUNDER**: Imagex 852 forward looking echo sounder in AUV bow

**LAUNCH & RECOVERY DEVICE**: Capture Cocoon

**OTHER OPTIONS**: Iver3 Spares Kit, Swappable battery section w/ tail