



L3HARRIS®
FAST. FORWARD.

IVER3 580

Autonomous Underwater Vehicle (AUV)

STANDARD CONFIGURATION

Length, Diameter and Weight	Length: 74-85 in, Diameter: 5.8 in, Weight: 59-85 lbs
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STANDARD FEATURES

Depth Rating	200-meter rated carbon-fiber pressure hulls
Endurance	5-6 hours at speed of 2.5 knots (<i>payload and current dependent</i>)
Speed Range	1-3.5 knots
Communications	Surface: Wi-Fi Wireless 802.11n, 2.4GHz RF ¹ , CAT6 Ethernet (GIG-E Bow), Iridium (Commercial ² or DoW) Subsurface: blueprint acoustic modem ³
Antenna Mast	Navigation lights with IR and visible LEDs (programmable strobe)
Tracking Internal Data Log	Programmable resolution
Navigation	Surface: GPS (WAAS corrected) Subsurface: Teledyne RDI Doppler Velocity Log (DVL), 81-meter range, depth sensor, and digital 3-axis corrected compass VectorMap: mission planning and data viewing
Software	Sonar Mosaic: acoustic sidescan sonar processing and visualization Underwater Vehicle Console (UVC): vehicle operation, run mission, remote control of vehicle
Energy	784 Wh of rechargeable lithium-ion batteries
Onboard Electronics	Quad Core 1.3 GHz Intel atom low power CPU w/ MS windows Embedded, 1 TB SATA solid state drive
Propulsion System	Smart Tail, 48-volt servo controlled DC motor with three-blade cast bronze propeller
Control	Four independent control planes (pitch/yaw fins)
Charging	24-volt external connector
Sound Velocity Sensor	AML Oceanographic Sound Velocity Probe
Acoustic Pinger	Emergency underwater locator beacon
Object Avoidance Sonar	Imagenex 852 forward-looking echo sounder
Rugged Transit Cases	Includes customized foam inserts for electronics and battery sections
Iver3 Collapsible Field Stand	Portable, collapsible
Warranty	12-month limited warranty

¹ Requires optional VectorMap 2.4 GHz Base Station Radio and/or optional Handheld Remote Controller for surface communications with vehicle

² Requires Iridium subscription for surface communications with vehicle

³ Requires optional "top-side" deck box for underwater acoustic communications with vehicle



Iver represents the first commercially developed family of affordable autonomous underwater vehicles (AUVs) designed with portability and ease of use in mind. These AUVs are perfect for coastal applications, including sensor development, general survey work, sub-surface security, research and environmental monitoring.

The modern Iver3 580 AUVs are single person-portable and features intuitive point-and-click mission planning. The Iver family boasts the widest range of world-class sensors and sonar packages, along with a cutting-edge open system that allows users to make software extensions to the vehicle without requiring a custom design.

IVER3 AUV KEY FEATURES

- > State-of-the-art open system
- > Mature and proven safety settings
- > Reliable, efficient, simple to operate
- > Mission planning and data playback in minutes
- > Field rugged, compact portable design

OPTIONAL SENSORS AND ACCESSORIES	
Side-Scan Sonar ⁴	Edgetech 2205: dual frequency (600/1600 kHz)
Interferometric Co-Registered Bathymetric Sonar ⁴	Edgetech 2205B: swath bathymetry (600 kHz)
Inertial Navigation System (INS)	Exail Phins Compact C3 INS
Expanded Payload (EP)	Includes a 2nd CPU for the remote helm and a drive in the main payload section
Expanded Payload 16 (EP16)	16-inch forward section, 6 external ports, includes 2nd CPU and drive for remote helm
4-Port Water Quality	EX01 multiparameter sonde integrated bow section
Top-Side Deck Box	Surface equipment Blueprint X 150 for Blueprint acoustic modem communications
CT Sensor	Neil Brown OSI conductivity and depth sensor
Camera Module ⁵	Embedded down-looking MakoG-234C (color) camera and strobe lighting
Magnetometer	Tow harness, 5 m power/communication cable, towed Marine Magnetics Explorer 1,000 m magnetometer
Ultra-Short BaseLine (USBL) Transponder ⁶	Inertial aiding using Sonardyne AVTrak ⁶
Ruggedized Operator Console	Getac V110 console for mission planning, operation, data viewing
Handheld Remote Controller	Touch screen based handheld remote with joystick for surface control, 300+ m range, RF communications
VectorMap 2.4 GHz Base Station Radio	Surface: 2.4 GHz telemetry USB base station radio for surface communications
Iver3 Field Spares Kit w/Case	Kit contains an assortment of field replaceable items and the tools necessary to complete these repairs
Iver3 Swappable Aft Section	784 Wh of rechargeable Lithium-Ion battery section and Smart Tail
Iridium Subscription	Required for surface communications with AUV (commercial or DoW)
Hull Vacuum	Vacuum test pump

⁴ Inquire for additional dual-frequency side-scan sonar/interferometric sensor options

⁵ Inquire for additional camera module options

⁶ Requires AvTrak 6 compatible “transceiver” (vessel-mounted)

⁷ Requires participants to have completed “Basic Operator Training”

AVAILABLE OPTIONS

Iver3 580 Training Courses:

- > One week Basic Operator/Maintainer training course for up to six people at the L3Harris facility in Fall River, MA
- > One week Advanced Operator/Maintainer course for up to six people at the L3Harris facility in Fall River, MA*

*Requires participants to have completed “Basic Operator Training”

For more information call (508) 678-0550 or email Iver.Sales@L3Harris.com

Iver3 580 AUV

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