





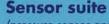








Generate high-resolution maps
of water quality and bathymetry
without getting your feet wet.



(pressure sensor and altimeter not shown)





EcoMapper is a unique AUV designed specifically for water quality and bathymetry mapping applications.

Monitoring the natural environment can be challenging. We have designed a monitoring platform that will generate the highest-resolution data at a low cost and low risk to your personnel.

Key features

- 8 water quality sensors and side-scan sonar are logged continuously as vehicle moves through water column
- Deployable by one person
- Easy and fast mission planning
- 8-hour plus run times at speeds of 2-4 knots
- Side-scan sonar option
- Wi-Fi communication and GPS navigation

5 Steps to an EcoMapper Mission



 Using VectorMap software, create a point-and-click mission on a geo-referenced map.



Start EcoMapper with key fob. UsingWindows™ Remote Desktop, load mission onto EcoMapper's UVC Software.



Place vehicle in water and start mission.



- Detailed data on horizontal and vertical planes
- Reduce number of personnel on the water
- Reduce costs to run monitoring program
- Simultaneous bathymetric and water quality mapping

Mapping

- Improve knowledge of raw water quality
- Early warning of algal blooms and low DO events
- Make informed treatment decisions
- Reduce water treatment operating costs
- Plan a mission and deploy in less than 30 minutes
- Change missions on the fly
- Get real-time data stream
- Deploy from shore
- Depth sounder standard
- Side-scan sonar optional
- Simultaneous bathymetric and water quality data
- Requires < 1 m water depth

and Non-point **Source Mapping**

- Generate high-resolution map of plume
- Track movement of point source
- Map non-point source impacts to environment
- Monitor impacts by industry or development



When EcoMapper is on the surface and within Wi-Fi range, view data and monitor progress. Or take manual control over vehicle.



Retrieve EcoMapper at planned PARK location. Download data via Wi-Fi link; transfer data to preferred graphing software.







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Who's Minding the Planet?®

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Specifications EcoMapper AUV

Dimensions	Length: 60.1 in (152.65 cm); Diameter: 5.8 in (14.73 cm)
Weight (air)	45 lbs (20.41 kg)
Energy	600 WHrs of rechargeable Lithium-Ion batteries (>300 cycles)
Endurance	8 hours at speed of 2.5 knots; battery configuration dependent
Speed Range	1-4 knots
Control	Four independent control planes
External Hook-up	Data: wireless 802.11g Ethernet (up to 200 m comm. distance)
Navigation	Dead reckoning via GPS (WAAS corrected in US) when on the surface
Tracking	Internal data log; programmable resolution
Sensors	Temperature, conductivity, depth, height from bottom, three-axis digital compass
Onboard Electronics	Low-power X86 processor, large 80 GB disk drive for data collection
Software	Windows XP embedded, GUI-based navigation suite
Communication	2.4 GHz radio link when on the surface
Options	
Sensors	Optical dissolved oxygen, turbidity, chlorophyll fluorescence, blue-green algae fluorescence, pH, ORP
Side-Scan Sonar	Imagenex 330 kHz or 330/800 kHz
Security System	Safety float emergency airbag recovery system

Mapping Service

YSI offers a complete mapping service with the EcoMapper AUV. Please contact us for more information.

