



HYCAT

AUTONOMOUS SURFACE VEHICLE



Multiple Sensors, One Complete Solution

YSI Xylem has partnered with SeaRobotics, Inc. to develop the HYCAT, a unique Autonomous Surface Vehicle (ASV) with sensors for water quality, bathymetry, and flow in a single, easily-deployed platform. One outing with the HYCAT can generate data that would normally take days of on-site labor, with results transmitted in real time for immediate analysis and responsive investigation.

With HYCAT, users will enjoy:



Lower cost of data acquisition, with less labor and time for multiple streams of data.



Highest quality data via YSI sensor technologies.



Real-time positioning

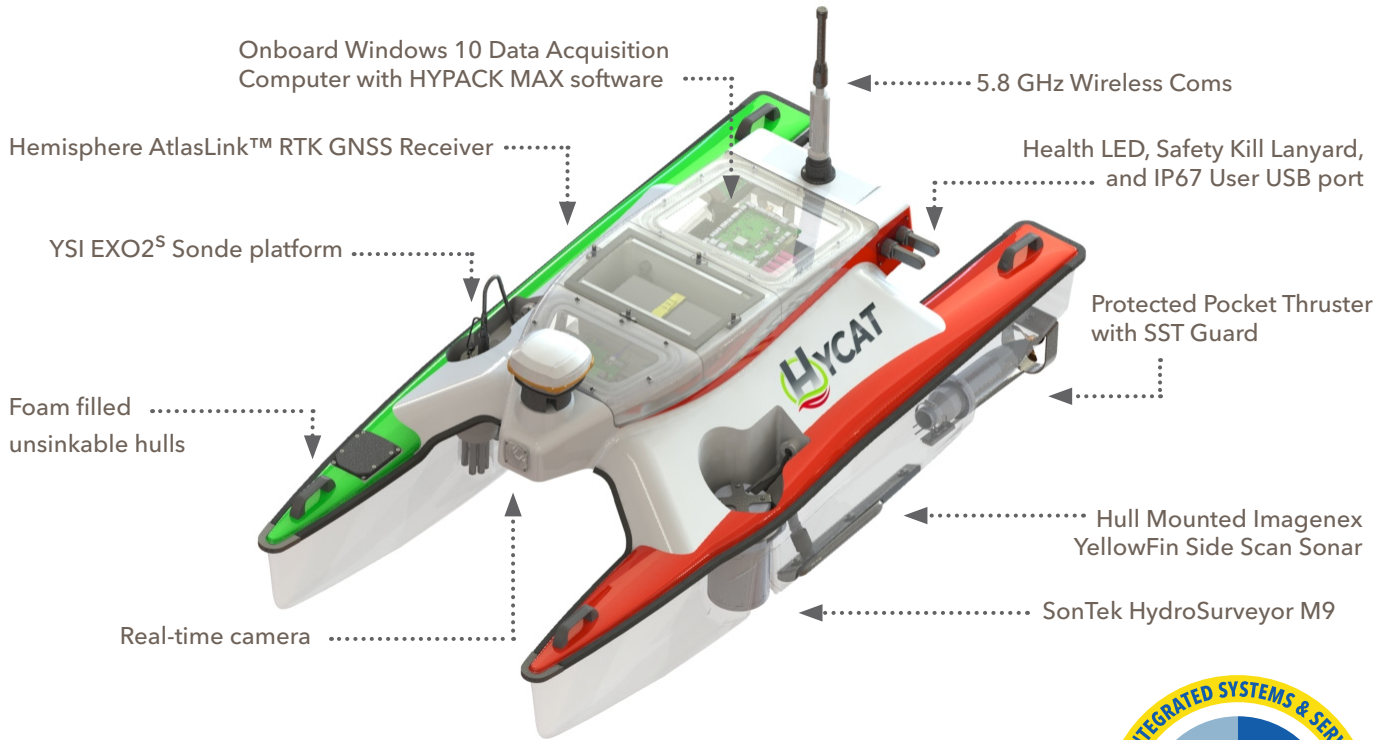


Remote data acquisition



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E124-08.0719

HYCAT Specifications



Dimensions	Length: 5.9 ft (1.8 m) Beam: 2.83 ft (.86 m)	Draft (antenna down): .5 ft (.15 m) Weight: 53 kg (115.5 lbs)
Speed Range (survey speed)	ASV: 0 - 7.8 kts	
Endurance	8.0 hrs @ 2 kts, 6.0 hrs @ 3 kts, 2.7 hrs @ 4 kts	
Operational Sea State	Beaufort Wind Scale Identifier 4	
Environmental Operating Conditions	Air Temperature: -20°C to +45°C Water Temperature: +4°C to +32°C	
Propulsion System	2X 1KW BLDC Pocket Thrusters	
Steering	Differential Thrust	
Battery	1 x 1500 Whr 24VDC nom UN38.3 rated Li-ion Battery. Field swappable.	
On-Board Electronics	6th Gen Intel® Core™ i5-6440EQ 4-Core 2.7GHz processor with MS Windows 10. 512GB (Solid State Hard drive).	
Mission Planning Tools	REALTIME mission planning, monitoring and data acquisition via ASV driver for HYPACK MAX.	
Communications	Line of Sight Wi-Fi; 5.8GHz	
Handheld Remote Controller	Ruggedized operator control unit with internal DC and external 120/240 VAC external power input. Joystick with softkeys to effortlessly switch between autonomous and RC control modes.	
Software	HYPACK MAX, SonTek HydroSurveyor, YSI EXO KOR	

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Xylem in
Partnership
with
Sea Robotics



YSI.com/HYCAT