

# HYCAT

AUTONOMOUS SURFACE VEHICLE

SPECIFICATIONS #E124-06 0818

## Multiple Systems, One Complete Solution.

The **HYCAT** Autonomous Surface Vehicle (ASV) is the newest element in the Xylem brand Autonomous and Remote Vehicle Monitoring Solutions. Developed in partnership by YSI and SeaRobotics, this unique ASV combines products from multiple brands to provide a

total solution for your site. Sensors have plug-and-play capabilities, allowing the HYCAT to be customized to your specific site needs. The HYCAT can also be easily deployed with two people in remote locations, not requiring ramp/dock launch access.

### But that's just the beginning of the HYCAT capabilities:



Side Scan Sonar



Water Quality



Water Velocity



Depth Measurement



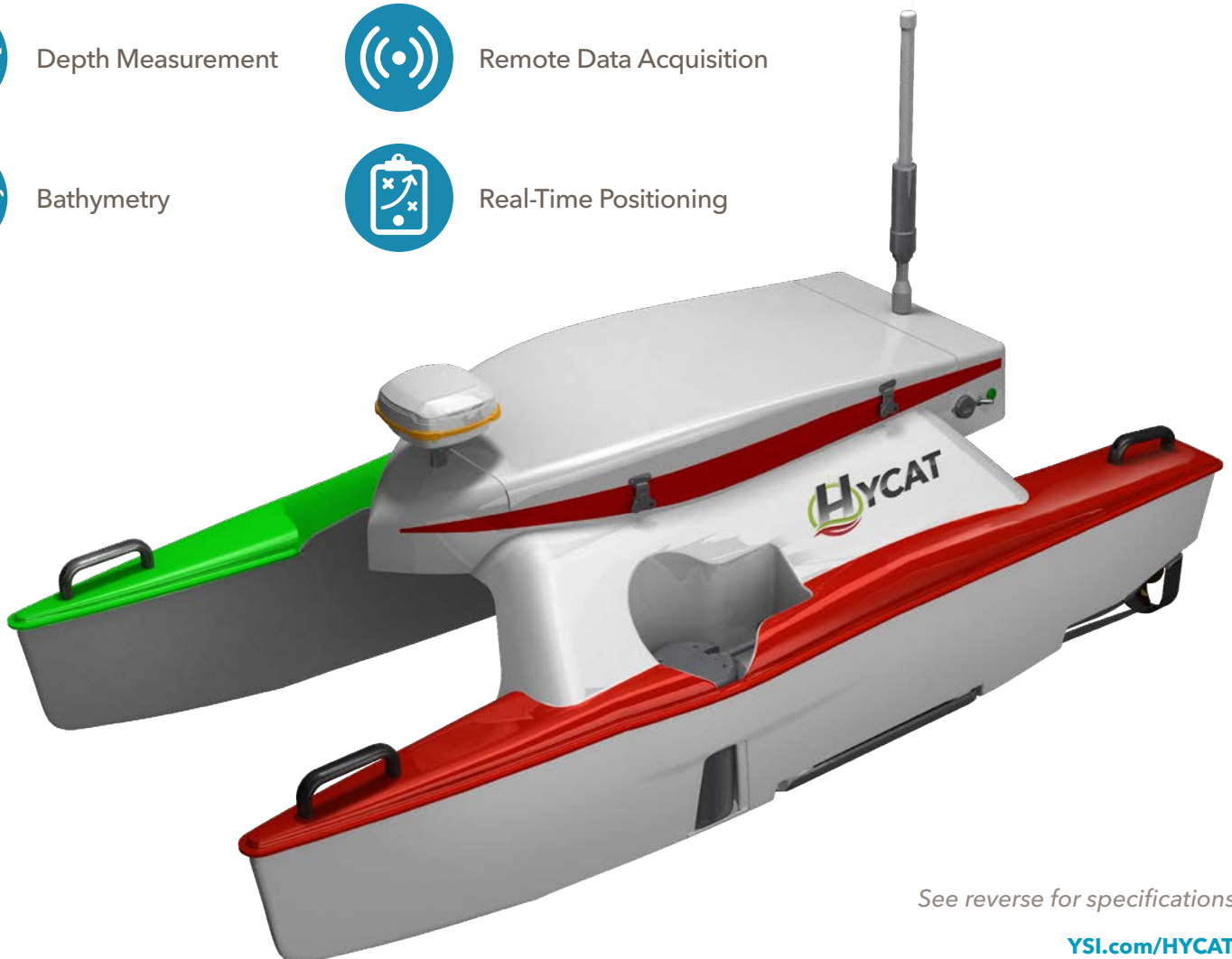
Remote Data Acquisition



Bathymetry



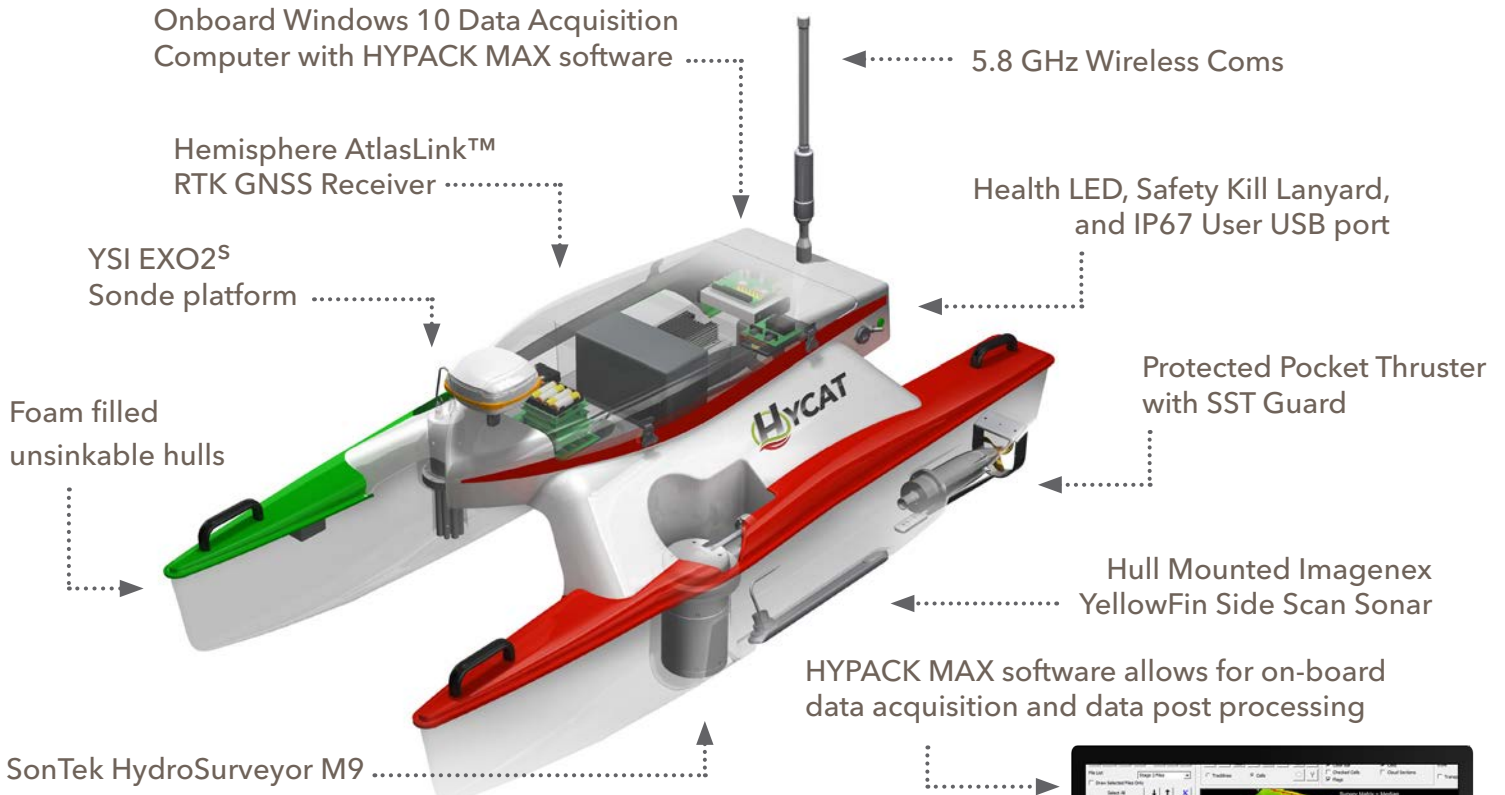
Real-Time Positioning



See reverse for specifications

[YSI.com/HYCAT](http://YSI.com/HYCAT)

## Components Include:



## 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