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
HYCAT Specifications

<table>
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<th>Dimension</th>
<th>Description</th>
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| **Dimensions**             | Length: 5.9 ft (1.8 m)  
Beam: 2.83 ft (0.86 m)  
Draft (antenna down): .5 ft (.15 m)  
Weight: 53 kg (115.5 lbs) |
| **Speed Range (survey speed)** | ASV: 0 - 7.8 kts  
8.0 hrs @ 2 kts  
6.0 hrs @ 3 kts  
2.7 hrs @ 4 kts |
| **Endurance**              | Beaufort Wind Scale Identifier 4  
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 |