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## **SURVEYOR** M1.8

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Intelligent, fully integrated, and capable of being rapidly deployed, the SR-Surveyor M1.8 is the ideal solution for any professional surveyor that requires top quality, reliable bathymetry data. The SR-Surveyor M1.8 was designed to streamline survey logistics and easily navigate shallow and hard to access, remote locations.

The SR-Surveyor M1.8 employs tightly integrated, industry-leading technology to provide best in class capability, performance and data quality. Single software interfacing for robust intuitive surveying. Sensors have plug-and-play capabilities, allowing the SR-Surveyor M1.8 to be easily customized to your site-specific needs.



BATHYMETRY



HABITAT MAPPING



STRUCTURE INSPECTION



SEARCH & RESCUE

### **Components Include:**

1.1m dual antenna GNSS spacing

Velodyne Puck Mapping LiDAR

AML MicroSV

SonTek HydroSurveyor M9

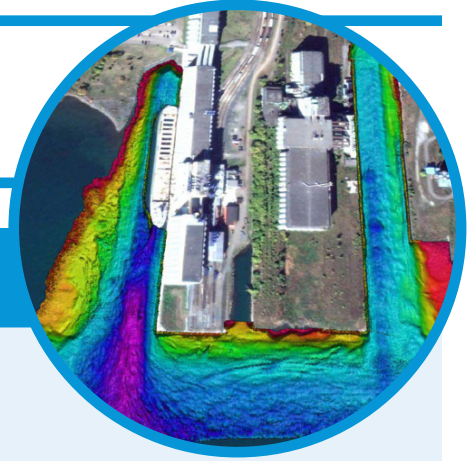
Edgetech 2205 540kHz bathy/1600 kHz sidescan transducers

SBG Ellipse, Ekinox or Apogee INS



**SeaRobotics Corporation**

SeaRobotics.com | 7765 SW Ellipse Way, Stuart, FL 34997, USA | Tel +1 (772) 742-3700 | info@searobotics.com



## SR-Surveyor M1.8 Specifications

Dimensions	Length: 1.83 m Beam: 0.91 m Draft: 0.17 m Weight: 52.3 kg
Endurance	7.0 hrs @ 2 kts 5.5 hrs @ 3 kts 2.1 hrs @ 4 kts
Operational Sea State	Beaufort Wind Scale Identifier 4
Environmental Operating Conditions	Air Temperature: -20 to + 45 C Water Temperature: +4 C to + 32C
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 data acquisition computer. Robust data acquisition not effected by communications drop out.
Communications	Real time data monitoring and sensor interfacing
Sensors	Edgetech 2205 (special version) 540kHz bathymetry (8:1 coverage to depth ratio) 1600kHz high resolution sidescan 540kHz motion tolerant sidescan Backscatter 540KHz low frequency side scan SBG dual antenna RTK INS AML micro SV sound velocity sensor Optional Velodyne Puck LiDAR for terrestrial mapping Optional: Sontek M9 ADCP for current profiling and bottom tracking

