



SEARAY™

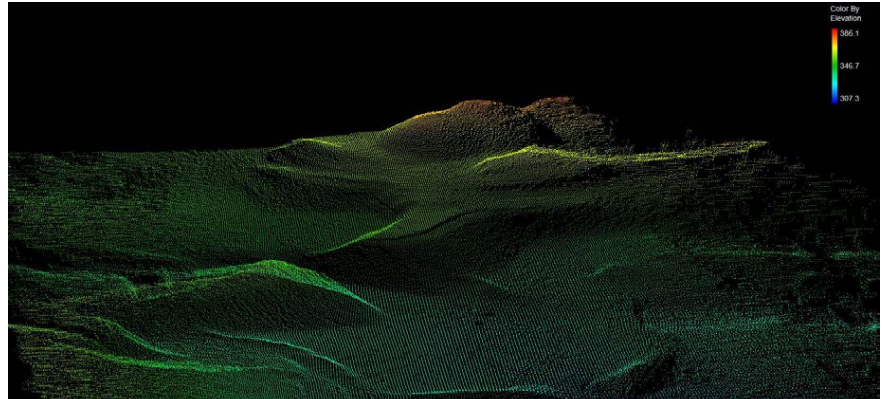
Multibeam Echosounder for Unmanned Surface Vessels



Seafloor™



The **SeaRAY™** is an extremely compact multibeam sonar system designed for a multitude of hydrographic survey applications. Its compact footprint allows for simple integration on unmanned surface vessels, from which it can be mobilized into ponds, lakes, rivers, and dredge pits. A hydrodynamic, energy-efficient design makes optimal use of battery power, prolonging survey longevity in the field. Data acquisition software included.



SPECIFICATIONS

- ▶ Frequency Range **400-550 kHz**
- ▶ Swath Coverage **Up to 130°**
- ▶ Number of RX Beams **256**
- ▶ Along-Track Beam Width **1.45°**
- ▶ Across-Track Beam Width **1°**
- ▶ Range **> 200m**
- ▶ Beam Distribution **Equi-Distant and Equi-Angular Beam Distribution**
- ▶ Roll Stabilization **Yes**
- ▶ Pressure Rating **100m**
- ▶ GNSS / INS **INS Integrated into Sonar**
- ▶ Position: **HOR: ±(8mm +1ppm X Distance from RTK Station)
VER: ±(15mm +1ppm X Distance from RTK Station)
(Assumes 1m GNSS Separation)**
- ▶ Heading Accuracy **0.08° (RTK) with 2m Antenna Separation**
- ▶ Pitch / Roll Accuracy..... **0.03° Independent of Antenna Separation**
- ▶ Heave Accuracy **5cm or 5% (Real Time)**
- ▶ Ping Rate **50 Hz**
- ▶ Outputs **Bathymetry, Sidescan**
- ▶ Compatible With **Qinsy, HYPACK, EIVA, Other Prominent Brands**
- ▶ Weight **3.5kg (Air), 1.1kg (Water)**
- ▶ Topside Rating **IP67 (Dust & Water Tight, Submersible up to 1m)**

