

HMS-1400 SSS Data Sheet

The HMS-1400 System combines a portable digital sidescan towfish and sonar interface with true 16-bit processing in a Toughbox workstation with GeoDAS software for high-resolution survey imaging. Easy-to-use and low-cost, the HMS-1400 System provides single- or dual-frequency operation with depth, heading, and attitude sensors.



HMS-1400 Side Scan Sonar ready for deployment. Image courtesy of Falmouth Scientific Inc.

Easy-to-use and low-cost, the HMS-1400 System provides single- or dual-frequency operation with depth, heading, and attitude sensors. The powerful GeoDAS software offers an extensive suite of capabilities common in more expensive systems, including display of real-time mosaicing of sidescan images on top of nautical chart data for effective image location, mission execution, survey planning, and advanced target analysis.

Features

- Single- or dual-frequency towed sonar sensor
- Easily transported, interfaced, and deployed
- True 16-bit processing provides high resolution images of bottom features
- Powered by GeoDAS software by Oceanic Imaging Consultants (OIC):
- Automatic bottom tracking
- Automated processing/contrast enhancement
- Advanced target analysis/databasing
- Supports common navigation chart formats - BSB, DNC, S-57
- Extensive planning, management, and execution tools
- Real-time mosaicing with easy export to GIS and Google-Earth

- Compatible with OIC CleanSweep and HarborScan software packages
- Ideal for port-security/changedetection work.
- Optional support for XTF data format.

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	93cm x 8.9cm x 8.9cm	15kg

Technical Specifications

Sonar:	Single- or dual-frequency tow-fish.
Material:	Stainless Steel (316 SS).
Operating Frequency:	Dual: 100/400, 400/900, 400/1250 kHz Single: 400 or 1250 kHz
Beam Angle:	0.3 degree horizontal 40 degree vertical
Depression Angle:	30 degrees down.
Across-track Resolution:	400kHz- 2cm-15cm 1250kHz - 0.75cm-3.375cm
Max Range:	400kHz- 150m 1250kHz- 37.5m
Depth Sensor:	0.25% full scale
Temperature Sensor:	±0.5 degrees.
Towing Speed:	1 < 8 knots.
Operating Depth:	100 m max.