

## 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

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