

Portable Sidescan with true 16-bit resolution

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. The powerful GeoDAS software offers an extensive suite of capabilities common in more expensive systems, including display of real-time mosaicking of sidescan images on top of nautical chart data for effective image location and mission execution, survey planning and advanced target analysis.



The HMS-1400 Sidescan Sonar System

FEATURES/BENEFITS

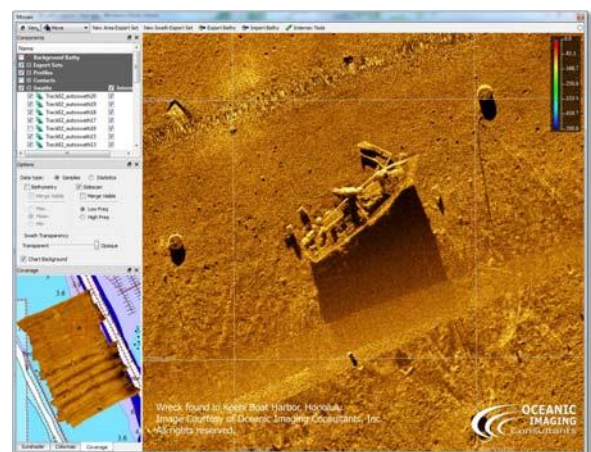
- Single- or dual-frequency towed sonar sensor is easily transported, interfaced, and deployed
- True 16-bit processing provides high resolution images of bottom features
- Powered by GeoDAS software by Oceanic Imaging Consultants (OIC):
 - Automatic bottom tracking
 - Automated processing/contrast enhancement
 - Advanced target analysis/databasing
 - Supports common navigation chart formats - BSB, DNC, S-57
 - Extensive planning, management, and execution tools
 - Real-time mosaicking with easy export to GIS and Google-Earth
 - Compatible with OIC CleanSweep and HarborScan software packages
 - Ideal for port-security/change-detection work.
 - Optional support for XTF data format



Portable, powerful, and easy to use.

APPLICATIONS

- Harbor security and harbor surveys
- Search and rescue operations
- Small-vessel surveys
- Target detection and hazard surveys
- Inspection surveys
- Rapid environmental assessment surveys



Wreck found in Keehi Boat Harbor, Honolulu

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SPECIFICATIONS

Instrument

Sonar:	Single- or dual-frequency towfish	
Material:	Stainless Steel (316 SS)	
Size:	930 x ø89 mm (36.6 x ø3.5 in)	
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	
Transmission Pulse:	400 KHz 15 µs < 100 µs	1250 KHz 5 µs < 25 µs
Across-track Resolution:	2 cm - 15 cm	.75 cm - 3.75 cm
Max Range:	150 m	37.5 m
Depth Sensor:	0.25% full scale	
Temperature Sensor:	±0.5 degrees	
Towing Speed:	1 < 8 knots	
Operating Depth:	100 m max.	
Weight in Air:	15 kg (33 lbs)	

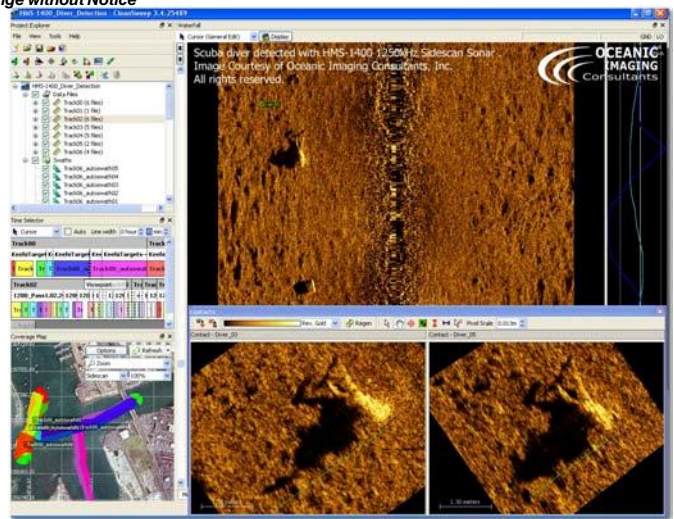
Toughbox

- Panasonic Toughbook laptop
- Waterproof ABS case
- Integrated GPS & sonar interface
- 110/220 VAC or 12 VDC power supply
- GeoDAS Sidescan software installed

Specifications Subject to Change without Notice



HMS-1400 sidescan image indicating bridge scour



Scuba diver detected with HMS-1400 at 1250 kHz

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