

SeaBat 8160

Multibeam Echosounder System



SeaBat 8160

- Swath coverage greater than 4x water depth
- Operational depths 10m to 3000m
- 50kHz (nominal) frequency
- 126 beams
- Hull-mount or portable
- Sidescan upgradable

The SeaBat 8160 provides an unbeatable combination of range, resolution & profitability, a first for a system of this frequency range.

The SeaBat 8160 transducer array is comprised of a linear receive and transmit array mounted together on a support base. The T-shaped array geometry provides the basis for a compact, high-resolution sonar which is easily installed for portable or hull mounts - a first for a high-resolution system in this frequency range.

The system features a pitch-stabilized transmitter and an active roll compensated receiver.

The SeaBat 8160 processor is compatible with other SeaBat sonar heads. It can be updated in minutes to accommodate future requirements and features a user-friendly point-and-click interface.





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SYSTEM PERFORMANCE

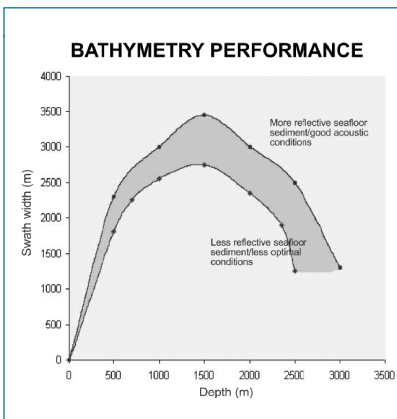
Frequency:	50kHz (nominal)
Depth Resolution:	1.4 / 2.9 / 8.6cm (range dependent)
Swath Coverage:	Greater than 4x water depth
Max Operational Depth:	3000m
Number of Beams:	126
Along-Track Beamwidth:	1.5°, 3.0°, 4.5°, 6.0° (selectable)
Across-Track Beamwidth:	1.5° at nadir (nominal)
Pitch Stabilization:	±10°
Operational Speed:	Up to 20 knots
Max. Update Rate:	15
Transducer Depth Rating:	100m

INTERFACE

System Supply:	115V/230V 50/60 Hz, 350W
Video Display:	SVGA, 800 x 600, 72Hz
System Control:	Trackball or from Ethernet
Data Output:	10MB Ethernet or serial RS232C
Data Uplink:	High-speed digital coax with fiber-optic option
Temperature:	Operating: 0° to +40°C Storage: -30° to +55°C

MECHANICAL INTERFACE

Dimensions:	
Transducer Array:	1474.5 x 1100 x 90.5mm
Processor:	177 x 483 x 417mm
Transceiver:	265 x 483 x 492mm
Weight:	
Hydrophone:	42kg (dry) / 17.5kg (wet) including 15m cable
Processor:	20kg
Transmitter:	37kg (dry) / 18.5kg (wet) including 15m cable



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