



SeaBat 8160

Multibeam Echosounder System



SeaBat 8160

- **Swath coverage greater than 4x water depth**
- **Operational depths 10m to 3000m**
- **50kHz frequency**
- **126 beams**
- **Hull-mount or portable**
- **Meets IHO accuracy**
- **Sidescan upgradable**

The SeaBat 8160 is a new addition to the 8100 series of multibeam echosounders. Operating at 50kHz, the system ensonifies the whole swath in a single ping, generating 126 simultaneous high-resolution receive beams.

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 rollcompensated 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

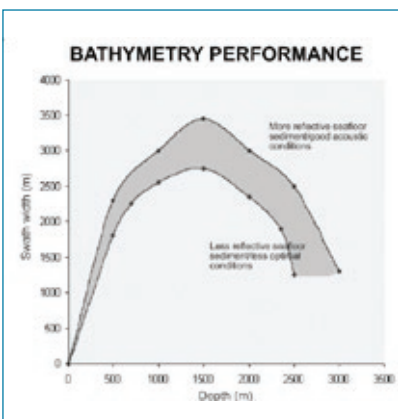
Frequency:	50kHz
Depth Resolution:	1.4 / 2.9 / 8.6cm (range dependent)
Swath Coverage:	Greater than 4x water depth
Max Operational Depth:	3000m
Number of Beams:	126
Along-Track Beamwidth:	1.5°, 3.0°, 4.5°, 6.0° (selectable)
Across-Track Beamwidth:	1.5° at nadir
Pitch Stabilization:	±10°
Accuracy:	IHO Special Order
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 (HWD):	
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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