

SeaBat 8160

PRODUCT SPECIFICATION

MULTIBEAM ECHOSOUNDER SYSTEM



- Swath coverage greater than 4x water depth
- Operational depths 10m to 3000m
- 50 kHz 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 50 kHz, 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 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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SeaBat 8160 SYSTEM SPECIFICATIONS

PERFORMANCE

Frequency:	50 kHz
Depth Resolution:	1.4 / 2.9 / 8.6cm (range dependent)
Swath Coverage:	Greater than 4x water depth
Max Operational Depth:	3000 m
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

MECHANICAL INTERFACE

Dimensions (HWD in mm):

Transducer Array:	1474.5 x 1100 x 90.5
Processor:	177 x 483 x 417
Transceiver:	265 x 483 x 492

Weight:

Hydrophone:	42 kg (dry) / 17.5 kg (wet) including 15m cable
Processor:	20 kg
Transmitter:	37 kg (dry) / 18.5 kg (wet) including 15m cable

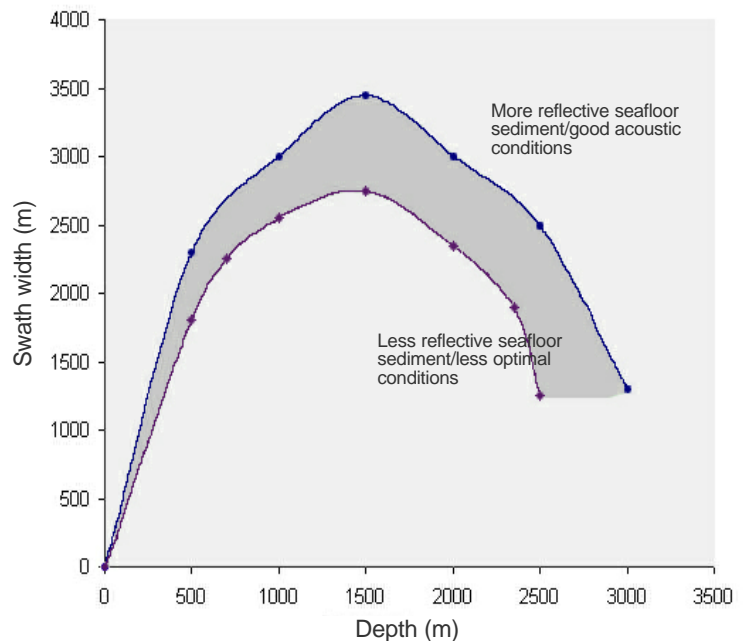


Mounting Frame
Option 034H

INTERFACE

System Supply:	115V/230V 50/60 Hz, 350W
Video Display:	SVGA, 800 x 600, 72 Hz
System Control:	Trackball or from Ethernet
Data Output:	10 MB 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

BATHYMETRY PERFORMANCE



Version: B034 031028

Due to our policy of continuous product improvement,
RESON reserves the right change specifications without notice.

