

SeaBat 8124

PRODUCT SPECIFICATION

MULTIBEAM ECHOSOUNDER SYSTEM



- 200 kHz frequency
- 120° swath coverage
- 40/80 beams
- Amplitude/phase bottom detect
- 100% coverage for condition and pay quantities

Specially designed for harbor and river surveys, the SeaBat 8124 is ideal for condition and pay quantity surveys in support of dredging operations.

Operating at 200 kHz, the SeaBat 8124 multibeam echosounder successfully penetrates the suspended material inherent in dredging operations to accurately measure a profile of the bottom that is 3.5 times the measured water depth. High accuracy, even on the outer beams, is assured by an advanced bottom detection system that incorporates both the amplitude and phase detection methods.

The SeaBat 8124 is a lightweight and portable system—the transducer array is only about 1 square foot in size, which maximizes installation flexibility. Choose temporary or permanent installations, on the hull or over-the-side, on large dredges or small survey vessels operating with limited draft.

Based upon the proven design and architecture of the SeaBat 8100 Series, the SeaBat 8124 is controlled by an intuitive point-and-click menu and monitored by a real-time color display.



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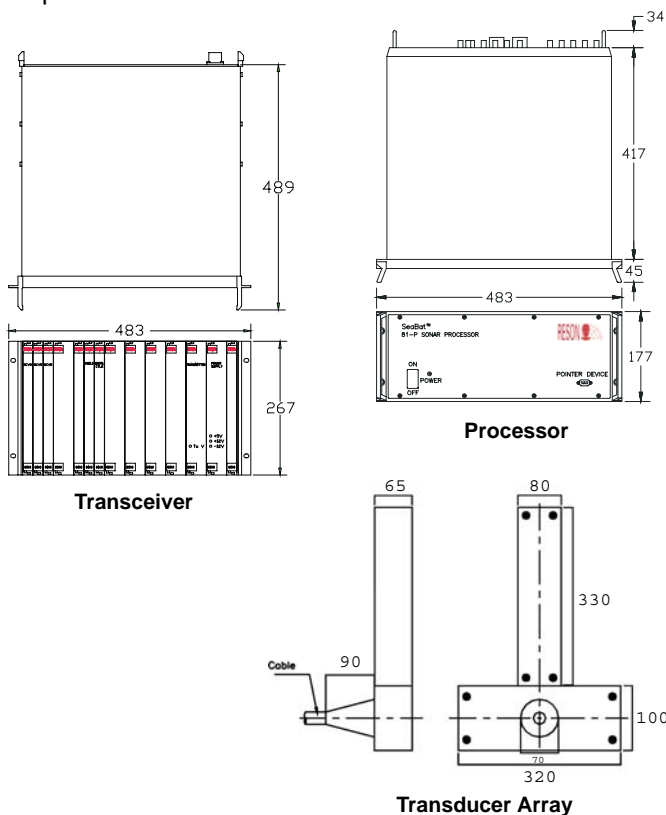
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SeaBat 8124 SYSTEM SPECIFICATIONS

SYSTEM PERFORMANCE

Frequency:	200 kHz
Range Resolution:	1 cm
Swath Coverage:	120°
Min/Max Range:	0.5/300 m
Number of Beams:	40/80*
Along-Track Beamwidth:	2.5°*
Across-Track Beamwidth:	3.0°*
Accuracy:	IHO Compliant
Operational Speed:	Up to 12 knots
Max. Update Rate:	30
Transducer Depth Rating:	100m

*Can be configured as a 1.5° x 1.5° system with Option 064.



INTERFACE

System Supply:	115V/230V 50/60 Hz, 200W max
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

MECHANICAL INTERFACE

Dimensions (HWD in mm):

Transducer Array:	430 x 320 x 65
Processor:	177 x 483 x 417
Transceiver:	267 x 483 x 489

Weight:

Transducer Array:	8.3 kg (dry) / 4.6 kg (wet)
Processor:	20 kg
Transceiver:	13.6 kg

RELATED PRODUCTS

- Option 033C Side-scan upgrade
- Option 048 Sound velocity profiler
- Option 051 24DC power supply for SeaBat 81-P Processor
- Option 064 Upgrade from 40 beams (3° x 2.5°) to 80 beams (1.5° x 1.5°)



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