

SeaBat 8124

Multibeam Echosounder System



SeaBat 8124

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

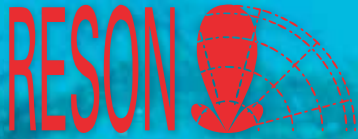
Specially designed for harbor and river surveys, the SeaBat 8124 is ideal for condition and pay quantity surveys in support of dredging operations.

Operating at 200kHz, 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 (30.48cm), 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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SYSTEM PERFORMANCE

Frequency:	200kHz
Range Resolution:	1cm
Swath Coverage:	120°
Min/Max Range:	0.5/750m
Number of Beams:	80
Along-Track Beamwidth:	1.5°
Across-Track Beamwidth:	1.5°
Accuracy:	IHO Compliant
Operational Speed:	Up to 12 knots
Max. Update Rate:	30Hz
Transducer Depth Rating:	100m

INTERFACE

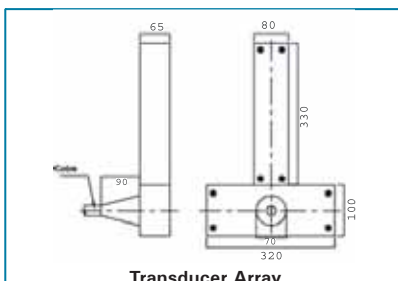
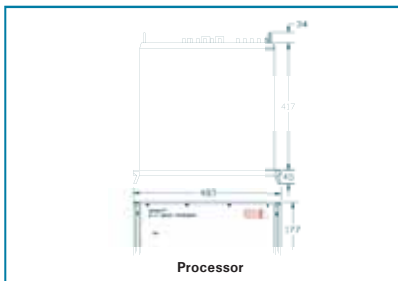
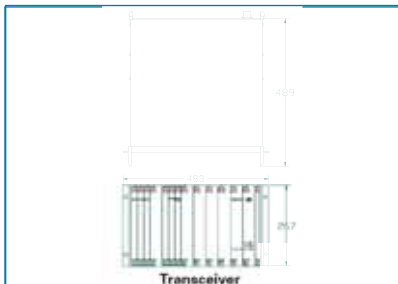
System Supply:	115V/230V 50/60Hz, 200W max
Video Display:	SVGA, 800 x 600, 72Hz
System Control:	Trackball or from Ethernet
Data Output:	10MB Ethernet
Data Uplink:	High-speed digital coax with fiber-optic option
Temperature:	
	Operating: 0° to +40°C
	Storage: -30° to +55°C

MECHANICAL

Dimensions:	
Transducer Array:	430 x 320 x 65mm
Processor:	177 x 483 x 417mm
Transceiver:	267 x 483 x 489mm
Weight:	
Transducer Array:	8.3kg (dry) / 4.6kg (wet)
Processor:	20kg
Transceiver:	13.6kg

OPTIONS

Side-scan upgrade
Sound velocity profiler
24DC power supply for SeaBat 81-P Processor



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