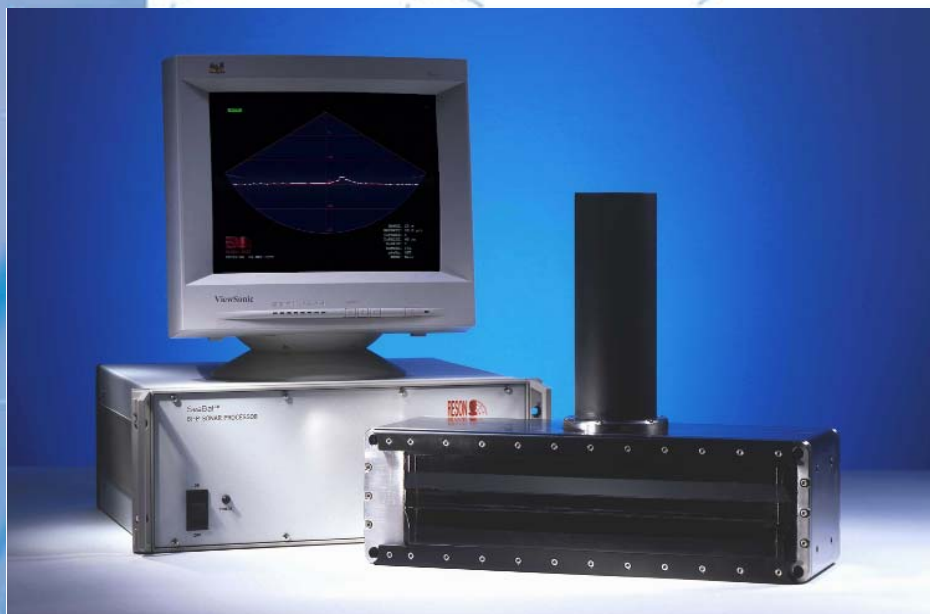




SeaBat 8125

PRODUCT SPECIFICATION

ULTRA HIGH RESOLUTION FOCUSED MULTIBEAM ECHOSOUNDER SYSTEM



- Focused 0.5° beams
- 240 beams
- 2.5 cm near field resolution
- 6 mm depth resolution
- 120° swath coverage

The SeaBat 8125 is the first wide-sector, wide-band, focused multibeam sonar ever to be deployed. Utilizing 240 dynamically focused receive beams, the system measures a 120° swath across the seafloor, detects the bottom, and delivers the measured ranges at a depth resolution of 6 mm. The backscatter intensity image is displayed in real time on the sonar display.

The 8125 can be controlled through its native graphical user interface, or through an external control like the 6042 data collection and navigation software package.

The system can be mounted on a survey vessel or deployed on an ROV at depths down to 1500 m. The high-speed data uplink is carried on a standard SeaBat copper cable for surface installation. A fiber-optical interface is available for ROV deployment.

Two 8125 systems can be configured as a dual-headed system, with Option 011, and for complete control the 6043 image fusion and controller merges the images of the two sonar heads into one.



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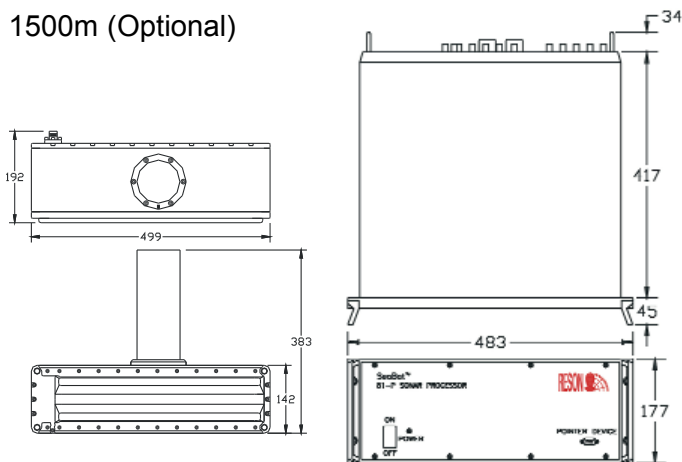
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SeaBat 8125 SYSTEM SPECIFICATIONS

SYSTEM PERFORMANCE

Frequency:	455 kHz
Depth Resolution:	6 mm
Swath Coverage:	120°
Max Range:	120 m
Number of Beams:	240
Along-Track Beamwidth:	1°
Across-Track Beamwidth:	0.5°
Accuracy:	<ul style="list-style-type: none"> • IHO Special Order • U.S. Army Corps of Engineers Special Order
Operational Speed:	Up to 12 knots
Max. Update Rate:	40
Transducer Depth Rating:	600m (Standard) 1500m (Optional)



Dimensions are in mm

INTERFACE

System Supply:	115V/230V 50/60 Hz, 350W 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
Sonar Head Supply:	24V, 4A (from ROV or sonar processor)
Temperature:	Operating: 0° to +40° C Storage: -30° to +55° C

MECHANICAL INTERFACE

Dimensions (HWD):	
Sonar head:	192 x 499 x 383 (depth includes projector)
Processor:	177 x 483 x 417
Transducer Weight:	
600m aluminum version:	24.3 kg (dry) 8.6 kg (wet)
1500m titanium version:	35.2 kg (dry) 19.1 kg (wet)
Processor Weight:	20 kg



Version: B23-PDF-0110

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