

SeaBat 8125

ULTRA HIGH RESOLUTION FOCUSED
MULTIBEAM ECHOSOUNDER SYSTEM



SeaBat 8125

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

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 6mm. 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 data collection and navigation software package.

The system can be mounted on a survey vessel or deployed on an ROV at depths down to 1500m. 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.





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SYSTEM PERFORMANCE

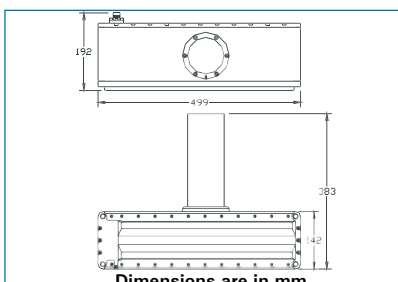
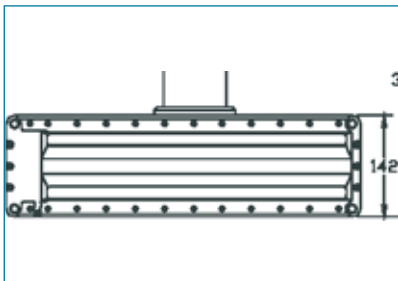
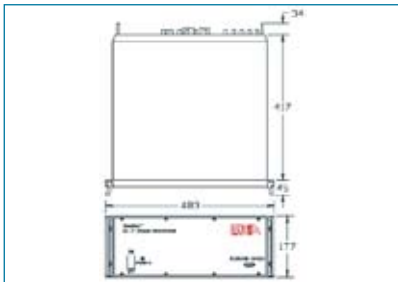
Frequency:	455kHz
Depth Resolution:	6mm
Swath Coverage:	120°
Max Range:	120m
Number of Beams:	240
Along-Track Beamwidth:	1°
Across-Track Beamwidth:	0.5° (at nadir)
Accuracy:	<ul style="list-style-type: none"> IHO Special Order U.S. Army Corps of Engineers Special Order
Operational Speed:	Up to 12 knots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

INTERFACE

System Supply:	115V/230V 50/60Hz, 350W max
Video Display:	SVGA, 800 x 600, 72Hz
System Control:	Trackball
Data Output:	10MB Ethernet or serial RS232C
Data Uplink:	High-speed digital coax with fiber-optic option
Sonar Head Supply:	24VDC, 5.6A Peak, 2A Average (May be supplied from sonar processor)
Temperature:	Operating: 0° to +40°C Storage: -30° to +55°C

MECHANICAL INTERFACE

Power Requirements:	24VDC, 5.6A Peak, 2A Average (May be supplied from sonar processor)
Operating Depth:	600m/1500m
Dimensions:	266 x 320mm (W / D) excluding projector
Temperature:	Operating: -5° to +40°C Storage: -30° to +55°C
Weight (aluminum):	Dry: 26.8kg (59lbs.) Wet: 4.8kg (10.6lbs.)
Weight (titanium):	Dry: 40kg (88lbs.) Wet: 18kg (39.6lbs.)



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