

# SeaBat 8128

Focused Forward-Looking Multibeam Sonar



## SeaBat 8128

- Dynamically focused 0.5° beams
- 240 beams
- 2.5cm near field resolution
- 120° by 17° sector coverage
- 600m and 1500m depth rated

The SeaBat 8128 is the first commercial, wide-sector, wide-band, focused multibeam sonar ever to be deployed. Utilizing 240 dynamically focused receive beams, the system measures a 120° sector. The backscatter intensity image is displayed in real time on the sonar display.

The transducer can be mounted on a surface 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-optic interface is available for ROV deployment.

The SeaBat 8128 can be used for applications such as underwater inspection, damage assessment, search and recovery, and mine detection, classification, and localization. A bathymetry version of the system is also available (see SeaBat 8125).





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## SYSTEM PERFORMANCE

Frequency:	455kHz	
Range Resolution:	2.5cm	
Sector Coverage:	120°	
Max Range:	120m	
Number of Beams:	240	
Horizontal Beamwidth:	Receive:	0.5° (at nadir)
	Transmit:	120°
Vertical Beamwidth:	Receive:	18°
	Transmit:	17°
Max. Update Rate:	40Hz	
Transducer Depth Rating:	600m (Standard)	
	1500m (Optional)	

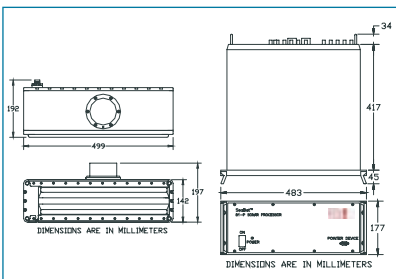
## INTERFACE

System Supply:	115V / 230V 50 / 60Hz, 350W max	
Video Display:	SVGA, 800 x 600, 72Hz	
System Control:	Trackball or from Ethernet	
Data Output:	10MB Ethernet	
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:	197 x 499 x 192mm (height includes projector)	
Processor:	177 x 483 x 417mm	
Transducer Weight:	600m aluminum version:	18kg (dry)
		6kg (wet)
	1500m titanium version:	32kg (dry)
		19.1kg (wet)
Processor Weight:	20kg	

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