



SeaBat 8101

Multibeam Echosounder



SeaBat 8101

- **Phase and amplitude bottom detection**
- **150° swath coverage (upgradeable to 210°)**
- **240kHz frequency**
- **Up to 600m swath width**

The SeaBat 8101 Multibeam Echosounder measures discrete depths, enabling complex underwater features to be mapped with precision. Dense coverage is achieved utilizing up to 4,000 soundings per second for a swath up to 600 meters in width, even as the survey vessel travels at speeds in excess of 12 knots.

With high accuracy and a measurement rate of up to 40 profiles per second, the SeaBat 8101 enables surveys to be completed faster and in greater detail than previously realized.

The SeaBat 8101 transducer is available for operating depths of 120, 300, 1500, and 3,000 meters. Small and lightweight, it can be mounted on underwater vehicles (ROV or towed) and transported to locations where accurate measurements are required.





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SYSTEM PERFORMANCE

Operating Frequency:	240kHz (nominal)
Swath Coverage:	150° (upgradeable to 210°)
Max Range:	300m 450m max range available with ER option
Number of Beams:	101, beamspacing 1.5°
Along-Track Beamwidth:	1.5° (nominal)
Across-Track Beamwidth:	1.5° (nominal)
Max. Update Rate:	40
Operational Speed:	Up to 18 knots

PROCESSOR SPECIFICATIONS

Power Required:	100/240VAC, 47/63Hz, 100W maximum
Data Uplink:	High-speed digital coax with fiber-optic option
Computer Interface:	10MB Ethernet and RS232C
Data Downlink:	Serial, 19.2k baud
Display Video Out:	SVGA: 800 x 600; Refresh Rate: ~72Hz
Graphics Colors:	Sonar Image: 256 Colors Other Graphics: 8-bit RGB
Input Device:	3-Button Trackball
Dimensions (HWD):	177 x 483 x 417mm
Mounting:	19in. rack mountable
Temperature:	Operating: 0° to +40°C Storage: -30° to +55°C
Weight:	20kg (44 lbs.)

DISPLAY SPECIFICATIONS

Screen Size:	14" diagonal
Display:	SVGA High-Resolution, Color Monitor
Power Consumption:	80W
Weight:	11.2kg (24.6lbs.)

SONARHEAD SPECIFICATIONS

Power Requirements:	24VDC, 2 amps max. (Power available from Processor.)
Operating Depth:	120m (300, 1500, and 3000m available)
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.)

OPTIONS

Sidescan upgrade	Mounting plate assembly
Fairings	Spares kit
Titanium housing	210° swath
Extended-Range (ER) projector	Coax to fiber optic interface unit
Increase sonar head depth rating	

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For Acoustical Measurement Accuracy please refer to www.reson.com or contact sales.

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