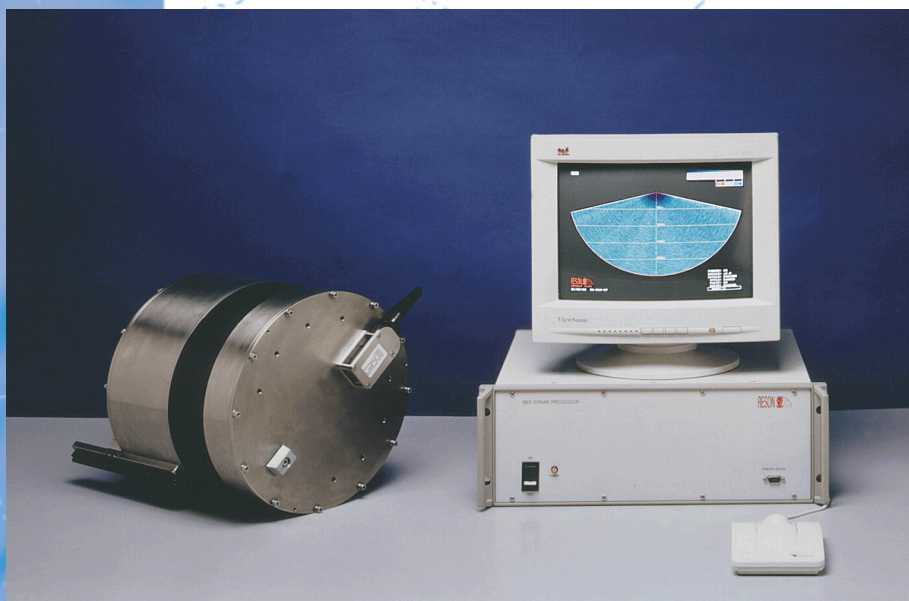




SeaBat 8101

PRODUCT SPECIFICATION

240kHz MULTIBEAM ECHO SOUNDER



- ! **Phase and Amplitude Bottom Detection**
- ! **150° Wide Swath Coverage**
- ! **240 kHz Frequency**
- ! **Up to 500m Range Capability**
- ! **Portable Configuration**
- ! **Meets USACE Class 1 Standards**
- ! **Meets IHO Standards**

The SeaBat 8101 Multibeam Echo Sounder measures discrete depths, enabling complex underwater features to be mapped with precision. Dense coverage is achieved utilizing up to 3,000 soundings per second for a swath that can be over 500 meters wide, even as the survey vessel travels at speeds of over 18 knots.

With high accuracy and a measurement rate up to 30 profiles per second, the SeaBat 8101 enables surveys to be completed faster and in greater detail than previously realized. The SeaBat is an integral part of the new, integrated bathymetry surveying systems.

The SeaBat transducer is available pressurized for depths from 100 to over 3,000 meters. Small and lightweight, it can be mounted on small un-vehicles (ROV, AUV or towed) and taken to where accurate measure required.



RESON A/S
Denmark
Tel: +45 47 38 00 22
Fax: +45 47 38 00 66
E-mail: reson@reson.dk

RESON INC.
USA
Tel: +1 805 964-6260
Fax: +1 805 964-7537
sales@reson.com

RESON OFFSHORE LTD.
United Kingdom
Tel: +44 1224 727 427
Fax: +44 1224 727 428
sales@reson.infotrade.co.uk

<http://www.reson.com>



SeaBat 8101 Built-In Test
Environment ("BITE") Screen

SYSTEM SPECIFICATIONS

Operating Frequency:	240kHz
Range Scales:	5, 10, 15, 20, 25, 35, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500m.
Range Resolution:	1.25 cm
Number of Beams:	101
Horizontal Beamwidth:	1.5°
Horizontal Coverage:	150°
Vertical Beamwidth:	1.5°
Update Rate:	Range-variable up to 30 times per second

SONAR HEAD SPECIFICATIONS

Power Requirement:	24VDC, 2 Amps max. (Power available from surface processor.)
Uplink:	Digital, 76.8 Mbaud
Down Link Control:	RS-232 or RS-422, 19,200 baud
Operating Depth:	100 meters (300m, 1500m, 3000m & 6000m avbl.)
Dimensions:	266x320mm W/Diam (does not include projector)
Temperature:	Operating: -5° to +40°C Storage: -30° to +55°C
Weight (aluminum):	Dry: 26.8 kg (59 lbs) Wet: 4.8 kg (10.6 lbs)
Weight (titanium):	Dry: 40 kg (88 lbs) Wet: 18 kg (39.6 lbs)

DISPLAY SPECIFICATIONS

Screen Size:	14 inch Diagonal
Input:	SVGA (800x600, 72 Hz)
Display:	High Resolution Color
Power Consumption:	62 W

PROCESSOR SPECIFICATIONS

Power Requirements:	115/230VAC, 50/60Hz, 100W max.
Data Output:	Selectable, 300-155.2 Kbaud or Ethernet 10 base T or 10 base 2
Video Output:	SVGA (800x600, 72 Hz) or NTSC or PAL video.
Graphics Colors:	256 colors (8-bit)
Display Mode:	Sector Format
Display Arc:	150°
Input Device:	3-Button Trackball
Dimensions:	19" rack, 4U high (266x483x434mm HWD)
Temperature:	Operating: 0° to +40°C Storage: -30° to +55°C
Weight:	20 kg (44 lbs)



SeaBat 8101 Head
with Optional Fairings

OPTIONS

Option 033:	Side Scan Upgrade
Option 034:	Mounting Plate Assembly
Option 035:	Fairings (pictured above)
Option 036:	Spares Kit
Option 037:	Titanium Housing
Option 038:	210° Swath
Option 040:	Extended-Range Projector
Option 049:	Increase Transducer Depth Rating