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 3000 meters. Small and lightweight, it can be mounted on underwater vehicles (ROV or towed) and transported to locations where accurate measurements are required.
**SYSTEM PERFORMANCE**

- **Operating Frequency:** 240kHz
- **Swath Coverage:** 150° (upgradeable to 210°)
- **Max Range:**
  - 300m
  - 450m max range available with ER option
- **Number of Beams:** 101, beamspace 1.5°
- **Along-Track Beamwidth:** 1.5°
- **Across-Track Beamwidth:** 1.5°
- **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

*Option 049: 274mm

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