



SeaBat® 7101

MULTIBEAM ECHOSOUNDER

Since its release in 1996 the SeaBat 8101 has gained a formidable reputation for performance, reliability and robustness. The new SeaBat 7101 multibeam echosounder brings to the forefront the advanced technology utilised across the range of SeaBat 7000 series multibeam systems. This combination of the well-proven 8101 sonar head and new 7000 series signal processing and data handling provides the ultimate in performance through an easy upgrade path.

A bathymetric sonar operating at 240kHz fitted with either a stick (St) or Extended Range (ER) projector, the 7101 measures up to 511 discrete soundings equally spaced across the wide 150° swath. This equi-distant sounding density combined with realtime roll stabilisation, high accuracy and robust bottom detect provides maximum performance and efficiency in all acoustic environments. Optional, unique 210° coverage option for extremely shallow water or vertical structure surveys.

The SeaBat 7101 transducer is depth rated to 100m and is suitable for installation on ROVs and surface vessels where the high ping rate provides very high efficiency by meeting international survey standards even at high vessel speeds.

The SeaBat 7101 is available as an easy in-situ upgrade or as a complete system.

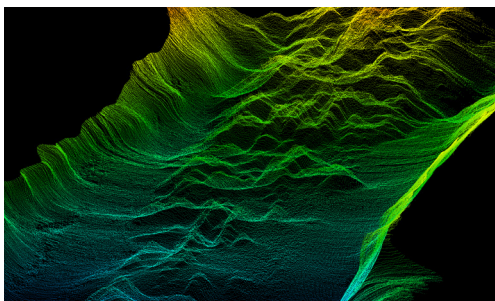
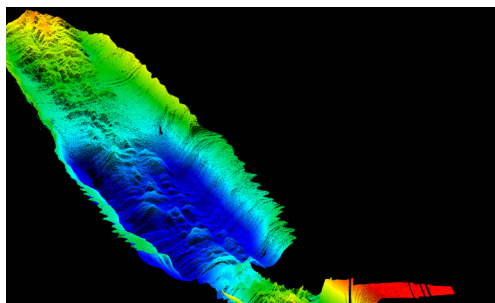
PRODUCT LOGBOOK



SWATH	150° swath coverage providing up to 7.5 x water depth swath coverage
FREQUENCY	240kHz operating frequency provides seamless coverage from 0.5m to 300m depth
HIGH SPEED	High ping rate allows high speed operations without compromising data density
IHO	Compliant with IHO SP44 Ed 5 over entire depth range
DATA	Bathymetry, sidescan, snippets & water column data available over gigabit ethernet
ROLL STABILISATION	Realtime roll stabilisation maximizes usable swath width
SOUNDING DENSITY	Up to 511 equi-distant beams provide extremely high sounding density over the entire swath

SEABAT 7101 SYSTEM SPECIFICATIONS

FREQUENCY	240 kHz
ALONG-TRACK TRANSMIT BANDWIDTH	1,5°
ACROSS-TRACK RECEIVE BEAMWIDTH	1,8°
MAX PING RATE	40Hz
PULSE LENGTH	21µsec to 225 µsec
NUMBER OF BEAMS	101 EA, 239 EA/ED, 511 EA/ED
MAX SWATH ANGLE	150° (210° optional)
DEPTH RESOLUTION	12,5 mm
DATA INTERFACE	Bathmetry, sidescan & snippets. 7K data format. Gigabit Ethernet
POWER REQUIREMENT	110/220 VAC, 50/60 Hz, 500W max
HEAD TO PROCESSOR CABLE LENGTH	25m
SYSTEM DEPTH RATING	100m
PROCESSOR TEMPERATURE OPERATING/ STORAGE	0° C to +40° C, -30° C to +70° C
SONAR HEAD TEMPERATURE OPERATING/ STORAGE	-2° C to +35° C, -30° C to +70° C
SONAR PROCESSOR: HEIGHT, WIDTH, DEPTH [mm]	22, 478, 557
7101-ST: DIAMETER, & LENGTH [mm]	320, 4
7101-ER: DIAMETER, & LENGTH [mm]	320, 5
7101-ST: WEIGHT-KG/ AIR & WEIGHT-KG/ WATER	40, 2
7101-ER: WEIGHT-KG/ AIR & WEIGHT-KG/ WATER	46,1



WHY CHOOSE A SEABAT 7101?

- Ideal for underwater vehicles or rapid deployment onto survey craft
- Flexible upgrade options for increased efficiency
- Wide swath coverage of 150° to a maximum range of 500m to reduce survey time
- Easy upgrade from SeaBat 8101
- Services and Support Agreement (SSA)

For more details visit www.reson.com or contact your local RESON Office.

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