



**EXPEDITION
READY**

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 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 a Composite variant which includes all sensors and software required to conduct a full hydrographic survey, or as a 7101-Flow variant with an incorporated sensor. Both variants are available with a standard or extended range projector in titanium.

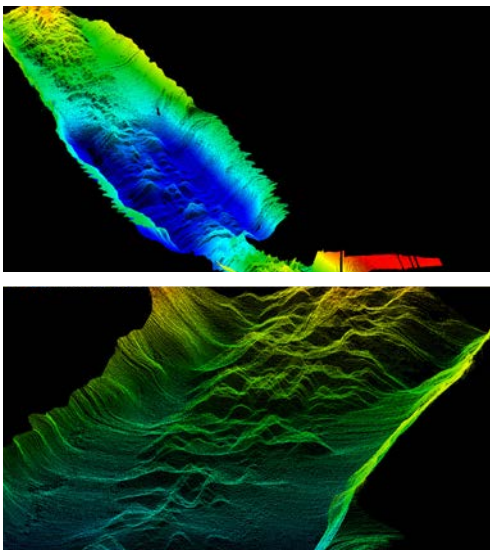
PRODUCT LOGBOOK



SWATH	150° swath coverage providing up to 7.5 x water depth swath coverage. Optional 210° swath
FREQUENCY	240kHz operating frequency provides seamless coverage from 0.5m to 500m max depth (Using ER)
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
WATER COLUMN	Up to 511 beams in selectable modes optimises operations for any survey type

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	Up to 511 beams in selectable mode
MAX SWATH ANGLE	150° (210° optional)
TYPICAL DEPTH	0.5m to 300m (St), 0.5m to 475m (ER)
MAX DEPTH	350m (St), 500m (ER)
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
DEPTH RATING	100m
SEABAT 7101 COMPOSITE	7101-Composite is a full hydrographic survey system based on the 7101 and the Applanix Wavemaster. All required sensors including sound velocity and software is provided.
SEABAT 7101 FLOW	7101-Flow is a specialised version of the 7101 specifically for surveys in sheltered areas such as dams, rivers, lakes, harbours where the effects of motion are limited. The systems consists of a standard 7101 with a motion sensor incorporated inside the sonar head enclosure. The 7101-Flow is available with integrated PDS2000 software, sound velocity and position/ heading sensors.



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
- Optional 210° swath
- Water column data

For more details visit www.reson.com or contact your local RESON Office. RESON reserves the right to change specifications without notice. 2011©RESON

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