



SeaBat® 7125

ULTRA HIGH RESOLUTION MULTIBEAM ECHOSOUNDER

The new generation SeaBat 7125 builds on the field experience and feedback from many users around the world and brings unparalleled resolution and installation flexibility. The system is available in three separate configurations; one designed specifically for installation on small survey vessels and a 6000m depth rated system for either ROV or AUV use.

Each of these configurations utilise the same transducer set and provide identical high performance, superlative data quality, features and ease of use over depths from 0.5m to 500m.

Special emphasis has been put on maximizing operational efficiency and features such as variable swath width and roll stabilisation combined with a high ping rate and excellent data quality.

Surface Vessel Installation - SV2

The new SeaBat 7125-SV2 is a highly integrated single or dual frequency system designed with ease of installation and operation as a high priority. The system consists of a surface transceiver with integrated multiport card and a standard 25m cable run to the transducers. The transceiver hardware is suitable for running data acquisition software and is available with RESON PDS2000 software pre-installed and configured.

ROV2

For deep-water use the ROV version of the SeaBat 7125 has a 6000m depth rating and includes a 6000m rated titanium interface bottle. The system performance and feature set is identical to the other members of the 7125 family thus providing commonality and ease of use.

PRODUCT LOGBOOK



SWATH WIDTH	512 beams and equi-distant footprints providing extremely high density and maximizing swath width
ROLL STABILIZATION	Real-time roll stabilization maximizing usable swath
DEPTH	Dual frequency provides seamless coverage from 0.5 to 500m depth
IHO	Compliance with IHO SP44Ed5 over entire depth range
DIAGNOSTICS	Advanced diagnostics
HIGH SPEED	High ping rate allows high-speed operations without compromising data density

AUV

The AUV version of the 7125 provides on-board data processing and logging as well as interface to third party sensors. The electronics are supplied mounted on an aluminium frame for ease of integration and an optional 6000m depth-rated titanium electronics housing is available. The 7125-AUV provides high quality data and performance commensurate with the other versions of the 7125.

SEABAT 7125 SYSTEM SPECIFICATIONS

	7125 SV2	7125 ROV2	7125 AUV
POWER REQUIREMENT	111/220 VAC, 50/60 Hz 500W average	48V DC ($\pm 10\%$) 110W max	48V DC ($\pm 10\%$) 200W max
TRANSDUCER CABLE LENGTH	25m standard	3m standard 10m optional	3m standard 10m optional
LCU TO PROCESSOR CABLE LENGTH	N/A	25m (ST), 6m, 5m (pigtail)	N/A
SYSTEM DEPTH RATING	25m	6000m	6000m optional
FREQUENCY	200kHz or 400kHz (dual frequency available)		
ALONG-TRACK TRANSMIT BEAMWIDTH	2.2° ($\pm 0.5^\circ$) at 200kHz & 1° ($\pm 0.2^\circ$) at 400kHz		
ACROSS-TRACK RECEIVE BEAMWIDTH	1.1° ($\pm 0.05^\circ$) at 200kHz & 0.54° ($\pm 0.03^\circ$) at 400kHz		
MAX PING RATE	50Hz (± 1 Hz)		
PULSE LENGTH	33µsec to 300µsec		
NUMBER OF BEAMS	256EA/ED at 200kHz, 256EA, 512EA/ED at 400kHz		
MAX SWATH ANGLE	128° (140°)		
DEPTH RESOLUTION	6mm		
DATA OUTPUT	Bathmetry, sidescan and snippets 7K data format		
DATA TRANSFER	Ethernet, 1 Gbit		
TEMPERATURE: OPERATING, STORAGE	-15° to +35°C, -30°C to +55°C		

COMPONENT	7125 SV2	7125 ROV2	7125 AUV
EM 7216 RECEIVER	✓	✓	✓
TC 2181 DUAL FREQUENCY 200/ 400 kHz PROJECTOR	✓		
TC 2160 400kHz PROJECTOR		✓	✓
TC 2163 200kHz PROJECTOR (OPTIONAL)		✓	✓
7-LINK CONTROL UNIT		✓	
SONAR PROCESSOR UNIT WITH MONITOR, KEYBOARD AND POINTER DEVICE		✓	
SV TRANSCEIVER WITH MONITOR, KEYBOARD AND POINTER DEVICE	✓		
7-I INTEGRATED CONTROL AND PROCESSOR UNIT			✓
STANDARD CABLE SET	✓	✓	✓
SHIPPING CASES, MANUALS & ACCESSORIES	✓	✓	✓

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

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SEABAT 7125 SYSTEM SPECIFICATIONS

	Height [mm]	Width [mm]	Depth [mm]	Weight [kg/air]	Weight [kg/water]
TC 2181 DF 200/ 400 kHz PROJECTOR	87	93	280	4.5	3.4
TC 2160 400 kHz PROJECTOR	77	62	285	2.7	1.7
TC 2163 200kHz PROJECTOR	115	100	280	7.5	5
EM 7216 200/400 kHz RECEIVER	137	496	102	10.7	5.7
SURFACE TRANSCIEVER	5U	19"	557	20	N/A
LCU BOTTLE	530	Ø174	N/A	15.7	5.2
ICPU FRAME	172	166	497	10	N/A
SONAR PROCESSOR	5U	19"	630	30	N/A

OPTIONS:

Mounting Bracket with Fairing

SVP-70 sound velocity profiler with 25m cable

Extended warranty/ support & maintenance contracts

Fiber-optic conversion fro ROV installations

Full calibration (calibrated backscatter) (includes 1 TB external RAID)



7125SV2



7125 ROV2

WHY CHOOSE A SEABAT 7125 SYSTEM?

- Single portable sonar control interface and processor
- Single or dual-frequency operations (200 and/or 400kHz) to ensure operational flexibility
- Variable swath coverage of up to 128° (140°) to a maximum range of 500m
- Services and Support Agreement (SSA)

For more details visit www.reson.com or contact your local RESON Office. RESON reserves the right to change specifications without notice. 2010©RESON

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