Teledyne RESON

SeaBat® T50-P

Ultra high resolution portable Multibeam Echosounder



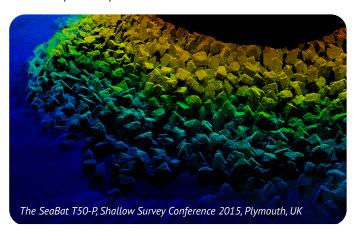


Unprecedented clean and ultra high data quality for faster operational surveys and reduced processing time

The SeaBat T50-P is the new addition to the leading SeaBat T-series product range, engineered from the ground up to evolve with your business. Combined with the Portable Sonar Processor, the SeaBat T50-P provides unprecedented survey data, providing faster operational surveys and reduced processing time.

The SeaBat T50-P is fully frequency agile from 190 to 420 kHz, allowing for improved swath performance and reduced survey time under difficult conditions.

The SeaBat T50-P is designed for fast mobilization on smaller vessels. The Portable Sonar Processor and sonar head form a compact system, securing minimal interfacing and low space requirements.



SeaBat T50-P standard configuration

Portable Sonar Processor

- Reduced cable connections fast mobilization
- Single-point, accurate, sensor time-tagging
- Water-resistant IP54 rated
- 24VDC and 100-230VAC for maximum flexibility
- 25m cable to wet-end components

T50 sonar head assembly

- 190 420kHz wide-band
- Robust titanium housing
- · Less than 8kg in water

PRODUCT BENEFITS

- Unprecedented clean and ultra high data quality for faster operational surveys and reduced processing time
- Fully frequency agile from 190 to 420 kHz, allowing for improved swath performance and reduced survey time under difficult conditions
- Designed for smaller vessel portable use. The compact system allows for fast mobilization, mininal interfacing and low space requirements
- Significantly reduced amount of data collected with the intelligent data reduction algorithms in the compressed water column feature



LD16921-

Teledyne RESON SeaBat® T50-P

SEABAT T50-P SYSTEM SPECIFICATIONS

Input voltage	24VDC or 100-230VAC 50/60Hz		
Power (typical / max)	150W / 300W		
Ingress protection	Water resistant (IP54)		
Transducer cable length	25m (standard) Optional: 10m, 50m or 100m		
Temperature (operational / storage)	Portable Sonar Processor: -5°C to +45°C / -30°C to +70°C		
	Sonar wet-end: -2°C to +36°C / -30°C to +70°C		

	Height [mm]	Width [mm]	Depth [mm]	Weight [kg/air]	Weight [kg/water]	
T50 Rx (EM7218)	102.0	460.0	90.7	8.2	3.9	
T50 Tx (TC2181)	86.6	93.1	280	5.4	3.4	
Portable Sonar Processor	131	424	379	14	N/A	
T50 Acoustic performance	400kHz (max. frequency)			200	kHz (min. frequency)	
Across-track receiver beam width ¹	0.5°			1°	1°	

T50 Acoustic performance	400kHz (max. frequency)	200kHz (min. frequency)		
Across-track receiver beam width ¹	0.5°	1 °		
Along-track beam width ¹	1°	2°		
Number of beams	Min 10, Max 1024			
Swath coverage (up to)	150° Equi Distant, 165° Equi Angle			
Typical Depth (CW²)	0.5-200 meters	0.5-400 meters		
Max Depth (CW³)	250 meters	475 meters		
Typical Depth (FM²)	0.5-225 meters	0.5-550 meters		
Max Depth (FM³)	300 meters	575 meters		
Ping rate (range dependent)	Up to 50 pings/s			
Sample rate	34 kHz or 66 kHz			
Pulse length (CW)	15 – 300μs			
Pulse length (FM)	300μs – 10ms			
Depth resolution	6 millimeters			
Depth rating (sonar head)	50 meters			

For relevant tolerances for dimensions above and detailed outlined drawings see Product Description

- 1 Nominal values
- 2 This is a depth range within which the system is normally operated, from the minimum depth to a depth value corresponding to the max. swath -50%.
- 3 This is the single value corresponding to the depth at which the swath is reduced to 10% of its max. value. For actual swath performance refer to Product Description.
- 4 An extinction coverage of +/-20° is observed at about 530 meter water.

T50-P Scope of supply

- Receiver EM7218
- Projector TC2181
- Portable Sonar Processor
- 25m Receiver cable
- 25m Projector cable
- Waterproof cable set
- Wet-end bracket
- 3-year warranty

Optional extra features

- 10m, 50m or 100m cable
- Hydro dynamic fairing
- Dual head bracket
- Motion and positioning sensors
- RESON Sound Velocity Probes
- Teledyne PDS Survey Package
- RESON Service Level Agreements
- Normalized backscatter
- X-Range improve range and reduce external noise
- Multi-Detect multiple detections for enhanced detail over complex features and water column targets
- FlexMode increase data density where you need it most
- Pipe Detection & Tracking optimize detection of pipes
- Full rate dual head across the entire frequency range



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