

Reson T50-P System



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.

Key Features

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, minimal interfacing and low space requirements

Significantly reduced amount of data collected with the intelligent data reduction algorithms in the compressed water column feature

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 or 50m	
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	
T50 Rx (EM7218):	H: 102mm W: 460.0mm D: 90.7mm Wt.: 8.2kg/air Wt.: 3.9kg/water	
T50 Tx (TC2181):	H: 86.6mm W: 93.1mm D: 280mm Wt.: 5.4kg/air Wt.: 3.4kg/water	
Portable Sonar Proc.:	H: 131mm W: 424mm D: 379mm Wt.: 14kg/air Wt.: N/A	
T50 Acoustic Perf.:	400kHz (max. frequency)	200kHz (min. frequency)
Across-track receiver beam width ¹ :	0.5°	1°
Along-track beam width:	1°	2°
Number of beams:	Min 10, Max 1024	
Swath coverage (up to):	150° Equi Distant, 170° Equi Angle	
Typical Depth (CW ²):	0.5-150 meters	0.5-375 meters
Max Depth (CW ³):	250 meters	550 meters
Typical Depth (FM ²):	0.5-180 meters	0.5-450 meters
Max Depth (FM ³):	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 / FM: 300µs - 10ms	
Depth resolution:	6 millimeters	
Depth rating (sonar head):	50 meters	