

SeaBat[®] T20-P

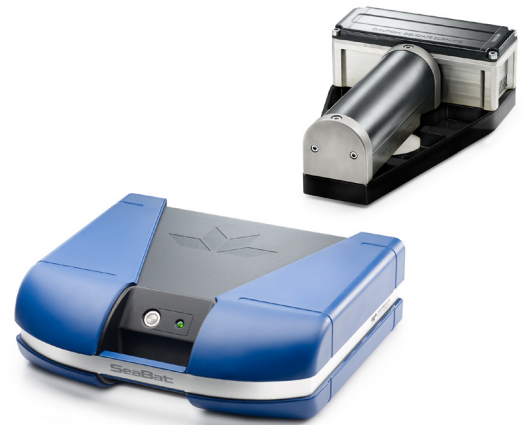
High resolution multibeam echosounder

Superior acoustic quality engineered for the demanding marine environment

The T20-P is a new addition to the leading SeaBat product range engineered from the ground up to evolve with your business. Combined with the Portable Sonar Processor the T20-P provides uncompromised survey data in a highly portable waterproof package designed for small vessel use.

The solution includes a range of powerful software features at an attractive price, with the option for future feature expansions to grow with your needs.

The T20-P can be supplied in ruggedized flight cases with total weight and dimensions suitable for check-in on commercial airlines and can be transported by one person.



T20-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
- 10m cable to wet-end components

T20 sonar head assembly

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

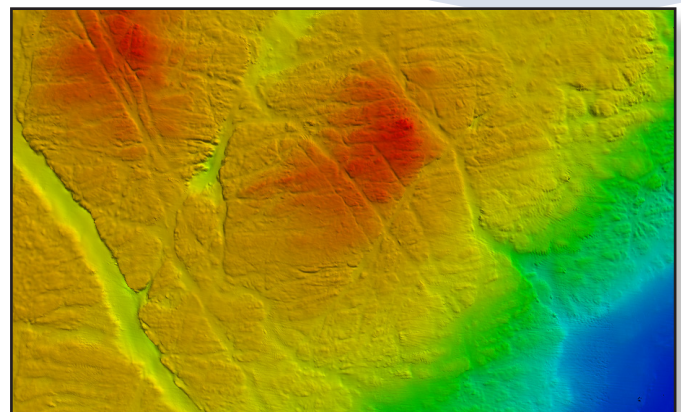
PRODUCT FEATURES & BENEFITS

Features

- **Sonar User Interface** – highly configurable to suit your needs.
- **Snippets & sidescan backscatter**
- **Full water column backscatter**
- **Tracker** – powerful tool for automated control
- **Selectable Beam Density** – you can define what you need to get the job done

Optional extra features

- **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** – unique to SeaBat, optimize detection of pipes
- **Full Rate Dual Head** – simultaneous pinging of both heads to ensure high along track resolution
- **Normalized backscatter** – designed for accurate, reliable and repeatable seabed classification



3 years warranty

Our hardware is quality-tested to meet the most demanding standards, and backed by the full support of our comprehensive after-sales program, and 3 years of warranty you can be sure that the T20-P won't let you down.



TELEDYNE MARINE
RESON
 Everywhereyoulook™

SeaBat T20-P High resolution multibeam echosounder



SEABAT T20-P SYSTEM SPECIFICATIONS

Input voltage	24VDC or 100-230VAC 50/60Hz
Power (typical / max)	200W / 300W
Ingress protection	Water resistant (IP54)
TRANSDUCER CABLE LENGTH	10m (standard), 25m, 50m, 100m (optional)
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]
T20 Rx (EM7219)	102.0	254.0	123.0	5.0	2.2
T20 Tx (TC2181)	86.6	93.1	280	5.4	3.4
Portable Sonar Processor	131	424	379	14	N/A

T20 Acoustic performance	400kHz (max. frequency)	200kHz (min. frequency)
Across-track receiver beam width¹	1° (center)	2° (center)
Along-track beam width¹	1°	2°
Number of beams	Min 10, Max 1024	
Swath coverage (up to)	140° Equi distance 170° Equi Angle (12x water depth with dual head)	
Typical Depth (CW)²	0.5-150 meters	0.5-375 meters
Max Depth (CW)²	250 meters	550 meters
Typical Depth (FM)²	0.5-180 meters	0.5-450 meters
Max Depth (FM)²	300 meters	575 meters
Ping rate (range dependent)	Up to 50 pings/s	
Pulse length (CW)	15 – 300µs	
Pulse length (FM)	300µs – 10ms	
Depth resolution	6mm	
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.

T20-P SCOPE OF SUPPLY

- Receiver EM7219
- Projector TC2181
- Portable Sonar Processor
- 10m Receiver cable
- 10m Projector cable
- Waterproof cable set
- Wet-end bracket

OPTIONAL EXTRAS

- Normalized backscatter
- 25m, 50m, 100m cable
- Fairing
- Dual head bracket
- Motion and positioning sensors
- RESON Sound Velocity Probes
- RESON Teledyne PDS Survey Package
- RESON Service Level Agreements (SLA)



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