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

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.

PRODUCT BENEFITS

Product 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
- Max 512 Beams
# SEABAT T20-P SYSTEM SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>Height [mm]</th>
<th>width [mm]</th>
<th>depth [mm]</th>
<th>weight [kg/air]</th>
<th>weight [kg/water]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>T20Rx (EM7219)</strong></td>
<td>102.0</td>
<td>254.0</td>
<td>123.0</td>
<td>5.0</td>
<td>4.2</td>
</tr>
<tr>
<td><strong>T20Tx (TC2181)</strong></td>
<td>86.6</td>
<td>93.1</td>
<td>280</td>
<td>5.4</td>
<td>3.4</td>
</tr>
<tr>
<td><strong>Portable Sonar Processor</strong></td>
<td>131</td>
<td>424</td>
<td>379</td>
<td>14</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**T20 Acoustic performance**

- **Across-track receiver beam width**: 1° (center)
- **Along-track beam width**: 2° (center)
- **Number of beams**: Min 10, Max 256 (Optional 512)
- **Swath coverage (up to)**: 140° Equi distance 165° Equi Angle (12x water depth with dual head)
- **Typical Depth (CW)**: 0.5-150 meters
- **Max Depth (CW)**: 250 meters
- **Typical Depth (FM)**: 0.5-180 meters
- **Max Depth (FM)**: 300 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
- 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)