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, minimal interfacing and low space requirements
- Significantly reduced amount of data collected with the intelligent data reduction algorithms in the compressed water column feature
SeaBat T50-P

SEABAT T50-P SYSTEM SPECIFICATIONS

<table>
<thead>
<tr>
<th>Input voltage</th>
<th>24VDC or 100-230VAC 50/60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power (typical / max)</td>
<td>150W / 300W</td>
</tr>
<tr>
<td>Ingress protection</td>
<td>Water resistant (IP54)</td>
</tr>
<tr>
<td>Transducer cable length</td>
<td>25m (standard) Optional: 10m, 50m or 100m</td>
</tr>
<tr>
<td>Temperature (operational / storage)</td>
<td>Portable Sonar Processor: -5°C to +40°C / -30°C to +70°C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>T50 Rx (EM7218)</th>
<th>Height [mm]</th>
<th>102.0</th>
<th>Width [mm]</th>
<th>460.0</th>
<th>Depth [mm]</th>
<th>90.7</th>
<th>Weight [kg/air]</th>
<th>8.2</th>
<th>Weight [kg/water]</th>
<th>3.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>T50 Tx (TC2181)</td>
<td></td>
<td>86.6</td>
<td></td>
<td>93.1</td>
<td>280</td>
<td></td>
<td>5.4</td>
<td></td>
<td>3.4</td>
<td></td>
</tr>
<tr>
<td>Portable Sonar Processor</td>
<td></td>
<td>131</td>
<td></td>
<td>424</td>
<td>379</td>
<td>14</td>
<td>N/A</td>
<td></td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

T50 Acoustic performance

<table>
<thead>
<tr>
<th>400kHz (max. frequency)</th>
<th>200kHz (min. frequency)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Across-track receiver beam width¹</td>
<td>0.5°</td>
</tr>
<tr>
<td>Along-track beam width¹</td>
<td>1°</td>
</tr>
<tr>
<td>Number of beams</td>
<td>Min 10, Max 512</td>
</tr>
<tr>
<td>Swath coverage (up to)</td>
<td>150° Equi Distant, 165° Equi Angle</td>
</tr>
</tbody>
</table>

Typical Depth (CW²) 0.5-200 meters 0.5-400 meters
Max Depth (CW²) 250 meters 475 meters
Typical Depth (FM³) 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

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

For more details visit www.teledyne-reson.com or contact your local Teledyne RESON Office. Teledyne RESON reserves the right to change specifications without notice. 2015©Teledyne RESON