Revolutionize subsea pig tracking with subsea receivers proven to reduce costs and improve data collection.

Offshore & Subsea Receivers
SMART, SIMPLE & FAST UNDERWATER PIG TRACKING

Offshore operations are expensive. Reduce subsea pig tracking costs by using the Propipe Trident line of subsea receivers to quickly and accurately track subsea pigs with multiple technologies in a single unit.

The Propipe Trident line of underwater pig tracking receivers includes ROV mounted, and diver held systems.
Today, more than ever, pipelines need to be safer & more efficient.

Turbulent Research pipeline solutions combines world class intelligent pig tracking and communication technologies with simple, easy to use, powerful data collection and software visualization and analysis tools.

Offshore and Subsea Receivers

Users can track subsea pigs using the Trident digital receiver system for remotely operated vehicles (ROVs), in combination with PigView-RealTime software.

Our receiver systems are capable of tracking pigs equipped with either acoustic OR electromagnetic beacons, allowing ROVs to be installed with a single piece of hardware for both long range pig tracking or applications requiring centimeter level accuracy.

Users can track multiple technologies in a single run, or use the DeepBlue receiver for multiple jobs requiring either acoustic or electromagnetic pig tracking technologies. Additionally, multiple pigs can be tracked at the same time using different acoustic or EM frequencies or codes. Any frequency acoustic pinger or EM transmitter can be tracked seamlessly.

- Simple ROV integration
- Track multiple pigs at once
- Track EM and acoustic pigs
- Receive data from in-situ pigs

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>DEEPBLUE</th>
<th>TRIDENT D200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Material</td>
<td>Composite Tube/Titanium</td>
<td>Acetal/Stainless Steel</td>
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<tr>
<td>Weight (in air)</td>
<td>12.5kg</td>
<td>10.5kg</td>
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<tr>
<td>Operating Depth</td>
<td>3000m</td>
<td>200m</td>
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<tr>
<td>Power Source</td>
<td>+9V to +30V</td>
<td>+9V NiMh</td>
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<tr>
<td>Signal Output</td>
<td>RS232 or Ethernet</td>
<td>LCD Screen / Ethernet</td>
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<tr>
<td>Output Connector Type</td>
<td>to match ROV</td>
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</tr>
<tr>
<td>Input Connector Type</td>
<td>8 Way Micro Sub-Con</td>
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<tr>
<td>Pressure Relief Valve (Internal)</td>
<td>10 PSI</td>
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<tr>
<td>Operating Temperature</td>
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<tr>
<td>Length</td>
<td>280.0mm</td>
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<tr>
<td>Diameter</td>
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</tbody>
</table>
**Trident DeepBlue**

Acoustic + Electromagnetic Digital Subsea Pig Tracking System for ROVs

Tracking subsea pigs has never been easier, faster and more cost effective. The Propipe Trident pig tracking receiver combines acoustic and electromagnetic pig tracking capabilities in a single unit, saving operators both capital investment and integration costs.

The DeepBlue ROV system is an all-digital implementation where users can stream broadband pig tracking information back to topside over Ethernet or RS232 and track and record pigs using our proprietary software PigView-RealTime.

**Trident D200**

Simple Acoustic + Electromagnetic Pig Tracking System for Divers

Divers can now locate subsea acoustic or electromagnetic pigs easier and faster than ever before. The Propipe Trident D200 diver pig tracking receiver combines acoustic and electromagnetic pig tracking capabilities in a single unit with a bright easy to understand subsea OLED display.

The D200 receiver is a digital signal processing implementation that allows users to equip either an underwater electromagnetic antenna, or broadband hydrophone to the unit to help locate any stuck or lost pig quickly.

**PigView Software Suite**

Tracking and recovering subsea pipeline data has never been easier.

The free software tools that are included with our receiver systems unleash the full power of the Propipe Trident line of subsea receivers. Data from in-situ pigs including gauge plate status can be recovered in real time with through pipe communications streamed over the ROV umbilical to our real time software interface.
Turbulent Research is a high technology company built on the talent in engineering, signal processing, and product development of its employees.

Founded in 2013, Turbulent Research began by building a broad range of underwater acoustic products for subsea use in oil & gas, underwater construction and ocean science.

In 2015, Turbulent Research teamed up with Propipe Ltd., a major player in the design & manufacture of pipeline pigs in the UK to develop new subsea acoustic pig tracking products.

PiggingSmarter.com

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