Subsea Exploration

Subsea Oil & Gas Solutions
With ever increasing pressure on E&P activities worldwide, operators are pushing the boundaries of offshore applications. As depth, pressure and environmental conditions increase, businesses come to Rayotek for ideal solutions to their sight window needs. Offering the best in OTS (off-the-shelf) and full custom sight window products, Rayotek’s customers can more confidently meet the challenges of subsea development.

Subsea Exploration, Research & Geoscience Solutions
The modern age of humanity has experienced scientific growth and exploration far beyond the imagination of previous generations. The subsea world offers a vast expanse of opportunities, including: species diversity studies and conservation, global climate mapping and prediction, new food and medical sources, renewable energy sources, prediction of geological activity and disaster aversion.

Scientists and researchers can rely on Rayotek’s engineering and sight window manufacturing to generate products that work within the ever expanding realm of subsea exploration.

Applications

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<tr>
<th>EQUIPMENT TYPE</th>
<th>INDUSTRY</th>
<th>PRODUCT TYPE</th>
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<tbody>
<tr>
<td>• ROV</td>
<td>• Scientific Research</td>
<td>• Camera Domes</td>
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<tr>
<td>• UAV</td>
<td>• Retrofits</td>
<td>• Subsea Windows</td>
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<tr>
<td>• Manned Submersible</td>
<td>• Subsea Geosurveying</td>
<td>• Instrument Portals</td>
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<td>• Installations</td>
<td>• Pipeline &amp; Trench Systems</td>
<td>• Inspection Portals</td>
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<td>• Surface Vessel/Ship</td>
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Features & Benefits

- **Pressure Ratings**: highest in the industry (custom applications up to 50 KPSI)
- **Material Combinations**: multiple, including: NACE compliant & super alloy metals with borosilicate, sapphire, fused quartz & soda lime
- **Configurations**: Tek-Glass Fused Glass is mechanically pre-stressed & used to eliminate cracking-based failures & unexpected ruptures
- **Interfaces**: a variety of threaded & flanged options, plus custom connection designs
- **Engineered & Manufactured In-House**: 100% at Rayotek’s San Diego, USA facility

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<th>FEATURES</th>
<th>OPTIONS</th>
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<tbody>
<tr>
<td>TYPE</td>
<td>Threaded, Flanged, Custom</td>
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<tr>
<td>INTERFACE</td>
<td>Dome, Window, Lens</td>
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<tr>
<td>ASSEMBLY TYPE</td>
<td>Fused, Bonded, Gasket/Ring (Backside Seal)</td>
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<tr>
<td>MATERIALS</td>
<td>Sapphire, Borosilicate, Fused Silica, Fused Quartz, BK7 (BSL7)</td>
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<td>SIZE RANGE</td>
<td>0.010” to 120” Range</td>
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<td>PRESSURE RATING</td>
<td>From Full Vacuum up to Challenger Deep (~36,000 ft/~16,000 PSI)</td>
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AS9100D Certified & ITAR Registered

INDUSTRIES SERVED: AEROSPACE, PULP & PAPER, MINING, CHEMICAL INDUSTRIAL, OIL & GAS AND MORE!