The Panther XT is a development of the highly successful Panther and Panther Plus ROVs. The adaptable Panther XT is designed as the new benchmark for electric work ROVs and challenges heavier hydraulic vehicles, where deck space is at a premium.

With fibre optic video & data multiplexer incorporated to enhance deep water operations, the vehicle's power has been increased through the doubling the supplied voltage to 500 volts. This improves handling and enables the vehicle to accommodate a wider range of heavier tooling for work tasks including drill support, pipeline survey and IRM to water depths of 1500 m.

The Fugro Subsea Services Panther XT ROV is deployed in garage Tether Management System (TMS) A skid mounted ‘A’ frame, hydraulic power unit (HPU) and a winch with a steel wire armoured lift umbilical which is the most common Launch and Recovery System (LARS) provided with the Panther-XT.

The Panther XT deck equipment is both much smaller and lighter than a conventional hydraulic work-class ROV, with reduced footprint and power requirements and thus mobilisation is fast.
## SEA'EYE PANTHER XT

### Technical Specifications

#### Vehicle Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1.75m</td>
</tr>
<tr>
<td>Height</td>
<td>1.22m</td>
</tr>
<tr>
<td>Width</td>
<td>1.06m</td>
</tr>
<tr>
<td>Weight</td>
<td>500kg</td>
</tr>
<tr>
<td>Depth</td>
<td>1500msw</td>
</tr>
<tr>
<td>Payload</td>
<td>110kg</td>
</tr>
</tbody>
</table>

#### Power

- **Propulsion**: 16Kva
- **Tooling**: 11Kva

#### Performance

- **Fore/aft**: 180kg
- **Lateral**: 125kg
- **Vertical**: 110kg

#### Speed

- **Fore/aft**: 3.0 knots
- **Lateral**: 2.8 knots

#### Thrusters

Seayee SM7 500 brushless DC Motors - 4 x Vectored horizontal, - 2 x Vertical

#### Manipulators

1x 6 function HD6R with HD2040 12" grabber  
1x 5 function HDS, 6" jaws, 360° rotator (36Nm)

#### Pan & Tilt

- **Tilt Unit**: ± 90 deg  
- **Pan Unit**: ±135deg  
  - both units with positional feedback displayed on overlay.

#### Cameras

- **1 x Colour CCD Camera**  
- **1 x Low Light, Black & White Camera**  
  - (optional – up to 4 video channels including zoom)

#### Sensors

- **Heading – gyro compass**  
- **Pitch and roll, Depth, Altimeter, Sonar**

#### Lights

- **System capacity up to 6**  
- **Standard capability 4 x 150W**

#### Telemetry

- **Fibre optic multiplexer 4 x RS232, 2 xx RS485 10/100 Ethernet (optional).**

#### Auto Functions

- **Auto depth control**  
- **Auto altitude control**  
- **Auto heading control**

#### Tooling Skids/Packages

- **Survey Skid**: Comprising camera booms, 5F manipulator for CP or cleaning brush.  
- **Drill Support Package**: Anvil Cable cutter, ax ring tool and water jet tool. Torque tool, Single point TDU

#### Surface control system

- **Microprocessor**  
- **Operating system**

#### Power Requirements

- **Launch and recovery System**: 37Kw / 440VAC / 50-60Hz, fed from a motor rated breaker  
- **Control Van**: 50Kw / 440VAC / 50-60Hz, fed from a motor rated breaker

#### TMS

- **TMS Type**: 8  
- **Length**: 1.792m  
- **Width**: 1.491m  
- **Height**: 2.48m  
- **Tether Length**: 200m (up to 250m)  
- **Weight**: 0.95T (excluding ROV)

#### Main Components

- **Remotely Operated vehicle (ROV)**  
- **Tether Management System (TMS)**  
- **20ft Control Container / workshop (combined) or 15ft Control Container and 10ft Workshop.**  
- **Integrated LARS: A-Frame incorporating winch and HPU.**  
  - **Typical Integrated A-Frame LARS**: 5.3m x 2.75m x 3.2m (L x W x H) @ 19T
  - **Suitable for use in a Hazardous Environment (Zone 2).**