



# FUGRO SEAEYE PANTHER PLUS

**Seaeye Panther Plus is a light weight work class ROV & an evolution of the Seaeye Panther to provide greater power, payload & interface options. Forward thrust has been doubled to an impressive 220 kg and lateral thrust increased from 85 kg to 170 kg with a relatively small increase of the vehicle's in air weight to 500 kg. Payload has been increased to 105 kg.**

The Fugro Subsea Services fleet of Panther ROVs have been used to good effect in general drill support, completions, workovers, pipeline survey, platform survey, light construction support, cable lay & plough support.

The Fugro Subsea Services Limited Panther Plus ROVs are all deployed in a side entry garage Tether Management System (TMS) and, in their standard configurations are launched using a dedicated Crane Launch and Recovery Skid.

**Key Tasks:**

- ROV Services
- Construction Support
- Platform Inspection
- Inspection, Repair and Maintenance
- Wind Farm Support



*The ROV frame is made from extremely rugged polypropylene chassis with a stainless steel lift frame.*



*The 2 electronics pods provide most of the Panther Plus buoyancy. Additional buoyancy is provided by shaped syntactic foam blocks.*



# SEAEYE PANTHER PLUS

## Technical Specifications

### Vehicle Dimensions

Length	1.75m
Height	1.22m
Width	1.06m
Weight	500kg
Depth	1000msw
Payload	110kg

### Power

Propulsion	16kva
Tooling	11kva

### Performance

Fore/aft	220kg
Lateral	170kg
Vertical	75kg

### Speed

Fore/aft	3.0 knots
Lateral	2.8 knots

### Thrusters

Seaeye SM5 brushless DC Motors - 8 x Vectored horizontal, - 2 x Vertical

### Manipulators

1x 6 function HD6R with HD2040 12" grabber  
1x 5 function HD5, 6" jaws, 360° rotator (36Nm)

### Pan & Tilt

Electrical 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)

### 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 x 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	3
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 or Crane incorporating winch and HPU.  
Typical Integrated Crane LARS: 4.65m x 2.7m x 2.9m (L x W x H) @ 13.5Te  
Typical Integrated A-Frame LARS: 5.59m x 2.64m x 2.44m ((L x W x H) @ 15.2Te  
Suitable for use in a Hazardous Environment (Zone 2).

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