

LIGHT WORK CLASS ROV

SEAEYE PANTHER-XT PLUS 984

The Seaeeye Panther-XT Plus, a customizable electric work ROV, sets the standard in its field by challenging bulkier and more expensive hydraulic counterparts, particularly in situations where space on deck is limited. With its 500V eight horizontal thrusters and dual power supplies, this ROV excels in maneuverability and achieves speeds exceeding 4 knots, all while maintaining the compact size typical of observation-class ROVs. Despite its high power, the Seaeeye Panther-XT Plus can accommodate Schilling Orion manipulators and a wide range of sensors and interchangeable heavy-duty tooling packages. It is well-suited for various tasks such as drill support, pipeline inspection, salvage operations, cleaning, dredging, and IRM down to depths of 850 meters. Additionally, air-transportable versions of the Seaeeye Panther-XT Plus are available for intervention and life support missions, aiding in rapid response submarine rescue efforts.



HIGHLIGHTS

- ▲ Maximum working depth 850 m.
- ▲ Capable of working in currents up to 3 knots.
- ▲ System includes LARS with caged TMS (umbilical length of 200 m).
- ▲ Pay load capacity of 150 kg.
- ▲ Forward thrust of 353 kgf.
- ▲ Four channel digital video recording system with integrated overlay system.
- ▲ Schilling Orion 7P and 4R manipulators.
- ▲ Small footprint, enabling operations to be conducted from small vessels of opportunity, fixed or floating platforms.

All specifications presented within this document are subject to change without notice.



VEHICLE SPECIFICATIONS:

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| Depth Rating: | 850 m |
| Length: | 2.14 m |
| Width: | 1.06 m |
| Height: | 1.22 m |
| Launch Weight: | 800 Kg |
| Forward Speed: | 3 knots |
| Forward Thrust: | 353 kgf |
| Lateral Thrust: | 248 kgf |
| Vertical Thrust: | 105 kgf |
| Payload: | 150 kgf |

Propulsion:

Eight vectored horizontal and two vertical brushless SM7 500V DC thrusters provide full three-dimensional control of the Panther-XT Plus.

Auto-Functions:

Heading Control
Depth Control
Pitch and roll Control
Altitude Control

TMS (Seaeye Type 8)

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|-----------------------|----------|
| Length: | 2.83 m |
| Width: | 1.49 m |
| Height (to lift eye): | 2.49 mm |
| Weight(in air): | 1.2 Tons |
| Tether Length: | 200 m |
| Tether OD: | 17mm |

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| Power Requirements: | 3-phase 380-480 VAC 50-60 Hz (150 KVA) |
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SYSTEM DIMENSIONS AND WEIGHTS:

LARS with Winch:

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| Length: | 7 m |
| Width: | 2.75 m |
| Height(to lift eye): | 2.25 m |
| Weight: | 22 Tons |
| A-Frame Outreach: | 2.5 m |

Control Cabin Container - DNV 2.7-1 offshore container, A60 rated:

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|---------|---------|
| Length: | 6.1 m |
| Width: | 2.6 m |
| Height: | 2.6 m |
| Weight: | 12 Tons |

Workshop/Stores Cabin - DNV 2.7-1 offshore container, A60 rated:

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|---------|---------|
| Length: | 2.6 m |
| Width: | 2.6 m |
| Height: | 2.6 m |
| Weight: | 14 Tons |

EQUIPMENT FITTED AS STANDARD:

Pan & Tilt

Two axis electrical pan and tilt unit

Chassis:

The extremely rugged polypropylene chassis with a stainless steel lift frame is totally maintenance free, non-corroding and self-supporting in seawater.

Buoyancy:

Two pods fabricated with high grade carbon fibre composite materials provide most of the buoyancy and payload for this ROV. The vehicle electronics are mounted within one of these pods, the other is empty providing a large volume for additional equipment. Water ingress and vacuum alarms are fitted. Small sections of syntactic foam are added to balance the vehicle trim.

Pan & Tilt:

1 x High torque, oil filled, pan & tilt platform. The unit can accept two cameras and lights.

Depth Sensor:

1 x Electronic sensor accurate to +/- 0.1% FSD

Fluxgate Compass

| | |
|--------------|--------|
| Accuracy: | +/- 1° |
| Resolution: | 0.1° |
| Update Rate: | 98 Ms |

Imaging Sonars:

1 x Tritech Super Seaking DST avoidance sonar

Camera's

2 x Kongsberg Compact colour Zoom camera (10:1), model number: OE14-114/5.

2 x Seaeye wide angle low light colour camera (PAL). 1 x Seaeye wide angle low light black and white camera.

Lights

The Panther XT Plus 984 is fitted with four long-life LED lights (on two individually controlled channels). They provide excellent illumination with very low power consumption and are very robust.

| | |
|----------|----------------------|
| Model: | LED-LAMP-08 |
| Voltage: | 110 VAC |
| Power: | 40 Watt, 2520 Lumens |

Digital Video Recording System

VisualSoft DVR – Digital Video Recording System (4 channel simultaneous recording), with video overlay for all four channels.

Survey Interface:

Seaeye Sniffer PC

Emergency Lighting

Battery operated emergency strobe light (ST5K-SPHR)

Communication system

CANFORD audio communication system

Manipulators:

1 x Schilling Orion 7P with 3.8" Gripper.
1 x Schilling Orion 4R with 7.8" Gripper.

OPTIONAL EQUIPMENT:

Sensors/Equipment:

- Tritech Profilers
- 2D Real Time Sonar
- Doppler Velocity Log (DVL)
- Wire Rope Cutter
- Nut Splitter
- Multibeam Echo Sounder
- CP / UT Probes
- Underwater AHRS
- Soft Line Cutter
- Subsea Cleaning Tool

Optional Skids:

- Pipeline Survey Wheeled Skid With Boom arms for two cameras and two led lamps.
- Water Jetting/ dredging skid

