



## LIGHT WORK CLASS ROV

# SEAEYE PANTHER-XT PLUS 984

The customisable Seaeeye Panther-XT Plus is designed as the benchmark for electric work ROVs and challenges heavier and more costly hydraulic vehicles, particularly where deck space is at a premium. Thanks to its 500V eight horizontal thrusters and dual power supplies, the Seaeeye Panther-XT Plus benefits from exceptional handling and with speeds over 4 knots boasts a high power to weight ratio to that of its rivals yet maintaining an observation class footprint. This high power ROV is capable of accommodating Schilling Orion manipulators as well as a wide range of sensors and interchangeable heavier duty tooling packages. The Seaeeye Panther-XT Plus is highly suited for work tasks including drill support, pipeline survey, salvage, cleaning, dredging and IRM to depths of 850 meters. Air transportable Seaeeye Panther-XT Plus systems are also supplied for intervention and life support tasks in support of rapid response submarine rescue.



## 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:

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 kg

### 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)

Length:	2.83 m
Width:	1.49 m
Height (to lift eye):	2.49 m
Weight (in air):	1.2 Tons
Tether Length:	200 m
Tether O/D:	17 mm

### Power Requirements:

Input:	3-phase 380-480 VAC 50-60 Hz (150 KVA)
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## SYSTEM DIMENSIONS AND WEIGHTS:

### LARS with Winch:

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

Workshop/Stores Container - DNV 2.7-1 offshore container, A60 rated.

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

Workshop/Stores Container - DNV 2.7-1 offshore container, A60 rated.

Length:	6.1 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 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.