

INSPECTION CLASS ROV

SEAEYE PANTHER 905

The Seaeeye Panther ROV system is certified for depths of up to 1,500 meters and represents the pioneering generation of electrically powered inspection-class ROVs. Driven by four vectored and two vertical SM5 brushless DC thrusters, the Seaeeye Panther excels in both surveying and drill support operations, with seamless interfacing capabilities. It offers operators optimal payload-to-volume ratio, boasting a payload capacity of 90 kg, a polypropylene chassis, the ability to accommodate dual manipulators, and a streamlined design for minimal drag. Overall, the Seaeeye Panther presents a highly adaptable and cost-efficient ROV solution.



HIGHLIGHTS

- ▲ System capable of conducting wide range of operations including Survey, Inspection, Environmental Sampling, Drill Support and Light Construction.
- ▲ Capable of working in currents up to 2.5 Knots.
- ▲ System includes LARS with caged TMS (tether length of 200m).
- ▲ Pay load capacity of 90 kg.
- ▲ System comes with a four channel digital video recording system, with built in overlay capabilities.
- ▲ Full set of optional survey and tooling skids.
- ▲ 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:	1,500 m
Length:	1.6 m
Width:	1.0 m
Height:	1.1 m
Weight:	330 Kg
Forward Speed:	>1.5 knots
Forward Thrust:	110 kgf
Lateral Thrust:	85 kgf
Vertical Thrust:	75 kgf
Payload:	90 kg

Propulsion:

Four Horizontal SM5 and Two Vertical SM5 250V brushless DC thrusters provide full three dimensional control, including roll. All Seaeeye ROVs feature brushless DC thrusters which, in addition to having the greatest power density.

Auto-Functions:

The Panthers standard auto functions include

- Heading
- Depth

Umbilical/Main Lift:

Main Lift Length:	1,000 m
Main Lift O/D:	31 m

TMS (Seaeeye Type 8)

Length:	1.792 m
Width:	1.0491 m
Height (to lift eye):	2.75 mm
Weight(in air):	1.4 Tons
Depth Rating:	1,500 m
Tether Length:	150 m
Tether OD:	20.6 mm

Power Requirements:	380-440 VAC, 3Φ, 50/60 Hz, (125 KVA)
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SYSTEM DIMENSIONS AND WEIGHTS

LARS with Winch:

Length:	7.1 m
Width:	2.75 m
Height(to lift eye):	2.25 m
Weight:	17 Tons
A-Frame Outreach:	2.5 m

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

Length:	6.1 m
Width:	2.6 m
Height(to lift eye):	2.6 m
Weight:	9 Tons

Stores Container:

Length:	3.1 m
Width:	2.6 m
Height(to lift eye):	2.6 m
Weight:	7 Tons

EQUIPMENT FITTED AS STANDARD

Control System:

16 bit digital system providing easy interfacing to ancillary equipment by the operator. The SEAEYE comprehensive video overlay is fitted as standard providing digital and analogue compass rose, tilt icon, date time group, depth (metric or imperial), CP value ,pre-titled and free text pages. Vehicle data may be exported to clients Survey or Navigation computer systems via the SEAEYE Telemetry Interface Unit in conjunction with a PC.

Chassis:

A 100% modular chassis manufactured in polypropylene. The extremely rugged chassis is totally maintenance free, non-corroding and self-supporting in seawater. Additional equipment can be bolted directly to chassis members.

Manipulators:

1 x Hydro-Lek HD5 five-function c/w intermeshing Jaws

Pan & Tilt:

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

Camera:

1 x Seaeeye Colour Camera
1 x Seaeeye Black and White Camera

Digital Video Recording System:

Digital video recording system (4 channel simultaneous recording), with video overlay for all channels.

Imaging Sonars:

1 x Tritech Super Seaking DST avoidance sonar

Depth Sensor:

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

Fluxgate Compass

Accuracy:	+/- 1°
Resolution:	0.351°
Update Rate:	125 Ms

Lighting:

The Panther 903 is fitted with 4 long-life LED lights (on four individually controlled channels).

Emergency Systems:

1 x Strobe Light

OPTIONAL EQUIPMENT

Sensors/Equipment:

- Tritech Profilers
- 2D Real Time Sonar
- CP / UT Probes
- Doppler Velocity Log (DVL)
- Underwater Gyro Compass
- Wire Rope Cutter
- Soft Line Cutter

Optional Skids:

- Wheeled skid with boom arms (c/w cameras/lights)

