



INSPECTION CLASS ROV

## SEAEYE PANTHER 903/905

The Seaeeye Panther ROV systems are depth rated to 1,500 m and were the first of a new generation of electric powered work class ROV's. Powered by four vectored and two vertical SM5 brushless DC thrusters, the Seaeeye Panther is the ideal vehicle for either survey or drill support operations, for which it is fully interfaced. The Panther provides the operator with maximum payload/volume availability. With 90 kg's of payload, a polypropylene chassis, dual manipulator capacity and a low drag coefficient, the Seaeeye Panther provides an extremely versatile and cost effective ROV package.



### 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 (VisualDVR), 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.

## VEHICLE SPECIFICATIONS

<b>Depth Rating:</b>	1,500 m
<b>Length:</b>	1.6 m
<b>Width:</b>	1.0 m
<b>Height:</b>	1.1 m
<b>Weight:</b>	330 Kg

<b>Forward Speed:</b>	2.5 knots
<b>Forward Thrust:</b>	110 kgf
<b>Lateral Thrust:</b>	85 kgf
<b>Vertical Thrust:</b>	75 kgf

<b>Payload:</b>	90 kg
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### Propulsion:

Four Horizontal SM5 and Two Vertical SM5 250V brushless DC thrusters provide full three dimensional control, including roll. All Seaeye 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:

<b>Main Lift Length:</b>	1,000 m
<b>Main Lift O/D:</b>	31 mm

### TMS (Seaeye Type 8)

<b>Length:</b>	1.792 m
<b>Width:</b>	1.491 m
<b>Height (to lift eye):</b>	2.75 m
<b>Weight (in air):</b>	1.4 Tons
<b>Depth Rating:</b>	1,500 m
<b>Tether Length:</b>	150 m
<b>Tether OD:</b>	20.6 mm

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

### LARS with Winch:

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

### Control Room/Workshop Container:

<b>Length:</b>	6.1 m
<b>Width:</b>	2.6 m
<b>Height:</b>	2.6 m
<b>Weight:</b>	9 Tons

### Stores Container:

<b>Length:</b>	3.1 m
<b>Width:</b>	2.6 m
<b>Height:</b>	2.6 m
<b>Weight:</b>	7 Tons

## EQUIPMENT FITTED AS STANDARD

### Control System:

16 bit digital system providing easy interfacing to ancillary equipment by the operator. The SEA EYE 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 SEA EYE 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 Seaeye Colour Camera  
1 x Seaeye Black and White Camera

### Digital Video Recording System:

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

### Imaging Sonars:

1 x Blueview M900-130 2D Multibeam Imaging Sonar  
1 x Tritech Super Seaking DST avoidance sonar

### Depth Sensor:

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

### Fluxgate Compass

<b>Accuracy:</b>	+/- 1°
<b>Resolution:</b>	0.351°
<b>Update Rate:</b>	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
- CP Probe
- UT Probe
- Doppler Velocity Log (DVL)
- Underwater Gyro Compass
- Wire Rope Cutter
- Soft Line Cutter

### Optional Skids:

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