

# SEAEYE PANTHER-XT



The customisable Seaeye Panther-XT is designed as the benchmark for electric work-class ROVs and challenges heavier and more costly hydraulic vehicles, particularly when deck space is limited.

With its 500V powered thrusters, the Seaeye Panther-XT benefits from excellent handling and is capable of accommodating a wide range of heavier duty tooling for work tasks including Drill Support, Pipeline Survey, Salvage and IRM to depths of up to 1,500 metres.

Air transportable Seaeye Panther-XT systems are also supplied for intervention and life support tasks in support of rapid response submarine rescue.

## TOOLING

A typical Panther-XT package includes two heavy-duty five and six function manipulators. These have an integral 12mm rope cutter.

The Panther-XT can be fitted with job-specific tooling skids which can be readily changed for rapid turnaround between dives requiring different tooling packages.

Moreover with the open frame design of the vehicle, additional sensors and tools can be added on to the chassis, allowing the vehicle to be reconfigured for different applications, such as:

- Drilling Support
- IRM (Inspection Remediation and Maintenance)
- NDT: Non Destructive Testing
- Pipeline Survey
- Submarine Rescue
- Cleaning
- Dredging
- General Survey
- Torque Tool

# THE VEHICLE

## CHASSIS

The extremely rugged polypropylene chassis with a stainless steel lift frame is totally maintenance free, non corroding and self-supporting in seawater. Additional equipment can be bolted directly to the chassis for customisation.

## BUOYANCY

The two electronic pods provide most of the Panther-XT's buoyancy. Additional buoyancy is provided by shaped syntactic foam blocks.

## PROPULSION

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

## COMPASS, RATE GYRO & DEPTH SENSOR

A magneto-resistive compass and a solid-state rate sensor are provided for superior azimuth stability.

Compass accuracy:  $\pm 1^\circ$

Resolution:  $0.1^\circ$

Update rate: 98 ms

The system uses an electronic depth sensor accurate to  $\pm 0.1\%$  FSD accuracy.

## AUTOPILOT FUNCTIONS

- Auto heading
- Auto depth
- Auto altitude (optional)

## VIDEO SYSTEM

As standard three live video channels are available (up to six with optional port pod upgrade). HD video is optional.

## EQUIPMENT INTERFACES

A wide range of standard or custom interfaces are available, in particular for:

- Cameras
- Manipulators, boom arms, cutters
- CP probe
- Sonar systems (obstacle avoidance, side-scan, multibeam, profiling)
- Scientific equipment (bathy, CTD, etc)
- Emergency strobe
- Tracking system
- Tooling motor
- Auxiliary connections (RS485/RS232/STP)

Custom interfaces and configurations can be provided.

## PAN & TILT PLATFORM

The robust high-torque pan & tilt unit can accept two cameras and lights. The pan & tilt angles are displayed graphically on the video overlay.



## LIGHTING

The Panther-XT 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.

## VEHICLE ELECTRONICS PODS

All vehicle electronics are mounted inside two watertight pods fabricated using hard-anodised aluminium and high grade carbon fibre composite materials, fitted with leak and vacuum alarms.

## CONNECTORS

The Seaeeye Panther-XT uses Seaeeye's proven range of metal shell connectors.

## TETHER TERMINATION

The tether is electrically terminated in an oil-filled and pressure compensated vehicle junction box and mechanically supported by a cable-grip.

# SPECIFICATIONS

## VEHICLE DIMENSIONS

Dimension: 1750L x 1217W x 1060H (mm)

Weight: 500kg

## PERFORMANCE

Depth Rating: 1500 msw

Forward Speed: > 3knots

Thrust Forward: 180kgf

Thrust Lateral: 125kgf

Thrust Vertical: 110kgf

Payload: 110kg

## SYSTEM POWER REQUIREMENTS

Input: 3-phase 380-480 VAC

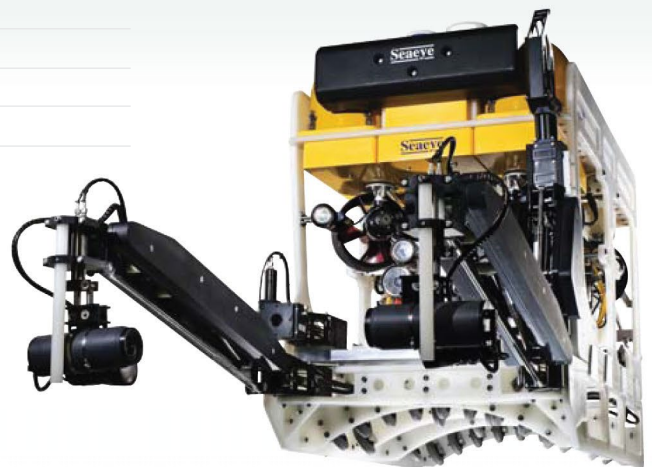
ROV: 22kVA

TMS: 3kVA

Tooling: 9kVA

LARS (typical): 37kVA

Cabin (typical): 12kVA



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