

EQUIPMENT SHEET

SEAEYE PANTHER-XT PLUS ROV SYSTEM
LIGHT WORK CLASS REMOTELY OPERATED VEHICLE



INTRODUCTION

The Seaeeye Panther-XT Plus is the high performance version of the Panther-XT. It combines the capability of precision manipulative tasks with operation in high currents, whilst maintaining a very compact package and footprint.

The Panther-XT Plus is probably the fastest swimming light work class ROV in the world. At over four knots, it stands apart from other ROVs. Its ten powerful SM7 thrusters not only power the ROV along, but hold the vehicle steady in strong currents during work and observation tasks.

This high power ROV is standard outfitted with Schilling Orion manipulators, optionally a wide range of sensors and interchangeable heavier duty tooling packages can be installed. The Seaeeye Panther-XT Plus is highly suited for work tasks including drill support, pipeline survey, salvage, cleaning, dredging and IRM to depths of 1000 meters.

MAIN DATA

| | |
|-----------------|---------|
| Length overall | 2140 mm |
| Width | 1060 mm |
| Height | 1217 mm |
| Weight | 850 kg |
| Payload | 150 kg |
| Depth rating | 1000 m |
| Forward thrust | 353 kg |
| Lateral thrust | 248 kg |
| Vertical thrust | 105 kg |

DATA REGISTRATION

Tether Management System (TMS)

Bailing arm style TMS with 200m tether capacity, provided with color camera with the following umbilical:

- Tether umbilical 20.6mm single mode fiber optic, length 200 m

Launch and recovery system (LARS)

The integrated system comprising:

- Skid mounted winch and A-frame
- Self erecting A-frame with raised pivot point for greater outreach
- Additional workspace in front of LARS
- Hydraulic winch with 31 mm armored lifting umbilical (1100m)
- X-Y Snubber Rotator Assembly

Power requirements LARS + ROV

- 3-phase
- 380-480 VAC
- 125 kVA

ONBOARD EQUIPMENT

| | |
|--------------------|--|
| Camera 1 | Kongsberg High Definition Mono Low Light CDD Camera OE15-100C (50hz) – 3000m rated |
| Camera 2 | Kongsberg Colour Zoom Camera OE14-366 (18:1) - 3000m rated |
| Camera 3 | Seaeye mini Colour Camera, rear facing - 2000m rated |
| Thrusters Ten (10) | SM7 brushless 500VDC thrusters (8 vectored horizontals and 2 verticals). Additional vertical tooling thruster can be added |
| HPU | 2.5 kW hydraulic system for Schilling manipulators 3 phase 660V 9kW tooling PSU for hydraulic equipment |
| Manipulator 1 | Schilling Orion 7P, seven function manipulator with 7.8" PA Gripper |
| Manipulator 2 | Schilling Orion 4P, four function manipulator with 7.8" Gripper |
| MUX 1 | 1 GB Ethernet Mux |
| MUX 2 | 2 X Focal 907 |

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NAUTICAL AND COMMUNICATIONS EQUIPMENT

Compass, rate gyro and depth sensor: Fluxgate compass, accuracy $\pm 1^\circ$

Resolution 0.1°

Update rate 98 ms

Tritech PA200 Altimeter

Electronic depth sensor

FOOTPRINT

The modular ROV system comprises of two 20 ft containers:

Container 1: A split control cabin / workshop container, including extensive spare parts package.

Container 2: An A-frame LARS for handling TMS and ROV.

DATA REGISTRATION

Data registration takes place by means of a digital recording system with video overlay. For review of the video images and computer data, a multi-view system with 16 wide screen monitors is installed in the safe zone container.