

Seaeye *Surveyor Plus*



THE SEAEYE SURVEYOR PLUS

thruster configuration, shape and light weight construction provide an ROV ideally suited for survey operations with the payload and interfaces to easily accommodate survey peripherals. This versatile ROV is also widely used for drill support, observation and inspection applications in the Far East, Middle East and North Sea offshore oil and gas industries.

Features

- Max operating depth: 600 metres
- 8 vectored horizontal Seaeye SM4M brushless DC thrusters
- 2 vertical Seaeye SM4M brushless DC thrusters
- Thruster velocity feedback loop for azimuth stability and auto stop on new heading
- 125 Kgf bollard pull (forward thrust)
108 Kgf lateral thrust
- Auto heading and depth.
- Dual simultaneous video channels
- Easily interfaced for survey suites including pipe tracking systems
- Comprehensive video overlay
- Full component compatibility with other Seaeye ROVs



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Surveyor Plus



Typical interior of a Seaeeye Control Cabin



Launch & Recovery System (LARS) & TMS

Specifications

Maximum working depth:	600 metres
Length:	1450 mm
Height:	920 mm
Width:	820 mm
Thrust Fwd:	125 kg
Thrust Lateral:	108 kg
Thrust Vertical:	35 kg
Launch Weight:	250 kg
Payload:	45 kg

Propulsion

All Seaeeye ROVs feature brushless DC thrusters, which, apart from having the greatest power density, have integrated drive electronics with velocity feedback for precise and rapid thrust control. These thrusters are interfaced to a fast PID control system along with a solid-state rate gyro for enhanced azimuth stability. These essential building blocks enable Seaeeye Marine to provide superior control and response from their powerful ROVs, setting them apart from the competition. Surveyor Plus has 8 vectored and 2 vertical Seaeeye SM4/M thrusters.

Chassis

100% modular chassis manufactured in polypropylene. This extremely rugged material is totally maintenance free, non-corroding and self-supporting in seawater. Additional equipment may be bolted directly onto the chassis members.

Pressure Housings

All pressure housings are machined from 6082 marine grade aluminium and hard anodised black. The electronics pod has a water ingress alarm fitted, which displays on the video overlay in the unlikely event of such an emergency.

Connectors

SEAEYE 316 SS metal shell connectors are generally used throughout.

Buoyancy

Two hydro-dynamically shaped blocks of closed cell syntactic foam provide the vehicle's buoyancy and payload.

Control System

16 bit digital system providing easy interfacing to ancillary equipment by the operator. SEAEYE's comprehensive video overlay is fitted as standard providing digital and analogue compass rose, tilt icon, date time group, depth (imperial or metric), CP value, TMS tether cable pay out counter, plus pre-titled and free text pages with an electronic QWERTY keyboard. Vehicle data may be exported to the client's Survey or Navigation computer via the SEAEYE telemetry monitor unit, which is supplied as part of the standard spares kit.

Navigation

Sensitive flux-gate compass unit with solid state rate sensor for enhanced azimuth stability.

Accuracy:	± 1°
Resolution:	0.351°
Up-date rate:	98mS

Depth Sensor

Electronic unit in its own separate housing. Accuracy ± 0.1% of fsd.

Auto Functions

Auto depth and auto heading standard.

Tilt System

A video camera tilt platform is fitted as standard. The proportional tilt feedback potentiometer provides an accurate tilt angle, which is displayed, on the video overlay system.

Lighting

4 off 150w individually fused lights with remote brilliance control in pairs.

Video System

Two video channels are provided for simultaneous viewing and recording from two video cameras. Video transmission to the surface is via a dual balanced line driver and 2 screen twisted pairs. Additional switched cameras can be fitted.

Surface Control Unit

Contains all vehicle system surface control electronics, TMS control and surface outlets for ancillary equipment. This unit is 19" rack mountable and is supplied in its own case.

Pilots Hand Control Unit

A small remote hand control unit provides all of system controls. This unit is supplied on a 5metre 'flying' lead.

Surface Power Supply Unit

Supplies all power requirements for the vehicle system. Line Insulation Monitors (LIM's) are fitted to both the AC and DC power components for system safety and monitoring purposes. Requires a three phase AC input of between 380vac and 480vac at 15kva.

Options

- Launch & Recovery System (LARS)
- ROV control cabin
- Tether Management System (TMS)
- SIT camera
- Colour zoom camera
- Sonar systems
- CP probe (Contact or proximity)
- Multi-function manipulator
- 2.5kw 440vac 3 phase outlet
- Spares Kits
- Technical training programme
- Specialist configurations to suit client requirements

Note: Specifications may change without prior notice

Seaeeye

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