

Sea Eye Tiger ROV System

SPECIFICATIONS (VEHICLE)

Length : 1030mm Weight : 150 kg
Width : 700mm Payload : 32 kg
Height : 590mm Depth : 1000 meters

CONSTRUCTION

Extremely rugged polypropylene chassis with a non-corroding, maintenance free and self supporting stainless steel lift frame. Buoyancy material is of synthetic foam.

POWER PACK

380 – 480 VAC power input.

PROPULSION

1 vertical thruster, 4 horizontal vectored thrusters,
With a forward thrust of 62 kgf, lateral thrust of 43 kgf and
A vertical thrust of 22 kgf.

MANIPULATOR/TOOLS (OPTIONAL)

4 function manipulator
Tool skid and multi-function hydraulic manipulator
Probes and systems (Inspection) :

- CP probe(contact or proximity)
- Ultrasonic thickness probe
- Sonar systems
- Tracking systems

POWER DISTRIBUTION

The Power Supply Unit incorporates a series of protection devices, interlocks and cooling fans. Internal AC and DC supplies are only distributed when remotely operated at the Surface Unit.

COMPASS, RATE GYRO & DEPTH SENSOR

A Flux-gate compass and a solid-state rate sensor are provided and give superior azimuth stability in forward flight and in auto heading.

- Compass accuracy $\pm 0.5^\circ$
- Resolution 0.35°
- Update rate 98 mS
- Depth accuracy $\pm 0.1\%$ FSD

VIDEO, LIGHTS AND CAMERA

- 300 Watts of lighting with two individually controlled channels
- Colour & lowlight b/w cameras (Inspection use)
- 5 megapixel stills camera



Tilt Platform

The ± 90 degree camera tilt platform accepts two cameras and lights.

Video Overlay

The monitors display the video information from the camera and video overlay data as follows:

- Heading data (in degrees)
- Analogue Compass Rose
- Depth in metres (or feet)
- Altitude (optional)
- Tilt position (or Pan & Tilt position if fitted to Lynx)
- Date and time
- Free text from keyboard
- TMS Bail Count (TMS cable counter when used with TMS)
- CP probe readings (if fitted)
- Vehicle Turns Counter

LAUNCH & RECOVERY SYSTEM (LARS)

Type : Skid mounted 'A' frame with hydraulic power unit and winch

DEPLOYMENT

Operated with a TMS but can be used free swimming with up to 450 meters of soft umbilical.

HAND CONTROL UNIT

The Hand Control Unit (HCU) provides the interface between the operator and vehicle using a series of switches and controls. Working on a 5 metre 'flying' lead, the HCU controls the following:

- Vehicle movement, direction and speed
- Lighting
- Tilt control
- Safety thruster enable switch
- Auto depth and heading
- Additional camera selection
- Propulsion system offsets and power settings

CONTROL CONSOLE

The surface control system provides:

- AC and DC supply switching control
- DC current and voltage indication
- Control of video and video overlay
- A keypad for system configuration
- Plugs and sockets for system connections and interfaces for ancillary equipment
- ROV control system (remote from the Hand Control Unit)
- Output to the Telemetry Monitor Unit

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