

SEAEYE LYNX 44

TECHNICAL SPECIFICATION



DeepTech

Part of the MCS Group
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SYSTEM SUMMARY

The Seaeeye Lynx vehicles are widely regarded as the leading observation and inspection class systems in the energy industry. They are also increasingly popular for military and scientific customers seeking increased capabilities in deep water. With a depth rating of 1500m, the Lynx has a very stable platform and is able to perform well in strong currents and the harshest conditions, providing excellence in both handling and maneuverability.

The open frame construction and generous payload offer the possibility of adding a wide range of tools and sensors as well as interchangeable tool skids.



MANAGEABLE

The Seaeeye Lynx syntactic foam buoyancy block is split into two sections for easier handling and access to vehicle components.



TRUSTED

The extremely rugged polypropylene chassis with stainless steel lift frames are totally maintenance free, non-corroding and self-supporting in seawater.



STABLE

Horizontal and vertical thrusters provide superior control and response and give the vehicle excellent stable handling characteristics.

TECHNICAL OVERVIEW

Depth rating	1500 msw
Length	1500mm
Width	815mm
Height	605mm
Launch Weight	200kg

Payload	34kg
Forward Speed	3 Knots
Forward thrust	66 kgf
Lateral thrust	47 kgf
Vertical thrust	43 kgf

ROV STANDARD EQUIPMENT

- 4X SM4 250V DC horizontal vectored thrusters
- 2x SM4 250V DC vertical thrusters
- Magneto-resistive compass and solid state sensor
- Fibre optic multiplexers
- +90° Tilt platform with 2x cameras fitted
- 600 Watts of lighting
- LED lamps
- Wide range of tooling skids
- Tritech Super Seaking DST Sonar – Arc Net

SURFACE CONTROL UNIT

- 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 (via hand control unit)
- TMS control system (via SCU or foot switches)

MONITORS AND VIDEO OVERLAY

The Seaeye Lynx comes with suitably sized rack or wall mounted monitors displaying the video signal from the cameras and the following overlay data:

Heading
Analogue compass rose
Depth
Tilt position
Date and time
Free text from keyboard
TMS bail count (if applicable)
CP probe reading (if fitted)
Vehicle turns count
Leak and vacuum alarms
1 string of live data, e.g. altitude or latitude/longitude (optional)

A-FRAME LAUNCH AND RECOVERY SYSTEM

Type Fully integrated launch & recovery skid incorporating hydraulically powered A-Frame

Manufacturer Tech-Safe Systems

Safe working load	4400 Kg
Deployed reach	3m
Footprint skid (base)	6100mm x 2400mm
Height	7100mm (max)
Weight (Gross)	16800 Kg
Umbilical length	1500m

Braking Sprung off for safety

TMS SPECIFICATION

Seaeye Type 8 TMS

Operating conditions up to and including Sea State 6

Depth Rating	1500m
Height	1833mm
Width	1490mm
Depth	1795mm
Weight in Air	1075 Kg (without ROV)
Telemetry Singlemode fiber	RS232 -Gigabit Ethernet
Lighting	1x 150 W

CONTROL VAN

Overall dims (l x w x h)	4877 mm x 2438 mm x 2743 mm
Weight	12,000 Kg
incoming supplies	380 / 480 VAC

Pilot control control desk panel with video wall

STORES CONTAINER

Overall dims (l x w x h)	1950mm x 2690mm x 2640mm
Weight	2500Kg

OPTIONAL ROV TOOLING SKIDS

The Seaeye Lynx is capable of fitting a diverse range of tooling skids. The skids are fitted to the underside of the ROV and the TMS garage height is adjusted to

5 function manipulator skid

Water jetting tooling skid

Flooded member detection (FMD) orientation skid

All of our ROVs can be customized and integrated with the MCS product-line including the 3D Photo Realistic Cloud (3D PRC) and the Platform and Pipeline Commander systems for fast and accurate data which is easy to access and share.



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