



## OBSROV & IROV Seaeye Lynx



The Seaeye LYNX ROVs are widely regarded as the leading observation and inspection vehicles within the oil and gas industry.

Depth rated to 1500 m the vehicle performs well in strong currents and under the harshest conditions, providing excellent 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 under-slung, bolt-on tool skids. The LARS is gravity based for platform and jack-up operations to 300 m water depth, which enables the ROV to be deployed without the need for welding and hot work permit, therefore reducing safety risks and time to mobilize / demobilize.

# Seaeeye Lynx OBSROV & IROV

## SYSTEM FEATURES

1500 m depth rating  
 High resolution colour camera that can be tilted  $\pm 90$  degrees  
 34 kg payload  
 Brushless DC thrusters with velocity feedback  
 66 kg of thrust  
 2 Channel variable intensity 600 W lighting  
 Auto heading and depth  
 Fibre optic MUX  
 TMS with 250m tether  
 LARS with A-frame or crane deployment options  
 Gravity based deployment for platform or jack-up operations to 300 m  
 Zone II ATEX compliant

## MAIN COMPONENTS

Remotely Operated Vehicle  
 Tether Management System (TMS)  
 Launch & Recovery System (LARS)  
 Control Container / Cabin  
 Stores Container

## REMOTELY OPERATED VEHICLE

Type LYNX	Observation & Inspection Class
Manufacturer	Saab Seaeeye Ltd
Operating Conditions	Up to and including Sea State 6 (3G)
Depth Rating	1500 m
Power	15 kW 380 / 480 VAC 3-phase
Length	1260 mm
Width	815mm
Height	605 mm
In Air Weight	200 kg (unballasted) or 278 kg (ballasted)
In Seawater Weight	Neutral
Thrust Forward	69 kgf
Thrust Lateral	45 kgf
Thrust Vertical	39 kgf
Payload	37 kgf
Propulsion	Brushless DC thrusters Two vertical and four horizontal vectored SM4 250 volts
Auto Functions	Heading & Depth
Heading Control	$\pm 0.5$ degrees
Depth Control	$\pm 0.1\%$ FSD
Telemetry	Multimode mode fibre 3 x RS485 4 x RS232
Lighting	600W
Equipment Interface	Manipulator and FMD skid. 9kW 440 VAC for hydraulic tooling capability and survey equipment

## VEHICLE EQUIPMENT FIT

Camera System	1 x Seaeeye CAM04 High resolution fixed focus colour camera that can be tilted $\pm 90$ degrees 1 x Kongsberg OE15-100A monochrome low light camera
Sonar	Tritech Super Seaking DFS
Emergency Strobe	1 fitted as standard
OPTIONAL	CP FMD skid Bathymetric profiler Manipulator skid Cutter (20 mm) Wire brush cleaning tool USBL transponders
Camera System	1 x P00864 Mini B&W Camera

## TETHER MANAGEMENT SYSTEM

Seaeeye	Type 8 TMS
Operating Conditions	Up to and including Sea State 6 (3G)
Depth Rating	1500m
Tether Capacity	250m
Depth	1795 mm
Width	1490 mm
Height	1833 mm
In Air Weight	1075 kg (without ROV)
Telemetry	Multimode fibre- RS485 1/2 duplex 1 x Video channel
Lighting	1 x 150 W

## CONTROL CONTAINER AND STORES CONTAINER

Control Workshop/ Container	1 x A60 4875 mm (16ft.) ISO rated for Class 1 Division 2 (Zone II) operations.
Pilot Control	Control desk panel with video wall
Incoming Supplies	380 / 480 VAC
Stores Container	ROV spares storage

## LAUNCH AND RECOVERY 'A' FRAME ASSEMBLY

Type	Fully integrated launch and recovery skid incorporating hydraulically powered 'A' frame
Manufacturer	Hydramec Offshore Hydraulic Systems
Safe Working Load	1400 kg
Design Factor	3G
Deployed Reach	3.0m
Footprint Skid (base)	L 5m x W 2.89m
Height	3.25m (stowed position) 5.75m maximum- 5.75m (operational)
Weight	14.5T
Umbilical Length	1500 m
Line Speed	30 m per minute at first layer
Braking	Sprung off for safety
HPU	Volvo F12-40

## LAUNCH AND RECOVERY SYSTEM CRANE ASSEMBLY

Type	Fully integrated launch and recovery skid incorporating hydraulically powered crane
Manufacturer	Hydramec Offshore Hydraulic Systems
Safe Working Load	1400 kg
Design Factor	3G
Deployed Reach	4.3 m maximum
Footprint Skid (base)	L 4.90m x W 2.89 m
Height	3.02 m
Weight	14.5T
Umbilical Length	1100 m
Line Speed	30 m per minute at first layer
Braking	Spring off for safety
HPU	Parker F12-40-MF-IH-K