

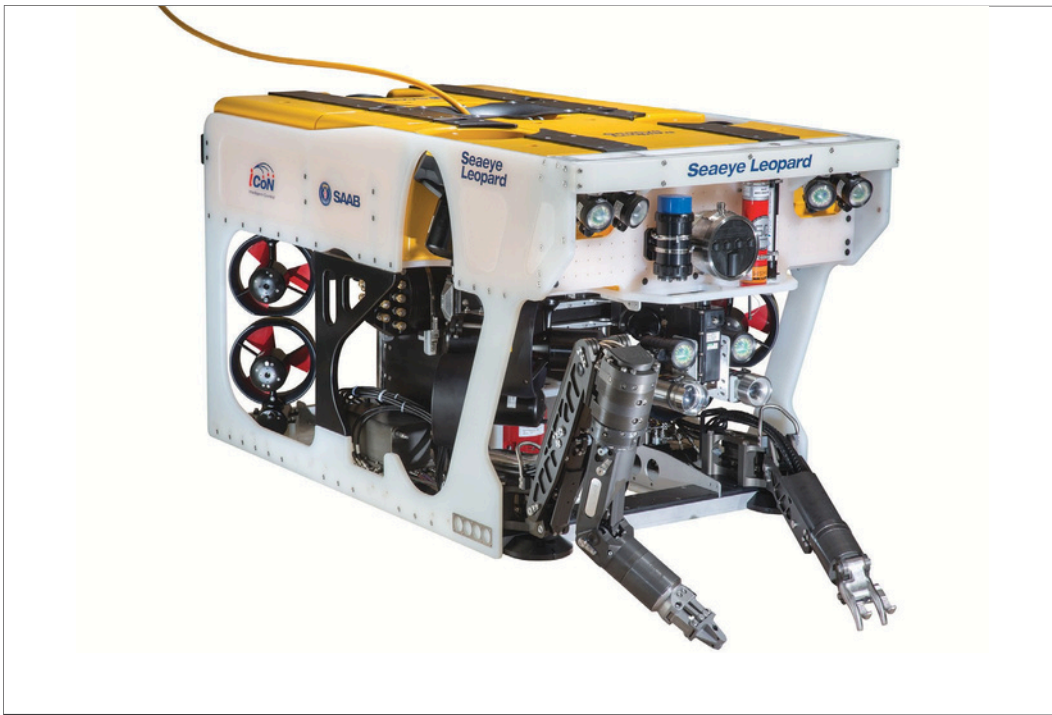
WORK CLASS ROV

SEAEYE LEOPARD 1706

The Seaeeye Leopard is engineered to provide a robust electric work class ROV within a compact frame. Based on the successful Panther XT-Plus model, the Seaeeye Leopard delivers impressive thrust, payload, tooling power, and depth rating improvements while maintaining a similar deck size.

Featuring Seaeeye's iCON intelligent control system, this 2,000-meter-capable work ROV boasts enhanced user interface, streamlined network architecture, excellent maneuverability, and power, along with advanced autopilots for pitch and roll stabilization. It incorporates built-in diagnostics, redundancy measures, and remote internet access for upgrades and technical assistance.

With capacity for two Schilling Orion heavy-duty manipulators and a variety of work class sensors and interchangeable tools, the Seaeeye Leopard is well-suited for tasks such as drill support, pipeline inspection, exploration, salvage operations, cleaning, and deep-water IRM.



HIGHLIGHTS

- ▲ Operational depth of 2,000 m.
- ▲ Capable of working in currents up to 3 Knots.
- ▲ System includes LARS with caged type 8 TMS (tether length of 200 m).
- ▲ Pay load capacity of 205 kg
- ▲ Single Mode fibre optic system (Gb Ethernet, 8 channel CWDM, 8 x composite video, 16 x RS232/485/422 data channels). iCON,
- ▲ SAAB's intelligent control and power distribution system.
- ▲ Station keeping, cruise, transit and standoff control.
- ▲ Full set of optional survey and tooling skids.
- ▲ Variety of tooling options.
- ▲ Small footprint, enabling operations to be conducted from small vessels of opportunity, fixed or floating platforms.

All specifications presented within this document are subject to change without notice.



VEHICLE SPECIFICATIONS

Depth Rating:	2,000 m
Length:	2.150 m
Width:	1.160 m
Height:	1.174 m
Launch Weight:	<1,200 Kg
Forward Speed:	>3 knots
Forward Thrust:	500 kgf
Lateral Thrust:	377 kgf
Vertical Thrust:	225 kgf
Payload:	205 kgf
Through-frame lift:	1,000 kg

Propulsion:

11 vectored SM9 500v brushless DC Thrusters

Auto-Functions:

Heading Control

Depth Control

Pitch and roll Control

Altitude Control

The system also has station keeping, cruise, transit and standoff control.

Umbilical/Main Lift

Umbilical Length: 2,000 m

Umbilical O/D: 29 mm

TMS (Seaeye Type 8)

Length: 1.792 m

Width: 1.491 m

Height (to lift eye): 2.75 m

Weight(in air): 1.2 Tons

Depth Rating: 2,000 m

Tether Length: 200 m

Tether OD: 22mm

Power Requirements: 380-440V, 3Φ, 50/60 Hz, 250 kVA

SYSTEM DIMENSIONS AND WEIGHTS

LARS with Winch:

Length: 8 m

Width: 2.75 m

Height(to lift eye): 2.25 m

Weight: 25 Tons

A-Frame Outreach: 2.5 m

Control Cabin - DNV 2.7-1 offshore container, A60 rated:

Length: 6.1 m

Width: 2.6 m

Height(to lift eye): 2.6 m

Weight: 7 Tons

Workshop/Stores Cabin - DNV 2.7-1 offshore container, A60 rated:

Length: 6.1 m

Width: 2.6 m

Height(to lift eye): 2.6 m

Weight: 9 Tons

Power Cabin - DNV 2.7-1 offshore container, A60 rated:

Length: 6.1 m

Width: 2.6 m

Height(to lift eye): 2.6 m

Weight: 9 Tons

EQUIPMENT FITTED AS STANDARD

Control System:

The Leopard operates on SAAB Seaeye's distributed intelligence control system, iCON.

Man Machine Interface (MMI):

The Leopard 1706 MMI comprises 6 main elements:

- Surface Power Supply Remote Control Interface
- TMS Control Interface
- TMS Foot Switches
- Flight Screens
- Two Touch Screens
- Hand Controller

Chassis:

The extremely rugged polypropylene and stainless steel chassis. Materials and design are balanced to create an incredibly lightweight chassis, maximising strength and stiffness to support a 1Te through frame lift capability for tooling skids and rigid mountings for manipulators, TDUs, tools and sensors.

Vehicle HPU:

1 x 4.5 kW brushless DC 'clean' HPU for manipulators 3-phase 15kW (20HP) 'dirty pack' HPU providing 30 l/min @ 210 Bar, mounted on removable tray with dedicated compensator and filter.

Manipulators:

1 x Schilling Orion 7P with 3.8" Gripper.

1 x Schilling Orion 4R with 7.8" Gripper.

Pan & Tilt:

1 x High torque, oil filled, pan & tilt platform. The unit can accept two cameras and lights.

1 x +/-90 degree camera tilt platform which accepts one camera and light.

Camera:

1 x Seaeye Black and White Camera

1 x Kongsberg Colour Zoom Camera.

Digital Video Recording System:

Digital video recording system (4 channel simultaneous recording), with video overlay for all channels.

Imaging Sonars:

1 x Tritech Super Seaking DST avoidance sonar

Depth Sensor:

1 x Electronic sensor accurate to +/- 0.1% FSD

Lighting:

The Leopard is fitted with six long-life LED lights (on four individually controlled channels).

Emergency Systems:

1 x Strobe Light

OPTIONAL EQUIPMENT

Sensors/Equipment:

- Tritech Profilers
- 2D Real Time Sonar
- Doppler Velocity Log (DVL)
- Wire Rope Cutter
- Nut Splitter
- Multibeam Echo Sounder
- CP / UT Probes
- Underwater AHRS
- Soft Line Cutter
- Subsea Cleaning Tool

Optional Skids:

- Wheeled skid with boom arms (c/w cameras/lights)
- Water Jetting/ dredging skid
- Buoyancy skid

