

**UNDERWATER SOLUTION**

**CAJ**

YOUR LINK TO THE SUBSEA WORLD

# TIGER

OBSERVATION/INSPECTION CLASS ROV

## TECHNICAL SPECIFICATIONS



Widely regarded as the world's leading observation-class ROV, the Seaeye Tiger is capable of diving to 1000msw.



The light-weight polypropylene chassis and stainless steel frame is neutrally buoyant in seawater and is designed to provide maximum protection with minimum maintenance requirements.

The Seaeye Tiger is the perfect option for inspection programmes requiring light intervention or as a support system alongside a work-class ROV

- Up to 1000m depth rating
- 32kg payload capability
- Weight in air 150kg
- Optional 4-function manipulator
- Designed & built by industry-leading observation class system manufacturer, Saab Seaeeye
- Garage tether management system or free swimming modes.



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### **DIMENSIONS & WEIGHTS**

Length 1030mm  
Width 700mm  
Height 590mm  
Weight in Air 150kg  
Through Frame Lift Capacity 2300kg  
Payload 32kg  
Depth Rating 600msw & 1000msw

### **PROPULSION SYSTEM**

The vehicle is propelled by 5 SM 4M brushless DC

Forward 62kgf Vertical 22kgf Lateral 43kgf Thruster configuration: Four horizontal vectored, one vertical

### **LIGHT OUTPUT (available)**

Available fit of two 150W variable intensity

### **VIDEO SYSTEM**

Recording Format SVHS or VHS  
Dual video channels switched  
Video transmission via balanced line driver and screen twisted pair

### **CONTROL SENSORS**

Auto heading  
Auto depth  
Auto stop on new heading  
Gyro Solid state rate sensor  
Compass rose  
Tilt icon  
Date & time  
Depth & CP data  
Video overlay as standard  
Tritech SeaKing Sonar

### **VEHICLE CONTROL SYSTEM**

16-bit digital system providing easy interfacing for ancillary equipment by the operator

### **MANIPULATORS**

Right-hand  
-optional 4-function Gauntlet

### **STANDARD EQUIPMENT**

Colour and low light b & w cameras mounted on a tilt unit and scanning sonar. Auto-pilot is a standard feature incorporating both heading and depth as is the sonar. All features interface with a complete video overlay system. Digital stills system is available by interfacing the video signal into a topside PC with video-grab capability.

### **ADDITIONAL EQUIPMENT**

One function manipulator  
Cutter  
CP equipment  
FMD equipment  
Optional four function Gauntlet Manipulator

### **OPTIONAL TETHER MANAGEMENT SYSTEM (TMS)**

Saab Seaeye  
Garage Design

Tether capacity  
-200m

### **ELECTRICAL SUPPLY REQUIREMENTS**

Three phase 380-480Vac 60Hz

# TIGER SYSTEM

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## TECHNICAL SPECIFICATIONS



### DEPLOYMENT AND OPERATIONS

Surface control equipment is integrated into a custom ISO 20 foot control cabin, which also houses a workshop and spares storage.

### LAUNCH AND RECOVERY SYSTEM (LARS)

The LARS (Launch And Recovery System) includes a single skid A-frame and steel base (2,438 x 6,020 mm), supporting an electro-hydraulic power unit (HPU) and winch with an armoured umbilical cable. Maximum operational depth 1,100m.

### TETHER MANAGEMENT SYSTEM (TMS)

The purpose of the sub-sea TMS equipment is to protect the ROV during both launch and recover situations in adverse sea states.

The TMS is capable of operation in winds of Beaufort 6. An armoured lift cable provides the means for raising or lowering the launch system, and also provides electrical connections between the surface and sub-sea equipment.



- The standard observation and inspection ROV for operations to depths of 1,000 metres in the offshore oil and gas industry.
- Excellent performance in strong currents, superior handling and manoeuvrability.
- Operated from a Type 2 TMS system, deployed from 2 20 foot containers (one for control station and workshop; one for LARS, cage with TMS and ROV).

