

Equipment Data Sheet:



Description: Tiger 847 & 851 TMS ROV Systems

THE SEAEYE TIGER is widely regarded internationally as the standard observation and inspection ROV for operations to depths of 1000 metres in the offshore oil and gas industry. Its performance in strong currents, excellent handling and manoeuvrability are unsurpassed. Mermaid Offshore Services own and operates two Tiger systems; 847 and 851, both built and delivered in 2004.

- **Maximum operating depth: 1000 metres**
- **Colour & lowlight b/w cameras**
- **Super 'Seaking' imaging sonar system**
- **32 Kg (70 Lb) payload**
- **4 Vectored and one vertical SM 4M thrusters**
- **Auto heading and depth**
- **Thruster trim functions**
- **Fully interfaced for sonar and CP probes**
- **5 megapixel stills camera**
- **4 function manipulator**
- **TMS or free swimming mode**
- **300 watts of variable intensity lighting**
- **Integral video overlay**



A Seaeeye Tiger can be operated free swimming with up to 450 metres of umbilical or from a Type 2 TMS system to its full working depth.



Free swimming operations are possible with up to 450 metres of tether. For operations with umbilical lengths greater than 450 metres it is necessary to use a **Tether Management System (TMS)**. The Type 2 bale arm system providing an excursion range of 140 metres.

Seaeeye Tigers are open frame construction providing greater scope to fit additional accessories and more capable manipulators than 'eyeball' ROVs. This open frame construction also allows the horizontal thrusters to be mounted in the most efficient vectored arrangement providing far greater thrust in both forward and lateral directions than earlier axial and lateral thruster combinations.

Propulsion

All Tiger ROVs feature brushless DC thrusters which, apart from having the greatest power density, have integrated drive electronics with velocity feedback for precise and rapid thrust control. These thrusters are interfaced to a fast PID control system and a solid-state rate gyro for enhanced azimuth stability. Four vectored horizontal and one vertical SEAEYE SM4M brushless DC thrusters propel Tiger and provide full three-dimensional control.

Chassis

The 100% modular chassis is manufactured in polypropylene. This extremely rugged material is totally maintenance free, non corroding and self supporting in seawater. Additional equipment can be bolted directly to chassis members.

Control System & Video Overlay

A 16 bit digital control system provides easy interfacing of ancillary equipment by the operator. The SEAEYE comprehensive video overlay is fitted as standard providing digital and analogue compass rose, tilt icon, date time group, depth (metric or imperial), CP value, pre-titled and free text pages.