

VECTOR M5



VEHICLE DESCRIPTION

Vector M5 is a portable high performance Remote Operated Vehicle (R.O.V) system, combining superior power, telemetry and payload with ease of use, ruggedness and reliability providing a powerful overall performance envelope and versatility compared to other vehicles of its class. It has five high performance brushless thrusters; four vectored and one vertical.

The power and control system is network architecture for simplicity and ease of use, with multiple microprocessors providing redundancy and expanded capabilities. The design incorporates intuitive, computer-aided, always active diagnostics facilitating maintenance of the system in the harshest environments by technicians with a minimum of training.

FEATURES

Specially designed high performance brushless thrusters provide the highest power to weight ratio and reliability versus other vehicles in this class.

The graphical user interface (GUI), with multiple menu screens, provides intuitive feedback and active user control for ease of vehicle handling, navigation, collection and display of sensor data, as well as setting and storing custom system configurations.

Fabricated using modern marine grade aluminium and composite materials, the chassis is totally modular with quick access to all the parts for ease of servicing and replacement as required. Constructed from polypropylene, the chassis is resilient, non-corroding and maintenance free. Ancillary equipment is easy to mount and integrate. A major advantage of the Vector spread is its ability to be transferred between vessels or even by air or land transport anywhere in the world. The system is comprised by a portable rack unit with integrated monitors and compact transformers. Umbilical cases, spare parts and the vehicle itself can be shipped on short notice in a 10ft commercial container.



INSPECTION CLASS ROV

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SPECIFICATIONS

Standard working depth:	333 m
Optional working depth:	1,000 m
Vehicle Dry Weight (1,000 m):	114 kg
Vehicle Dry Weight (500 m):	105 kg
Vehicle Length:	1067 mm
Vehicle Width:	800 mm
Vehicle Height:	762 mm
Thrust Forward:	68 kg
Thrust Lateral:	50 kg
Thrust Vertical:	23 kg
Standard Payload:	23 kg
With Optional Payload:	32 kg

CHASSIS

A modular chassis manufactured from polypropylene. This extremely rugged material is maintenance free, self-supporting in water and noncorroding providing the vehicle with an energy absorbing protective framework. Ancillary equipment is easily mounted on the frames and bottom panel.

PROPULSION

Fully pressure compensated high performance DC brushless thrusters. The high torque, gearless thruster design is highly robust and quiet. A hydrodynamic nozzle provides symmetric thrust with a compact form factor. Careful attention to component design and materials for reliability and ruggedness, such as the use of high quality industrial mechanical seals, provide a long, dependable and near maintenance-free operational life.

ELECTRONICS / TELEMETRY

Continuous full control and diagnostics of onboard vehicle functions through a digital communications link. Standard configuration includes up to three continuous video channels over TSP (Twisted Shielded Pair), and expandable digital telemetry over copper including RS232, RS485, Ethernet and options for fiber-optic.

USER INTERFACES

The Graphical User Interface (GUI) provides intuitive feedback and active graphics for easily controlling vehicle handling, navigation and sensor data collection. The GUI includes several menu screens with readily accessible information to guide connectivity, setup, pre-dive checklist, navigation, inspection, post-dive checklist, diagnostics and an on-line searchable technical manual. The ergonomic hand controller can override the GUI/OSD (On Screen Display) computer, providing redundancy and back-up.

ON SCREEN DISPLAY

This is a continuously updated video display, which provides the operator with intuitive compass rose heading, depth, turns count, elapsed time, water leak alarm and much more information, allowing the vehicle to be operated safely. It may also be used to display sensor data such as temperature, altitude or GPS position on the screen. Additional digital and analog I/O channels and vehicle data may be exported to the navigational or survey computer.



The specification details are illustrative for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement. Specifications are subject to change without any prior notification.

Memberships & Accreditations



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