

## PRODUCT DATASHEET

# VALOR ROV

# RVT-RVAL / Product Type: ROV



## Product Datasheet

**Document Ref:** RVT-RVAL

**Product:** VALOR ROV

**Product Type:** ROV

## Overview

### REACHING BEYOND ITS CLASS

A lightweight, portable system setting new benchmarks for data collection and physical intervention at reduced cost and weight.

The VALOR ROV is a lightweight, highly portable system that has redefined industry benchmarks for what can be achieved in data collection and physical intervention, rivalling light work-class remotely operated vehicles at a far lower weight and cost.

## Description

The VALOR (Versatile and Lightweight Observation ROV) is one of the most powerful Observation ROVs available in its class.

The standard system has been built to be 300m rated, due to the unique design and with simple modifications, the depth rating can be extended up to 1000m. The versatility of VALOR is limitless given the significant payload, unrivalled power capability and available bandwidth allowing the ROV to manage complex tooling and sensor packages.

## Features

- Ability to manage complex tooling and sensor packages
- Industry leading control software
- More thrust than any other vehicle in this class
- An extremely flexible and configurable platform
- Supports multiple 1Gbps Ethernet links

## Technical Specifications

*Technical specifications and parameters*

Parameter	Value
<b>Depth Rating</b>	300m (1000 ft.) – extendable to 1000m with modifications
<b>Dimensions (L x W x H)</b>	860mm x 600mm x 565mm (33.9 x 23.6 x 22.2 in)
<b>Weight (In Air)</b>	~ 105Kg (231.5 lbs)
<b>Max Payload</b>	Up to 21kg (46 lbs)
<b>Through Frame Lift</b>	100kg (220 lbs)
<b>System Input Voltage</b>	415VAC (373–456 VAC range) / 480VAC (432–528 VAC range)
<b>System Input Current</b>	20 A – Base System
<b>Power Delivered to ROV</b>	640V DC nominal – 10kW Base System
<b>Tether</b>	6 x Power Conductors, 6 x SM Fibre, 1x Shielded Twisted Pair (300m supplied)
<b>Topside Weight</b>	90kg (198 lbs)
<b>Display</b>	1 x 17.3" Rackmount HD Monitor, 1 x Rackmount HD Touchscreen Monitor
<b>Surface Display Console</b>	Transit Case – 417mm (H) x 583mm (W) x 870mm (D)
<b>Input Device</b>	Joystick and throttle controller
<b>applications</b>	<ul style="list-style-type: none"> <li>• Dynamic laser scanning skid with INS</li> <li>• Photogrammetry skid</li> <li>• Dual electric manipulator skid</li> <li>• Bespoke tooling/cleaning skid options</li> </ul>

Specifications continue on next page →

## Technical Specifications

*Technical specifications and parameters*

Parameter	Value
<b>Horizontal Thrusters</b>	4 Thrusters vectored at 43° – RS485 controlled Brushless DC
<b>Vertical Thrusters</b>	2 Thrusters angled at 30° – RS485 controlled Brushless DC
<b>Thrust Forward/Backward/Lateral</b>	80kgf
<b>Thrust Vertical</b>	50kgf
<b>Lighting</b>	4 x 2250 Lumen dimmable LED
<b>Cameras Supplied</b>	2 x GigE Cameras
<b>Additional Camera Support</b>	1x PAL/NTSC, 1 HD/SDI camera and up to 5 IP cameras
<b>Expansion Ports</b>	<ul style="list-style-type: none"> <li>8 x Additional User ports</li> <li>1 high-power port (640V)</li> <li>Optional 8th thruster port</li> </ul>
<b>Pilot Aids</b>	<ul style="list-style-type: none"> <li>Auto Heading</li> <li>Auto Depth</li> <li>Auto Altitude</li> <li>Auto Hover</li> </ul>
<b>Advanced Navigation</b>	<ul style="list-style-type: none"> <li>Spatial Gyro (onboard INS)</li> <li>Mission planning</li> <li>Waypoint following</li> <li>Optional remote piloting</li> </ul>
<b>Key Features</b>	<ul style="list-style-type: none"> <li>Lightest ROV platform in class</li> <li>Adjustable payload</li> <li>System power beyond class</li> <li>Multiple 1Gbps Ethernet links</li> <li>Extremely flexible and configurable platform</li> </ul>
<b>Payload Examples</b>	<ul style="list-style-type: none"> <li>Dynamic laser scanning skid with INS</li> <li>Photogrammetry skid</li> <li>Dual electric manipulator skid</li> <li>Bespoke tooling/cleaning skid options</li> </ul>

## Get in Touch

*Get in touch for technical support and additional information*

For technical support, custom configurations, or additional product information, please contact our team. Whether you have a question about our products and services, a difficult engineering problem, or you'd like to discuss a potential project – we're here to help.

## Contact Information

*Details for how to get in touch with Rovtech*

Contact Method	Details	
<b>Website</b>	<a href="http://www.rov.tech">www.rov.tech</a>	
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<b>Social Media</b>	<a href="#">LinkedIn</a> / <a href="#">YouTube</a>	

## Revision History

*Record of document revisions and approvals*

Rev	Date	Author	Reference
1.0	21/05/25	Seyed	Initial revision for the website
1.1	27/10/25	Seyed	Updated specifications

## Disclaimers

*Important legal and usage disclaimers*

**Technical Specifications:** All specifications, dimensions, and performance data contained in this datasheet are typical values based on standard testing conditions and are subject to change without notice. Actual performance may vary depending on environmental conditions, installation, and operating parameters.

**Professional Use:** These products are designed for professional and industrial applications by qualified personnel. Proper training, installation, and maintenance are essential for safe and effective operation. Users must ensure compliance with all applicable safety standards and local regulations.

**Application Suitability:** It is the user's responsibility to determine the suitability of any product for their specific application. Rovtech Solutions Ltd. recommends consultation with our technical team for critical applications.

**Document Version:** This datasheet represents the current product specification at the time of publication. For the most up-to-date technical information, please visit our website or contact our technical support team.

# Get in touch for end to end Subsea Solutions.

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