REACHING BEYOND ITS CLASS

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.

Payload examples:

- Dynamic laser scanning skid with INS
- Photogrammetry skid
- Dual electric manipulator skid
- Bespoke tooling/cleaning skid options

Key features:

- One of the lightest ROV platforms in its class
- Adjustable payload
- System power beyond its class
- No power compromised for portability
- 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

Bespoke solutions - all tooling and sensor packages tailored to suit client requirements.

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VALOR Specifications

Depth Rating	300m (1000 ft.)
Length Width Height	860mm (33.9 in) 600mm (23.6 in) 565mm (22.2 in)
Weight in Air Max Payload Through Frame Lift	~ 105Kg (231.5 lbs) Up to 21kg (46 lbs) 100kg (220 lbs)
System Input Voltage System Input Current	Two ranges of PSU - 415VAC with an operating range of 373 to 456 VAC and a 480VAC with an operating range of 432 to 528 VAC. 20 A – Base System
Power Delivered to ROV Tether (300m supplied)[1]	640V DC nominal 10kW Base System 6 x Power Conductors, 6 x SM Fibre, 1 x Shielded Twisted Pair
Topside Weight Display Surface Display Console Input Device	90kg (198 lbs) 1 x 17.3" Rackmount HD Monitor 1 x Rackmount HD Touchscreen Monitor Transit Case - 417mm (H) (16.4 in) x 583mm (W) (23 in) x 870mm (D) (34.2 in) Joystick and throttle controller
Number of Horizontal Thrusters Type of Horizontal Thrusters Number of Vertical Thrusters Type of Vertical Thrusters Thrust Forward Thrust Backward Thrust Lateral Thrust Vertical	4 Thrusters vectored at 43° RS485 controlled Brushless DC 2 Thrusters angled at 30° RS485 controlled Brushless DC 80kgf 80kgf 80kgf 50kgf
Number of Lights Type of Lights Number of Cameras Supplied Type and Number of additional Cameras Supported	4 2250 Lumen dimmable LED 2 x GigE Cameras 1 x pal / NTSC, 1 HD / SDi camera and up to 5 IP cameras
Expansion Ports	5 x User connectors[2] each supporting; Variable 12V DC- 48V DC software configured power output Gigabit Ethernet RS232/422/RS485 (software selectable) 1 PPS 1 x additional high-power port (640V) Optional 8th thruster port
Pilot Aids	Auto Heading Auto Depth Auto Altitude (requires DVL / Altimeter to be fitted) Auto Hover[3] Advanced Navigation Spatial Gyro (onboard INS) Mission planning Waypoint following Optional remote piloting

1. 300m recommended for optimum performance
2. 3A maximum current per port
3. Adequate for pilot to take hands off the controls for short durations