

REACHING BEYOND ITS CLASS

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

The standard system has been built to 300m depth rated, however the unique design of this platform allows the vehicle to be extended up to 1000m with simple modifications.

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.

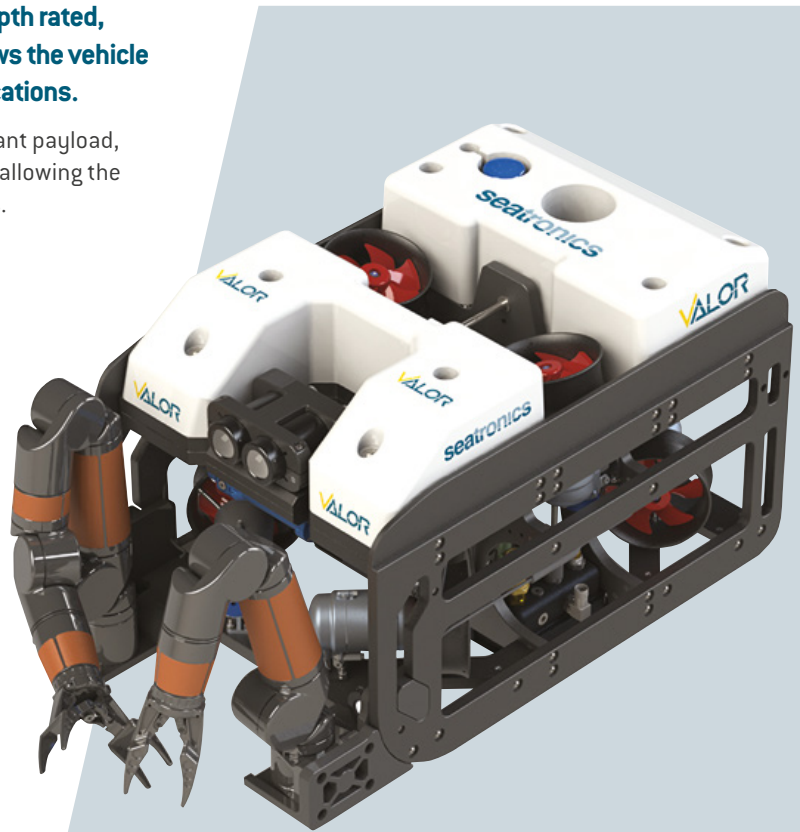
Payload examples:

- Dynamic laser scanning skid with INS
- Dual electric manipulator skid
- Cavitation cleaning skid with onboard pump

Key features:

- The lightest ROV platform in its class
- The highest payload in its class
- 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
- Mid-water Station Keeping (MWSK)

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





Versatile and Lightweight Observation ROV

VALOR Specifications	VALOR
Depth Rating	300m (1000 ft.)
Length Width Height	860mm (33.9 in) 600mm (23.6 in) 550mm (21.7 in)
Weight in Air Max Payload Through Frame Lift	~ 86Kg (189 lbs) ~ 21kg (46 lbs) 100kg (220 lbs)
System Input Voltage	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
System Input Current	20 A – Base System
Power Delivered to POV	800V DC 10kW Base System
Tether (300m supplied) ¹	6 x Power Conductors, 4 x SM Fibre, 1x Shielded Twisted Pair
Topside Weight Display	90Kg (198 lbs) 1 x 17.3" Rackmount HD Monitor 1 x Rackmount HD Touchscreen Monitor
Surface Display Console	Transit Case - 417mm (H) (16.4 in) x 583mm (W) (23 in) x 870mm (D) (34.2 in)
Input Device	Topside Controller c/w Hand 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 71Kgf (157 lbf) 71Kgf (157 lbf) 71Kgf (157 lbf) 43Kgf (95 lbf)
Number of Lights Type of Lights Number of Cameras Supplied Type and Number of Cameras Supported	4 2250 Lumen dimmable LED 2 x GigE Cameras 6 x 3G HD-SDI 1 x pal / NTSC, 1 HD / SDi camera and up to 5 GigE Vision / IP cameras
Expansion Ports	5 x User connectors each supporting; ■ Variable 12V DC- 48V DC software configured power output ■ Gigabit Ethernet ■ RS232/422/RS485 (software selectable) ■ 1 PPS ■ TTL Sync in³ ■ TTL Sync out³ ■ Analog in ± 10V 16-bits ■ Analog out ± 10V 12-bits Option to add AUX / Tooling Hybrid Connector
Pilot Aids	■ Auto Heading ■ Auto Depth ■ Auto Altitude (requires DVL / Altimeter to be fitted) ■ Auto Hover⁴ ■ Advanced Navigation Spatial Gyro ■ Greensea Professional

1. 300m recommended for optimum performance ■ 2. 3A maximum current per port ■ 3. Software routable between surface control and any combination of expansion ports ■ 4. Adequate for pilot to take hands off the controls for short durations

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and Tooling segment.

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