VALOR

Versatile and Lightweight Observation ROV

Reaching beyond its class.

Reaching beyond its class, the VALOR (Versatile and Lightweight Observation ROV) is the lightest yet most powerful Observation ROV available.
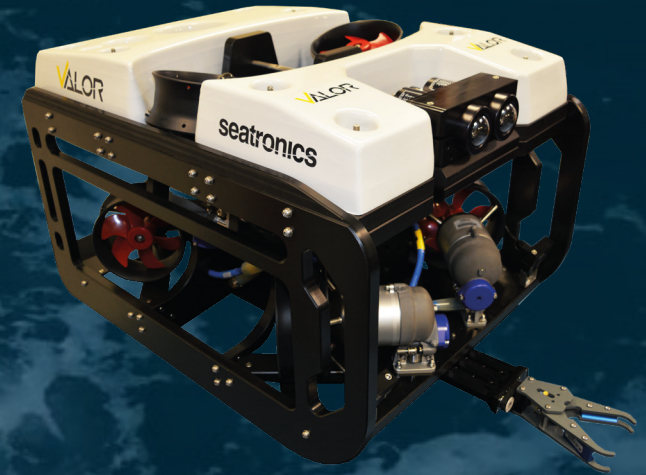
The standard system has been built to 300m depth rated, however the unique design of this platform allows the vehicle to be extended up to 1000m with simple modifications.

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 5-function electric manipulators skid
- Cavitation cleaning skid with onboard pump

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

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 & 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

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VALOR Specifications	VALOR	VALOR ELITE
Depth Rating	300 m (1000 ft.)	
Length Width Height	860 mm (33.9 in) 600 mm (23.6 in) 550 mm (21.7 in)	
Weight in Air Max Payload Through Frame Lift	~ 80 kg (176 lbs) ~ 21 kg (46 lbs) 100 kg (220 lbs)	
System Input Voltage System Input Current	3 Phase 415 VAC (Operating Range 373 – 456VAC) 20 A – Base System	3 Phase 415 VAC (Operating Range 373 – 456VAC) 20 A – Base System 39A – with Optional Tooling PSU
Power Delivered to ROV	800V DC 10kW Base System	800V DC 10kW Base System 10kW with Optional Tooling PSU *(at additional cost)*
Tether (300m supplied) [1]	6 x Power Conductors, 4 x SM Fibre, 1x Shielded Twisted Pair	6 x Power Conductors, 4 x SM Fibre, 1x Shielded Twisted Pair
Topside Weight Display Surface Display Console Input Device	80 kg (176 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) 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 45° 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 Teledyne 1500-B-LED, 1500 Lumen dimmable LED 2 x GigE Cameras 6 x 3G HD-SDI Up to 10 x GigE Vision / IP Cameras	4 Teledyne 1500-B-LED, 1500 Lumen dimmable LED 2 x HD Cameras to be supplied 6 x 3G HD-SDI Up to 10 x GigE Vision / IP Cameras
Expansion Ports	5 x User connectors each supporting; • Variable 12V DC- 48V DC software configured power output [2] • Gigabit Ethernet • RS232/422/RS485 (software selectable) • 1 PPS • TTL Sync in [3] • TTL sync out [3] • Analog in ± 10V 16-bits • Analog out ± 10V 12-bits *Option to increase to up to 10 user connectors & add AUX / Tooling Hybrid Connector*	10 x User connectors each supporting; • Variable 12V DC- 48V DC software configured power output [2] • Gigabit Ethernet • RS232/422/RS485 (software selectable) • 1 PPS • TTL Sync in [3] • TTL sync out [3] • Analog in ± 10V 16-bits • Analog out ± 10V 12-bits
Pilot Aids	• Auto Heading • Auto Depth • Auto Altitude (requires DVL / Altimeter to be fitted) • Auto Hover [4] • Advanced Navigation Spatial Gyro • Greenseas Advanced (Option)	

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