VALOR is designed and manufactured by Seatronics, an Acteon company, and uses a powerful combination of commercial and proprietary control and multiplexing techniques to provide the user with a low risk industry dominating solution. Encompassing tried and tested power-train, to deliver a highly configurable platform which is ideally suited to the demands of today’s military user.

VALOR reaches well beyond its class, harnessing its small form factor and unrivalled power and payload capabilities to provide flexibility and adaptability to whatever scenario is presented. It also provides the user with one of the most capable Mine Identification & Destruction System (MIDS) available, in addition to multiple other Defence & Security applications. Additionally, VALOR can be fitted with NBC detection sensors, magnetometer, P.A.N Disruptor for mine or IED neutralization and fitted with manipulator arms for delivery of UXO placement charges etc.

**Defence Applications**

- Mine Identification & Destruction System (MIDS)
- Explosive Ordnance Disposal (EOD)
- Unexploded Ordnance (UXO) Survey
- Expeditionary & Special Forces Operations
- Anti-Terrorism & Force Protection
- Intelligence Surveillance and Reconnaissance (ISR)
- Port & Harbour Security
- Swimmer Detection
- Hull and Infrastructure Survey / change detection
- Salvage & Recovery
- Search & Rescue / Diver Support
- Environmental Assessment

**Key Features**

- Unrivalled Sensor & Tooling packages way beyond its class (40Gb Telemetry / 10Kw+ Tooling)
- MIDS ready with multiple other Defence & Security configurations
- Syntonic Control System enhances pilot experience & extends operational capability
- Best available hands free, supervised autonomy & high current station keeping options
# VALOR Specifications

<table>
<thead>
<tr>
<th></th>
<th>VALOR</th>
<th>VALOR ELITE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Depth Rating</strong></td>
<td>300 m (1000 ft.)</td>
<td>300 m (1000 ft.)</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>860 mm (33.9 in)</td>
<td>1000 mm (39.4 in)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>600 mm (23.6 in)</td>
<td>762 mm (30 in)</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>550 mm (21.7 in)</td>
<td>762 mm (30 in)</td>
</tr>
<tr>
<td><strong>Weight in Air</strong></td>
<td>~ 80 kg (176 lbs)</td>
<td>~ 100 kg (220 lbs)</td>
</tr>
<tr>
<td><strong>Max Payload</strong></td>
<td>~ 21 kg (46 lbs)</td>
<td>~ 32 kg (71 lbs)</td>
</tr>
<tr>
<td><strong>Through Frame Lift</strong></td>
<td>100 kg (220 lbs)</td>
<td>100 kg (220 lbs)</td>
</tr>
</tbody>
</table>

## System Input Voltage

- **3 Phase 415 VAC (Operating Range 373 – 456VAC)**
- **20 A – Base System**

## Power Delivered to ROV

- **800V DC**
- **10kW Base System**

## Tether (300m supplied)

- 6 x Power Conductors, 4 x SM Fibres, 1x Shielded Twisted Pair

## Topside Weight

- Display: 80 kg (176 lbs)
- Topside Controller c/w Hand Controller: ~ 80 kg (176 lbs)

## Surface Display Console

- Topside Control - 17.3” Rackmount HD Monitor
- Topside Controller - 17.3” Rackmount HD Touchscreen Monitor

## Number of Horizontal Thrusters

- 4 Thrusters vectored at 45°
- RS485 controlled Brushless DC

## Type of Horizontal Thrusters

- RS485 controlled Brushless DC

## Number of Vertical Thrusters

- 2 Thrusters angled at 30°
- RS485 controlled Brushless DC

## Type of Vertical Thrusters

- RS485 controlled Brushless DC

## Thrust Forward

- 71Kgf (157 lbf)

## Thrust Backward

- 71Kgf (157 lbf)

## Thrust Lateral

- 71Kgf (157 lbf)

## Thrust Vertical

- 43Kgf (95 lbf)

## Number of Lights

- 4 Teledyne 1500-B-LED, 1500 Lumen dimmable LED

## Type of Lights

- Teledyne 1500-B-LED, 1500 Lumen dimmable LED

## Number of Cameras Supplied

- 2 x GigE Cameras
- 2 x HD Cameras to be supplied
- 6 x 3G HD-SDI
- 6 x 3G HD-SDI
- Up to 10 x GigE Vision / IP Cameras
- 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
  - Gigabit Ethernet
  - RS232/422/RS485 (software selectable)
  - 1 PPS
  - TTL Sync in
  - TTL Sync out
  - Analog in x 10V 16-bits
  - Analog out x 10V 12-bits
  - Option to increase to up to 10 user connectors & add AUX / Tooling Hybrid Connector

## Pilot Aids

- Auto Heading
- Auto Depth
- Auto Altitude (requires DVL / Altimeter to be fitted)
- Auto Hover
- Advanced Navigation Spatial Gyro
- Greenseas Advanced (Option)

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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