

## AEGIR 250 OBSERVATION ROV

### **Technical data**

Length: 1350mm  
Width: 1000mm  
Height: 850mm

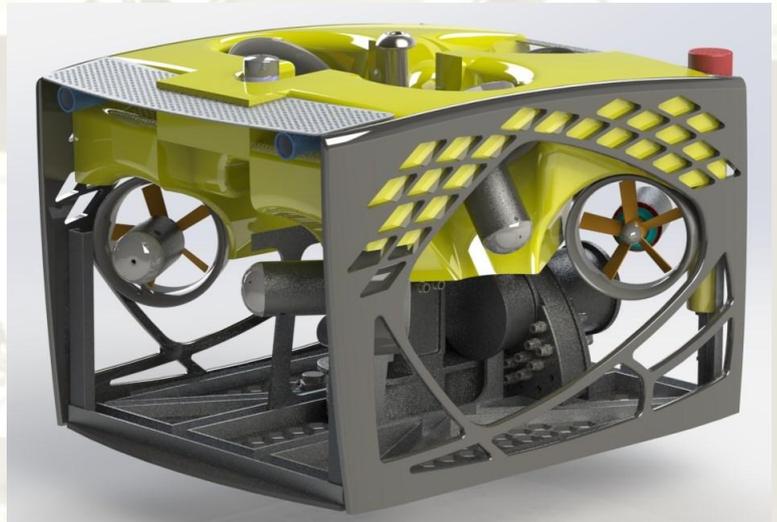
Launch weight: 350kg  
Payload: 30kg  
Through frame lift: 100kg

Depth rating: 1000m

### Thrust

Forward: 1800N  
Lateral: 1250N  
Vertical: 1450N

Power: 20kW



### **Observation is the new work**

Aegir 250 is built to be a capable performer on observation as well as light work tasks. More powerful than any ROV in its' class it is built like a work ROV, with 7 thrusters to enable full control also in the pitch and roll directions.



### **When uptime is the key**

Designed from the ground up with maintainability in mind the ROV itself constantly performs sanity checks on all systems and in collaboration with the pilot comes up with solutions to problems.

All connections are constantly monitored for voltage and current as well as isolation faults. All can be individually switched by the pilot in real-time and are protected by both settable electronic and physical fuses. The same goes for survey channels, all are isolated and individually switchable.

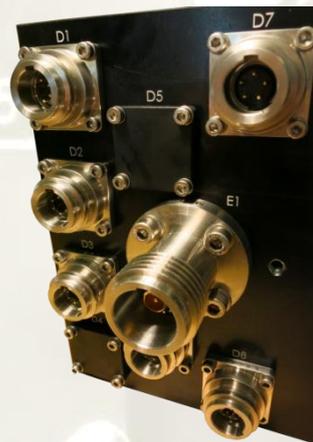
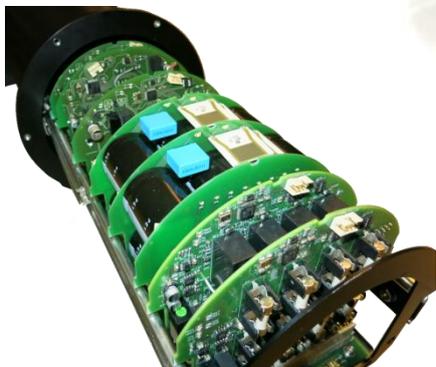
High-quality connectors ensure a trouble-free use with many matings. The connectors are also terminated in an easy access pod with spare capacity, should the need for repairs or exchange arise.

### **Further information**

[info@ocean-robotics.com](mailto:info@ocean-robotics.com)

## Connect the world

Besides the system's internal orientation sensors the vehicle can be equipped with a vast range of external sensors and actuators. SD and HD video channels, GB Ethernet and various serial formats are but a few of the possibilities. Bulky equipment can be placed in an underslung skid, with attachment points directly into the central frame.

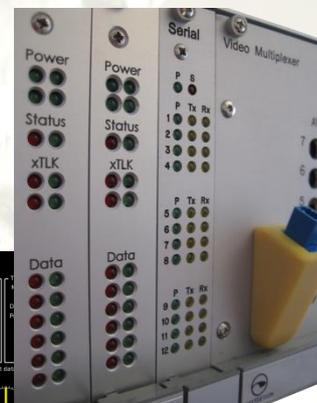


## The beating heart

The electronics of the vehicle are all easily reached in their extendable rack, even while powered, for maintenance and service. The internal communication network, which is divided into several isolated nets to maintain integrity at all times, is based around a core real-time OS. Communication between the vehicle and surface is based around a fiber multiplexed channel, with all-copper options for rugged, field-maintainable systems.

## A fine level of control

Even though extremely capable, AEGIR is very easy to control. Thanks to the sophisticated control system with integrated 3-dimensional orientation sensors it doesn't take long to get acquainted and mastering piloting the ROV. Intuitive and customizable pilot controls helps with the job and off-loads the pilot. A comfortable pilot chair and all controls at the tip of your fingers, through physical levers and touch-screen GUI, enable long hours without fatigue.



## Power to the core

AEGIR packs a very powerful punch with seven brushless direct-drive DC thrusters, all tested in operation down to the maximum depth.

The power supply chain is constructed solely from solid-state components and transformers, no converters or high-frequency parts are used, to ensure a safe and reliable solution.