

# ROV AEGIR 35

## Technical specification



### **Physical data**

Length	800mm	Depth capacity ROV	500m
Width	530mm	Power requirements	1.5-3kVA
Height	440mm	Thrust	
Launch weight	38kg	Forward	380N
Payload	5kg	Lateral	200N
Tether capacity	Up to 500m	Vertical	200N

## Construction

The ROV is based around a buoyancy and a surrounding crash frame. It can be set up to use either all copper or fiber tethers, depending on excursion length. Each thruster is internally oil compensated, with integrated compensator feed-back.

The vehicle uses a distributed control system, with each component connected to a data bus. The telemetry can be equipped to handle any sensors the client requires.

Thanks to the corners of the ROV cross-section being cut the projected diameter of the vehicle is kept to a minimum, perfect for confined space exploration. The lower part of the frame is kept free to enable skid and equipment attachment without adding to the vehicles external dimensions.

## Power supervision

Both high and low voltage connections on the vehicle are constantly monitored for isolation faults.

## Electronics pod

The controller for the ROVs internal systems are housed in the centralized pod, together with connectors for external equipment. The pod is equipped with the following connections:

- 6x thrusters
- 1x spare thruster / external power 300V
- 2x video channels
- 3x lighting channels
- 1x external drivers +/-
- 1x survey
- 1x tilt
- 1x altimeter
- 1x IMU (9DOF)
- 2x spare blanks

Depending on the communication set-up the ROV can be equipped with various telemetry channels, handling HD, Ethernet, additional serial channels etc.

## Cameras

The ROV is equipped with a color zoom camera and one miniature wide-angle color camera as standard. Any additional cameras can be fitted (depending on telemetry choices).

## Lighting

The vehicle can be equipped with up to 6 LED lights, each individually controllable. Data per light:

- 4000lumen light output
- 24VDC, 40W
- Fully dimmable, digital control with presets for all lights

## Sensors

The vehicle comes as standard equipped with:

- 1 x depth sensor with over-depth warning (30-50bar range, 16-bit resolution)
- 1 x IMU with 3D magnetometer, accelerometer and gyro (2° RMS heading accuracy, 1° RMS roll/pitch accuracy)
- Water ingress alarms
- Earth isolation alarms

## Sonar and transponder

The ROV can be equipped with any sonar and positioning system (subject to weight and power limitations).

## Auto functions

Standard (all can be disabled by user under operation):

- Depth
- Heading
- Altitude (if altimeter fitted)

Optional:

- AutoPilot / Station-keep (additional sensors required for full-fledged station-keep)