

# C-Enduro

## Long Endurance ASV

C-Enduro is a long endurance autonomous surface vehicle used to safely and cost effectively collect data at sea. Built to operate in all marine environments, C-Enduro uses energy harvesting technology combined with an efficient self-righting hull. C-Enduro's unprecedented payload capacity and power enables the use of a combination of payloads during any one mission. Use of the C-Enduro can dramatically reduce the cost of data collection by removing the need for traditional survey vessels. Use of mission planning and waypoint setting can often result in a more accurate dataset.

### KEY FEATURES



- 30+ days endurance
- Advanced mission planning and energy budget tool
- Data transmission for sensor and vehicle data
- Far field and reactive collision avoidance capability
- Low operating costs (per mile, per data point)
- Large payload capacity (>0.5m<sup>3</sup>, over 50W continuous power)
- Rugged carbon fibre, self-righting catamaran hull
- Diesel, solar, and wind power options
- Diesel generator provides assured power for propulsion and payloads in all environmental conditions
- Below water sensors can be mounted below the deck, on the keel and/or winch
- Mast suitable to house weather sensors and cameras suites
- Over the horizon operations using broadband satellite communications

### APPLICATIONS



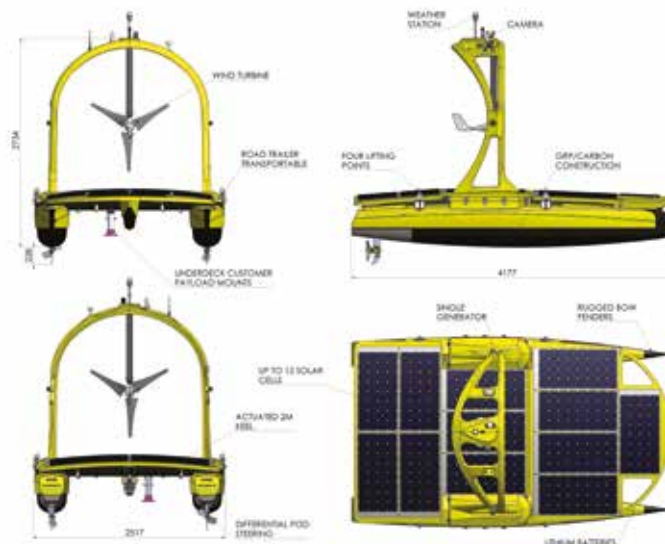
- Metocean and oceanographic data collection
- Renewable energy surveys
- Marine construction support
- Environmental surveys e.g. CO<sub>2</sub> monitoring
- Seismic support e.g. passive acoustic monitoring
- Data gateway e.g. AUV/ROV/Glider to satellite
- Security and situational awareness

We are passionate about developing autonomous maritime vessels. Since 2008 we have pioneered the development of unmanned technology. We have designed and built more than 80 vessels which are now deployed all over the world in the service of the oil & gas, scientific and defence sectors. We are the sector's most experienced, tested and successful developer. We employ a world class team to deliver a safe, efficient, and reliable solution.

# C-Enduro

## TECHNICAL SPECIFICATIONS

C-Enduro	
Length	4.2m
Beam	2.4m
Height	2.8m (including antennae), 1.5m (mast off)
Draft	0.4m keel up
Weight	350kg lightship
Propulsion	2 x DC brushless motors
Speed	Up to 6.5 knots
Endurance	30+ days depending on power configuration, latitude and time of year
Control	ASView for direct, semi-autonomous or autonomous control
Communications	Radio/satellite
Solar panel system	12 high efficiency panels generating a peak electrical power of 1200W
Diesel generator system	Electric start diesel generator providing a peak charging power of 2.5kW. Can be run continuously for higher speed and payload missions
Wind turbine system	Lightweight three blade system generating a peak output power of 500W
Sensor options	Keel mounted sensors, CTD lowered by winch, meteorological sensors, ADCP, MBES, side-scan so-nar, PAM, acoustic modem, ASW (towed array or dipping), electronic warfare.



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