

# Survey Vessel

# Lia



15.0m High Performance Aluminium Catamaran - Lia, launched in July 2004, is the company's latest commission aimed at providing the most technically advanced, comprehensively equipped and capable coastal survey vessel in the UK. Since its launch it has proved itself in a wide range of tasks, from roV work to seabed mapping.



<b>Designer</b>	Global Marine Design PTY, Henderson, Western Australia
<b>Builder</b>	All-It Marine Limited, Pembroke Dock, UK
<b>Launched</b>	July 2004
<b>Length (LOA)</b>	15.30 metres / 50 feet
<b>Beam</b>	5.60 metres / 18 feet 4 inches
<b>Draft</b>	0.85 metres / 2 feet 9 inches
<b>Working Displacement</b>	22500 kilograms / 22.5 tonnes
<b>Maximum Speed</b>	30 knots / 55 kilometres per hour
<b>Economical Cruising Speed</b>	26 knots / 48 kilometres per hour
<b>Maximum Range</b>	600 nautical miles / 1100 kilometres
<b>Operating Code</b>	MCA Category 2 (60 miles from safe haven unrestricted)
<b>Max Personnel</b>	12 Including crew (Sleeping accommodation for 4)
<b>Fuel Capacity</b>	3000 Litres / 660 Gallons
<b>Main Engines</b>	2 x Yanmar 6LY2 STP 440hp Turbo charged 6 cylinder high speed diesels. ZF/Mathers Clear Command 'fly by wire' controls and engine/gearbox management system.
<b>Gearboxes</b>	ZF 110ATS 2-speed hydraulic gearboxes with electrically operated trolling valves for extended slow speed operation. High gear allows economical cruising at 26 knots.
<b>Hydrofoils</b>	Oil filled, polished stainless steel hydrofoils fitted between the hulls to provide lift for increased cruising speed and dampening of low speed pitching motion.
<b>Generator</b>	Kholer 15.5kVa 415/240 volt 3 phase generator fitted with phase balancers for 240v operation, isolation transformer and UPS backup for all equipment.
<b>Inverter</b>	4500w pure sine wave inverter with smart transfer, charging and UPS.
<b>Crane</b>	Bonfiglioli P3500L hydraulic crane with maximum outreach of 6.25m (520kg) / 3.25m (990kg) and integrated 500kg winch carrying 90m of wire for instrument deployment.
<b>Moon Pool</b>	Centrally located 1.25 x 1.50m moon pool with 2 piece deck hatches and mounting brackets for transducers.
<b>Side Scan Winch</b>	Marine Winch Design 3 phase variable speed electric sonar winch. 4 pole slip rings and 300m of armored 6mm co-axial data cable with stainless steel deployment davit.
<b>Windlass</b>	Lofrans Titan 1400kg capacity windlass.
<b>Rear Platform</b>	Stepped rear platform with double transom gate for easy access to water level for launch and recovery of equipment and divers. Open sided full height dive ladder.
<b>Rear Deck</b>	30 square metre working deck with fluorescent lighting, all round bulwarks and safety rails, central guardrails around moon pool and small storage locker. Fully heated heads / shower room with drying space for wet weather gear.
<b>Wheelhouse</b>	24 square metre wheelhouse with fully fitted galley, seating area, 3 forward pilot seats, computer racking and work bench along starboard side.
<b>Accommodation</b>	2 heated cabins below with 2 bunks per cabin, lighting and power points, accessed from wheelhouse.
<b>Forward Locker</b>	Large walk in storage locker in bow section accessed from forward deck. Hanging rails and storage bins for ropes and fenders. Over 2.5m headroom on either side with rails for hanging wet weather gear, dry suits and dive gear etc.
<b>Instrumentation</b>	CSi Vector Sensor dGPS and GPS Gyro system, Simrad CE54 combined chart plotter and echo sounder, Simrad RA50 high speed 36 mile radar, Simrad AP50 autopilot, Simrad IS15 log, Simrad EA400 dual frequency hydrographic echo sounder, Simrad DSC VHF, Simrad HT50 handheld VHF, Echo pilot forward looking sonar.
<b>Tender</b>	Avon 3.5m RIB with 15hp outboard stored on wheelhouse roof.



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