

OCEAN α

L42 Marine Survey USV Platform



8 Days @ 4KN | **500 KG**
Endurance | Payload



MBES



Sub-bottom Profiler



Side Scan Sonar



Magnetometer

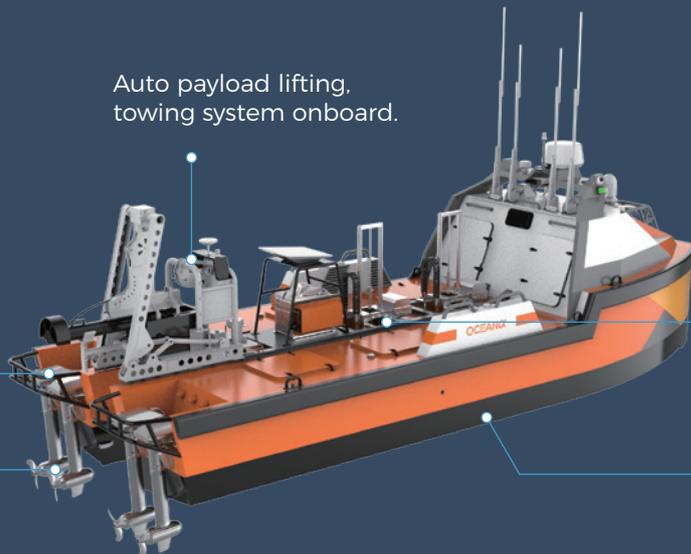
Hybrid power brings over 8 days/1500km endurance.

Auto payload lifting, towing system onboard.

Catamaran hull, wide deck and dual moon pool design.

Propulsion redundancy with four electric motors.

Support multi payloads, MBES, SBP, Towed SSS, MAC, USBL, etc.



APPLICATION SCENARIOS

- Offshore wind site and cable route survey
- Offshore oil and gas pipeline inspection
- Channel, harbor, and nearshore survey
- Environmental monitoring, seabed mapping

INTEGRATIONS

MBES	Sub-bottom Profiler	Side Scan Sonar	Magnetometer	Water Quality Sonde	ADCP
USBL	Towing Support: Magnetometer / Side Scan Sonar				

SPECIFICATIONS

Physical

Dimension	8.4m(L) × 2.8m(W) × 2.8m(H)
Dry Weight	3t
Draught	0.4m
Hull Type	Aluminium catamaran
Fuel tank capacity	400L × 2 (diesel)

Performance

Payload	500kg
Max Speed	6 kn
Survey Speed	4~5 kn
Endurance	8 days /1500km @ 4kn
Operation Sea State	Sea State III

Power & Propulsion

Diesel generator (2 sets)	PAGURO 18VK, 18kW/set, water cooling
Electric propeller (4 sets)	NAVY 6.0 Evo-L, 6kW/set
Power batteries	Li-ion iron phosphate battery, 51.2V/280Ah

Integration Support

Auto lifter (2 sets)	850mm, hydraulic drive, IP65 protection
Towing system	Dynamic load ≤50kg, static load ≤75kg
Power supply interface	12V/24V DC total power 300W 220VAC total power 1700W

Control & Communication

Starlink communication terminal	220Mbps downlink/25Mbps uplink, IP56 protection
Broadband private network radio	1.4GHz, coverage distance 10-15km
Iridium digital transmission terminal	Support short data transmission and positioning