

GEO OCEAN II

Offshore Survey & Support Vessel



GEOMATICS ENGINEERING SOLUTIONS



SUPPORT ACTIVITIES / VESSEL CAPABILITIES

Geo Ocean II can accommodate in total 23 persons (crew + Passengers/Surveyors) has an Azimuth thruster and great survey room facilities. The vessel is capable of serving the offshore industry in various tasks, such as:

- Site investigations
- Guard vessel
- Diving & ROV support
- Geophysical surveys:
 - multibeam
 - singlebeam
 - high resolution seismic
 - side scan sonar
 - magnetometry
- Cable & Pipe route surveys
- Bottom and sediment sampling
- Density and shear strength measurements
- Anti oil spill
- Seabed sampling and environmental surveillance.





TECHNICAL SPECIFICATION

General

Name	M/V Geo Ocean II
Flag	Luxembourg
Port of reg.	Luxembourg
Classification	DNV-GL - Unrestricted Navigation
Construction	Totally rebuilt in Denmark 2006

Dimensions

Overall Length	39,90m
Length p.p.	32,25m
Width moulded	9,45m
Depth moulded	4,75m
Draught max.	5,30m
Gross Tonnage	424,0 GT
Netto Tonnage	149,6 NT

Accommodation

5x1 persons
 9x2 persons
 Galley / Provision
 Mess room
 Dayroom
 Dressing room
 Laundry
 Hospital
 Gymnasium
 Survey room with survey desk and 19" computer racks.
 All accommodation new - fitted year 2006

Safe Manning

1 Captain, 1 Navigator, 2 Deck hands, 1 Engineer.

Performance

Service speed	10 kts
Max. speed	11 kts app.
Range (service speed)	App. 7000 nm

Bunkers

Fuel	87.81 tonnes.
Freshwater	44.79 tonnes.
Luboil	1,25 tonnes
Reverse osmosis plant MT4500 capacity 4.5 m ³ /day at 25 °C seawater.	

Sanitary installations

Osmosis black and grey water treatment plan MBR BG-G.

Propulsion

B&W Alpha 23-30 1100 BHP Pitch propeller
 2 x 275 KW Volvo TAMD121A
 1 x 210 KW Volvo TAMD120
 aux. Engines.
 Electrical capacity available for client: App. 150 kW / 2 x 125 A
 Main engine and aux. engines installed year 2006
 1 x 280 KW. Bow azimuth – aquamaster UL381/2875
 Driven by a Volvo TAMD122A 280 KW
 1 x 250 HK Ulstein Stern Thruster – electric driven

Power supply

380V/50 Hz 230V/50 Hz
 2 x 125 Amps. on aft deck and in survey room.

Deck equipment

NOREQ 6,4m FRC fitted with 2x60Hp outboard engines
 1 x EFFER 20000 marine crane. Capacity 2.440 kg at 8 m. reach. Maximum capacity 1530 kg at 10.3 meter. Mounted with winch.
 1 x Vest A-frame aft SWL 2.5 t. Equipped with 2.5 t. winch.

Free deck space

Aft deck 7m x 7m = 49m²
 Boatdeck 16m x 5 m = 80 m² and stowage position for 1 x 20' container.

Navigation / communication equipment

2 x Furuno Raster-scan ARPA Radar 32 mile
 Furuno GPS
 Penta electronic seamap
 JRC AIS
 Sailor VHF DSC
 2 x EPIRP
 SART
 Furuno colour echosounder
 Furuno satellite compass
 A2 Radio station Sailor
 GSM mobile telephone
 Fleet 33 phone, high speed data and fax.
 (Xantic e-mail facilities).