- DP 1
- Hybrid (75% fuel reduction)
- HiPap 501
- Green passport Lloyds
- Lifting eyes

GEO PLUS
NETHERLANDS

Geo Focus

35 m Hybrid Survey / ROV support vessel

Classification / Flag / Registration

Vessel Name	:	Geo Focus
Owner	:	Geo Tender IV B.V. (Geo Plus)
Flag	:	Dutch
Call sign	:	PCOS
IMO	:	9628855
Port of registry	:	Eemshaven
Built	:	2012
Builder	:	De Haas Maassluis, Netherlands
Range	:	1200 NM @ hybrid mode, 650 NM @ operational speed (13 knots), 10-14 days full operation
Classification	:	Lloyds Register + 100 A1, SSC, G3 Workboat, MONO, UMS, [+]LMC, DP(AM), EP, Green Passport, 200nm Limit

General dimensions

Length overall	:	34.50 m
Length between perpendiculars	:	32.07 m
Length waterline	:	32.84 m
Height *(mast down)*	:	13.00 m
Breadth moulded	:	7.83 m
Breadth overall	:	8.33 m
Depth	:	4.23 m
Draft	:	2.00 m
Gross Tonnage	:	160/204 tons

Geo Plus Survey BV

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P.O. Box 45
9679 ZG Scheemda
(The Netherlands)

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info@geoplus.nl
www.geoplus.nl

Accommodation

Single cabins	:	2
Double cabins	:	8
Total accommodation	:	18 persons
Comfort cabins	:	High Norwegian standards, WIFI, each cabin provided with toilet and shower.
HVAC system	:	The air conditioning system is designed for both tropical and arctic conditions. The system has two separated units for the wheelhouse, survey room, and the accommodation below deck to avoid interference in comfort of the crew during 24 hours duty. On the wheelhouse/survey room deck a drop air conditioning system takes care for comfortable work condition without chill flow.
Crew facilities	:	Lounge, mess room, galley (HACCP compliant), changing room, internet, TV, library, game console

Speed / Consumptions

Speed	:	max. 15 knots
Speed Hybrid	:	max. 9 knots
Transit speed	:	13 knots / 230 l/h
Survey speed (Hybrid)	:	8 knots / 50 l/h

Capacities

Fuel	:	17.50 m^3
Fresh water	:	2.60 m^3
Grey water	:	2 x 2.60 m^3
Black water	:	1 x 2.60 m^3
Fresh water generator	:	Aquamar AQE-4D, capacity 3200 l / 24 h

Multifunctional work deck

Deck space	:	40 m^2
A-frame	:	SWL 3500 kg, hoisting capacity hydraulic winch 3200 kg, outreach approximately 3 m back- and forward of rotation point.
Deckcrane	:	Knuckle boom marine crane (Heila HLMR 16-3S), 10.97 m reach from crane axis, max. load @ max. reach is 1200 kg @ 10.97 m, load sensing, for efficient power request, remote control for easy operation.
Moonpool	:	600 mm
Hatch	:	clear opening 4.50 x 1.50 m, provides access to the workshop (located in the engine room)
Provided power	:	2 x 400 V (3PH) - 63 A, 2 x 400 V (3PH) - 32 A and 2 x 230 V, 16 A
Other facilities	:	electric deck heating, grid of container fittings, removable railing, fresh water tap, 25 mm rubber deck coverage, easy cable entry from workdeck to the survey room and technical room.
Dynamic position	:	Alphatron / NAVIS 400 – DP Class 1 (AM) DP. Operations can be executed both from the survey room and the wheelhouse.
MOB Boat	:	SOLAS approved MOB boat (5 persons and 1 person on stretcher), positioned on large hatch or on top of container.

Machinery / propulsion

Main diesel engines	:	2x Caterpillar C18 ACERT 651 KW @ 2200 rpm (6 Cil. In-line)
Gearboxes / Diesel-Electric propulsion	:	Reintjes 344 RHS (Hybrid Drive)
Bow Thruster	:	2x Voith Inline Thruster VIT 380-50
Generators	:	2x John Deere Genset 209 KW @ 1500 rpm

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GEO PLUS NETHERLANDS

Survey Equipment

Multibeam	:	Kongsberg EM 2040 (hull mounted), 200/300/400 kHz, 0.5x1° Dual Head
Singlebeam	:	Kongsberg EA 400 (hull mounted), 38/200 kHz
USBL positioning	:	Kongsberg HIPAP 501
Gyro/Motion reference	:	IXSEA Hydrins III
Hydr. Positioning	:	C-NAV 3050, PPP/RTG/RTK/DGPS Trimble SPS852, RTK/DGPS
Sound Velocity Probe	:	Valeport mini SVP
Sound Velocity Sensor	:	Valeport mini SVS

Navigation

- Sea Radar X-band (JRC)
- River Radar (JRC)
- ECDIS (Alphachart T ECDIS)
- Speedlog
- Echosounder
- DGPS
- AIS
- NAVTEX
- CCTV system on aft deck, top deck and engine room
- Integrated control and alarm system (BIMAC)

Communication / Connectivity

- VSAT – Intellian V110
- Inmarsat Fleet Broadband
- UMTS
- WIFI
- 12 / 24 / 220 / 400 V connections

All data streams are optimized by Exinda's broadband management system, which allows the opportunity to give preference to certain data streams. In addition to the broadband combining system VIPRINET ensures all available data lines are used to their full capacity. VIPRINET also ensures safe transfer of all data.

Entertainment / Leisure

Broadband connections are provided for personal use throughout the vessel. LAN and WLAN connectivity is available in each cabin. The mess room and lounge are equipped with a 37" HD LED television connected to a SAT TV system, additional, the lounge provides an audioset and game console.

Additional Facilities

Interactive LED HD screens are provided in the wheelhouse and survey room with Sympodium touchpanels for presentation purposes. Added comments and marks on documents and drawings are accessible and can easily be forwarded.

Sustainable Features

- LED lighting inside and outside, Wheelhouse, Surveyroom, Navigation and Floodlights.
- Hoisting eyes on the vessel make it possible to ship the vessel on board of a larger vessel to ship it all over the world.
- Hybrid drive so less fuel consumption, and less NOx.
- Green Passport and Environment Protection (EP) class notification.

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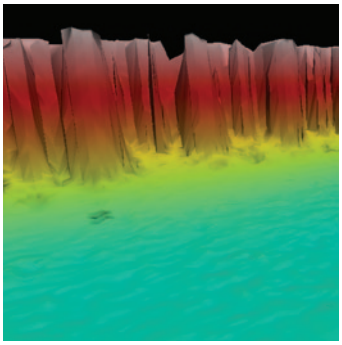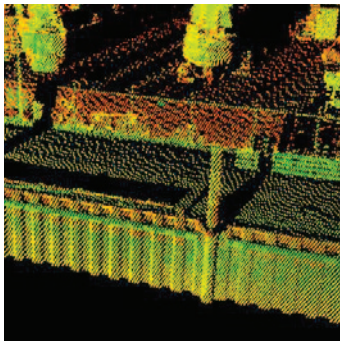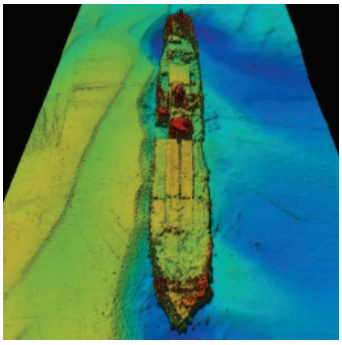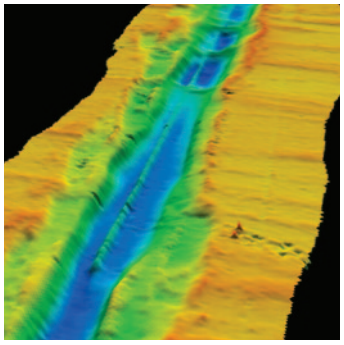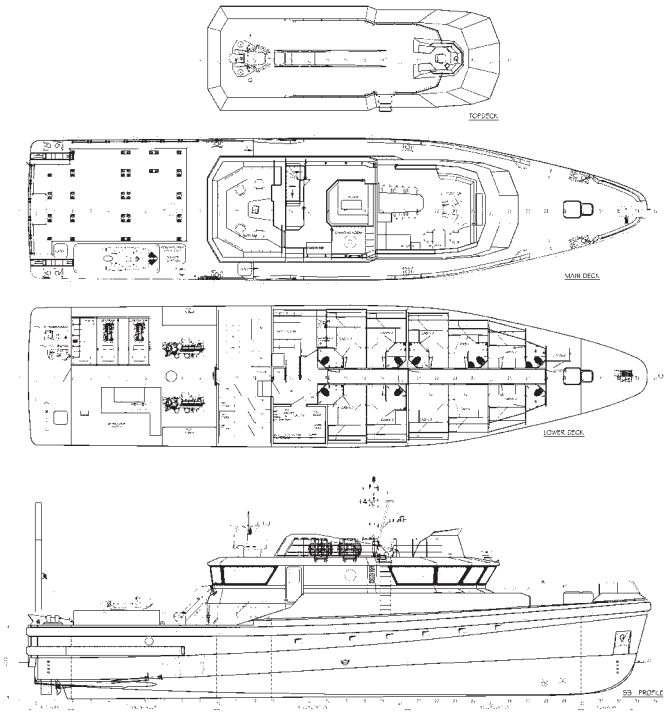
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