



The Nautical Geo is a research vessel available for worldwide operations. Fitted with cutting-edge survey equipment, she can undertake complex survey operations as well as light construction support, ensuring cost effectiveness and saving time.

Ready to work:

- GEOPHYSICAL SURVEY
- WELL SITE SURVEYS
- GEOTECHNICAL SURVEY
- CABLE AND PIPELINE SURVEY
- ENVIRONMENTAL SURVEY
- UNDERWATER CONSTRUCTION & SUPPORT
- INSPECTION, REPAIR AND MAINTENANCE

VESSEL IDENTIFICATION

Year Completed	2000 by Yantai Raffles
Port of Registry	Valletta
Flag	Malta
Call Sign	9HA4507
RINA Classification	C special service - research ship unrestricted navigation DYNAPOS AM - R
IMO	9223708

LIGHTHOUSE S.p.A.

Via Prati, 1/1 · Ponte Ronca · 40069 Zola Predosa, Bologna · Italy

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TECHNICAL SPECIFICATION

MACHINERY

Main Engines	(2) Electrical (4000 bhp tot)
Propellers	(2) 4 BLADE CPP
Kort Nozzles	(2) KHI 2 DRIVE 4 blade CPP
Bow Thrusters	(1) Azimuthing FPP (1) Tunnel CPP
Primary Generators	(4) 5760 kW 440 V 60 Hz
Secondary Generators	(1) 500 kW 440V 60 Hz
Emergency Generators	(1) 99 kW 440V 60 Hz

DECK FACILITIES

Deck	2.5 t/m ² - steel
Clear Deck Space	252 m ²
Deck Load	1,525 t
Fuel Oil	997 t
Potable Water	286 t
Lube Oil	9.2 t
A-FRAME	SWL - 22.7 t
Rescue Boat	SOLAS
Geophysical winch	Romica – Electric Side Scan Sonar Winch – Drum capacity 5500m - 17.3mm diameter – SWL 5.0 t (first Layer)
CPT winch	OLEO MEC BUCCELLA Hydraulic SWL = 10.0 t; Drum capacity max: 4000 m of ø 18mm wire rope
Service winch	SWL = 5.0 t; Hydraulic - Drum capacity max: 500 m of ø 20mm wire rope.
CRANES	SWL 14.5 t SWL 7.1 t

PERFORMANCE

Maximum Speed	12 kts
Economy Speed	10 kts

DIMENSIONS

Length Overall	74.5 m
Beam	17.8 m
Depth	5.8 m
Maximum Draft	4.7 m
Maximum Draft with Multibeam	5.9 m
Light Draft	2.7 m
Deadweight at max Draft	2276.9 t
GRT	2,367 t
Free Board	1.1 m
Free Board, summer	1.1 m
Back Deck Area	252 m ²

NAVIGATION EQUIPMENT

Radars	(2) Furuno FAR 2117
Radio Stations	(1) FURUNO Radio telephone VHF FM8500 (1) FURUNO SSB radio transceiver FS 1562-15
Auto Pilot	(1) Alphatron Alphasea Pilot MFC
Satellite Navigation	(2) DGNSS Fugro 9205 Seastar (1) FURUNO GP-150
Hydroacoustic Position Reference	(1) Kongsberg HiPAP 502 - High Precision Acoustic Positioning and underwater navigation system
Navtex Receiver	(1) FURUNO NX-500
AIS	(1) FURUNO universal AIS FA-100
Echosounder	(1) SIMRAD EA500 (1) JMC F 3000 W

MOORING

Windlass	Yes
Anchors	(2) 5000 lb stockless
Chain (per side)	900 ft 1.6 in

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FACILITIES

1 Survey room;
1 Processing room;
1 Wetlab;
1 Galley;
1 Mess rooms;
1 Laundry with wardrobe room;
1 Hospital;
1 Sample storage, temperature controlled in range from -25° to +12° C

DYNAMIC POSITIONING SYSTEM

DP System	(1) ALSTOM DPS 900 series ALSPA 80-75
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MANNING

Marine Crew	16
Survey Crew / Passengers	30
Total	46

SAFETY EQUIPMENT

Acc. to SOLAS for world wide operation
Engine Monitoring System - Watch free system WE 300
Sea Marshall Man Overboard Alert and Rescue System
CCTV for Back Deck

ACCOMODATION

Cabins	(2) single berth (10) double berths (6) quadruple berths
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VESSEL POSITIONING EQUIPMENT

Primary positioning system	DGNSS-receiver C-NAV 3050 Gyro and motion sensor Ixsea Octans 5th gen
Secondary positioning system	DGNSS-receiver C-NAV 3050 Gyro and motion sensor Ixsea Hydrins
SSBL	HiPAP 502

SURVEY EQUIPMENT:

- DGPS C-Nav 3050, Gyro/MRU ixSea
 - USBL HiPAP 502
 - Reson 7150 12/24 kHz hull mounted
 - Reson T20P 200-400 kHz dual head MBES
 - SBES Simrad EA 500
 - SSS/SBP 100-500 KHZ / 4-12 kHz
 - 2D UHR
 - 2D HR spread: solid streamer 98 to 192 channels
 - Air gun volume and sparker sources as appropriate
 - Piston/gravity Corers and Vibrocores
 - Seabed frame CPT
 - Valeport mini SVP/SVS
 - Idronaut 701 multiparameter probe - depth rating 4000m
 - Rosette Niskin water sampler
 - Various plankton nets
 - Simrad EK15 multi purpose scientific echo sounder
 - Survey room / Client room
 - Full on board processing facilities on a 24/7 basis
- Other survey spread available on request*

ROV

- 250 hp work class ROV INNOVATOR
- Capable of working in depths up to 3000 meters
- Handles heavy payloads



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Bridge deck and DP2 consolle



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Engine Control Room and Vessel Workshop

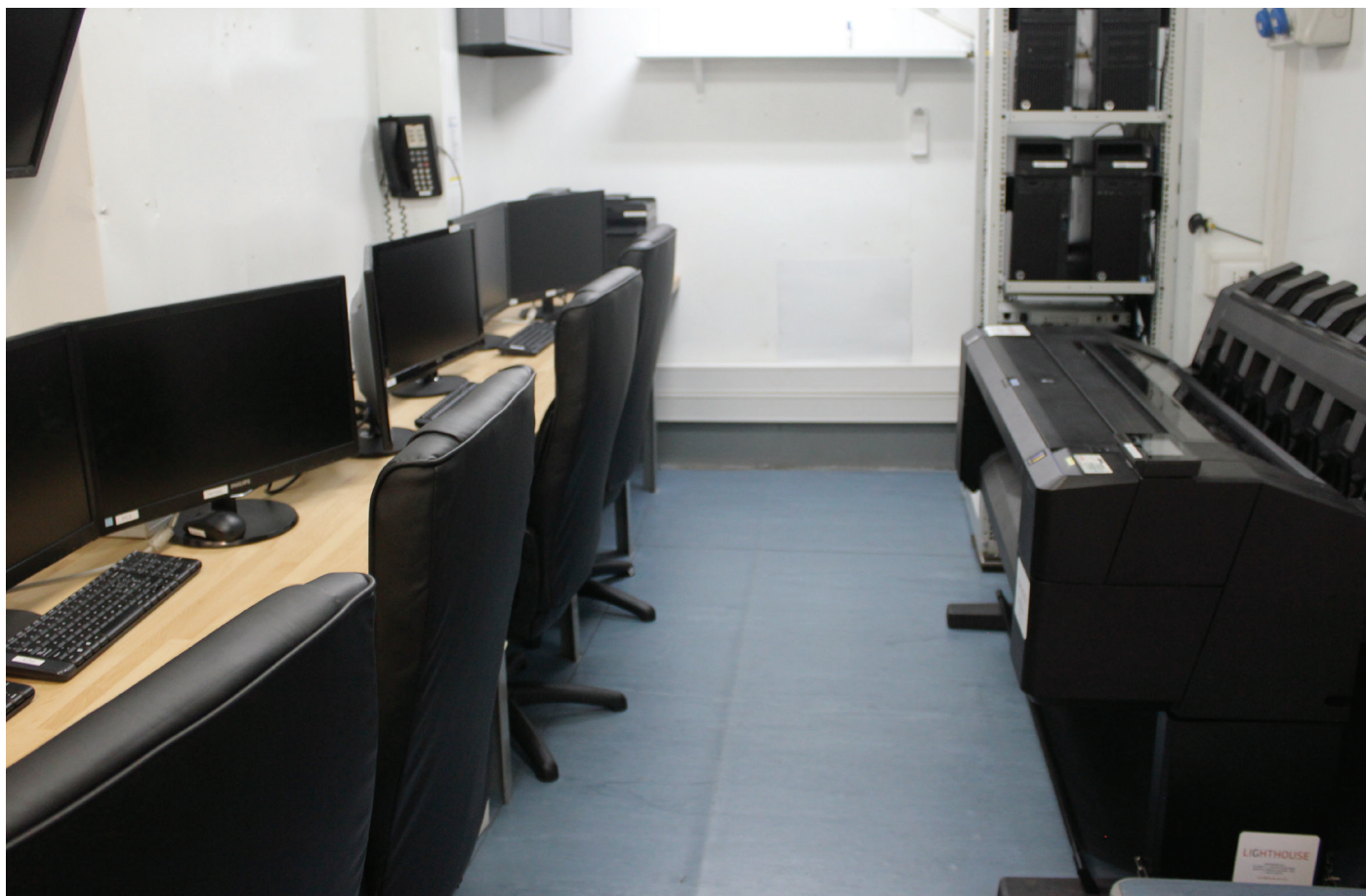


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Survey room and Processing room



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Mess room



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Cabins



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