



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.

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TECHNICAL SPECIFICATION

MACHINERY

Main Generators	(4) CATERPILLAR 3516 DITA EUI – 1440 Kw x 4 = 5760 Kw Total 440V 60 Hz
Harbour Generator	(1) CATERPILLAR 3412 1 X 500 Kw 440V 60 Hz
Emergency Generator	(1) CATERPILLAR 3304 1 X 99 Kw 440V 60 Hz
Propulsion Type	BLADE CPP
Stern Propulsion	(2) KHI 2 x 1491 kW AZIMUTHING TYPE KST 180 ZC /A
Kort Nozzles	(2) KHI KAWASAKI Z DRIVE
Bow Thruster Retractable	1 X KHI 1000 BHP AZIMUTHING TYPE KSRT 130 ZF/A – FB VARIABLE
Bow Thruster	1 X KHI 522 kW TYPE KT-72B1 DRIVEN CPP

NAVIGATION EQUIPMENT

Radars	(2) Furuno FAR 2117
Radio Stations	(2) FURUNO FM-8500 VHF R/T - DSC (1) FURUNO FS-1575 MF/HF/ SSB R/T - DSC (2) FURUNO FELCOM 18 SAT-COM Terminal (1) FURUNO FELCOM 16
Auto Pilot	SPERRY MARINE 4000
Satellite Navigation	(2) DGNS FUGRO 9205 Seastar (1) FURUNO GP-150 (1) FURUNO GP-80
Navtex Receiver	(1) Mc Murdo SMARTFIND
AIS	(1) FURUNO universal AIS FA-100
Echosounder	(1) SIMRAD EA500 (1) JMC F 3000 W
Gyrocompass	(2) Yokogawa CMZ-900
Wind sensors	(2) YOUNG
SPEED LOG	(1) CONSILLIUM
VSAT	(1) DATA/VOICE

MOORING

Windlass	(1) Yes
Anchors	(2) 2268 Kg stockless
Chain (per side)	274 mt. 41 cm

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

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	NORSAFE SOLAS Approved
Geophysical winch	Romica – Electric Side Scan Sonar Winch – Drum capacity 5500m - fitted with 5000 m coaxial cable 17.3mm ø – SWL 5.0 t (first Layer)
Geotechnical winch	OLEO.MEC BCC-3000 2000m steel wire 14Ømm
Service winch	HYDRAULIC WINCH TNE 6000 100m steel cable 14Ømm
CRANES	(1) EBI Crane TC30B-40-70 Lower forecastle deck STBD Side SWL 14.5 t (1) NORTH AMERICAN MCK-1240 Upper forecastle deck STBD Side SWL 7.1 t

PERFORMANCE

Maximum Speed	12 kts
Economy Speed	10 kts

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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 (range -25°/+12° C)

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
H2s Gas Detection System : Crowcon Xguard /Vortex

MANNING

Marine Crew	16
Survey Crew / Passengers	30
Total	46

ACCOMODATION

Cabins	(2) single berth
	(10) double berths
	(6) quadruple berths

DYNAMIC POSITIONING SYSTEM

DP System	(1) Converteam DPS21 – Duplex DP, VER4
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VESSEL POSITIONING EQUIPMENT

Primary positioning system	DGNSS-receiver C-NAV 3050 GYRO/MRU IXBLUE OCTANS SURFACE V GEN
Secondary positioning system	DGNSS-receiver C-NAV 3050 GYRO/MRU IXBLUE OCTANS SURFACE V GEN
Hydroacoustic Position Reference	(1) Kongsberg HiPAP 502- High Precision Acoustic Positioning and underwater navigation system
Laser Positioning Reference Sensor	(1) MDL Fanbeam

SURVEY EQUIPMENT:

- DGPS C-NAV 3050, GYRO/MRU IXBLUE OCTANS SURFACE V GEN
- MBES DW RESON 7150
- MBES SW RESON SEABAT T20-R DU/AL HEAD
- SBES SIMRAD EA 500
- SSS/SBP EDGETECH DSS2000 100-400KHZ / 2-16KHZ
- GEOMETRICS G882 MARINE MAGNOMETER
- CTD SBE 19 SEACAT PROFILER
- SVP/CTD VALEPORT MIDAS SVX2
- SURVEY ROOM / CLIENT ROOM
- FULL ON BOARD PROCESSING FACILITIES ON A 24/7 BASIS

Other survey spread available on request

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Bridge deck and DP2 consolle



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Engine Control Room and Vessel Workshop



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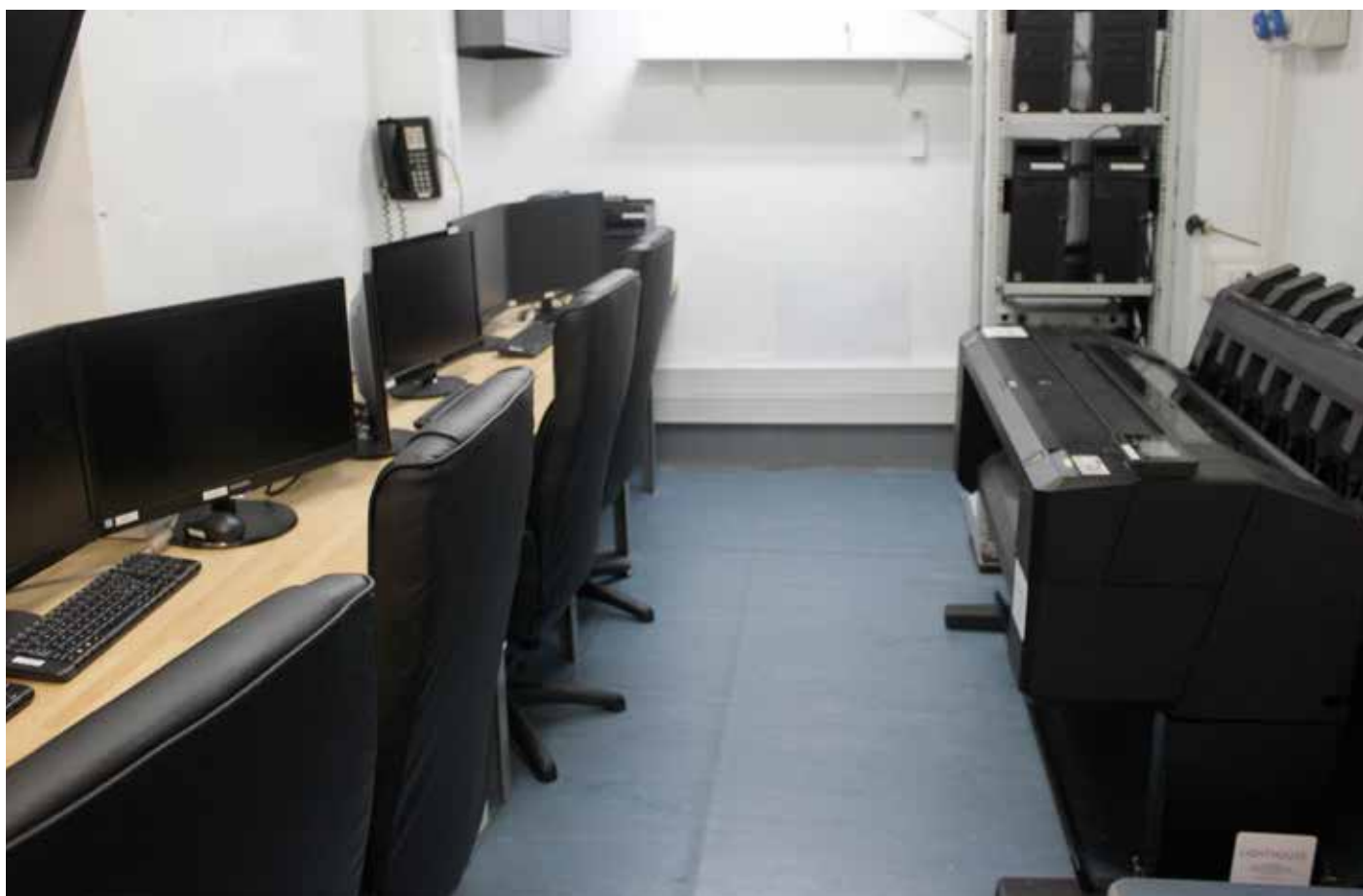
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Survey room and Processing room



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Mess room



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Cabins



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