

MV Ocean Observer

Multi-role Survey Vessel



Vessel details

Name	MV Ocean Observer
Type	Multi-role Survey Vessel
Year of build	1986
Reconfigured	2007
Classification	DNV-GL
Owner	Gardline Shipping Limited
Flag	UK
Port of registry	Lowestoft
ON	712883
IMO no / Call Sign	8511275 / GHXX
MMSI number	232217000

Dimensions

Length overall	80.4m
Beam	14.4m
Draft	4.7m
GRT	2,820
NT	846

Accommodation

Berths	39
Facilities	Labs, offices, mess, lounge, media room

Propulsion and machinery

Main engine	4 x Ruston 6RKCZ
Generators	2 x Mirrlees Blackstone ESL6
Propulsion	Twin 4-bladed Fixed Pitch Propellers
Bow thruster	White Gill Azimuth
Transit speed	8 knots
Maximum speed	12 knots

Capacities

Fuel capacity	435m ³
Fresh water	286m ³
Endurance	28 days (nominal)

Vessel details

Bridge equipment

Radars	2 x Vision Master FT (S-Band & X-Band)
Autopilot	Simrad AP50
Gyrocompass	2 x SG Brown Meridian
Echosounder	Simrad
Communications	V-Sat KU Band Iridium pilot Fleet 250 Emergency GMDSS Handhelds (A1-A3) Sat-C Telex Internal telephone exchange
	ECDIS Electronic Charts

Deck area

Cranes	HS Marine AKC370 (13T SWL @ 20m) Heila HLRM80-3S (10T SWL) HIAB stores crane (1T SWL)
A-Frame	10T SWL (port side)

Vessel capabilities

Hydrography

Multi-beam	Kongsberg EM 710 Kongsberg EM 122
Single-beam	Kongsberg EA 400

Geophysical

Side scan sonar	Edgetech 4200
Sub-bottom profilers	Hull-mounted 16-element pinger Applied Acoustics Squid500 sparker 10in3 mini airgun EG&G sub & surface tow boomers
SV probe	Valeport
2DHR seismic	4 x 40in3 Texas Instruments sleeve gun cluster (optional dual cluster) Sercel Sentinel digital streamer system (12.5m group, 600m/48ch up to 1,500m/120ch) Optional 600m Sercel Seal UHR streamer (6.25m group/96ch) SPW QC Optional ProMAX QC & processing

Depth controllers	Ion 5010 DigiBird / 5011 Compass Bird
Active tail buoy	PartnerPlast Tail Buoy 800 Seatex 220 RGPS system

Safety equipment

Rescue boat	Lifeguard IR455 6 person RIB with outboard
Life rafts	6 x RFD Surviva MkIII/MkIV (25 persons)
Fire fighting	Full complement of fire fighting equipment to meet or exceed SOLAS regulations

Navigation

Positioning systems	Oceaneering C-Nav (Primary and Secondary EGNOS Tertiary)
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Underwater positioning

Survey computer	Sonardyne Ranger 2 USBL Gardline Voyager5
IMU	Seapath 200 with MRU5

UHR seismic option

UHR seismic option	6in3 or 10in3 mini airgun 75 streamer (3.125m group/24ch)
Seismic compressors	2 x Hamworthy 4TH190W70 (170scfm)
Magnetometer	Geometrics G882
ROV options	SAAB Seaeeye Cougar XT with TMS and LARS

Geotechnical

	Neptune CPT GTec Roson CPT NIOZ corer Vibrocorer Piston corer
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Environmental

	Shipek / Day / van Veen / Mini Hamon grab samplers Box corer Water samplers Video and stills camera systems
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All Gardline vessels meet or exceed international maritime guidance, statutory Instruments and SOLAS requirements (including FSS code and IMO regulations) for Life Saving Appliances



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