

MV Ocean Reliance

Special Service Survey Vessel



Vessel details

Name	MV Ocean Reliance
Type	Special Service Survey Vessel
Year of build	1987
Reconfigured	2012
Classification	Bureau Veritas ICEIII AUT-UMS DYNAPOS-AM
Owner	Gardline Shipping Limited
Flag	Panama
Port of registry	Panama
ON	48388-PEXT
IMO / Call Sign	8616609 / HP6391
MMSI number	357707000

Dimensions

Length overall	85.4m
Beam	14m
Draft	4.2m
GRT	1,814
NT	544

Accommodation

Berths	40
Facilities	Mess, lounge, internet/media room, gym

Propulsion and machinery

Main engines	2 x MAN B&W 6L23/30 (1700bhp)
Generators	5 x Mitsubishi S12A2 2 x Cummins QSM11 / VM
Propulsion	Twin Controllable Pitch Screw Propellers
Thrusters	2 x Jastram W90 (bow & stern)
Dynamic positioning	Kongsberg cPos (DP Class I)
Transit speed	8 knots
Maximum speed	12 knots

Capacities

Fuel capacity	395m ³
Fresh water	295m ³
Endurance	28 days (nominal)

Vessel details

Bridge equipment

Radars	2 x Vision Master FT (S-Band & X-Band)
Autopilot	Sperry NaviPilot 4000
Gyrocompass	2 x SG Brown Meridian Surveyor
Echosounder	Furuno FE700
Communications	V-Sat KU Band Iridium Pilot Fleet 250 Emergency GMDSS Handhelds (A1-A4) Sat-C telex Internal telephone exchange

Deck area

Crane	Heila HLRM230-4SL (18T SWL @ 4m / 9.6T SWL @ 16m)
A-Frame	3.75T SWL (starboard side)
Moonpool	3m x 3m with 10T SWL coring winch & deployment tower

Safety equipment

Rescue boat	Zodiac 6-person RIB with outboard
Life rafts	6 x Viking 25DK+ (25 persons)
Fire fighting	Full complement of fire fighting equipment to meet or exceed SOLAS regulations

Navigation

Positioning systems	Starfix HP/XP & Starpack (primary & secondary) Seapath 330+ Kongsberg MRU5+
Underwater positioning	Sonardyne Ranger 2 USBL
Survey computer	Gardline Voyager5
IMU	Seapath 330+ with MRU5+

Vessel capabilities

Hydrography

Multi-beam	Kongsberg EM710 (1° x 1°)
Single-beam	Kongsberg EA400

Geophysical

Side scan sonar	Edgetech 4200
Sub-bottom profilers	Hull-mounted 16-element pinger Applied Acoustics Squid500 sparker 10in ³ mini airgun EG&G sub & surface tow boomers Applied Acoustics S-Boom
SV Probe	Valeport
2DHR seismic	4 x 40in ³ Texas Instruments sleeve gun cluster Optional 470in ³ tuned bolt gun array Sercel Sentinel digital streamer system (12.5m group, 600m/48ch up to 1200m/96ch) SPW QC Optional ProMAX QC & processing
G³Seis 3DHR/3DUHR Seismic option	2 x 600 (6.25m group) or 2 x 1200m (12.5m group) streamers Single/dual Texas Instruments sleeve gun (up to 470in ³)
Depth controllers	Ion 5010 DigiBird / 5011 Compass Bird
Active tail buoy	PartnerPlast tail buoy 800 Seatrack 220 GPS transponder
UHR seismic option	6in ³ or 10in ³ mini airgun 75m streamer (3.125m group/24ch)

Seismic compressors	3 x Hamworthy 4TH190W70 (170scfm)
Magnetometer	Geometrics G882
ROV options	SAAB Seaeye Cougar XT with TMS and LARS (max 1600m water depth) Various other Inspection and Work Class ROVs available on enquiry

Geotechnical

	Neptune CPT GTeC Roson CPT NIOZ corer Vibrocorer Piston corer
Environmental	Shipek / Day / van Veen / Mini Hamon grab samplers Box corer Water samplers Video and stills camera systems

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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