

RV Ocean Researcher

Multi-role Survey Vessel



Vessel details

Name	RV Ocean Researcher
Type	Multi-role Survey Vessel
Year of build	1984
Reconfigured	2005
Classification	Lloyds Register 100A1 / LMP / UMS
Owner	Gardline Shipping Limited
Flag	United Kingdom
Port of registry	Lowestoft
ON	705613
IMO no / Call sign	8207941 / GDLS
MMSI number	235011460

Dimensions

Length overall	69.4m
Beam	14.4m
Draft	4.9m
GRT	1,936
NT	580

Accommodation

Berths	39
Facilities	Mess, lounge, media room, gym

Propulsion and machinery

Main engine	Mirrlees Blackstone MB275 (2650bhp)
Generators	2 x Mirrlees Blackstone ESL8
Propulsion	Single 4-bladed Controllable Pitch
Thrusters	White Gill Azimuth
Transit speed	8 knots
Maximum speed	12 knots

Capacities

Fuel capacity	405m ³
Fresh water	86m ³
Endurance	28 days (nominal)

Vessel details

Bridge equipment

Radars	2 x Sperry Bridgemaster E (S-Band & X-Band)
Autopilot	Simrad AP50
Gyrocompass	2 x SG Brown Meridian Surveyor
Echosounder	Simrad
Communications	V-SAT KU Band Iridium pilot Fleet 250 Emergency GMDSS Handhelds (A1-A4) Sat-C telex Internal telephone exchange

Deck area

Cranes	3 x HS Marine (Foredeck: 2T SWL @ 7m Starboard side: 2.1T SWL @ 13.4m Main deck: 5T SWL @ 14.4m 2 x Grove M977 (1T SWL @ 6m)
A-Frames	8T SWL (starboard side) 10T SWL (aft deck)

Safety equipment

Rescue boat	Survitech RIB0450 6-person RIB with outboard
Life rafts	6 x RFD Surviva MkIV (20 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 200 Kongsberg MRU5
Underwater positioning	Sonardyne Ranger 2 USBL
Survey computer	Gardline Voyager5
IMU	Applanix POS-MV 320

Vessel capabilities

Hydrography

Multi-beam	Kongsberg EM710 (1° x 1°) EM2040D EM710
Single-beam	Kongsberg EA 400

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
(Optional)	Innomar 2000 Medium
SV Probe	AML
2DHR seismic	4 x 40in ³ Texas Instruments sleeve gun cluster Sercel Sentinel digital streamer system (12.5m group, 600m/48ch up to 1,500m/120ch) SPW QC Optional ProMAX QC & processing
Depth controllers	Ion 5010 DigiBird / 5011 Compass Bird

Active tail buoy

	PartnerPlast tail buoy 800 Gardline P-Pos GPS transponder
UHR seismic option	6in ³ or 10in ³ mini airgun 75m streamer (3.125m group/24ch)
Seismic compressors	2 x Hamworthy 4TH190W70 (340scfm)
Magnetometer	Geometrics G882

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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