



## ORIENT EXPLORER



Full compliance with SOLAS, Marpol 73/78 and other relevant maritime and industrial standards, E&P Forum and IAGC requirements.

## VESSEL SPECIFICATION

### GENERAL

<b>Name</b>	Orient Explorer	<b>Fuel Consumption</b>	Transit / survey - 15 / 17 m <sup>3</sup>
<b>Type</b>	Seismic Survey Vessel	<b>Fresh Water Consumption</b>	10 t / day
<b>Built</b>	1988, Szczecin, Poland	<b>Fresh Water Maker</b>	Rumia Reverse Osmosis, 10 t /day
<b>Last Upgrade</b>	2011, Singapore	<b>Main Engine</b>	Zgoda - Sultzer 6ZL 40/48, 4230 BHP / 3090 kW, 505 rpm
<b>Port of registry / Flag</b>	Panama / Panama	<b>Auxiliary Engine</b>	2 x Sulzer H.Cegielski 8AL20/24 750 BHP / 548 kW, 750 rpm
<b>Owner &amp; Operation</b>	JSC DMNG	<b>Shaft Generator</b>	Dolmel, 1500 kVA
<b>Classification</b>	RMRS KM UL 1 A2	<b>Diesel / Emergency Generators</b>	2 x Dolmel, 630 kVA / Wola 33H6, 150 kVA
<b>Call Sign</b>	3FFX5	<b>Propeller</b>	CPP PH 1150/4-R315, Ø 3000 mm
<b>MMSI / IMO</b>	355242000 / 8409020	<b>Bow Thruster</b>	Zamech, 300 hp / 220 kW
<b>Gross / Net Tonnage</b>	3478 / 1044 t	<b>Cranes:</b>	
<b>Length / Beam / Draft</b>	81.85 / 14.8 / 6.5 m	- Front	5 m / 500 kg
<b>Cruising Speed</b>	10.5 knot	- Rear	Abas, 3 SWL
<b>Endurance / Navigation Area</b>	45 days / Unlimited	<b>Incinerator</b>	Biodegradable, incinerated or store for onshore disposal
<b>Accommodation</b>	50 + Hospital		
<b>Planning / Maintenance System</b>	TM-Master		
<b>Fuel / Fresh Water Capacity</b>	1048 / 217 m <sup>3</sup>		

## COMMUNICATION

<b>GMDSS Radio:</b>	
- SSB	Furuno FS5000 DMC5
- VHF	Furuno FM8000 DSC
- Emergency	Furuno Felcom 10 & 12 x Handheld VHF
<b>VSAT</b>	2 x TracPhone V7 mini-VSAT
<b>INMARSAT</b>	B -2 x Nera S90 & Fleet 77 / C-Thrane&Trane / Fax
<b>Internal / Public</b>	Phones / Intercom Stentofon

## NAVIGATION

<b>Speed Log</b>	Furuno Doppler DS-80
<b>Weather Fax / Navtex</b>	Fax 208 Mark II / Lo-Kata
<b>Autopilot</b>	Robertson AP-9 MK II
<b>GPS Navigator</b>	JRC JLR4110 Mk-2 & Furuno JP32
<b>Furuno Radars</b>	FAR 283oS / FAR 2100 / FAR 1525
<b>Gyro / Echo Sounder</b>	SG Brown Meridian / NEL-M3B
<b>Main Aviation Trans.</b>	Jotron TR6102
<b>Second Aviation Trans.</b>	Jotron FCC GW + ICOM IC-A2

## SAFETY

<b>SSAS / AIS</b>	Satamatics / SIS-5R	<b>Drainage pump</b>	Main 63 m <sup>3</sup> , Aux. 10m <sup>3</sup>
<b>Video Monitoring</b>	Main mast, bridge wings & back deck	<b>Fire detection system</b>	Unitor
<b>Rescue Boat</b>	Magnum-750	<b>Inert gas fixed system</b>	Engine, Compressor, Paint locker, Incinerator & Emergency DG rooms
<b>Survival Suits</b>	74 x Helly Hansen	<b>Foam deluge system</b>	Seismic reels, Helideck, Gun Deck & Cable storage room
<b>Life Rafts / MOB Life Raft</b>	4x25men, 4x20men, 1x10man / 2xViking	<b>Fire Extinguisher</b>	32xCO <sup>2</sup> , 34xDry powder, 3xgraphite
<b>Life / Work Vests</b>	126 / 27	<b>Medical Equipment</b>	1 bed with trauma equipment & NMD/WHO medicine chest
<b>Life Buoys / Line Thrower</b>	12 / 1 x Comet		
<b>Fire Suits</b>	7 with BA-sets		
<b>Fire / Emergency pump</b>	100 / 40 m <sup>3</sup> /hour		

# SEISMIC EQUIPMENT SPECIFICATION

## RECORDING EQUIPMENT

### On-Board Equipment

<b>Recording System</b>	Seal, Sercel
<b>Recording Format</b>	4 byte, SEG-D, demultiplexed 32 bit IEEE, code 8058
<b>No. Data / Aux. Channels</b>	max 900 / 12
<b>Filter Low / High Cut</b>	Analog 3 Hz @ 20°C / 0.8 FN (linear or min phase)
<b>Real-Time Seismic QC</b>	eSQC-Pro under Linux
<b>Media</b>	NFS SEG-D File server

### In-Sea Equipment

<b>Streamer Type</b>	Sentinel solid, Sercel
<b>Streamer / Section Length</b>	max 4 x 6 000 / 150 m
<b>Group per section / Spacing</b>	12 / 12.5m, one overlapping hydrophone
<b>Type / No. Hydrophones</b>	Sercel Flexible Hydrophone / 8 per group
<b>Field Digitizer Unit / Spacing</b>	one for 2 groups / 25 m
<b>FDUM2 Functions</b>	A/D conversion, data digitizing, tests
<b>Streamer Control</b>	Digicourse SYS3, 5011 birds
<b>Tail buoy</b>	SSF1300, Active RGPS

## NAVIGATION & POSITIONING

<b>Real-Time Navigation</b>	3D ORCA, Concept Systems	<b>Differential Corrections via</b>	INMARSAT B
<b>Hardware / OS</b>	DELL R710 Servers / Linux	<b>INMARSAT Satellites</b>	POR, AOR, IOR - selectable
<b>Multiprogrammer</b>	Power RTNU	<b>Acoustic Systems</b>	ION 5010 acoustic bird
<b>Binning System</b>	Reflex, Concept Systems	<b>Nav Processing QC</b>	Sprint, Concept Systems
<b>Positioning System</b>	VERIPOS & C-Nav	<b>Gyro / Echo Sounder</b>	Navigat X MK2 / Simrad EA500
<b>GPS receivers</b>	VERIPOS LD2S-G2 & C-Nav 3050M	<b>Tail buoy / Gun Positioning</b>	BuoyLink, Seemap

## ENERGY SOURCE

<b>Type of Source / Air Gun</b>	Dual / Bolt 1500LL & 1900LLXT
<b>No. of Array / Guns</b>	3 for Source / according to volume
<b>Array Length / Separation / Volume</b>	15 m / 10 m / to 5000 in <sup>3</sup>
<b>Gun Controller</b>	GunLink2000, Seemap
<b>Compressors</b>	5xHamworthy, 400 SCFM each & LMF, 72 OSCFM

## QC PROCESSING

<b>OS / Software</b>	Linux RHEL / ProMax
<b>Hardware</b>	DELL 7500 Power Edge



**Head Office: RUSSIA**

TEL: +7 (4242) 737 618  
FAX: +7 (4242) 726 832  
E-Mail: secretary@dmng.ru

**RUSSIA**

TEL: +7 (495) 965 9411  
FAX: +7 (495) 730 5493  
E-Mail: office@mks.dmng.ru

**OSLO**

TEL: +47 2291 0615  
FAX: +47 2291 0601  
E-Mail: dmng@online.no