

# Survey Vessel

## “M/V Horizon Surveyor”

### General

Type of vessel	Utility
IMO	9277034
Classification	American Bureau of Shipping (ABS)
Class Notations	✱A1, ⓔ, ✱AMS
Class number	02113311
Additional Notations	CRC
Flag	Panama
Built	Cheoy Lee, Shipyard Limited
Year of Build	2002
Flag	Panama
Length	40.20 m
Beam	10.0 m
Draft	3.80m
Displacement	991 MT
DWT	480 MT

### Machinery

Main Engines	2 x CAT 3508B, 1000 HP ea.
Bow Thrusters	Tunnel 200 HP
Propeller	CPP in kort nozzle
Generators	Caterpillar 3306B
Electrical power	2 x 160KW, 415/3/50
Emergency generator	1 x 6.3KW, 240/1/50
Range	25 days / 7200 NM

### Capacities

Deck cargo capacity	88 T
Deck space	17 x 9 m = 153 m <sup>2</sup>
Deck wood sheathing	16 x 8 m = 128 m <sup>2</sup>

### Electronics

Radar	Furuno FR-8051
Aux radar	KODEN NDC 7912
Depth sounder	Furuno FE-700
Radio	Sailor RT4822
Autopilot	Furuno FAP-330
Satellite compass	SC60 Satellite Compass
Magnetic compass	Lilley & Gillie MK2000
GMDSS	Portable ICOM VHF
GPS	Furuno GP-36 DGPS
PA System	Vingtor SPA-120 P.A.



The Horizon Surveyor is a fully mobilized Geophysical Survey Vessel, capable of full geophysical and hydrographic surveys, ROV surveys, and environmental surveys. The vessel is mobilised with but not limited to:

- 2D high resolution
- Multibeam echo sounder
- Singlebeam echo sounder
- Sub Bottom Profilers
- Side Scan Sonar
- Magnetometer
- USBL
- Observation / Inspection class
- ROV
- Drop core sampler
- Grab sampler
- Roson CPT
- Vibrocoring

### Accommodation

For 12 crew	2 x 1 + own toilets
+ 2 Client's	1 x 2 + own toilet (Client)
+ 14 Passengers	1x2, 1x4, 1x4, 3x4, 1x2

### Deck Crane

Make	Puma Crane
Type	Knuckle Boom Crane
Model	PMA 450
Class	ABS Certified Crane
Capacity	2 tons @13 metres

### Cargo Pumps

MDO	25 HP
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### Tanks

Water ballast	35 m <sup>3</sup>
Fresh water	187 m <sup>3</sup>
MGO	179 m <sup>3</sup>
Hydraulic oil	3.7 m <sup>3</sup>
Dirty oil	2.7 m <sup>3</sup>
Bilge holding	2.6 m <sup>3</sup>
Sewage holding	5.3 m <sup>3</sup>

### Deck Equipment

Davit for fast boat	1.5 T SWL
Anchors	2 x 780 Kg
Stern roller	3 m x 1.5 m Diameter

### Safety Equipment

Welding/cutting	Machine c/w attach
Liferafts	2 x 25 persons 2 x 6 persons
Rescue boats	6 persons, 25 HP

H2S Gas Detection On air inlet  
Vessel meets SOLAS requirements.  
GMDSS for A2



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## GENERAL ARRANGEMENT PLAN - HORIZON SURVEYOR

