



CASSANDRA VI

GEOPHYSICAL, LIGHT GEOTECHNICAL & ENVIRONMENTAL SURVEY VESSEL

MV Cassandra VI was designed specifically to meet multi-role geophysical survey standard. The suite of survey equipment includes analogue sensors comprising of over the side mounted single and multibeam echo sounders, a hull mounted 4 x 4 Edgetech 3300HM CHIRP profiler, Applied Acoustic Boomer System and the latest Edgetech dual simultaneous frequency 4200 FS 300 kHz /600 kHz digital side scan sonar. In complement to 2DHR operations, the vessel is also equipped with Hydrosience SeaMUX digital system which comprised of a 1200m HTI digital streamer and seismic source of 150 cubic inches providing high quality data acquisition to our clients.



CASSANDRA VI

TECHNICAL SPECIFICATIONS

VESSEL SPECIFICATIONS

Classification	ABS
Official No. / Call Sign	333142 / 9WKG5
Port of Registry	Kuching, Malaysia
IMO	9561746
Builder	Sealink Engineering And Slipway Sdn Bhd
Built Year	2010

MAIN DIMENSION

Length O. A	53.80 m
Length WL	50.40 m
Beam	13.80 m
Depth	4.50 m
Max Draft	3.50 m
GRT / NRT	1084 / 325 (tons)

LOADING CAPACITIES

Deck Cargo	560 mt
Deck Area	348 m ²
Ship Fuel	260 m ³
Cargo HFO	913 m ³
FW Tank	207 m ³
FW / SW Ballast Tank	66 m ³
Sewage Tank	2.9 m ³
Thermal Oil	7.6 m ³
Lube Oil	9.4 m ³
Holding Tank	11 m ³
Dirty Oil	32 m ³
Deck Strength	5 Tons / m
Deadweight	1132 t

PERFORMANCE

Speed	Up to 13 Knots
Endurance	30 Days

LIFE SAVING & FIRE FIGHTING

Life Saving & Fire Fighting	In compliance with SOLAS
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MAIN MACHINERY

Main Engine	2 x CUMMINS KTA50M2 c/w reverse reducing gearbox
Power	2 x 1700 BHP @1800rpm
Control	Fwd & Aft
Gensets	2 x 550hp 440/3/50 independently diesel driven
Bow Tunnel Thruster	5 Ton FPP and independently driven
Propulsion	2 x 4 Blade bronze Fixed Propeller with Kort Nozzle

DECK MACHINERY

Deck Crane / CPT Crane	1x 10t @ 15m reach, knuckle boom
Capstan	2 x of 5mt SWL
Side Scan Sonar Winch	2 x 1000m armored cable
Coring Winch	1 x 2000m hydraulics free fall winch
Anchor Winch	1 x 10 ton hydraulic c/w 2 wrapping drum
Tugger Winch	3 x Tugger winch

ACCOMMODATION & OTHERS

Cabins	38 person including crew compliment
Mess Area	2 x International Standard Mess Room
Others	1 x Office, 1 x AHU Room, 1 x Sick Bay, 2 x Containerize Offline & Online Office

NOTICE: Particulars are believed to be correct and subject to revision without prior notice. Interested parties must inspect vessel to check on suitability of the Company's equipment. Company has exercised due diligence to ensure that the data contained herein is reasonably accurate. However, the Company does not warrant the accuracy or completeness of the data. In no event shall the Company be liable for any damages whatsoever arising out of the use or inability to use the data contained herein.



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TECHNICAL SPECIFICATIONS

NAVIGATION & COMMUNICATION

VHF-FM Radio x2, SSB Transceiver x1, Inmarsat-C x2, 2ways Radio x3, Magnetic Compass x1, Radars x2, Echo Sounder c/w transducer x1, Gyrocompass, Autopilot Doppler Speed Log, GPS x2, Navtex Receiver, Watch Receiver, AIS x1, SSAS x1

SURVEY POSITIONING & NAVIGATION EQUIPMENT

DGPS System	Veripos LD5 Apex2 at decimeter accuracy
Gyrocompass	TSS Meridian Surveyor
Online Navigation	QINSy Survey
Offline Processing	QINSy Fledermaus / Qimera
Acoustic Positioning	Sonardyne Ranger 2 Pro USBL c/w 8271 & 8270 Mini Transponder

DIGITAL EQUIPMENT

2D Seismic Recording System	Hydroscience Technologies NTRS2
Streamer	96 Channel @ 12.5m HTI Seamux liquid filled
Depth controllers	Geospace Technologies Navigator
Firing control	RTS Hot Shot Rack Mount
Seismic source arrays	Sercel GI seismic source @ 150cu. inch
Air compressor	STARK 777 Seismic Compressor @2000 PSI
Data Processing System	Landmark ProMAX™ & eisVision™

SEABED SAMPLING

Gravity Corer	3m & 6m gravity coring
Grab Sampler	Shipek Grab Sampler

ANALOGUE EQUIPMENT

Single beam Echo Sounder	Odom Echotrac MKIII 12 kHz / 24 kHz / 200 kHz
Multibeam Echo Sounder	Reson SeaBat 7101/ 7160
Motion Reference Unit	TSS DMS-H and TSS DMS-05
Sub-Bottom Profiler 1	Hull mounted Edgetech 4x4 3300HM Chirp System
Sub-Bottom Profiler 2	Applied Acoustics surface-towed Boomer
Sub-Bottom Profiler 3	Edgetech 3200XS Sub Tow with SB216 Tow Fish
Sub Bottom Profiler 4	Applied Acoustics surface-towed Sparker
Source	Applied Acoustic CSP-D 1200
Hydrophone Streamer	20 Element Medium Frequency (MF)
Side Scan Sonar	Edgetech 4200 Dual Simultaneous Freq 300 kHz / 600 kHz
Magnetometer	Seaspy Marine Magnetometer c/w Edgetech side scan integration cable
Data Acquisition & Processing System	CODA DA2000 Geosurvey, Edgetech Discover, Sonarwiz, AutoCad

DIGITAL EQUIPMENT

Safety Working Load	7 Tons
Height of hosting	8 m
Width	4 m
Outreach	4.2 – 5 m
Speed	30 – 90 s
Overall Dimensions (LWH)	5.5 x 4.5 x 4 m
Gross Weight	8 Tons
Hydraulic Power Unit	
Fuel Tank Capacity	400 liter
Motor Power	22 kw/ 415V/50Hz – 3 Phases
System rated Pressure	15 – 25 MPa
System Rated Flow	60 – 90 Liter/ Min

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enviros

HGIS  **Alpine**