

## AG Surveyor Geophysical Survey Vessel



AG Surveyor is a dedicated geophysical vessel equipped with analogue and digital 2D-high resolution shallow seismic surveys.

The vessel offers both surface positioning system via StarPack DGPS as its main unit as well as underwater positioning system via Sonardyne Ranger USBL as its main unit.

AG Surveyor has a complete set of hydrographic system consisting of ODOM Echotrac MKIII single-beam echo sounder, Valeport MIDAS CTD Profiler, Kongsberg EM710 multi-beam echosounder and Teledyne TSS DMS-H heave compensator onboard the vessel.

A range of analogue geophysical and 2D high resolution seismic system capable of running accurate data acquisition for a number of survey objectives such as bathymetry survey, seabed features as well as subsurface and intermediate zone finding is well within the capability of the vessel.

AG Surveyor is part of Asian Geos fleet of vessels and has been designed to support the following key areas:

- / Seabed mapping
- / Drilling hazard surveys
- / Cable and pipeline route survey
- / Hydrographic mapping
- / Geographical Information System (GIS) Services



## Vessel details

<b>Name</b>	AG Surveyor	<b>Navigation</b>	
<b>Type</b>	Geophysical Survey Vessel	<b>Primary system</b>	1 x Furuno GP-80
<b>Year of build</b>	1969	<b>Secondary system</b>	1 x Plath Navipilot
<b>Year of refurbishment</b>	1990	<b>Tertiary system</b>	1 x Furuno ARPA FAR-2822
<b>Flag</b>	Malaysian (Port Klang)	<b>Gyrocompass</b>	1 x Sperry NAVIGAT X
<b>Classification</b>	BV	<b>Echo Sounder</b>	1 x AMI-GFV KW950-E
<b>IMO No/Call Sign</b>	6812833 / 9MQE5		1 x Sperry ES 5000
<b>Dimensions</b>			
<b>Length Overall</b>	60.85m	<b>Communications</b>	
<b>Beam</b>	9.80m	<b>SSB Radio</b>	1 x Furuno FS-1562-15
<b>Draft</b>	4.37m	<b>Navtex Receiver</b>	1 x ICS NAV5
<b>Clear Deck Area</b>	180m <sup>2</sup> (main deck) 40m <sup>2</sup> (upper deck) 60m <sup>2</sup> (forward deck)	<b>EPIRB</b>	1 x Saracom EB10
		<b>Weather Fascimile</b>	1 x Furuno FAX-207
		<b>VHF ICOM</b>	3 x Sailor Compact RT2048
		<b>AIS</b>	1 x Sperry Marine R4
		<b>Fleet Broadband</b>	Fleet 77 Email System
<b>Accommodation</b>			
<b>Berths</b>	15 cabins with 23 bunks	<b>Deck Machinery</b>	
		<b>A-frame</b>	5 tonnes capacity
		<b>Bow anchor</b>	2 x 1 tonne
<b>Propulsion &amp; Machinery</b>			
<b>Main Engine</b>	1 x Bolnes 1200 BHP 1 x Bolnes 600 BHP	<b>Safety Equipment</b>	
<b>Generators</b>	3 x DAF SP6L-TD-3 564 kW	<b>Rescue boat</b>	1 x 6 pax with 20 BHP
<b>Propulsion</b>	1 x single-screw CPP	<b>Life rafts</b>	2 x 25 pax, 1 x 16 pax, 1 x 10 pax
<b>Bow thrusters</b>	1 x 175 BHP transverse	<b>Life jackets</b>	46 pieces
<b>Thrust</b>	1 ton	<b>Life buoys</b>	6 units
<b>Maximum speed</b>	10 knots	<b>Work vests</b>	10 x crew saver
<b>Cruising speed</b>	7 Knots	<b>BA sets</b>	9 units
		<b>SART</b>	2 units
		<b>Parachute flares</b>	12
		<b>Smoke signal</b>	2
		<b>Hand flares</b>	6
		<b>Line throwing apparatus</b>	4
<b>Capacities</b>			
<b>Fresh water</b>	50m <sup>3</sup>		
<b>Watermaker</b>	Neptune RO		
<b>Fuel oil</b>	126m <sup>3</sup>		
<b>Endurance</b>	25 days		

## Survey capabilities

### Positioning System

StarPack DGPS  
Vector GPS Heading Reference System  
Gyrocompass TSS Meridian Surveyor  
Sonardyne Ranger USBL  
Motion Sensor: Seatex MRU5

### Navigation Software

Voyager 5 (Gardline in-house software)  
QINsy 7

### Hydrographic System

Single Beam Echo-Sounder Dual Echotrac MKIII  
Valeport MIDAS (CTD)  
Multi Beam Echo-Sounder Kongsberg EM 710  
Heave Compensator TSS DMS-H

### Seabed Sampling System

3 meter gravity corer with 400m winch

### Analogue Geophysical System

GeoAcoustics 2094D Side Scan Sonar System  
Massa 4 x 4 (Hull Mounted) Pinger  
CODA DA2000 Recording System  
Isys V12 RGS printer  
SeaSpy Marine Magnetometer  
Geo-Spark Sparker System  
Applied Acoustic Boomer System

### 2D High Resolution Seismic System

96 Channel NTRS Seamux Solid Streamer  
NTRS Seamux Acquisition System  
Price Compressor 2000 Psi 240cfm  
210 cu in GI Gun  
Digicourse Birds  
ProMAX QC & Processing System



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