Survey Vessel GEO 1





EGS is an independent leading international group of marine survey companies which has offices in Asia, Australia, Americas and the United Kingdom. EGS provides global specialist multi-disciplinary support to the offshore construction, oil & gas,

telecommunications, power, mining industries. The Group employs more than three hundred and fifty staff worldwide from the fields of surveying, oceanography, environment, engineering, electronics, geophysics and the marine environment.

- Conduct inshore and ultra shallow water survey (water depth 1m to 100m)
- Bathymetry survey by high resolution multi-beam echo sounder and dual frequency single-beam echo sounder
- Geophysical Survey by dual frequency Side Scan Sonar (SSS), high resolution sub bottom profiling systems and Magnetometer
- Robust positioning and attitude solution with Applanix POSMV Inertial Navigation System
- 'C-View Nav' computerized navigation systems
- Water quality sampling & oceanographic measurements
- Capable of sediment sampling by 2m Gravity Corer deployment
- Shallow water diving work support
- VHF communication facilities
- Automatic Identification System (AIS)

The EGS Group - Global Survey Specialists

Survey Vessel GEO 1

NAME	GEO 1	PORT OF REGISTRY	Hong Kong
ТҮРЕ	Work Boat	OFFICIAL NO.	B143622
CLASSIFICATION	Class II	CALL SIGN	VRS5861
BUILT	U.S.A.	MMSI NO	477 996 562

Dimensions

Length Overall9.05 mBeam2.94 mDraught0.50 mGross Tonnage5.00Net Tonnage1.00

Performance

Max survey speed Up to 6 knots Passage speed 25 knots

Stern and Overside Handling

Winch 250 kg

Crane 500 kg with winches to han-

dle oceanographic seabed and seabed sampling equipment to 50m depths

Machinery

Main Engines Volvo Penta / D4-300A-D

Diesel

Auxiliaries External Diesel Generator

QEP S7— 6 kVa

Multi-beam Echo Sounder (MBES)

Model R2Sonic Sonic 2024

Frequency 200-400kHz

Number of Beams 256 Max. Swath width 160°

Depth Range 0.5m - 400m

Single Beam Echo Sounder (SBES)

Model Knudsen 1612

Dual Frequency 33/210kHz

Resolution (<100m) 1cm

Interface Digital

Depth Range 0.5—500m

Sub Bottom Profile (SBP)

Model C-Boom LVB MK II

Energy Discharge 64 Joules per pulse

Central Frequency 1250 Hz

Resolution Better than 50cm
Firing Rate 6 per second max
Adjustable working 450-550v dc



Magnetometer

Model Geometrics G-882 Magnetometer

Absolute Accuracy <3nT throughout range

Resolution 0.02nT P-P at 0.1 second sample

rate

Navigation & Communications

Radar Garmin GMR18 HD

VHF (Marine Radio) Garmin i200

Echo Sounder Garmin 5212

Side Scan Sonar (SSS)

Model EdgeTech 4200 System

Dual Frequency 100/500kHz

Inertial Navigation and Attitude System

Model POSMV Wavemaster

Position Accuracy Horizontal: +/- 8mm +1ppm (RTK mode) Vertical: +/- 15mm + 1ppm

Roll & Pitch Accuracy ±0.02°

(0.015° with PosPac Post processing)

Heave 5cm or 2cm for True Heave

Update Rate Up to 200Hz

Interface Ethernet

Heave Motion Compensator (for SBES)

Model Kongsberg Seatex MRU-5

Range ±10m

Accuracy 5cm or 5%

Visit our website for more information:

www.egssurvey.com

