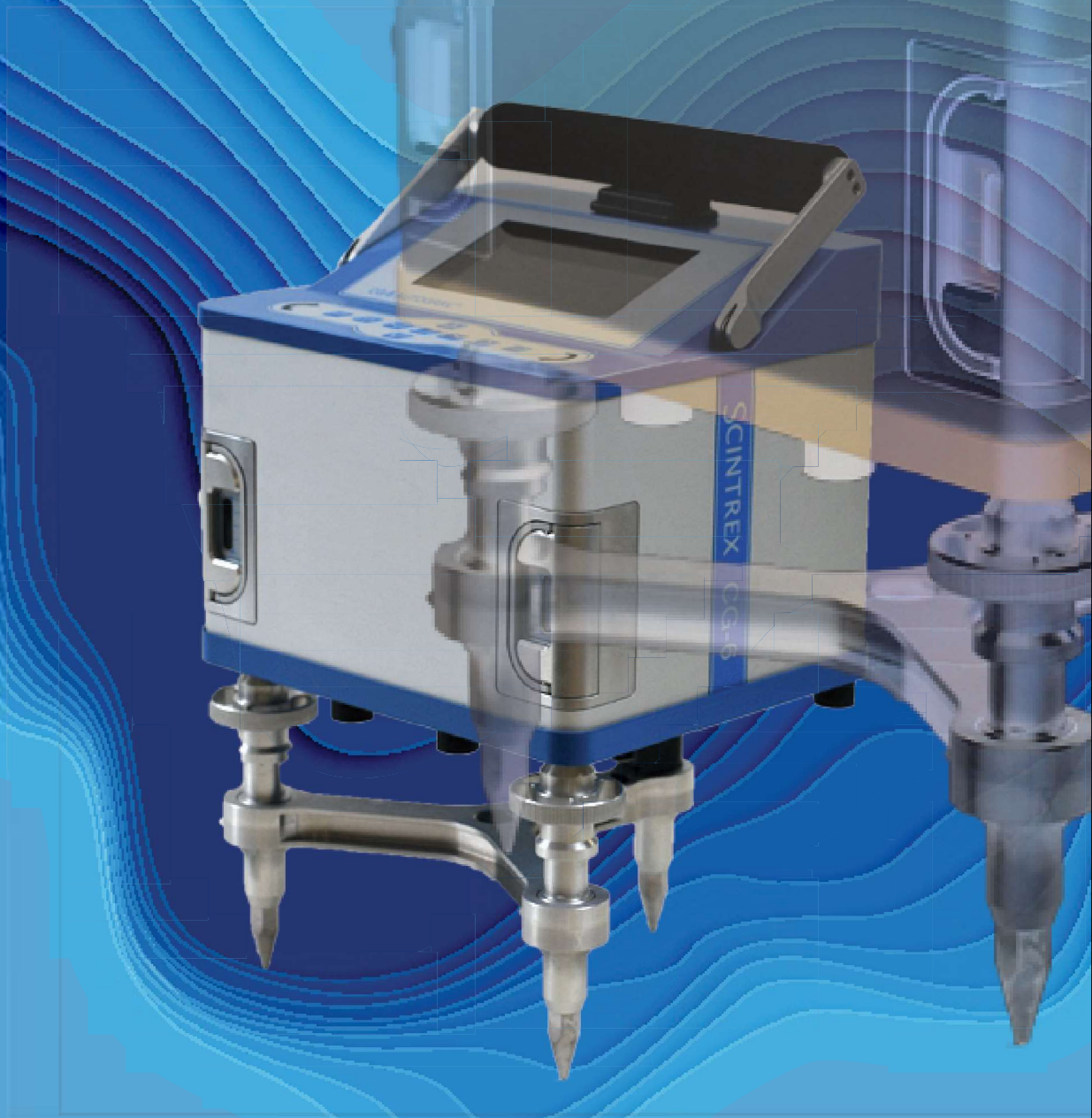




# Mari Services Division



## Gravity and Magnetic Survey

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## Gravity & Magnetic Survey Services

- The CG-6 Autograv™ offers fast, reliable and precise gravity measurements and includes an array of mapping, post processing functionality that comes with Lynx LG software
- The new CG-6 offers dependable gravity survey data with ease and efficiency making surveying more cost effective than ever before
- The Scintrex ENVI Cs Cesium Vapour magnetometer is the next advancement in magnetometers using the latest hardware available
- The ENVI Cs is a continuous reading magnetometer with high sensitivity compared with lower sensitivity continuous magnetometers

### Technical Information & Datasheet

#### SURVEY GRAVITYMETER SPECIFICATIONS

- Reduced Stabilization Time Between Readings
- All-Weather Operation (-40 to +45 °C)
- Dust-Proof, Water Resistant Meter
- Intuitive Survey-Driven Interface, Backlit Inclined Display
- Robust Fused-Quartz Sensor, No Clamping Required
- On-Board GPS Receiver, Bluetooth Connectivity
- Simplified Leveling Interface, On-Board Mass Storage (4 GB)
- Hot-Swappable Dual High-Capacity Batteries (24 hr at 25 °C)
- 5 microGal Repeatability
- Tares Under 5 microGal for up to 20 g Shocks
- Low Drift Sensor (Uncorrected: < 200 microGal/day)
- Low Residual Drift (< 20 microGal/day)
- Automated Corrections (Tides, Tilts, Drift, Temperature)

#### SURVEY MAGNETOMETER SPECIFICATIONS

- Sensor: Self-oscillating split-beam Cesium Vapor (non radioactive Cs133) automatic hemisphere switching. Single sensor is standard. Optional second sensor (gradiometer). Standard systems are field upgradeable.
- Data capacity: Up to 8 million readings
- Operating Zones: 10-85 Degrees
- Data output: Active Sync (RS-232C), USB, USB Flash Drive and SD Card
- GPS Accuracy: 2.4m (CEP) and 6m (2DRMS) SBAS, Logged at 0.5Hz
- Resolution: 0.01 nT( $\gamma$ ) for all sample rates
- Sensitivity: <0.003 nT ( $\gamma$ )  $\sqrt{\text{Hz}}$  RMS
- Sample Rate: User selectable 1, 2, 5, 10 samples per second
- Gradient Tolerance: 1,000 nT ( $\gamma$ ) per inch (40,000 nT( $\gamma$ )/m)
- User Interface: Full keypad and 6 function dedicated keys
- Heading Error: <7 1 nT ( $\gamma$ )
- Real Time Clock: Accurate synchronization to GPS via NMEA String
- Scintrex Map Registration and Setup. QCtool quality control and display tool
- Console: 230mm x 185mm x 60mm (9.0" x 7.3" x 2.3")
- Weight: 1.3 kg (2.9 lb)
- Sensor: Diameter: 63 mm (2.5"), Length: 160 mm (6.3")
- Weight: 1.5 kg (2.3 lbs)
- Sensor Electronics: Dimension: 230 x 56 x 38mm (9" x 2.2" x 1.5")
- Weight: 600g (1.3 lb)
- Backpack: 4 kg (9 lb)
- Battery pack: 3 kg (6.6 lb) each, can use up to 2 batteries packs.
- Power: External Power: 21 – 24 VDC
- Battery Charger: Standard 120/240V AC
- Environmental: Operating temperature: -20-C (-4-F) to +50-C (122-F)
- Storage temperature: -30- C (-22-F) to +70-C (158-F)

