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CG-6 AutoGrav Data Sheet

The new CG-6 is the latest generation micro gravity meter from Scintrex ltd. Utilising the same patented quartz sensor technology as its predecessor (the CG-5) the CG-6 offers fast, reliable and precise gravity measurements. Designed with the end user in mind the CG-6 interface is intuitive and simple to operate. With 4GB internal flash memory and the option to transfer data in real time to a recording tablet data is constantly backed up.

The all new Lynx LG application provides additional in-field data quality control and analyses at the operator's finger tips. With real time tide, tilt and ocean load corrections being displayed on screen during data acquisition it is possible to isolate sources of noise and rectify them quickly.



Features:

- Integral GPS (I.e. not an add-on stuck out the side)
- Bluetooth and USB connectivity for easier and faster data download
- Choice of Berger, ETSTAB or user defined tide corrections
- In-field simple Gravity profiles and Bouguer anomaly maps
- Lynx LX software, for mapping real-time positioning, previous survey/station recall, station /route import capability and post processing,
- Simplified tilt and drift calibration interface via Lynx software
- User selectable filters – Blackman-Harris (FIR) or moving average
- Data acquisition software permits user to upload predefined station coordinates for improved survey management
- Addition of Ocean Load Correction – choice of Schwiderski (default), FES2004 or CSR3.0.
- Graphical display of instrument metadata for improved data QC. Including; level, tide, load, temperature, drift. Toggled view between raw measurement values and gravity correction in ?Gal.
- More intuitive user interface, faster levelling
- Can operate via rugged tablet PC
- Greater data storage
- 35% lighter
- Reduced profile means better performance in windy conditions

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Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	24 cm x 21 cm x 21.5 cm	5.2kg (including batteries)

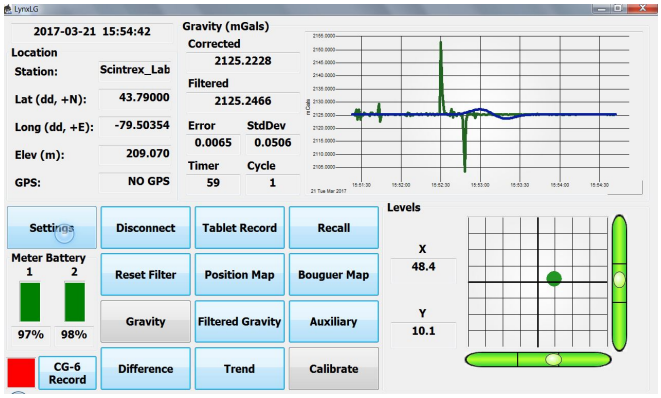
Technical Specifications

Sensor Type:	Fused quartz using electrostatic nulling
Reading Resolution:	1 microGal
Reading Standard Deviation:	< 5 microGal
Operating Range:	World-wide (8,000 mGal without resetting)
Residual Drift:	< 20 microGal/day
Uncompensated Drift:	< 200 microGal/day
Range of Automatic Tilt Compensation:	±200 arcseconds
Tares:	Typically < 5 microGal for shocks up to 20 g
Automated Corrections:	Tide, instrument tilt, temperature, noisy sample filter, seismic noise filter, drift
Data Output Rate:	Up to 10 Hz, user defined.
GPS Accuracy:	Standard < 15 m; DGPS (WAAS) < 3 m
Touch-Free Operation:	Handheld Tablet with Bluetooth
Battery Capacity:	2 X 6.8 Ah (10.8 V) rechargeable lithium smart batteries. Full day operation at 25 °C (77 °F)
Power Consumption:	5.2 Watts at 25 °C (77 °F)
Operating Temperature:	-40 °C to + 45 °C (-40 °F to 113 °F); Optional high temperature version to +55 °C (131 °F)
Memory:	4GB internal flash memory. External memory, courtesy of the tablet, of over 50GB.
Digital Data Output:	USB and Bluetooth

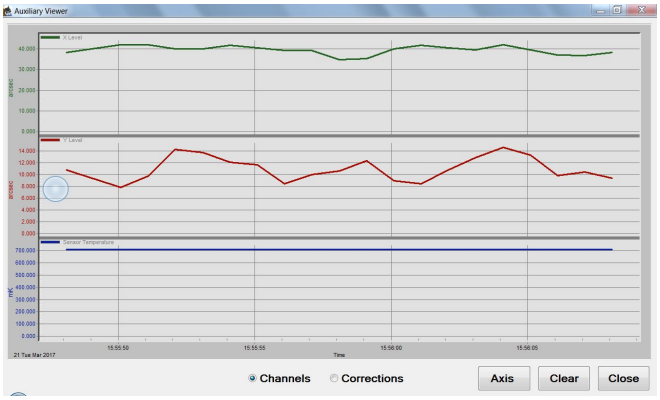
Gallery

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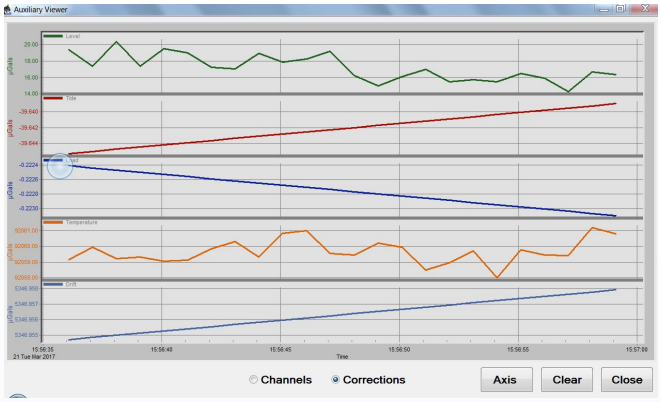
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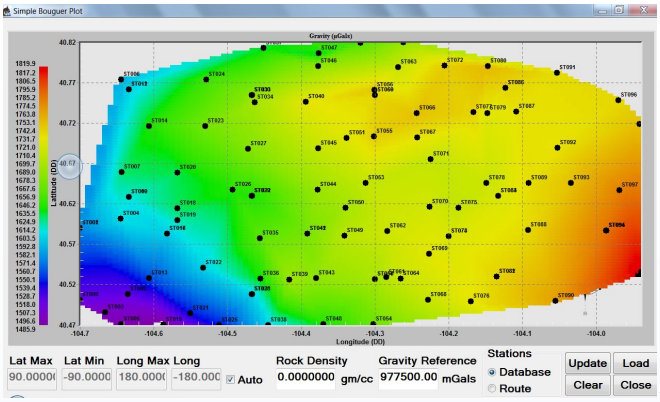
Data acquisition screen presented on the LynxLG application.



Profiles showing the temperature, tilt x and tilt y variation during a measurement cycle.



Profiles showing the real time corrections applied to the measurements during a measurement cycle.



Example Bouguer anomaly map

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Image showing the CG-6 data acquisition screen. All metadata required for accurate data QC is clearly visible and accessible for the operator.



CG-6 with all field accessories.

Videos

Scintrex CG 6 Autograv™ Video
https://www.youtube.com/watch?v=oNjCK65-2e0

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