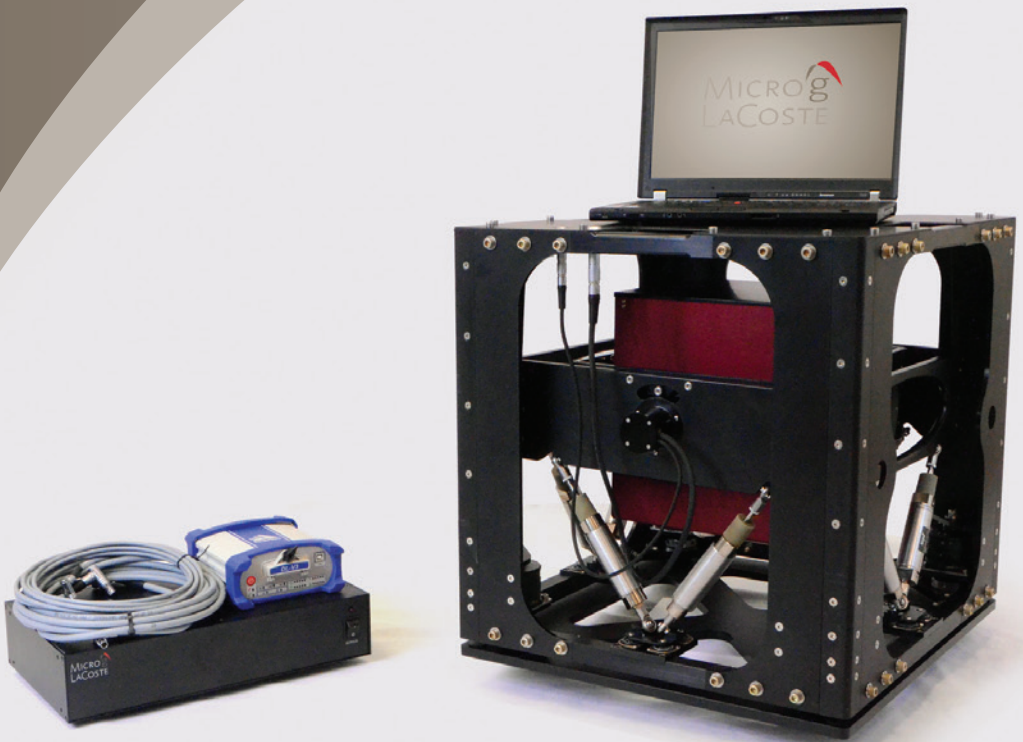


SYSTEM 6 DYNAMIC GRAVITY METER



Smaller sensor, full feedback system, and a host of other features takes the world's best dynamic gravity sensing system to the next level.

APPLICATIONS INCLUDE

- Geoid Mapping
- Regional Geophysics
- Petroleum Explorations
- Mineral Explorations

SPECIFICATIONS

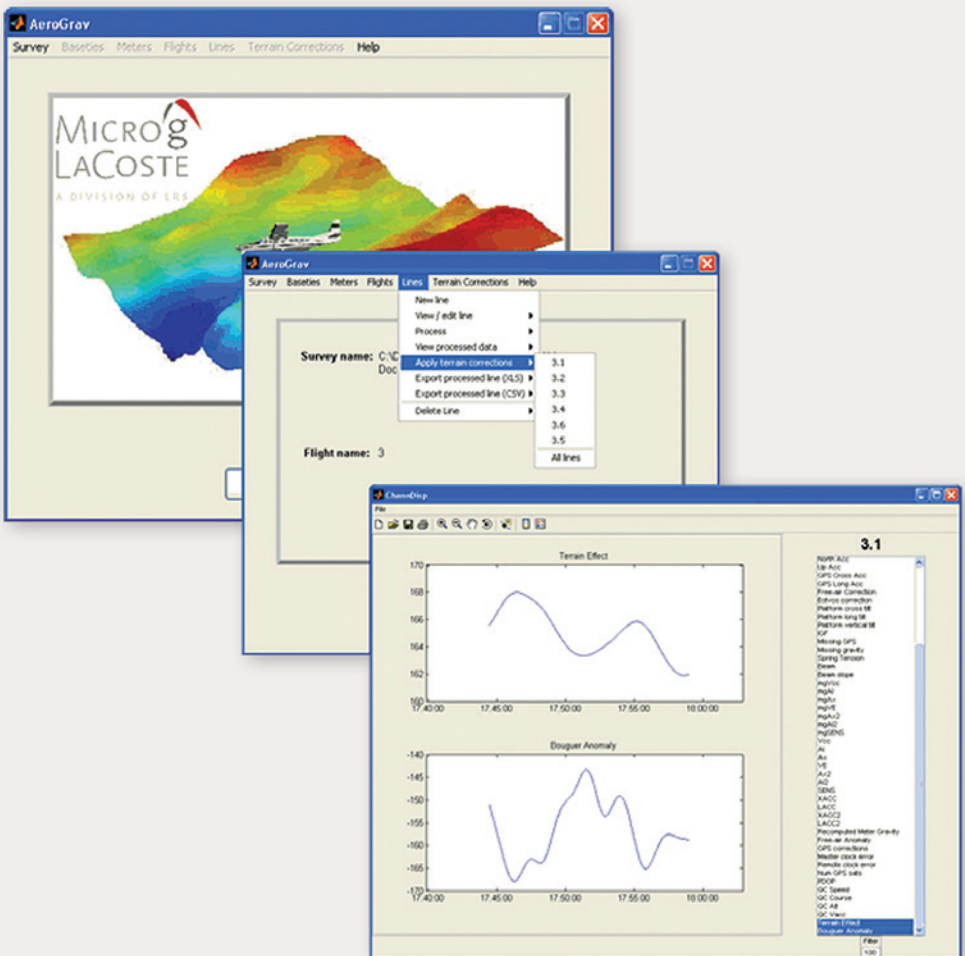
COMPONENT	VARIABLE	SPECIFICATIONS
SENSOR	RANGE: DRIFT: TEMPERATURE SETPOINT:	±500,000 milliGals (worldwide) 3 milliGals per month or less 45° to 65°C
STABILIZED PLATFORM	PLATFORM PITCH: PLATFORM ROLL: CONTROL: Period Damping	± 25 degrees ± 30 degrees 4 to 4.5 Minutes 0.707 of critical
CONTROL SYSTEM	RECORDING RATE: SERIAL OUTPUT: ADDITIONAL I/O:	20 Hz RS-232 Sensor Temperature
SYSTEM PERFORMANCE	RESOLUTION: STATIC REPEATABILITY: ACCURACY: 50,000 mGal Horizontal Acceleration 100,000 mGal Horizontal Acceleration 100,000 mGal Vertical Acceleration	0.01 milliGals 0.02 milliGals 0.6 milliGals or better 0.25 milliGals 0.50 milliGals 0.25 milliGals
MISCELLANEOUS	OPERATING TEMPERATURE: STORAGE TEMPERATURE: POWER EQUIPMENTS: DIMENSIONS:	5° to 50°C -10° to 50°C 75W @ 27°C Nominal 300W Peak 80-265VAC, 47 – 63Hz 58.4 x 53.3 x 55.9cm (not including electronics)

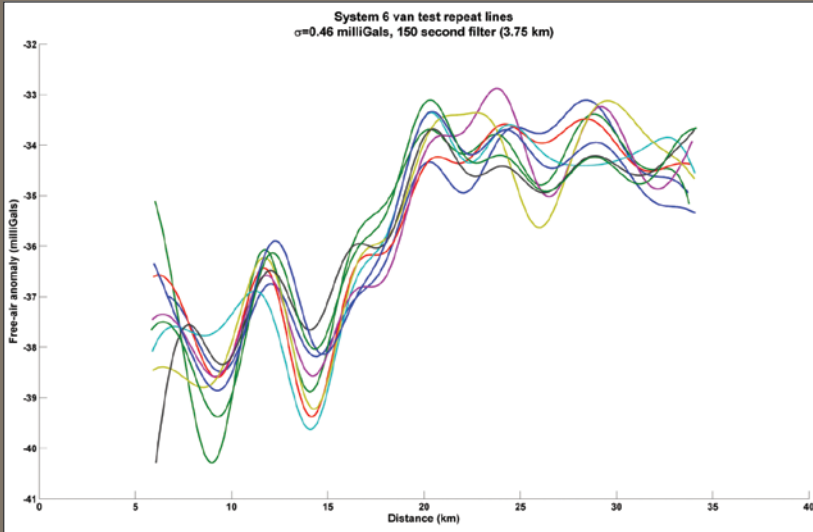
SPECIFICATIONS SUBJECT TO CHANGE

AEROGRAV PROCESSING SOFTWARE

The AeroGrav Data Processing software is designed to be used in the field to immediately process data after each survey flight.

The raw field data from the survey aircraft and ground GPS base station can be immediately processed to produce the free-air and Bouguer gravity anomalies along survey lines. The processed data can be exported to mapping packages such as Geosoft Oasis Montaj or the Generic Mapping Tools (GMT) for such tasks as survey line leveling, gridding and mappings. With rapid data turnaround, the data quality issues and possible system problems can be identified and operation issues are dealt with in a timely fashion.

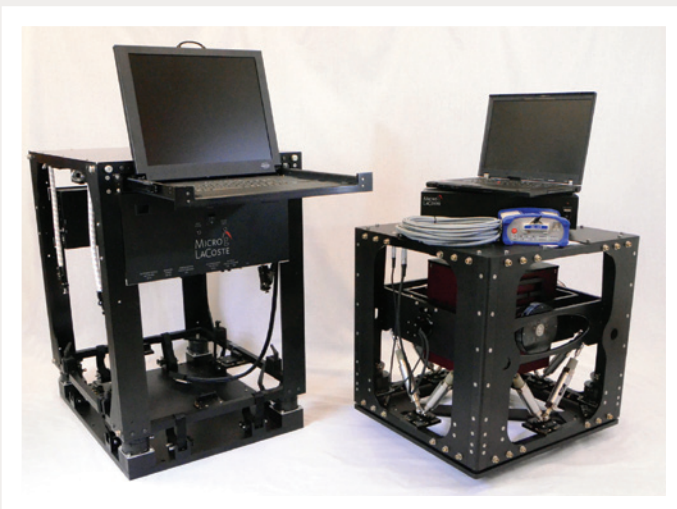




Shown above are the free air gravity anomaly results from nine van tests on a 30km test range. The standard deviation of the repeats is better than 0.5 milliGals.

COMPARISON WITH TAGS SYSTEM

- 100X the acceleration range
- Larger Pitch (25° vs. 22°) and larger Roll (30° vs. 25°) ranges
- Static Repeatability improved (0.02 vs. 0.05 millGals)
- Reduced Power requirements (75 vs. 240W)
- Greatly reduced size: 48% smaller (59 x 53 x 56cm vs. 71 x 56 x 84cm)
- Greatly reduced weight (73kg vs. 140kg)



Shown above are the older TAGS on the left (without safety cages installed), and System 6 on the right (no safety cages necessary).

SYSTEM 6 REPRESENTS THE LATEST DEVELOPMENT in a long line of LaCoste-based airborne gravity systems, stretching back to the first successful airborne gravity flights in 1958 and building on the success of the TAGS System. For over 50 years, LaCoste gravimeters have acquired hundreds of thousands of line kilometers of gravity data during academic, government, and commercial surveys. System 6 blends the latest in GPS and data acquisition technology with the solid foundation of the LaCoste dynamic gravimeter.

System 6 is an upgrade to the TAGS/Air III gravity meter, and is designed specifically for airborne operations. The system incorporates a time-tested, low-drift, zero-length-spring gravity sensor mounted on a gyro-stabilized gimbal platform. The sensor has a worldwide gravity measuring range (no reset necessary) of 500,000 milliGals.

NEW FEATURES

- Smaller sensor/gimbal (60%)
- Lighter sensor/gimbal (30%)
- New slip ring technology- more robust
- 20 Hz GPS and Gravity data: Better GPS and Gravity timing
- More travel pitch/roll
- Full feedback 500,000 mGal range on beam: more robust in turbulence
- Double oven temperature control
- Temperature controlled electronics
- Microprocessor control
- Separate, rack-mountable electronic unit and computer allow for more flexibility in configuration
- Lockable Gimbal



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