



**CODEVINTEC**

Tecnologie per le Scienze della Terra e del Mare

45° 27' 39.384" N  
9° 07' 30.145" E

## G-864 Cesium Magnetometer



### Land Magnetometry meets 21<sup>st</sup> Century Technology

#### Features & benefits

- > **Android™ Acquisition Software** - Modern user interface allows for WiFi communication and unlimited expansion of features
- > **GPS Navigation** - No Staking! Define survey geometry beforehand to limit field time
- > **Large Arrays** - Log up to 4 magnetometers at a time and cover more area, faster
- > **Data Redundancy** - Avoid data loss



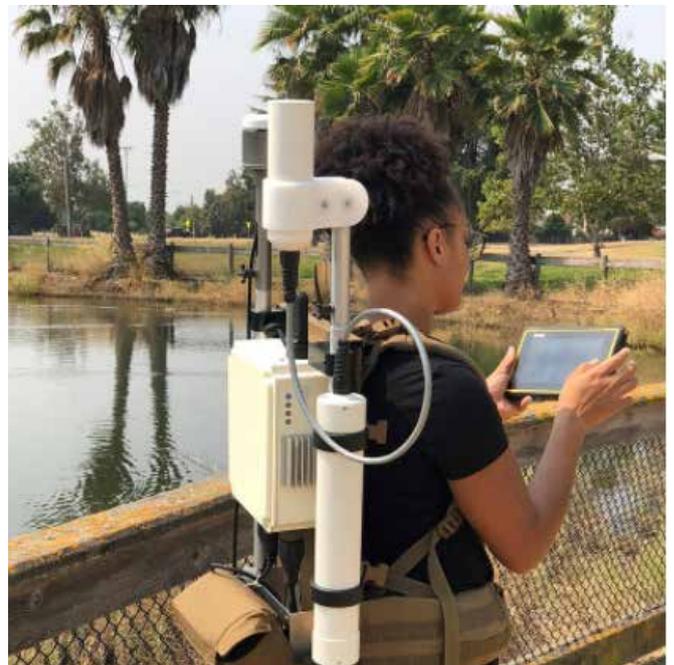
## G-864 Cesium Magnetometer with MagNav Software

Geometrics is proud to introduce the latest generation of land magnetometers to the geophysical market! The G-864 marries the highest quality magnetometer available today with a modern user interface, making surveying easier and more efficient for years to come.

The G-864 cesium magnetometer utilizes a modified Android tablet, the Getac ZX70, as the data console. This offers users the ability to store large amounts of data as either a single or multiple projects. The Android tablet also incorporates a navigational display and the ability to preload survey lines, a feature that will direct users throughout the survey area. Preloading the survey lines, instead of using traditional tape measures and stakes to create the lines in the field, reduces setup time and crew size. Finally, logging data using a wireless platform eliminates the potential for snagging or breaking instrument cables during the survey.

The G-864 is well-suited for mineral exploration, civil and environmental engineering projects, UXO detection and archaeological surveys. Modern surveys require large arrays of magnetometers to cover a site as fast as possible. The G-864 can handle up to 4 magnetometers at a time, offering the ability to survey a wider area at once. With a maximum sample rate of 10 Hz, a noise floor at  $<0.004 \text{ nT}\sqrt{\text{Hz}}_{\text{rms}}$  the new G-864 allows for faster, more accurate surveys. Time is money, and the G-864 will help you save both!

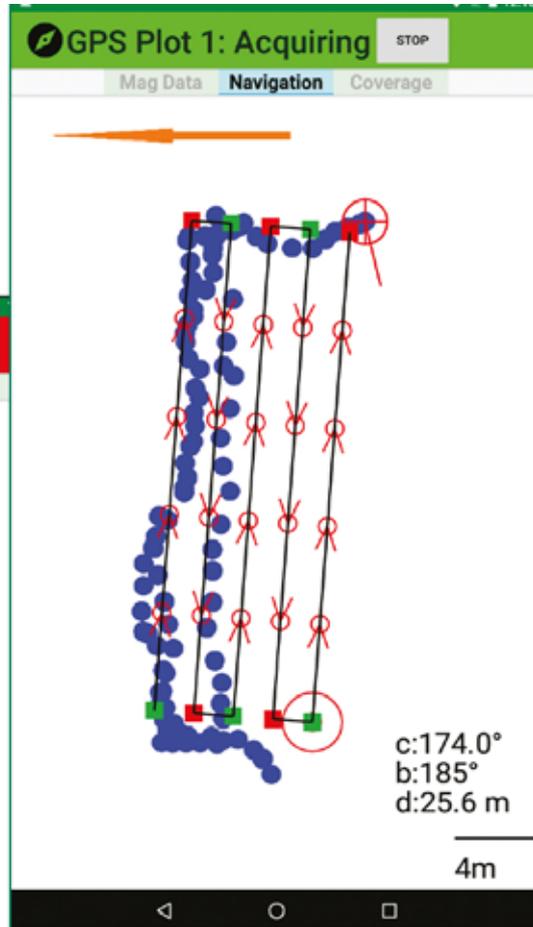
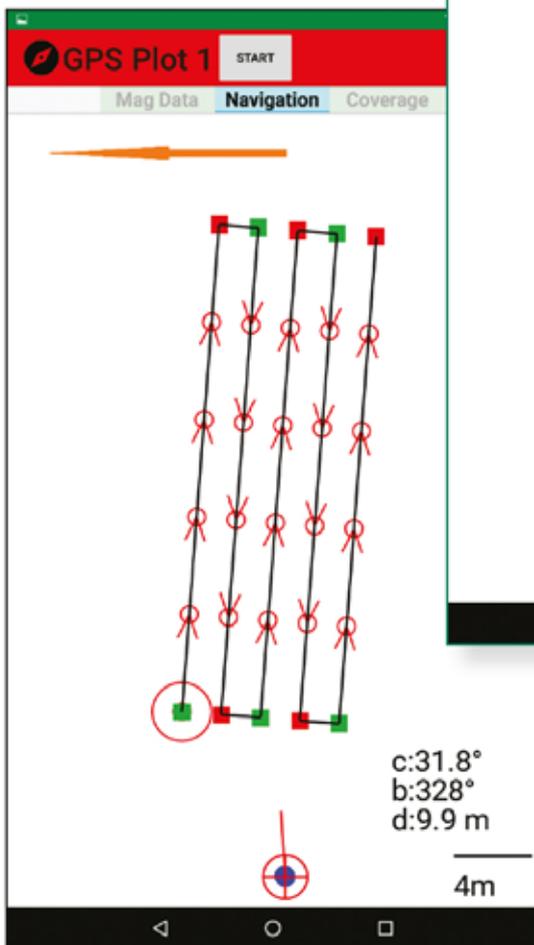
Lastly, the G-864 is designed to meet the world's need for land magnetic surveys.





## For Mineral, Geological, Engineering and Archaeological Exploration

Acquisition  
Screen



Navigate Your  
Survey Lines





## Technical Specifications

### Magnetometer

<b>Operating Principle</b>	Self-oscillating split-beam Cesium Vapor (non-radioactive)
<b>Operating Range</b>	20,000 to 100,000 nT
<b>Operating Zones</b>	The earth's field vector should be at an angle greater than 10° from the sensor's equator and greater than 10° from the sensor's long axis. Automatic hemisphere switching
<b>Noise</b>	<0.004 nT $\sqrt{\text{Hz}}_{\text{rms}}$ . (SX (export) version: 0.02 nT/ $\text{Hz}_{\text{rms}}$ )
<b>Max Sample Rate</b>	10 Hz changeable
<b>Heading Error</b>	0.15 nT over entire 360° equatorial and polar spins
<b>Gradient Tolerance</b>	20,000 nT/m
<b>Temperature Drift</b>	0.05nT/°C
<b>Power</b>	24 to 35 VDC, 15 - 30 W to start and 20 to 35 VDC, 15 W to run
<b>Data Logger</b>	Getac ZX70 Android tablet, or user provided Android device
<b>Data Storage</b>	1 GB USB drive, 16GB on tablet
<b>Data Format</b>	ASCII, MS Windows PC compatible micro-seismic or earthquake studies

### Mechanical/Environmental

<b>Backpack</b>	4.3 kg (9.5 lb)
<b>Storage Temperature</b>	-45° C to +70° C (-48° F to +158° F)
<b>Operating Temperature</b>	-35° C to +50° C (-30° F to +122° F)
<b>Cable Length</b>	User selectable cable lengths of 3, 9 or 13 ft. (0.9, 2.7, 4 m)
<b>Electronics Module Dimensions</b>	DIA: 7 cm; L: 38.7 cm; Weight: .91 kg (15.25 x 2.75 in; 2 lb)
<b>Sensor Dimensions</b>	DIA: 7 cm; L: 17.2 cm; Weight: .82 kg with cable. (6.75 in x 2.75; 1.8 lb)
<b>Altitude</b>	Up to 9,000 m (30,000 ft)
<b>Weatherproof</b>	O-Ring sealed for operation in the rain and/or 100% humidity, Tablet: IP67 rated.
<b>Shock</b>	Survives a 3 ft drop onto a hard surface
<b>Warranty</b>	2 year on sensor, 3 year on Getac ZX70 tablet
<b>Power</b>	24 to 35 VDC, 15 - 30 W to start and 20 to 35 VDC, 15 W to run
<b>Battery</b>	Lead acid or Li-Po options available
<b>Standard Accessories</b>	Shipping/storage case, Power Data Cable, DC/ Data Junction Box, MagMap, MagPick, and CsAz software

Specifications subject to change without notice