



PRESS RELEASE

**DATA GRID launches Geo-ID™ Mk 1,
the new handheld 16 Mb GPS/Data Logger
that puts your data into global context**

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DATA GRID presents the rugged and rainproof Geo-ID™ Mk 1, a handheld or belt-clip mounted 16 Mb GPS/data logger. The Geo-ID™ Mk 1 represents a novel and convenient GIS tool that is unobtrusive in the field and simple to use.

The main applications of the Mk 1 are road construction, land developments, bridges, volume measurements (gravel pits etc.), measurements of wells, farming, length calculations of roads, archaeological surveys. Sets of two or more Mk 1 units can be used in any application that requires accurate positioning. Single units can be used whenever tens of meters position accuracies suffice.

A single Geo-ID™ Mk 1 can be used as a standalone Data Collector with GPS positional data or with a reference unit for high precision carrier phase GPS accuracy.

Used as a 'traditional' high accuracy GPS – the Mk 1 represents a giant leap on the GPS market - displacing large and hard to use backpack models that typically sell at higher prices and provide lower accuracy. This is since the Mk 1 is based on the very latest in GPS receiver hardware and software. Used as a data collector with automatic storage of geographic coordinates - the "Geo-ID" of your data point - the Mk 1 is a revolution in simplicity of use and convenience.

The Geo-ID™ Mk 1 collects data using a wide range of detectors hooked up to the Mk 1 serial port or one of its two 12-bit digitising analogue ports and the data will be stored in non volatile flash memory alongside geographic location data. The internal GPS receiver determines the location of the Mk 1 up to once per second. Used alone, an Mk 1 will determine the position to a typical accuracy of 15 meters based on so-called Pseudorange Data calculated from the GPS 'codephase'. The position can be displayed in real time on a Handspring™ Visor PDA that is also used to store and associate user notes with the field data.

Using a second unit as a stationary reference station, an accuracy of 1 dm or better is typically obtained provided that the GPS antenna has at least four satellites in its direct field of view. The accuracy of the Geo-ID™ Mk 1 is obtained by constraining the satellite ranges using the phase of the carrier signal and comparing the signals received in the rover and the reference station. This requires that the stored signals be compared in postprocessing computer code. The high accuracy positioning is calculated in a highly automated processing mode using bundled software provided that the data collector remained stationary at each data collection point for at least four minutes. Continuous motion positions can be calculated using third party software.

Each unit of the Geo-ID™ Mk 1 consists of an Mk 1, an antenna, cables and software. A minimum of two units is necessary for carrier phase high precision GPS measurement. One unit is used as a stationary base or reference and any number of identical units can be used as mobile rovers that will typically operate within few km of the base station. In base mode an Mk 1 can remain attached to a computer for several months of unattended operation.

Weighing only 400 grams (14 oz) and of small dimensions 17 cm x 8 cm x 3 cm (6" 3/4 x 3" 1/8 x 1"1/8) the Mk 1 is easy to carry around and it is believed to be the first device to bring the exciting new Lithium-Ion Polymer batteries to market. This means significantly more power in a given volume, better reliability and lower dependence on external factors such as temperature.

The Geo-ID™ Mk 1 can operate for over 8 hours on a single charge.

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