

GEO REFERENCED MAGNETOMETER SURVEY SYSTEM MX-V3

Up to 16 probes
Towed or pushed
High resolution 24 bits
Sampling 200 Hz



GPS REFERENCED SURVEY SYSTEM MX-V3

The MAGNETO® **MX-V3** is a large area magnetometer survey system. It can host up to 16 fluxgate gradiometers on a trailer having a width of 3.85m. This allows a rapid non-invasive cartography on land in order to search for UXO or archaeological structures as well as doing large scale soil evaluations.

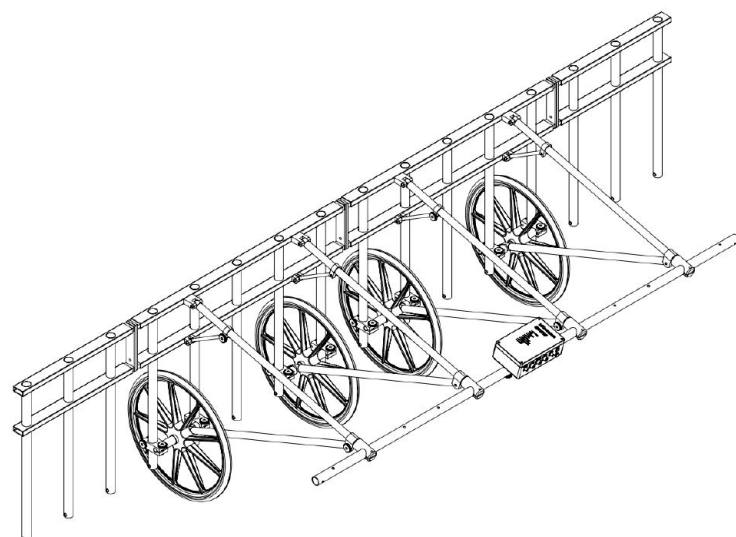
One of the unique features is the modular trailer that can be set up in various configurations to be carried, pushed or pulled. The survey width can be adjusted from 1m to 4m.

Furthermore, the compact data acquisition unit offers high sampling rates, 24 bit digitizing of all measurement data and an Ethernet interface to output the data. Thus, the survey system is very flexible to interconnect with third party components and systems. A wireless option is



available. At the maximum survey speed, the system is capturing the data every 20 mm.

In order to reach a positioning accuracy of ±1 cm for every measurement point, the MX V3 is equipped with a RTK DGPS. The GPS rover station is mounted to the car while the GPS base station (reference point) is set next to the measurement area.



TECHNICAL DATA

General Technical Data

Power Supply : 12 V battery pack (lead gel)

Dimension of Carrier

Length : min 1.2 m (pushed), max 4.50 m (towed)

Width : min 1.25, max 3.85 m

Height (incl. GPS antenna) : approx. 1.3 m

Weight (net) : 45 kg

Data acquisition

Analog input : 16 channel max

Output : Proprietary MonMX protocol

Position accuracy : ±1 cm (with RTK DGPS)

PC interface : LAN, 100 Mbit/s

Measurement configuration

Distance between probes : 0.25m min

Sensor above ground level : 0.1m to 0.4 m

Maximum survey speed : 15 km/h; 9 mph

Data density (y) at max survey speed : 20 mm

Area coverage

Maximum daily coverage : 20 ha