

DRONE MAGNETOMETER SURVEY KIT MAGDRONE



Applications

Survey & Surveillance Underground mine exploration at flexible heights UXO detection on unreachable, flooded or mined areas

Features

Dismountable system with 5 Fluxgate sensors
Attachable to any UAV with 1.5+ kg payload
Made for DJI M300
8 GB internal memory
200 Hz recording rate
Data loss prevention
WLAN interface
Data processing tool



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The MagDrone R4 is an ultra light weight magnetometer survey kit with 5 triaxial Fluxgates to be attached to any UAV with a 1,500 g payload.

Its dismountable sensor tube allows for sensor spacing of either 25cm or 50cm providing a 2.5m swath width. With 200Hz sampling rate, the R4 can easily filter out noise from infrastructure, net frequencies or UAV motors. Hence, it can be directly installed on UAV's landing gear for a very compact setup.

The MagDrone R4 can be used for i.e. magnetic cartographies, mine exploration (iron ore mines), area scanning for bombs and ammunition (UXO), preventive check and surveillance of areas against vehicles' intrusion.

The MagDrone Data Tool identifies flown tracks, cut, filter, compensate the raw data, generates a preview and exports into various formats to further process the recorded values, i.e. with our MAGNETO® software.

TECHNICAL DATA

General Technical Data
Power Supply: 12-32 V
Operating Temperature: -20°C to +50°C
Weight: 1,500 g
Overall power consumption: 10 W
Sensor tube dimensions (L x D): 2,074 x 29 mm

FGM3D/75 Fluxgate

Sensors : 5 sensors, laid horizontal, parallel
Specified measurement range : ±75,000 nT
Number of sensor axis : 3
Distance between sensors : 500 mm
Noise level @1Hz [pT/ (Hz)] : 10 pT<all sensors M1-M5<20 pT

Data Processing
MagDrone DataTool (included): Raw data filtering, track & flight direction detection, noise compensation, MagBase or GPS referencing, export, preview
MAGNETO® Software: Data interpretation, visualization, object calculation, etc.
Live output Via Webserver

