



UNMANNED SYSTEMS

DMAG v210

Applications

Handheld

Types

Metal detectors (MD)

Last update

01/01/1970

General description

The DMAG System is an autonomous aerial survey platform for low altitude total-field magnetic surveying. Combining a DJI Matrice 210RTK with custom built sensor hardware and AGS software, it is capable of autonomously flying survey grids at altitudes down to just 50cm above ground.

Working characteristics

The DMAGv210 was fitted with four 3-axis fluxgate magnetometers and two GPS antennas, which enabled the recording of data across a wide area with a track width of 2 meters. The dual GPS facilitated the capture of position and direction data, continuously recorded and displayed in real-time on the remote control display. The UAV is an autonomous hovering platform with four swivelling rotors arranged in a plane to generate lift or propulsion. Disturbances caused by flight movements and rotor currents are compensated during data acquisition. The magnetometer and positioning systems processed existing position and sensor data in real-time. For this purpose, SeaTerra uses the software AGSDrone", specially developed for explosive ordnance detection. The In-house software "AGSPROC" makes a data analysis and data interpretations of collected data.

Power supply data

Battery	24min
Low battery alert	1
Low battery alert information	Yes
Rechargeable	1
Operating time	10 hours
Operating time information	10
Battery charger provided	1
Battery charger information	standard

Dimensional data

Length	643 mm
Weight	7 kg
Transport case provided	1
Transport case information	Waterproof, crushproof, dustproof
Transport case weight	9 kg
Case dimensions	67.6 x 52.5 x 37.8 cm

Factory support data

Factory support	Yes
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Price

Possible to rent	1
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Other

Additional equipment	Thermal camera, LIDAR, Camera
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Technical data

Maximum speed	80 km/h
Flight / trip planning software	1
Live data transmission	1
Image processing software	1

Other information

Images