## Magnetic Field Detector Analyser MFDA1A

A versatile imaging system for the detection and analysis of permanent magnetic fields using a sensor array.

The MFDA1A uses an array of 8 x 8 sensors to create an image representing the shape and intensity of static magnetic fields. As a magnet is approached, the shape is revealed providing more information to the user compared to a single-point magnetometer.

The device includes a headphone output such that the presence of magnetic fields can be determined from a variable pitch tone to aid the initial detection of magnets.





## Features

- External sensor array (8 x 8)
- Internal Scalar Magnetometer
- Backlit Graphic Display
- Audio Output (3.5mm jack)
- Powered by 2 x AA

## Applications

- Anti-Mechanical Doping (cycling)
- Test and Measurement





## Specifications

Unless Otherwise Stated: Battery = 2 x Energizer E91 Alkaline, Backlight (BL) = Low, Temp = 20°C

Parameter	Min	Тур	Max	Units
Internal Mag Sensitivity 1		10		μT
External Mag Sensitivity 1		100		μT
Internal Mag Range	0.01		2	mT
External Mag Range	0.1		TBA	mT
Internal Mag Accuracy <sup>2</sup>		2		μT
External Mag Accuracy <sup>2</sup>		TBA		μT
Battery Life (Internal only)	20	ТВА		Hours
Battery Life (both sensors)	4	TBA		Hours

Note. Specifications are subject to change without notice.

- 1. Minimum practical field strength for reliable detection.
- 2. Subject to correct magnetometer calibration.