MapEM Electromagnetic Maps

Comprehensive Large Area Electromagnetic Map

The MapEM system allows creation of a comprehensive map of electromagnetic field levels covering a large area, such as a city.

The device can be easily installed on a vehicle to measure the intensity of the electric field (V/m) as it drives around the streets, eventually providing a “snapshot” of electro-magnetic radiation levels throughout the area.

DRIVE TEST WITH MONITEM

COMPREHENSIVE ASSESSMENT
of electromagnetic radiation at street level in large areas (cities).

YEAR-ON-YEAR COMPARISON
to assess developments in electro-magnetic fields depending on changes to infrastructure or technology.

DETECTION OF SENSITIVE POINTS
with high radiation to take corrective measures.

VISUAL COMMUNICATION TOOL
to allow simple presentation of the public’s exposure to electromagnetic fields.

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MONITEM Applications. Measurement of EMF radiation in:

Industry | Telecommunications | Powerline | Defense | Medical

CÓMO FUNCIONA?

Car + MonitEM ⇄ Electromagnetic Map

Technical specifications

Measurement equipment

Sensor type	Isotropic, RMS
Frequency range (customizable)	High frequencies: 100 kHz – 8 GHz Mobile telephones: GSM, UMTS, LTE
Measurement range	0.2 – 100 V/m
Sampling frequency	1 measurement per second
Calibration	By a laboratory with ISO 17025 accreditation
Operating temperature	- 30ºC to + 80ºC

Mechanical properties

Dimensions	70 x 40 x 8 cm
Weight	8 Kg
Environmental protection	IP66
Installation kit	Magnetic base Easily installation and removal on vehicle roof

Operating characteristics

Data transfer	External USB connector
Memory	Micro SD (1 GByte) + Eeprom
Power supply	12 Volt DC connected to vehicle and internal battery
Software	Compatible with Windows O.S.
Vehicle speed	0 a 60 km/h (recommended)
Results	Display software / Results database

Results

Display software	Display interface that superimposes measurement levels on the map
Coding	Editable scale: by colour and values
Data downloading	Georeferenced data in Access or CSV format
Exportation	Level map images in JPG format

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