



# 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 electromagnetic 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.



## MONITEM Applications. Measurement of EMF radiation in:



Industry



Telecommunications



Powerline



Defense



Medical

## CÓMO FUNCIONA?



Car



MonitEM



Electromagnetic Map

## Technical specifications

### Measurement equipment

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

### Mechanical properties

|                                 |  |
|---------------------------------|--|
| <b>Dimensions</b>               | 70 x 40 x 8 cm   |
| <b>Weight</b>                   | 8 Kg   |
| <b>Environmental protection</b> | IP66   |
| <b>Installation kit</b>         | Magnetic base<br>Easily installation and removal on vehicle roof |

### Operating characteristics

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

### Results

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

Product specifications and descriptions in this document subject to change without notice