

# MapEM



## RF Electromagnetic Field Level Maps

The MapEM system consists of a MonitEM monitoring device and a control software. It allows the creation of a comprehensive map of electromagnetic field levels covering a large area, such as a city.

The monitoring device can be easily installed on a vehicle to measure the electric field strength (V/m) as it drives around the streets, providing a clear view of the RF field levels throughout the area.



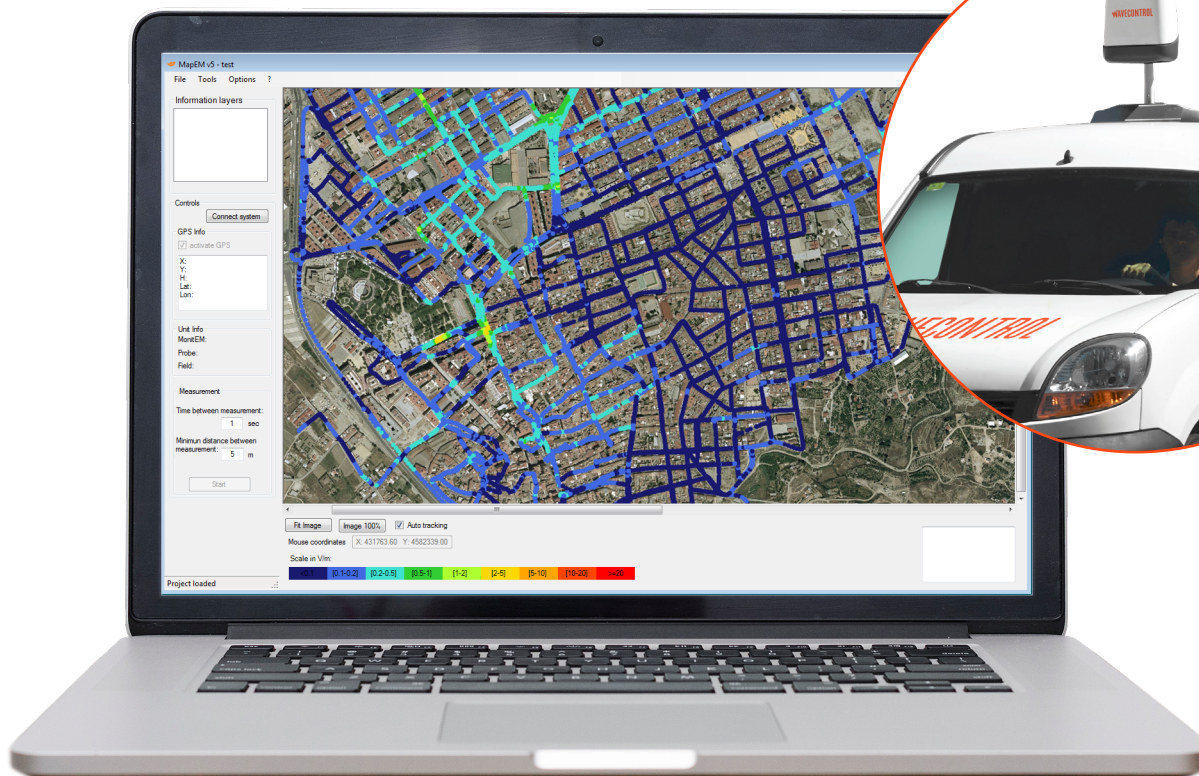
Compliance with ITU-T K.113

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

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

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

**VISUAL COMMUNICATION TOOL**  
to allow simple presentation of the public's exposure to electromagnetic fields



# HOW DOES IT WORK?



MonitEM on Vehicle



Electromagnetic Mapping Software

## Technical specifications

### Measurement equipment

<b>Sensor type</b>	Isotropic, RMS
<b>Frequency range</b>	Depending on field probe (see next page)
<b>Probe system</b>	Interchangeable, 100 kHz to 60 GHz
<b>Sampling frequency</b>	1 measurement per second
<b>Calibration</b>	ISO 17025 accredited
<b>Operating temperature</b>	- 25 °C to + 60 °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  Easily installation and removal from 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>Results</b>	Display software / database

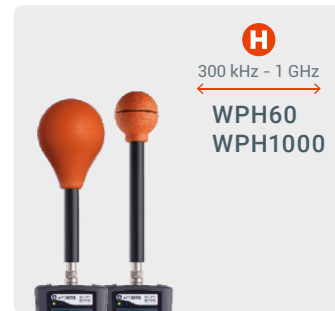
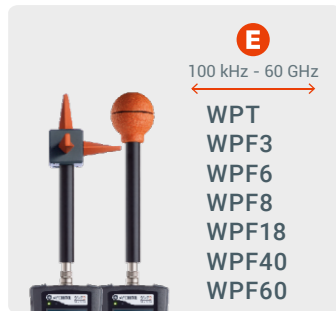
### Results

<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, KML, or CSV format
<b>Exportation</b>	Level map images in JPG format

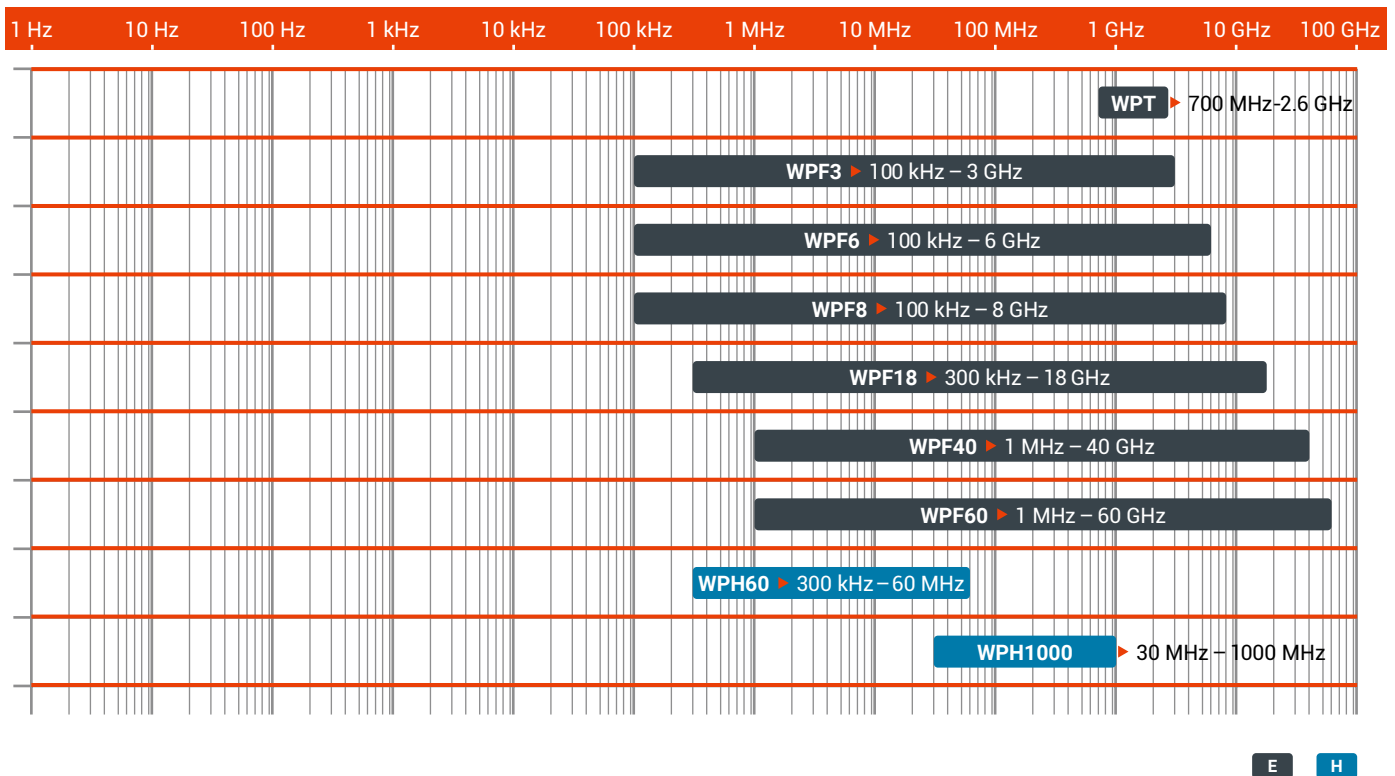
## RF Electromagnetic Field Level Maps. Compatible Field Probes

Wavecontrol provides a full range of E-Field and H-Field probes covering different frequency ranges starting at 100 kHz and up to 60 GHz.

Probes are plug and play and come with an individual ISO 17025 accredited calibration. All sensors are isotropic, RMS and highly accurate.



### Frequency range of compatible field probes



**E** **H**

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