EME Spy *Evolution*

A PPM to continuously measure human exposure to EMF for up to 20 user-defined frequency bands

- **Measurement choice among a list of 84 standard bands between 80 MHz and 6 GHz**
- **Covering broadcast, cellular (2G, 3G, 4G, 5G), Wi-Fi, & ISM frequency bands**
- **New battery designed for longer measurement cycle**

Watch a success story of EME Spy 140

Main features

User profile

- Municipalities, governmental agencies, regulatory bodies, research laboratories, universities, broadcasters, PMR, and mobile phone operators

Measurement capabilities

- Continuous monitoring of personal exposure to electromagnetic fields and identification of the contributors.

Frequency bands

- Monitoring of up to 20 bands from 80 MHz – 6000 MHz

Safety recommendations

- Measurements can be compared with the reference levels advised by ICNIRP, FCC or SC6

Real time visualization kit (optional)

- The field level for each frequency band is displayed as it is measured
- Exports data to the EME Spy *Evolution* Analysis software for post processing and backup

Product Configuration

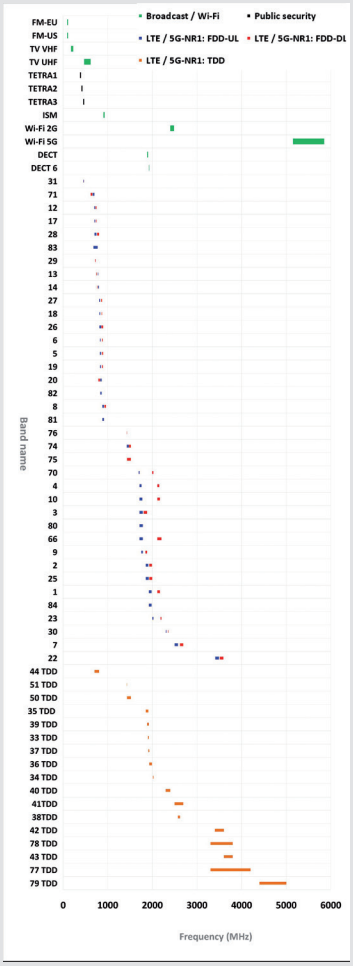
Equipment

- ■ EME Spy *Evolution* Analysis software
- ■ User manual
- ■ USB cable
- ■ USB power adapter
- ■ Case
- □ Real time visualisation kit

Services

- ■ Initial calibration
- ■ Calibration report
- □ Installation
- □ Training
- □ Additional calibration
- □ Extended warranty

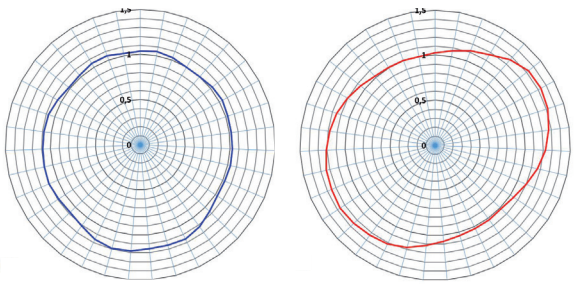
■ Included □ Optional



Frequency table with 84 possible frequency bands for different applications

Differentiating uplink(1) and downlink(2) is not only useful to assess the contribution of each transmitter, but also to avoid discrepancy in the results by phones emitting close to the dosimeter.

(1) Uplink: Sending of information from mobile station to the BTS
(2) Downlink: Sending of information from the BTS to the mobile station



Vertical Polarization | Horizontal Polarization

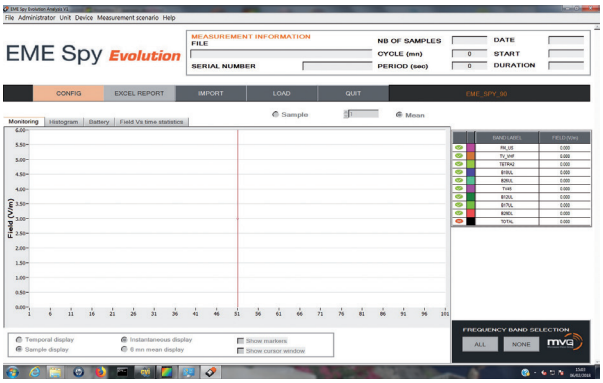
Isotropy measured at 1940 MHz

PROBE CHARACTERISTICS

Probe	Tri-axial E-field probe 80 MHz – 6 GHz
Sensitivity	• 0.05 V/m (80 MHz – 0.7 GHz, 3 GHz – 6 GHz) • 0.02 V/m (0.7 GHz – 3 GHz)
Dynamic	56 dB (up to 6V/m)
Isotropy	± 1.5 dB (80 MHz – 4 GHz) ± 2.5 dB (4 GHz – 6 GHz)

MEASUREMENT CONFIGURATION

Number of data points	Up to 116 k points (20 band scenario) Up to 692 k points (1 band only)
Logging intervals	From 2 to 255 s (according to desired scenario)



EME Spy *Evolution* Analysis main window

OPERATING CONDITIONS

Temperature	• -20°C to +60°C in operating mode • 0°C to + 40°C in charging mode
Humidity	Up to 85% Max
Battery life*	• More than 7 days Measurement scenario: 6 LTE DL frequency bands with 1 minute period. • Up to 23 hours Measurement scenario: 11 LTE, 2 Wi-Fi, 1 DECT, 3 broadcast, and 3 TETRA frequency bands with 6 second period.

* Internal battery

MECHANICAL CHARACTERISTICS

Dimensions	176 x 73.4 x 48.8 mm
Weight	520 g

PC SOFTWARE

Operating system	Windows 7, 8, 10
Connectivity	Micro USB

INTERFACE

USB	Micro USB slot (charging, communication, external battery)
Power On/Off	Via Push button
Measurement On/Off	Via Push button
Reset device	Via reset button
Visual indicators	LEDs (Measurement action, power ON, default, battery charging)

EME Spy *Evolution* Real Time Kit

A streamlined and ergonomic screen allows the visualization of only the most useful information in real time on a small laptop PC, tablet or smartphone via a ferrite USB cable (for Windows) or BlueTooth (for Android).

EME Spy *Evolution* Android Application

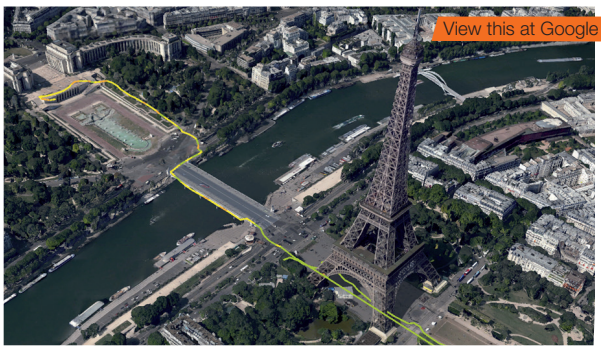
http://tinyurl.com/k268zrh

Real-time view of electromagnetic field.

Measurements are transmitted by a Bluetooth link to an Android smartphone to display the exposure levels generated by the main radio services (FM, TV, Cellular Networks, Wi-Fi, etc. ...).

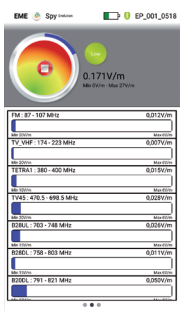
	BASIC MODE	PRO MODE
Real-time display	X	X
Backup + post-processing of measurements for compatibility with the EME Spy *Evolution* Analysis software		X
Geo-location of the measurements with GPS position		X
Generation of *.kmz files for compatibility with Google Earth		X

The EME Spy Android APP is compatible to Android v4.0 and above.



Geolocalized measurements in Paris

* Google Earth installation required. Visit our website for more information.



Real-time Visualization

Map view

MVG - Testing Connectivity for a Wireless World

The Microwave Vision Group offers cutting-edge technologies for the visualisation of electromagnetic waves. Enhancing the speed and accuracy of wireless connectivity testing, as well as the performance and reliability of anechoic and EMC technologies, our systems are integral to meeting the testing challenges of a fully connected world.

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Our teams, in offices around the world, guide and support you from purchase, through design, to delivery and installation. Because we are local, we can assure speed and attention in project follow through. This includes customer support and maintenance once the system is in place. For the exact addresses and up-to-date contact information: **www.mvg-world.com/contact**

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