/ EME Wide   NEW

/ Main features

User profile

- Workers near antennas, including installers, maintenance workers, broadcasters, and cellular carrier employees: for the control of the compliance of the exposure level with the standards and safety perimeter definition
- Certification laboratory, regulatory body: for control and monitoring of the exposure in public or private locations and site certification

Measurement capabilities

- Continuous EM field level measurements

Frequency bands

- 100 KHz to 6.5 GHz

Related recommendations

- 2013/35/EU Directive
- ICNIRP
- FCC 96-326
- Safety Code 6
- Exposure thresholds are user-definable and can be adapted to any recommendation

/ System Configuration

Software

- ■ EME Wide Analysis Software

Equipment

- ■ Case
- ■ Optical cable
- ■ USB adapter
- ■ USB cable
- ■ Battery charger
- ■ USB key for software installation
- ■ User manual
- □ Wood tripod

Services

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

■ Included □ Optional

EME Wide Applications in:

Telecommunications

Industry

Laboratory

Medical

Radar equipment

Worker's safety

Public safety

> Measurements and results

- Isotropic or single axis (X, Y, Z) instantaneous field value
- Maximum, RMS or Time/Spatial average of isotropic field value
- Selectable unit (V/m, A/m, W/m²)
- Alarm function (buzzer) with programmable field threshold
- Measurements stored in a non-volatile memory (up to 20000 points)

> Equipment interfaces

- Easy use from the 5 keys membrane keypad
- 7 cm (2.8") LCD display with led backlight
- Optical link for communication with PC and remote control
- Other information: date & time, temperature, battery charge status

> Battery and charge

- AA rechargeable NiMH battery
- External wall charger with set of plugs
- Automatic shutdown for very low battery or during recharge

▮ High performance probe for accurate measurements

The EME Wide is equipped with a triaxial probe which guarantees measurement isotropy. Each device comes with a calibration report. The performance of this sensor has been optimized to ensure excellent isotropy.

— Ev
— Eh
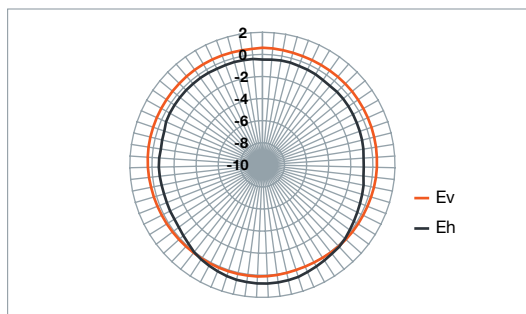
▮ A user friendly and flexible software

The EME Wide Analysis software enables two usages:

- **Importation mode** enables download and visualization of measurements recorded in the embedded memory of the device.
- **Real time mode** enables measurement start from the PC, visualization in real time of measurements, and exporting data to a file.

STEP 1: start the device (ON/OFF button) and plug it to the PC.

STEP 2: configure the internal alarm threshold, define measurement unit, clear memory, set window length time for RMS mean calculation, update date and time.

STEP 3: perform measurements. 3 types of measurements exist:

- **Screenshot:** recording from the probe at any time of each information indicated on the main screen of the probe (X, Y, Z, & total E-field, RMS, mean, spatial averaging, maximum value, temperature) into 200 memory cases max.
- **Recording:** start from the probe. Enables to perform 5 time measurements with 5 second period, containing 20 000 points max where X, Y, Z, total E-field, and temperature are saved.
- **Real time:** start from the PC. Enables to perform real time measurements with 1 second period, where X, Y, Z, total E-field, and temperature are saved.

STEP 4: import screenshot and recording measurements in the form of secure files using optical link and display the results.
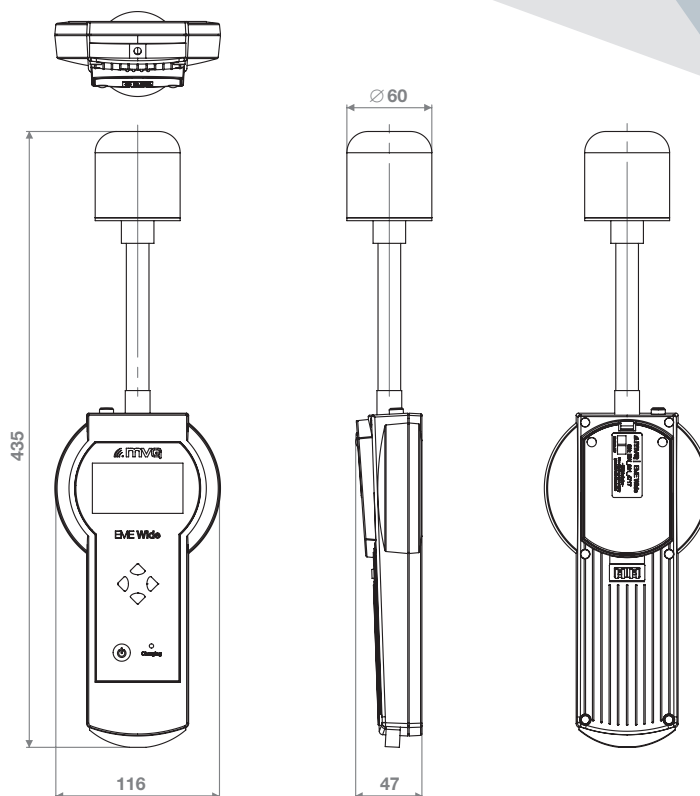
▌ Specification

TECHNICAL CHARACTERISTICS

Frequency range	100 KHz - 6.5 GHz
Upper detection limit	350 V/m
Lower detection limit	0.35 V/m
Damage level (CW)	> 600 V/m

MEASUREMENT UNCERTAINTY

Frequency response @ 10 V/m	± 1 dB (100 MHz – 2.7 GHz)
	± 1,5 dB (2.7 GHz – 6.5 GHz)
Axial isotropy @ 60 V/m	± 0.5 dB @ 100 MHz
Linearity [2 V/m – 250 V/m]	± 0.5 dB @ 100 MHz
Temperature sensor	± 2°C

MEASUREMENT CONFIGURATION

Unit	V/m, A/m, W/m²
Measurement mode	Isotropic or single axis (X, Y, Z)
Measurement type	RMS, Maximum, Time/Spatial Average
RMS average	From 1 to 10 minutes
Spatial average	Discrete
Screenshot capacity	200 measurements MAX
Recording capacity	20 000 measurements MAX
Min. measurement period	5 sec for RECORDING mode
	1 sec for REAL TIME mode
Alarm function	Single tone buzzer

DISPLAY

Display type	Transflective LCD
Display size	7 cm (2.8''), 128 x 64 dots
Backlight	White leds (Off or permanent)
Refresh rate	200 ms

INTERFACES

Optical interface	Serial, full duplex
	Optical/USB adapter for PC connection
Probe interface	Plug and play auto detection

CONDITIONS FOR USE

Battery	4 x AA rechargeable NiMH
Battery charger	External wall charger
Operation time	> 48 hours (backlight off)
Charging time	6 hours
Battery level (on display)	5 voltage levels (bar graph)
Operating temperature/humidity	-10°C/+50°C, 5%/95% non condensing
Storage temperature	-20°C/+70°C

MECHANICAL CHARACTERISTICS

Dimensions	435 x 116 x 60 mm (H, L, W)
Weight	600 g
Protection	IP44

PC SOFTWARE

Operating systems compatibility	Windows XP, 7, 8, 10

A global presence

Microwave Vision exports more than 90% of its production outside of France. The Group spans Europe, Asia and America through 20 locations in 10 countries.

MVG Industries
17 avenue de Norvège
91140 Villebon-sur-Yvette
FRANCE

Tel: +33 (0)1 69 29 02 47

MVG - Corporate HQ
47 boulevard Saint Michel
75005 Paris
FRANCE

Tel: +33 (0)1 75 77 58 50

MVG Industries Bretagne
Technopôle Brest Iroise
295 avenue Alexis de Rochon
29280 Plouzané
FRANCE

Tel: +33 (0)2 98 05 13 34

Orbit/FR Germany
ORBIT/FR Germany
J. S. Bach-Str. 11
85591 Vaterstetten
GERMANY

Tel: +49 (0)810 699 6060

Orbit/FR Israel
1 Gesher Ha-Ets St.,
P.O. Box 12096,
Emek Hefer Industrial Park,
38777-01 Emek Hefer
ISRAEL

Tel: +972 74 713 0130

MVG Italy
Via Castelli Romani, 59
00040 Pomezia (Rome)
ITALY

Tel: +39 06 89 99 53 11

Research and Production center in France

MVG Sweden
P.O. Box 35
44121 Alingsas
Gothenburg
SWEDEN

Tel: +46 31 402 430

Rainford EMC Systems Limited
Unit 400,
Haydock Lane,
Haydock WA11 9TH
UNITED KINGDOM

Tel: +44 (0)1 942 296 190

MVG Hong-Kong
Suite 702, 7th floor
Cyberport 1
100 Cyberport Road
Pok Fu Lam
Hong Kong SAR
CHINA

Tel: +85 229 896 128

MVG India
N° 414 Cunnigham Road
Level 4 Prestige Centre Point,
560052 Bangalore
INDIA

Tel: +91 70 22 98 12 16

Production site in Israel

MVG Japan
#101 Confort Musashi-Nakahara,
2-10-32, Shimokodanaka,
Nakahara-ku, Kawasaki-city
211-0041 Kanagawa
JAPAN

Tel: +81 44 948 9301

Orbit/FR's Corporate HQ
506 Prudential Road
Horsham, PA
19044
UNITED STATES

Tel: +1(215) 674 5100

MVG, Inc
2105 Barrett Park Dr.,
Suite 104
Kennesaw, GA 30144
UNITED STATES

Tel: +1 678 797 9172

AEMI
1320 Air Wing Road,
suite 101
Otay Mesa, CA 92154
UNITED STATES

Tel: +1 (619) 449 9492

Contact your local sales representative for more information
salesteam@mvg-world.com
www.mvg-world.com/rfsafety

MVG
Microwave Vision Group