Monitoring electromagnetic fields (EMF) in modern connected societies with advanced digital services is crucial to ensure safety and regulatory compliance

NEW

Monit**EM**-IoT

Next generation of Continuous

ELECTROMAGNETIC FIELD
Area Monitoring

Continuous RF Monitoring 24/7

Real Time Alarms

Management & Control

Visualization & Communication

Smart Cities, Industry 4.0, and many other connected services rely on various wireless communication technologies that emit electromagnetic fields (EMFs). While such technologies are essential for any modern society, it is important to take care of human exposure to EMFs.

Wavecontrol new solution, MonitEM**-IoT,** allows for a comprehensive assessment of EMF human exposure, ensuring that technological advancements do not come at the expense of public safety.
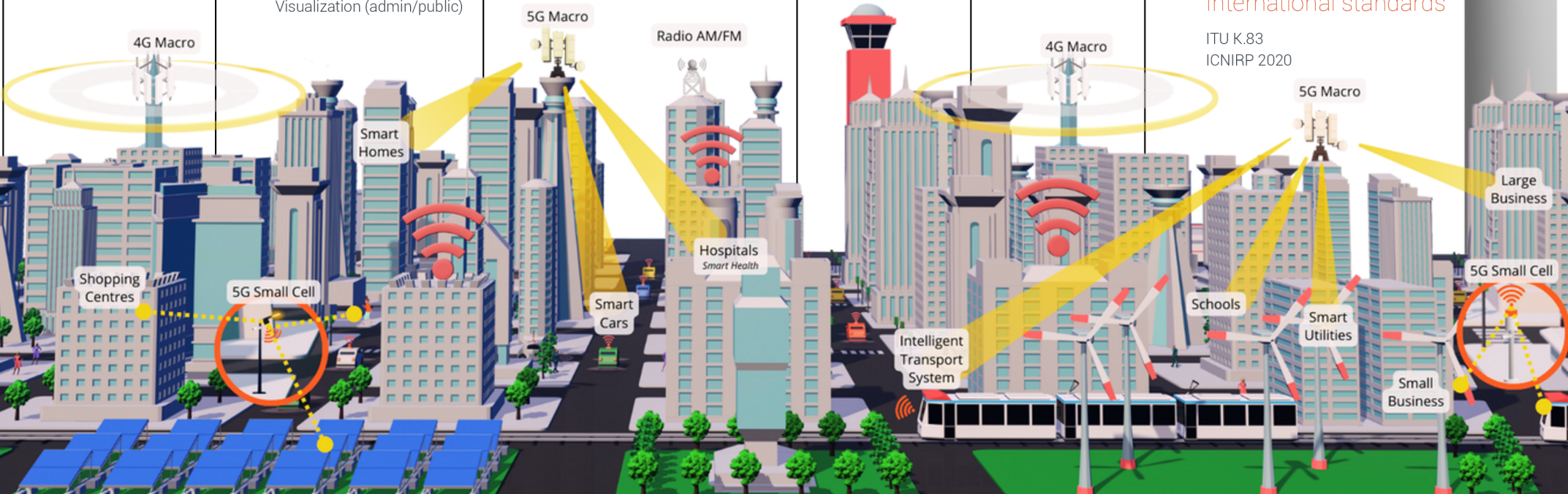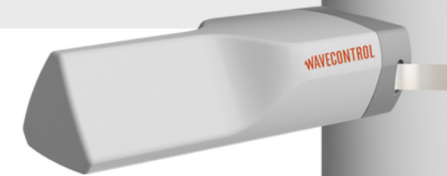
Exposure Measurements
Isotropic sensors
Electric field up to 8 GHz

Real Time alarms
Continuous RF monitoring 24/7
Alarms management

Out-of-the-Box
Small size
Easy to install
No maintenance

WAVECONTROL

IoT/PoE connectivity
Wireless LTE-M/Nb-IoT or Ethernet

Easy to install and Setup
Several mounting options
Start up through App
Ready for large scale projects

Control Centre
Setting monitoring stations
Manage exposure alarms
Automatic reporting
Visualization (admin/public)

No Maintenance
A battery-powered device with long-lasting batteries, requiring no AC wiring or solar panels for operation, offers simple, self-sufficient power with no maintenance

Reduced Size
Minimize visual impact
Easy installation

According to International standards
ITU K.83
ICNIRP 2020

4G Macro
5G Macro
Radio AM/FM
4G Macro
5G Macro
Smart Homes
Shopping Centres
5G Small Cell
Smart Cars
Hospitals
Smart Health
Intelligent Transport System
Large Business
5G Small Cell
Schools
Smart Utilities
Small Business

Specifications

Models

Model	MonitEM-IoT-N-RF8	MonitEM-IoT-E-RF8
Part Number	WMT0200	WMT0201

Performance

Frequency range	500 kHz - 8 GHz	5 MHz - 8 GHz
Sensor type	Electric field isotropic (3 axis) RMS diode technology	
Type of frequency response	Flat	
Measurement range	0.7 - 250 V/m	
Frequency response	± 1.5 dB (1 MHz – 6 GHz)	

Measurements

Measurements/day & comms	Configurable by user
Time averaging	6 min/30 min – configurable by user
Measurements Backup Memory	>1 month in case of no communication
Programmable alarms	Field level, low battery, communication error

Power & Communications

Power	Battery (battery life >3 years)	Power Over Ethernet (POE)
Wireless communications	Wireless communications LTE-M/Nb-IoT	Ethernet
Local setup	NFC with smart phone App	
Installation kits	Wall, mast or tripod	

Control Centre

	Settings, control, alarm management, visualization, reports, and communication Compatible with: MonitEM-IoT, MonitEM, MonitEM-LAB, SMP3 meter

Compliance

	According to standards: ITU-T K83, ICNIRP2020

General

Temperature range	- 20 ºC to 50 ºC
Dimensions	24,0 x 7,5 x 6,0 cm
Weight	550g
Environmental protection	IP65