EM9N/EM9D
Broadband Electromagnetic Field Meter

Key Benefits

- Double efficiency in monitoring EMF than traditional methods
- Built-in GNSS receiver, electronics compass, temperature & humidity sensors
- Scenic and surrounding view with built-in HD camera
- Operation procedure and log with geographical information
- Auto-generation of drive test data
- User-defined measurement templates
- Bluetooth, Wi-Fi and USB-C communication interface
- Screen capture and measurement recording for public/environment safety law enforcement
- 4GB RAM and 16GB ROM internal memory
- Cloud sever upload and integration
- Support power frequency probe

Applications in EMF safety measurement and monitoring

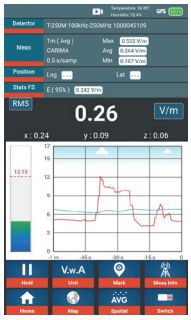
- Public / Environmental
- 5G base station / cell tower
- TV and radio broadcasting tower
- Public safety regulation compliance
- Aviation, marine and railway system

Main Features

EM9N

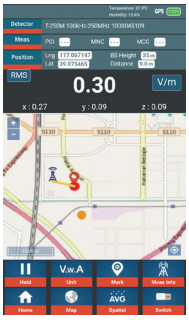
1. Time-Average Field Strength:

Real-time field intensity display, spectral line mode and measuring cylinder mode.



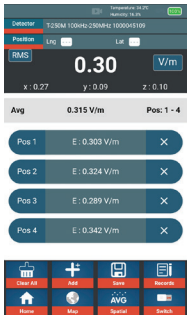
2. Map:

Field strength map display, including automatic and manual point.



3. Spatial:

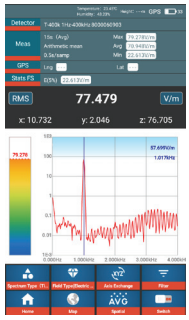
Spatial average. Multiple spatial averages can be combined and saved into a single record file for easy viewing.



EM9D

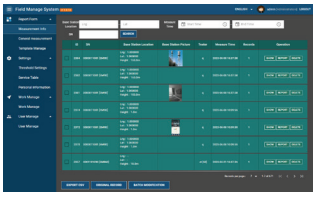
4. Spectrum:

Power frequency test interface in electric field environment.

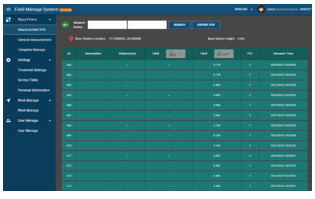


Backend Server - Work Order Management

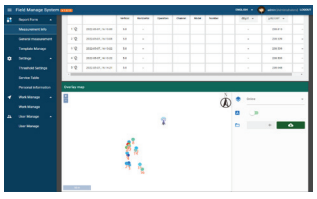
Test record query



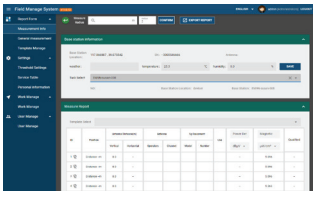
Test record details



Test report



Report export



Ordering information (EM9N)

Item	Description	Configuration
EM9N	Broadband Electromagnetic Field Meter	Standard
Carry Case	Black plastic case	Standard
Power adapter	12VDC/2A adapter	Standard
T-6G	100 kHz to 6 GHz probe	Standard
EM20 RF Electromagnetic Field Calibrator	5V/m Accuracy ± 0.5dB	Optional
Tripod	——	Optional

Ordering information (EM9D)

Item	Description	Configuration
EM9D	Broadband (DC) sampling or FFT Spectrum analysis (dual channel)	Standard
Carry Case	Black plastic case	Standard
Power adapter	12VDC/2A adapter	Standard
T-400K	Low Frequency Electromagnetic Field Probe	Standard
EM20 RF Electromagnetic Field Calibrator	5V/m Accuracy ± 0.5dB	Optional
Tripod	——	Optional

Specification

EM9N (single channel) / EM9D (dual channel)

Frequency Range	DC to 40GHz (probe dependent)	Measurement Mode	Broadband (DC) sampling or FFT Spectrum analysis (dual channel)
Display Range	0.001 to 999 V/m	Measurement Unit	Electric Field - kV/m, V/m, mV/m, W/m², mW/cm², µW/cm²
Interface	12-pin aviation socket, USB-C, AC/DC power adapter		Magnetic Field – T, mT, µT, nT, pT, fT, A/m, mA/m, µA/m, nA/m, G, mG, µG, nG
Built-in Sensor	GNSS/Beidou, Wi-Fi, Bluetooth, electronic compass, temperature, humidity, and laser height measurer	Memory	4G RAM/16G ROM up to thousands of pictures and video clips
Power Supply	DC 12V/2A adapter	Operating Hours	>10 hours
	Li-Ion battery 7.4V/5A (37W)	Operating Temperature	-10°C to +50°C

T-8G Broadband Probe (Electric Field)

Frequency Range	100kHz to 8000MHz
Measurement Range	0.2V/m to 650V/m (CW), 0.2V/m to 20V/m (RMS)
Frequency Response	±1.5dB (900MHz to 3GHz)
	±2.5dB (< 900MHz, >3GHz)
Probe	Electric field, X/Y/Z 3-axis, omni-directional
Probe Sensor	Diode Dipole
Linearity Error	±0.5dB (@1GHz)
Isotropic	<±1dB (@1GHz)
Calibration Frequency (MHz)	0.1/0.15/0.2/0.3/1/3/10/27/30/50/100/ 200/300/400/500/600/700/750/790/910/1000/1800/2450/2700/3000/4000/5000/6000/8000
Calibration Cycle	24 months

T-6G Broadband Probe (Electric Field)

Frequency Range	100kHz to 6000MHz
Measurement Range	0.2V/m to 650V/m (CW), 0.2V/m to 20V/m (RMS)
Frequency Response	±1.5dB (900MHz to 3GHz)
	±2.5dB (< 900MHz, >3GHz)
Probe	Electric field, X/Y/Z 3-axis, omni-directional
Probe Sensor	Diode Dipole
Linearity Error	±0.5dB (@1GHz)
Isotropic	<±1dB (@1GHz)
Calibration Frequency (MHz)	0.1/0.15/0.2/0.3/1/3/10/27/30/50/100/ 200/300/400/500/600/700/750/790/910/1000/1800/2450/2700/3000/4000/5000/6000
Calibration Cycle	24 months

T-400KHz Low Frequency Electromagnetic Field Probe (For EM9D Only)

T-400K Technical Specifications		
	Electric field	Magnetic field
Sensor type	Isotropic patented electrodes	
Frequency range	1Hz to 400kHz	
Field Strength Mode		
Measurement range	1V/m to 100kV/m	50 nT to 20mT (50Hz) 50 nT to 10mT (100Hz to 10kHz)
Graphical display	RMS,Axis Values,AVG,MAX ,MIN,PEAK,RMS time graph	
Peak value	Digital realtime	
Resolution	<1mV/m	<1nT
Noise Level	<1V/m (10Hz to 400kHz)	<50nT (10Hz to 400kHz)

FFT Mode		
Measurement range	10mV/m to 100kV/m	1 nT to 20mT (50Hz) 1 nT to 10mT (100Hz to 10kHz)
Graphical display	Frequency analysis,total field and axis	
SPAN	400Hz, 4kHz, 40kHz, 400kHz	
FFT Point	1024 point FFT	
Noise Level	<10mV/m	<1nT
General		
Isotropy	±0.5dB(±10%)	±0.25dB (±4%)
Damage level	>200kV/m	>1000mT up to 60Hz
Linearity	≤2%	
Weight	About 460 g	
Probe size	325 x 128 mm Φ	