

EM9N/EM9D

Broadband Electromagnetic Field Meter

Key Benefits

- Double efficiency in monitoring EMF than traditional methods
- Built-in GNSS receiver, electronics compass, temperature & humidity
- 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

Signal input port Camera 0.26 Touchscreen **Rear Harness** USB Type-c communication port



Power on/off button

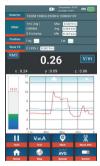
Power Indicator

DC port

Main Features FM9N

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

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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)

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ltem	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	14	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	Measurement Unit	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
Danier Comple	DC 12V/2A adapter	Operating Hours	>10 hours
Power Supply	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)
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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/ 200/3 00/400/500/600/700/750/790/910/1000/1800/ 2450/2700/3000/4000/5000/6000/8000
Calibration Cycle	24 months

T-6G Broadband Probe (Electric Field)

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Frequency Range	100kHz to 6000MHz			
Measurement Range	0.2V/m to 650V/m (CW), 0.2V/m to 20V/m (RMS)			
Fraguenov Dosponso	±1.5dB (900MHz to 3GHz)			
Frequency Response	±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/ 200/3 00/400/500/600/700/750/790/910/1000/1800/ 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 Valu ,MIN,PEAK,RN	ues,AVG,MAX 1S time graph					
Peak value	Digital r	ealtime					
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 12	8 mm Ф					