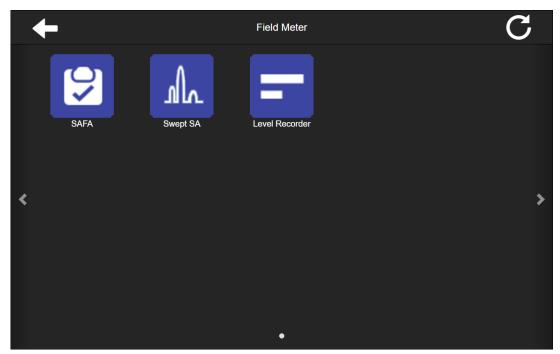
EM860 measurement of high frequent

Selective measurement of high frequency electromagnetic fields



OPERATING MODES

- 1. Safety Evaluation
- 2. Spectrum Analysis
- 3. Level Recorder
- 4. Analysis of electromagnetic field strength
- 5. 5G NR Demodulation
- 6. Powerful background data management system



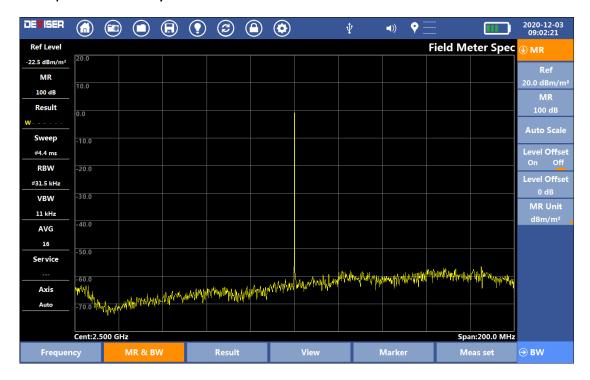
Details

Safety Evaluation



Safety Evaluation	
Result	Shows field meter of each service by histogram
Number of services	1 to 100, the parameters of each service is defined by user
Channel bandwidth of	1 MHz to 6 GHz
one service	
RBW	30 kHz, 100 kHz, 300 kHz, 1 MHz, 3 MHz
Detection	RMS
Axis	X, Y, Z axis for single-axis and Three-Axis

Spectrum Analysis



Spectrum Analysis	
Result	Spectrum Analysis
RBW	1 Hz to 3 MHz
VBW	1 Hz to 3 MHz
Result types	Act : Display instantaneous spectrum
	Max : Maximum hold function
	Avg: Average over a selectable number of a selectable time period
	spectrum
	Max Avg: Maximum hold function after averaging
	Min : Minimum hold function
	Min Avg : Minimum hold function after averaging
Detection	RMS
Axis	X, Y, Z axis for single-axis and Three-Axis

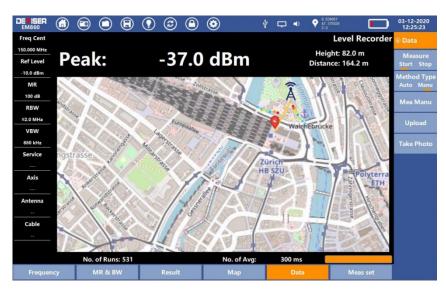
Level Recorder



Level Recorder	
Result	Selective level measurement at a fixed frequency setting
RBW	15 Hz to 2 MHz
VBW	1 Hz to 3 MHz
Result types	Peak ACT: Displays the actual peak value
	Peak MAX : Max hold function for peak value
	RMS ACT: Averaging over a defined time period
	RMS MAX : Max hold function for RMS values
Axis	X, Y, Z axis for single-axis and Three-Axis

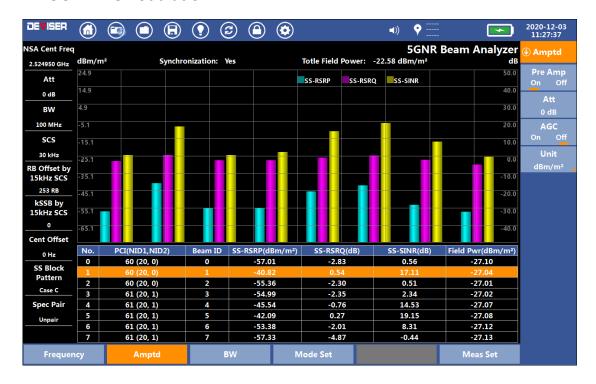
Analysis of electromagnetic field strength





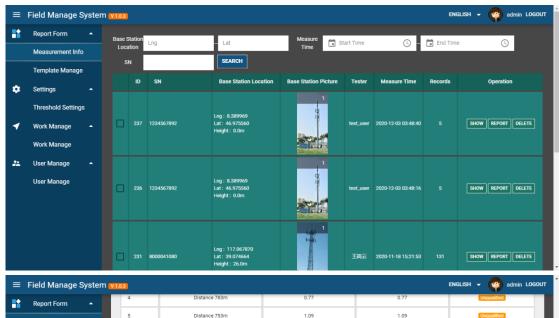
Analysis of electromagnetic field strength	
Result	Real time display of field strength in GIS
Result types	It supports designated frequency point, field strength measurement of specified axis and display on GIS
Multiple source location modes	Support work order positioning, rangefinder positioning, input latitude and longitude positioning
Map type	Online map, offline map, satellite map
Data transmission	Support the upload of measurement data to the background system by 4G, WLAN or LAN.
Task distribution	Support the measurement work orders through the background system.
Axis	X, Y, Z axis for single-axis and Three-Axis

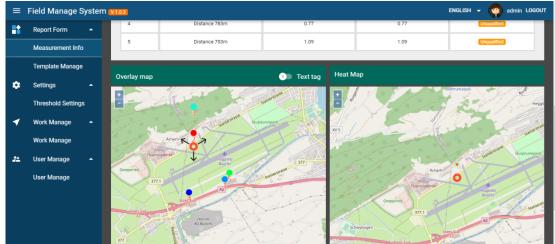
5G NR Demodulation



5G NR Demodulation	
Result	5G NR signal SS-RSRP and field power level of each PCI and Beams
Result types	PCI, Beam ID, SS-RSRP, SS-RSRQ, SS-SINR, Field Power
Channel Bandwidth	5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50
	MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz
Detection	RMS
Axis	X, Y, Z axis for single-axis and Three-Axis

Powerful background data management system





Data management system	
Work order	You can customize the work order, specify the measurement
management	location and surveyor. Simplify the work
User management	Edit different users to work with the work order function
Data management	Query and manage data. You can mark the surrounding buildings
	and places later
Report template	Custom report template can be used to generate and export reports
management	according to their own format when exporting reports.
Report export	Export the specified measurement to doc or CSV format to facilitate
	data management
Support multiple	Support for EM9 and EM860
devices	

SPECIFICATIONS

Basic Unit

Basic Unit	
EM860	
Operating modes	
Measurements vs.	Spectrum Analysis
frequency	Safety Evaluation
Measurements vs. time	Level Recorder
Measurements on	 5G NR Demodulation
mobile networks	
RF Data	
Frequency range	9 kHz to 6 GHz
RBW	See specifications for each mode
Phase Noise	Typical<-105 dBc/Hz@ 100kHz offset from 1GHz
Frequency accuracy	< ±1 ppm
Displayed Average	Amplifier OFF: ≤-135dBm, 10MHz∼3GHz、
Noise Level (DANL)	≤-130dBm, 3GHz∼6GHz、
	≤-125dBm, 6GHz∼9GHz;
	Amplifier ON: ≤-155dBm, 10MHz∼3GHz、
	≤-150dBm, 3GHz∼6GHz、
	≤-145dBm, 6GHz∼9GHz、
Level accuracy	±1.5 dB (+20℃ -+30℃)
RF input	N type/50Ω
Maximum RF power	+25dBm(peak power/entrance attenuation>15dB); ±50VDC
level	

Three-axis antenna (E-field)

Frequency range	420 MHz to 6 GHz
Antenna type	E-field
RF connector	N-Connector, 50 Ω