

Frequency & Code Selective EMF Analyzer EM860

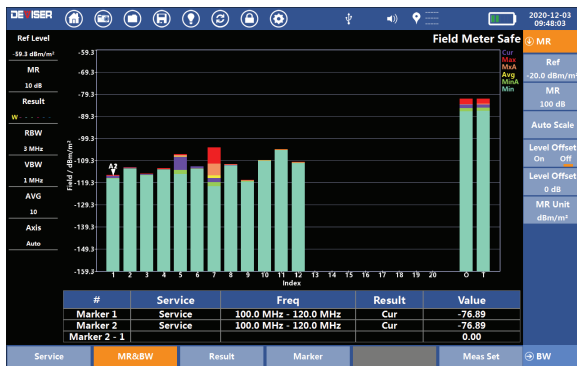


Key Benefits

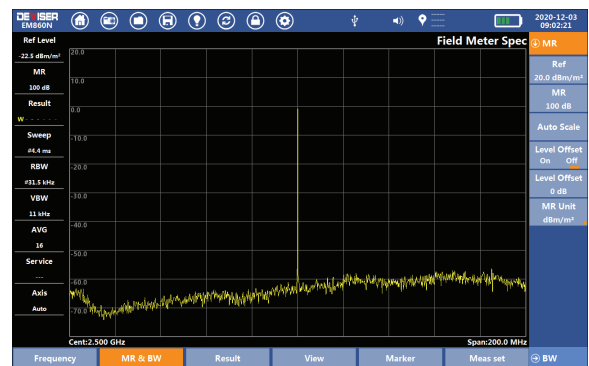
- Safety Evaluation
- Spectrum Analysis
- Level Recorder
- Analysis of electromagnetic field strength
- 5G NR Demodulation
- Powerful background data management system

Details

Safety Evaluation



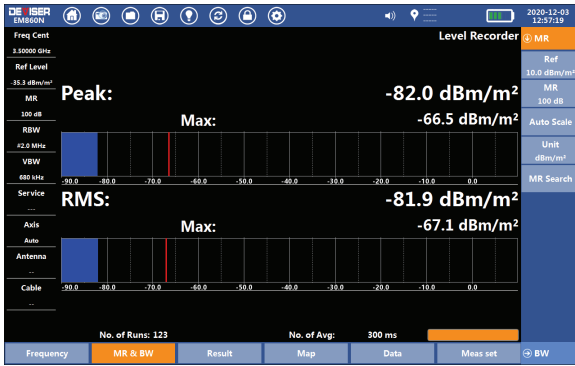
Spectrum Analysis



| 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 one service | 1 MHz to 6 GHz |
| 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 | |
|-------------------|---|
| 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 |

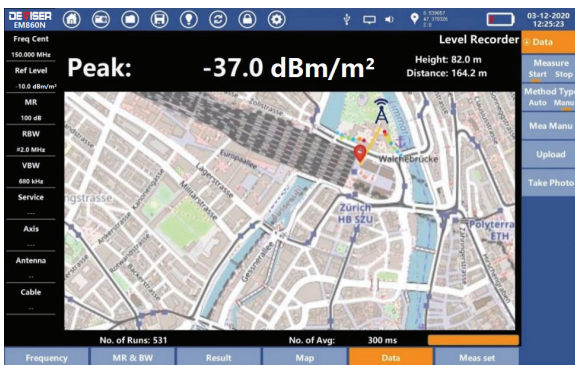
Level Recorder



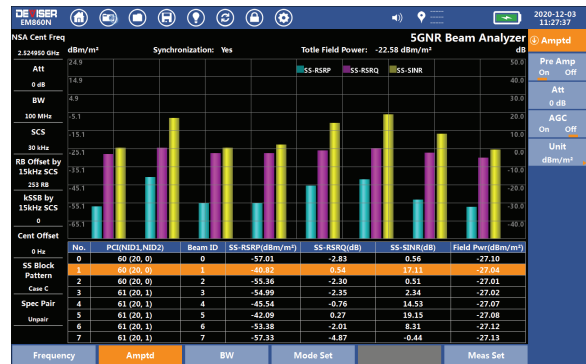
| Level Recorder | |
|----------------|---|
| Result | Selective level measurement at a fixed frequency setting |
| RBW | 15 Hz to 2 MHz |
| VBW | 1 Hz to 3 MHz |
| Result types | Peak ACT: Displays the actual peak value Peak MAX : Max hold function for peak value RMS ACT : Averaging over a defined time 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 | |
|--|---|
| 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 |

Analysis of electromagnetic field strength

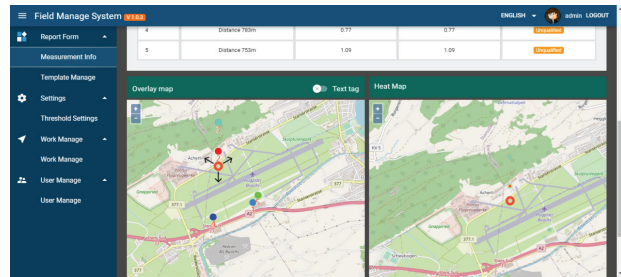
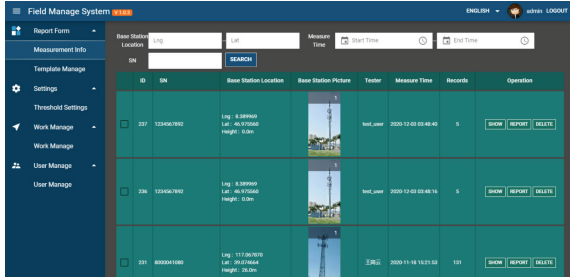


5G NR Demodulation



| 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 management | You can customize the work order, specify the measurement 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 management | Custom report template can be used to generate and export reports 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 devices | Support for EM9 and EM860N |

SPECIFICATIONS

Basic Unit

| EM860 | |
|--------------------------------------|---|
| Operating modes | |
| Measurements vs. frequency | <ul style="list-style-type: none"> • Spectrum Analysis • Safety Evaluation |
| Measurements vs. time | <ul style="list-style-type: none"> • Level Recorder |
| Measurements on mobile networks | <ul style="list-style-type: none"> • 5G NR Demodulation |
| RF Data | |
| Frequency range | 100 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 Noise Level (DANL) | Amplifier OFF: ≤-135dBm, 10MHz~3GHz- ≤-130dBm, 3GHz~6GHz- ≤-125dBm, 6GHz~9GHz- Amplifier ON: ≤-155dBm, 10MHz~3GHz- ≤-150dBm, 3GHz~6GHz- ≤-145dBm, 6GHz~9GHz- |
| Level accuracy | ±1.5 dB (+20°C - +30°C) |
| RF input | N type/50Ω |
| Maximum RF power level | +25dBm (peak power/entrance attenuation>15dB) ; ±50VDC |

Three-axis antenna (E-field)

| | |
|-----------------|------------------------|
| Frequency range | TS-6G(200MHz to 6 GHz) |
| Antenna type | E-field |
| RF connector | N-Connector, 50Ω |

Three-axis antenna (H-field)

| | |
|-----------------|-------------------------|
| Frequency range | TS-250M(100kHz to 250M) |
| Antenna type | H-field |
| RF connector | N-Connector, 50Ω |