

## EPS-6000

- Measurable up to 8GHz in the frequency range
- 4 axes (X, Y, Z,  $\theta$ ) measurements with minute step minimum 0.1m realized
- Equivalent distance measurement to parts on PCBs even the heights are different
- Composite figure of photo of the measured PCB and the measurement data realized
- Rich magnetic field probes in the figures, sizes and Vertical/Horizontal directions
- Versatile display for the measurement data as 2 dimensions, 3 dimension, and equiangular line realized
- Comparison display with the previous measured data available
- Many brands spectrum analyzers correspondent
- Suitable for CISPR 22 (Oct. 2010) regulation



### Specification

|                                 | EPS-6000 3G   | EPS-6000 6G   |
|---------------------------------|---|---|
| Measurement Method              | Scanning with near field magnetic probe (height measurement laser attached) |   |
| Measurement Area                | (W)300 × (D)270 × (H)100mm $\phi$ 0.45,90,135°                              |   |
| Min. Step                       | 0.1mm   |   |
| Position accuracy (X,Y,Z)       | ±0.01mm (in one direction movement)   |   |
| Position accuracy ( $\theta$ )  | ±1.0°   |   |
| Measurement Frequency Range *   | 150kHz ~ 3GHz   | 100MHz~6GHz (~8GHz as Option)   |
| Measurement Probe               | 01-NVF020:Elliptic probe for detection in horizontal magnetic field 1mm     | 01-NVF010:Elliptic probe for detection in horizontal magnetic field 1mm |
| Dimension                       | (W)490 × (D)670 × (H)610mm  |   |
| Mass                            | 39 Kg. (Only main unit. Spectrum analyzer and PC excluded)                  |   |
| Power Supply                    | AC 100V~240V  |   |
| Power Consumption               | 300W (Max.) (For spectrum analyzer excluded)                                |   |
| Operating Temperature           | 0°C~40°C(without dew)   |   |
| Camera                          | 4 million pixel (High-definition camera)                                    |   |
| Correspondent Spectrum Analyzer | See the following table ("Correspondent spectrum analyzer")                 |   |

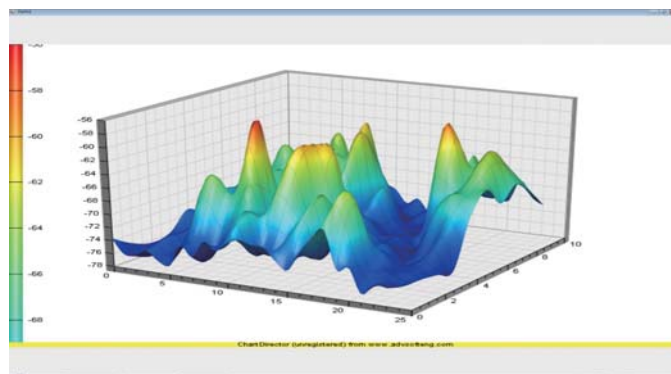
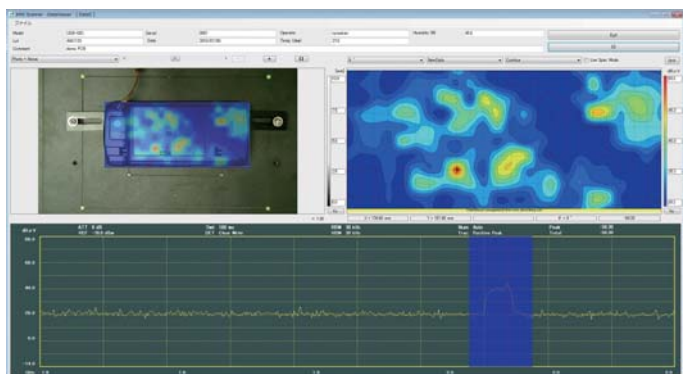
\* Measurement frequency ranges depend on the measurement probes

### Correspondent Spectrum Analyzer

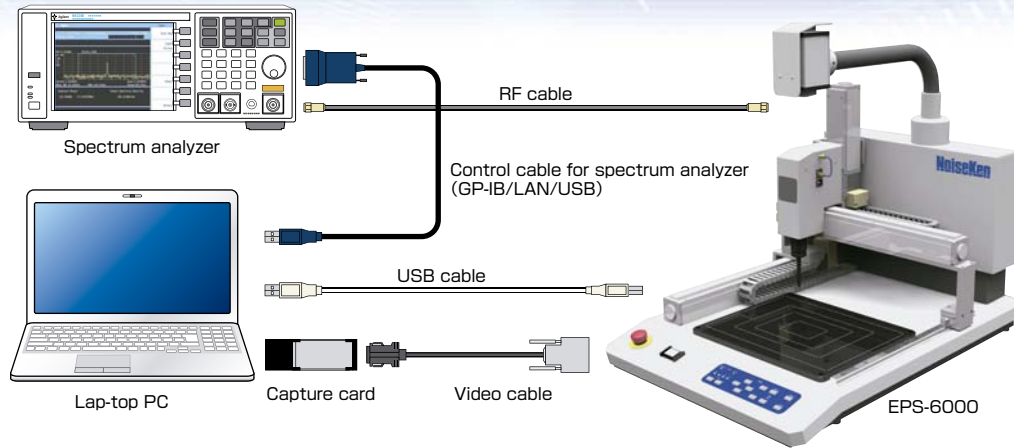
| Manufacturer         | Model NO.  |
|----------------------|--|
| ROHDE&SCHWARZ        | FSC, FSL, FSP, FSV, FSG, FSQ   |
| ANRITSU              | MS2661C, MS2665A, MS2667C, MS2668C, MS2681A, MS2683A, MS2687B,                           |
| Agilent Technologies | ESA Series(E44xx), PSA Series(E444x), CXA(N9000A), EXA(N9010A), MXA(N9020A), PXA(N9030A) |
| ADVANTEST            | U3700Series  |

\* Please contact us about the other spectrum analyzers.

### Measured figures on display (Image)



## System configuration



## Main unit structure

|           |   |       |
|-----------|---|-------|
| Main unit | EPS-6000 main unit  | Q'ty  |
|           | Capture card (Express Card)   | 1 pc. |
|           | Probe for measurement   | 1 pc. |
|           | Probe for robotic calibration   | 1 pc. |
|           | RF cable(SMA-N 2m)  | 1 pc. |
|           | USB cable (Type A-B, 1.8m) PC - Main unit   | 1 pc. |
|           | Control cable for spectrum analyzer(GP-IB/LAN/USB) PC - Spectrum analyzer                       | 1 pc. |
|           | Video cable PC - Main unit  | 1 pc. |
|           | AC cable  | 1 pc. |
| Software  | Specialized application (data print-out, browsing function and plural PC installation possible) | 1 set |
|           | Core library DotNET Frameworks3.5   |       |
|           | Measurement driver NI VISA2.5 onward or Agilent IO Libraries Suite 15.5 onward                  |       |
|           | Driver kinds NI-DAQ, Robot driver, Camera driver, DirectX                                       |       |

## Optional probes

| Model NO.                | Designation   | Measurement frequency | Coil direction | Sensitivity *1 | Resolution *2 | MSL Gap width *3 | Note              |
|--------------------------|---|-----------------------|----------------|----------------|---------------|------------------|-------------------|
| <b>■ For EPS-6000 3G</b> |   |                       |                |                |               |                  |                   |
| 01-NHC010                | Circular probe for detection in vertical magnetic field 1mm     | 150kHz~3GHz           | Horizontal     | -48dB          | 0.35mm        | 0.1mm            |                   |
| 01-NHC020                | Circular probe for detection in vertical magnetic field 2mm     | 150kHz~2GHz           | Horizontal     | -40dB          | 0.55mm        | 0.2mm            |                   |
| 01-NHC050                | Circular probe for detection in vertical magnetic field 5mm     | 150kHz~1GHz           | Horizontal     | -30dB          | 1.22mm        | 0.5mm            |                   |
| 01-NVC010                | Circular probe for detection in horizontal magnetic field 1mm   | 150kHz~3GHz           | Vertical       | -46dB          | 0.39mm        | 0.1mm            |                   |
| 01-NVC020                | Circular probe for detection in horizontal magnetic field 2mm   | 150kHz~2GHz           | Vertical       | -37dB          | 0.60mm        | 0.2mm            |                   |
| 01-NVC050                | Circular probe for detection in horizontal magnetic field 5mm   | 150kHz~1GHz           | Vertical       | -30dB          | 1.20mm        | 0.5mm            |                   |
| 01-NVFO20                | Elliptic probe for detection in horizontal magnetic field 2mm   | 150kHz~3GHz           | Vertical       | -45dB          | 0.29mm        | 0.2mm            | Standard equipped |
| 01-NVFO50                | Elliptic probe for detection in horizontal magnetic field 5mm   | 150kHz~3GHz           | Vertical       | -37dB          | 0.66mm        | 0.5mm            |                   |
| 01-NVF100                | Elliptic probe for detection in horizontal magnetic field 10mm  | 150kHz~2GHz           | Vertical       | -34dB          | 1.26mm        | 1.0mm            |                   |
| <b>■ For EPS-6000 6G</b> |   |                       |                |                |               |                  |                   |
| 01-NVFO05                | Elliptic probe for detection in horizontal magnetic field 0.5mm | 100MHz~8GHz           | Vertical       | -56dB          | 0.10mm        | 0.05mm           |                   |
| 01-NVFO10                | Elliptic probe for detection in horizontal magnetic field 1mm   | 100MHz~6GHz           | Vertical       | -47dB          | 0.17mm        | 0.1mm            | Standard equipped |

\*1 Typical attenuation value between MSL (Micro strip line) and the probe at 1GHz.

\*2 Typical value between max. value and (Max.value - 6dB) (Half-width).

\*3 Width between micro strip line and the probe