

# SWING ARM SCANNER



## PRESENTATION

The swing arm scanner allows simple and fast mapping of electromagnetic radiation. Different frequency ranges are possible upon the selected antenna card. Near field measurement of the characterization of electromagnetic pollution generated by electronic components arranged on a printed circuit activity fields is important in electromagnetic compatibility measurements. A widely used principle consists in a measuring table on which the electronic board is in operation. A controlled movement of two or three axis sensor is moved in a point to point parallel above the table in a predetermined plane mesh. Each measurement point in the mesh is stored. Then, a mapping field is built and the effective provision of the card under test is indicated on the field map obtained. This measurement requires certain precautions and a post-processing. The swing arm scanner overcomes some of these limitations by providing quick, high resolution direct measurements. The scanner is made from composite materials so as to remain neutral for EMC.

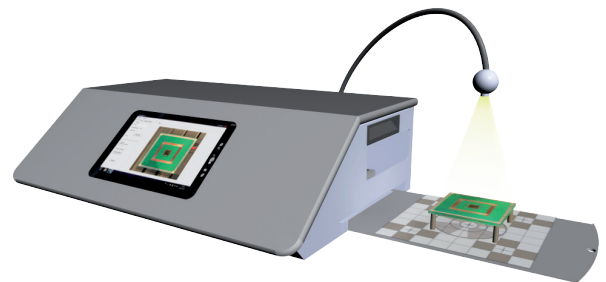
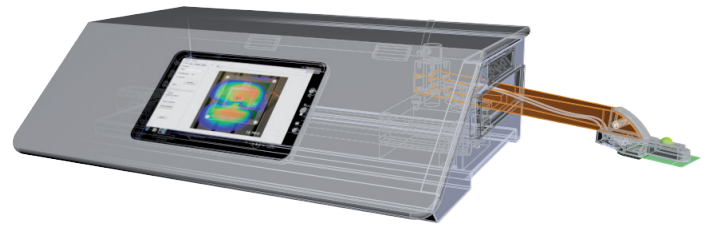
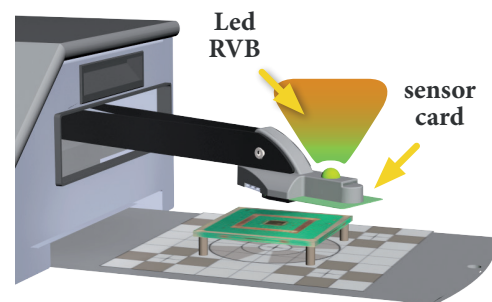


Photo of the object under test

## APPLICATIONS

- Radiation measurements of an electronic card
- Comparison between different radiating systems
- Location of sources
- Magnet mapping (hall effect sensor)
- Transformer mapping (BF sensor)...



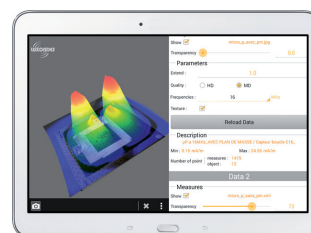
Sensor:  
Removable antenna board

## ADVANTAGES

- Visualization of the electromagnetic field in real time (analog conversion)
- Full scale digital conversion between thresholds
- Removable antenna cards compatible with the LUXONDES product range.
- Easy to use / intuitive controls
- Automatic recognition of antenna cards and taking into account the antenna factor
- Direct analysis of the results with the Android viewer

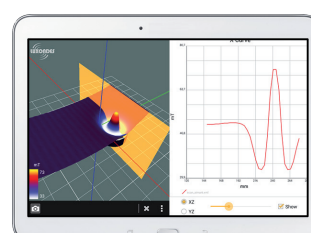
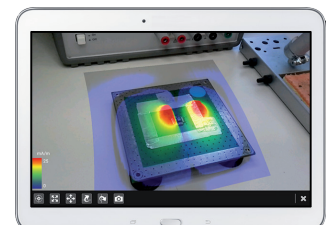
## FEATURES

- Size : (H) 200 x (L) 700 x (P) 420
- Duration for a scan A4 : 30 Sec
- Number of point Max X : 4000 Y : 1000/mm
- weight : 20 Kg
- Power : 230 VAC 50 Hz



CI Mapping at 16MHz with and without ground plane.

Visualization of results in augmented reality



Cartography of a magnet with a hall sensor.