EddyCus® TF map 2525SR – Sheet Resistance Imaging Device

P_T_2525SR_20

Highlights

- Contact-free imaging
- High resolution imaging (25 to 1,000,000 points)
- Defect imaging
- Mapping of encapsulated layers

Device Series

- Metal thickness (nm, µm)
- Sheet resistance (Ohm/sq)
- Emissivity
- Conductivity / resistivity (mOhm·cm)
- Electrical anisotropy (%)
- Weight (g/m²) and drying status (%)
- Permeability (H/m) *Beta*

Applications

- Architectural glass (LowE)
- Touch screens and flat monitors
- OLED and LED applications
- Smart-glass applications
- Transparent antistatic foils
- Photovoltaics
- Semiconductors
- De-icing and heating applications
- Batteries and fuel cells
- Packaging materials

Materials

- Metal films and meshes
- Conductive oxides
- Nanowire films
- Graphene, CNT, Graphite
- Printed films
- Conductive polymers (PEDOT:PSS)
- Other conductive films and materials

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Made and Engineered in Germany

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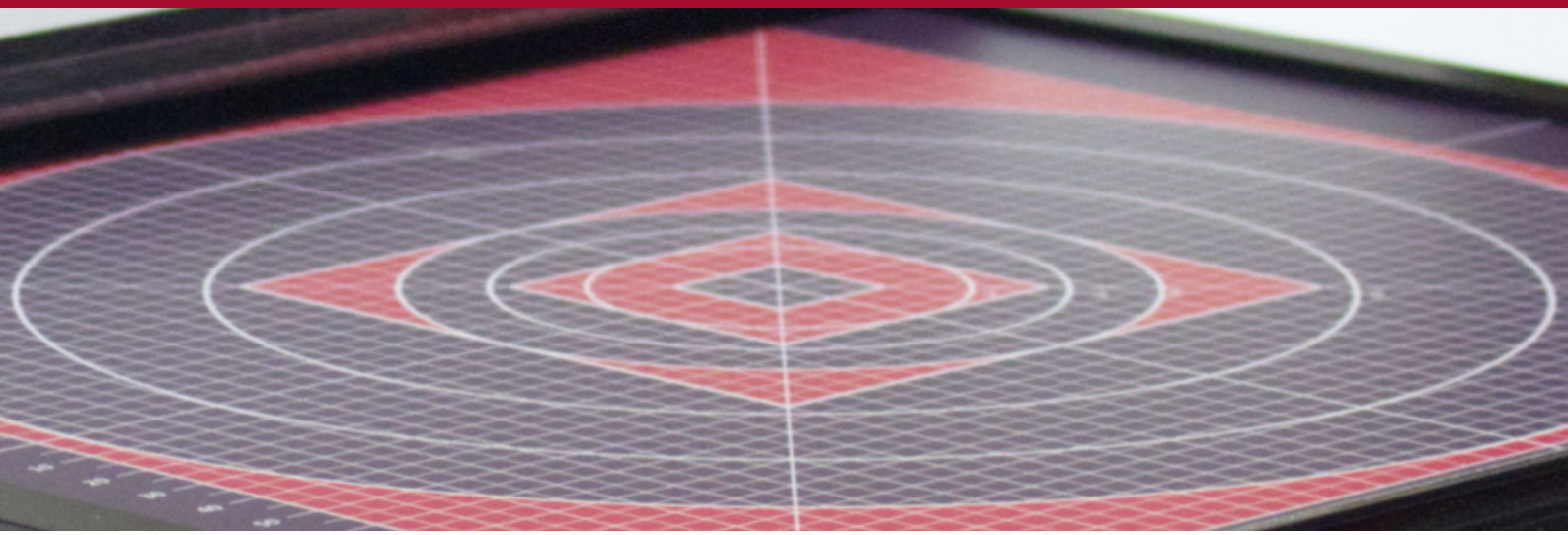
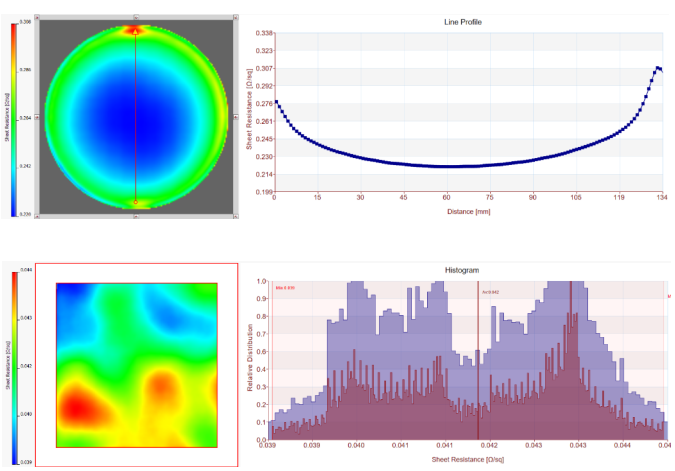


Measurement technology	Non-contact eddy current sensor
Substrates	E.g. Foils, glass, wafer, etc.
Max. scanning area	10 inch / 254 mm x 254 mm (larger on request)
Edge effect correction / exclusion	2 – 10 mm (depending on size, range, setup and requirements)
Max. sample thickness / sensor gap	2 / 5 / 10 / 15 mm (defined by the thickest sample)
Sheet resistance range accuracy can be optimized within a customer specified range	0.0001 – 10 Ohm/sq; 2 to 7 % accuracy 0.01 – 10 Ohm/sq; 2 to 5 % accuracy 10 – 100 Ohm/sq; 3 to 5 % accuracy
Thickness measurement of metal films (e.g. aluminum, copper)	2 nm – 2 mm (in accordance with sheet resistance)
Scanning pitch	1 / 2 / 5 / 10 mm (other on request)
Measurement points per time (square shaped samples)	100 measurement points in 0.5 minutes 10,000 measurement points in 5 minutes
Scanning time	4 inch / 100 mm x 100 mm in 0.5 to 5 minutes (1 – 10mm pitch) 8 inch / 200 mm x 200 mm in 1.5 to 15 minutes (1 – 10mm pitch)
Device dimensions (w/h /d) / weight	23.6“ x 9.05“ x 31.5“ / 549 mm x 236 mm x 786(836) mm / 27 kg
Further available features	Metal thickness imaging, anisotropy sheet resistance sensor

Device Control and Software

- Pre-defined measurement and product recipes (sizes, pitches, thresholds)
- Line scan, histogram and area analysis
- Black and colored image coding
- Csv & pdf export,
- SPC summary and export
- 3 user levels
- Material database for parameter conversion
- Edge effect compensation
- Storage and import of data
- Export of data sets (eg. to EddyEva, MS Excel, Origin)