

EddyCus[®] TF map 5050SR – Sheet Resistance Imaging Device

P_T_5050SR_20



Highlights

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

Parameters

- ▶ Sheet resistance (Ohm/sq)
- ▶ Metal layer thickness (nm, μm)
- ▶ Metal substrate thickness (μm)
- ▶ Anisotropy
- ▶ Defects
- ▶ Integrity assessment

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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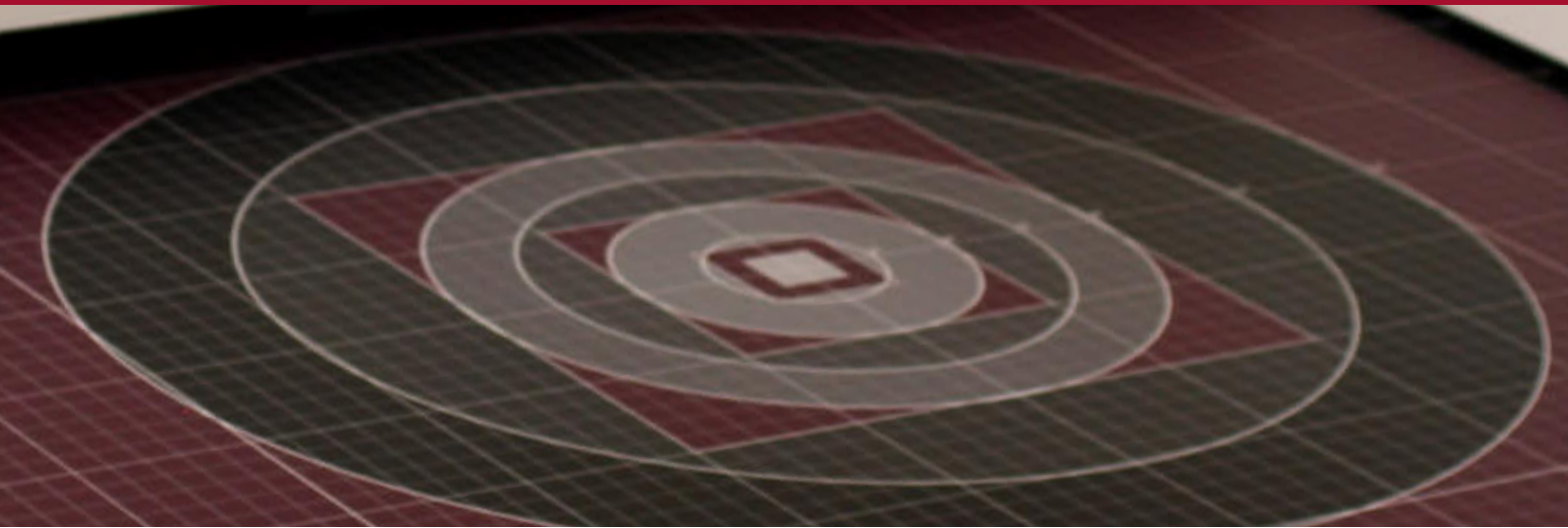
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Made and Engineered in Germany 





Measurement technology	Non-contact eddy current sensor
Substrates	2 / 4 / 6 / 8 / 12 inch wafer
Max. scanning area	20 inch / 508 mm x 508 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 / 25 mm (defined by the thickest sample)
Sheet resistance range	Low 0.0001 – 1 Ohm / sq; 2 to 5 % accuracy
accuracy can be optimized over sheet resistance decade within a customer specified range	Standard 0.01 – 100 Ohm / sq; 2 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	10,000 measurement points in 5 minutes 1,000,000 measurement points in 30 minutes
Scanning time	8 inch / 200 mm x 200 mm in 0.5 to 5 minutes (1 – 10mm pitch) 12 inch / 300 mm x 300 mm in 1.5 to 15 minutes (1 – 10mm pitch)
Device dimensions (w/h/d) / weight	46.5" x 11.4" x 35.4" / 1,180 mm x 290 mm x 900 mm / 120 kg
Further available features	Metal thickness imaging, anisotropy sheet resistance sensor, optical transparency

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)

