

### Data Sheet- EddyCus® TF map 5050 Series

P\_T\_5050\_12



# Highlights

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

### 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

#### Parameters

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

Materials

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

SURAGUS GmbH Maria-Reiche-Straße 1 01109 Dresden Germany

+49 351 32 111 520 info@suragus.com

www.suragus.com www.sheet-resistance-testing.com www.suragus.com/FAQ www.suragus.com/EddyCusMap5050

Made and Engineered in Germany

Innovation Award by Free State of Saxony 2013 1st Place



# EddyCus<sup>®</sup> TF map 5050 Series



Measurement technology	Non-contact eddy current sensor
Substrates	2, 4, 6, 8, 12 inch wafer
Max. Scanning area	20 inch / 508 x 508 mm (larger on request)
Edge effect correction / exclusion	2 - 5 mm edge exclusion for standard sizes
Max. Sample thickness / sensor gap	2 / 5 / 10 / 25 mm (defined by the thickest sample)
Sheet resistance range accuracy can be optimized over sheet resistance decade within a customer specified range	Low0.0001 - 10 Ohm / sq; 2 to 7 % accuracyStandard0.01 - 1,000 Ohm / sq; 2 to 7 % accuracyHigh10 - 10,000 Ohm / sq; 3 to 7 % 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 x 200 mm in 0.5 to 5 minutes (1-10mm pitch) 12 inch / 300 x 300 mm in 1.5 to 15 minutes (1-10mm pitch)
Device dimension (w/h/d) / weight	46.5 x 11.4 x 35.4 inch / 1,180 x 290 x 900 mm / 120 kg
Available features	Metal thickness imaging Anisotropy sheet resistance sensor Optical transparency

#### Software and Handling - Sheet Resistance Analayzer 2.0

