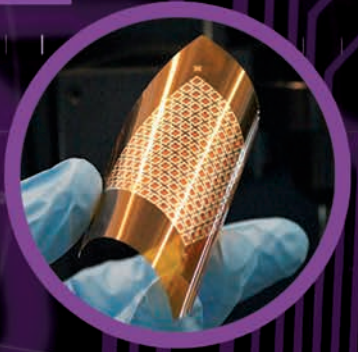


# Z E R



→ CHARACTERISATION PLATFORM

## defect

ON-LINE AUTOMATIC SURFACE  
INSPECTION & MEASUREMENTS



# HIGH-RESOLUTION INSPECTION AND CHARACTERISATION PLATFORM

Lineavision® platform, based on high-resolution image analysis, enables non-contact inspection and measurements on printed electronics surfaces.

Using advanced characterisation capability, the platform analyzes single and multilayer structures for defining and assessing quality, and various manufacturing process steps.

## BENEFITS

### MODULAR HIGH-RESOLUTION SOLUTION

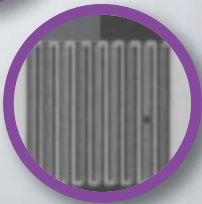
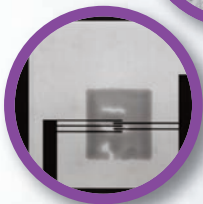
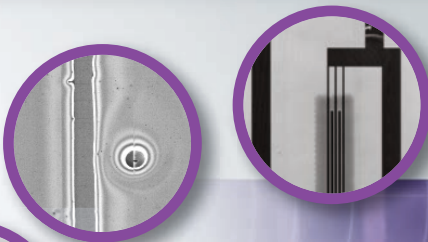
- Inspection of either rigid, semi-rigid and flexible substrates,
- Integration on production processes,
- Clean room environment suitable.

### CHARACTERISATION OF COMPLEX PRODUCTS

- Two-dimensional control of printed geometries,
- Optical metrology for single and multi-layer product,
- Measurements and analysis down to micrometer scale,
- Superior classification accuracy.

### PRODUCTION YIELD OPTIMIZATION

- Control process deviations,
- Correlate visual detection results with electrical failures,
- Major waste reduction and quality compliance.

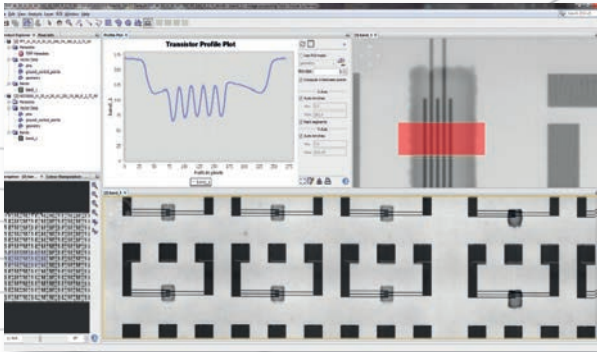


From opaque to transparent, rigid or flexible substrate

For various process steps: coating, printing, laminating, encapsulating, scribing, patterning, embossing, drying or annealing...

# VERSATILE SOFTWARE APPLICATION

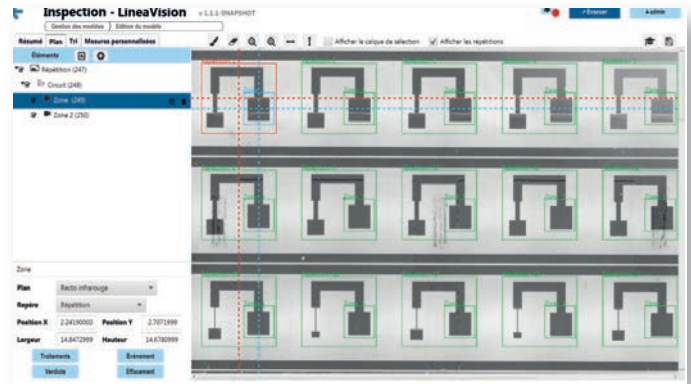
## CHARACTERISATION



- Product/process development
- Selective analysis using interactive tool:
  - Plot profiles,
  - Histograms,
  - Statistical computing,
  - Overlap layers management,
  - Dimensional measurements (area distances, position, stretching, ...)

## AUTOMATIC CONTROL

- Pattern definition
  - External files
  - Self-learning
- Traceability per sheet / module / circuit / layer



## CHARACTERISATION OF ALL PROCESS STEPS

**Dimensional measurements**  
position control of layers and elements, Stacking/ alignment

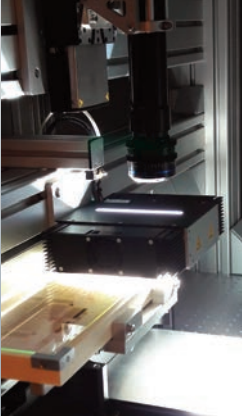
**Quality assessment**  
Foreign particles inclusion, Scratches, Structuring and laser scribing defects, Pattern and print quality

**Correlation on other electrical failures and visual defects**

**OLEDs**  
Lighting  
Flexible displays  
OPV (Flexible Solar panels)

**ELECTRICAL COMPONENTS**  
Flexible batteries, Printed circuits, RFID antennas/ label, sensors, Transistors

**SMART SYSTEMS**  
Smart cards  
Complex systems



## OUR RANGE OF SERVICES

### SYSTEM SPECIFICATION

- Definition and evaluation of project
- Feasibility study
- Customization
- Flexibility/adaptation to future needs

### GOLD SUPPORT

- Telephone hotline
- Dedicated engineers
- Remote access
- Quick response time

### COMMISSIONING

- Installation
- Training
- Start-up

### SERVICES

- Onsite repairs
- Spare parts
- Preventive maintenance

ON-LINE AUTOMATIC SURFACE  
INSPECTION & MEASUREMENTS



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