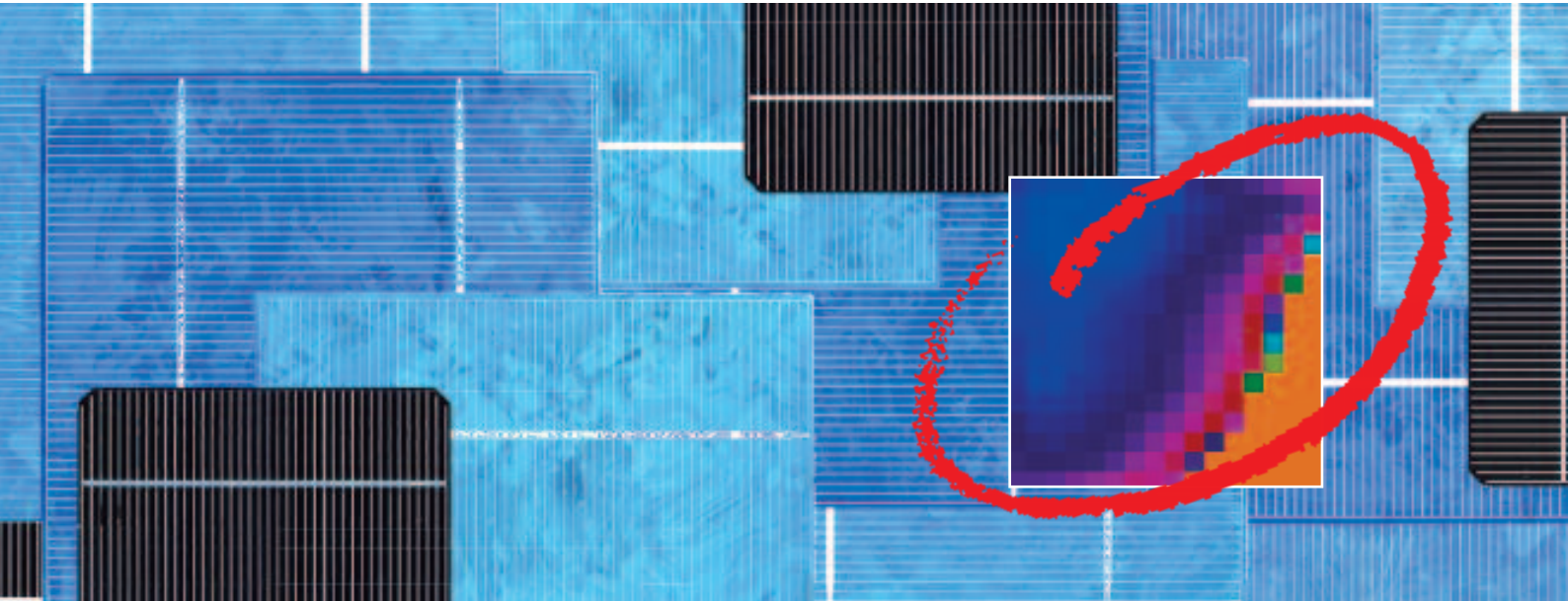


## Product Info

### **SOLARSCAN-AR Coating – Make it work, make 'em match!** **Save costs with in-line control of Anti-Reflective Coating**



#### **100% in-line Inspection for:**

- **High quality of AR coatings**
- **Best cell efficiency**

Error-free AR coating contributes substantially to the efficiency of solar cells and essentially provides the aesthetic appearance of the cells. An automatic inspection system integrated into the production line not only supports quality enhancement, but also makes an important contribution to the coating process optimization.

**SOLARSCAN-AR Coating** is a standard inspection system that can be easily integrated into any production system. It assesses the quality of the AR coating with regard to thickness and homogeneity of color. Additionally; measurement and control for deviations in geometry as well as checks for damages and particle accumulation are performed. Defective material can be sorted out.

Available at various stages, the system contributes to quality improvement and process optimization.

#### **Applications:**

- Automatic optical in-line inspection of cells:
  - Defect-free anti-reflective coating
  - Highly precise thickness measurement
  - Consistent color impression, coloring
  - Surface defects

#### **Advantages:**

- Reduction of production costs
- Performance increase and process optimization
- Robust, reliable defect detection
- Early identification of serial defects and process deviations
- Modular concept
- Combinable with SOLARSCAN-FrontPrint



## Superior detection, classification and analysis

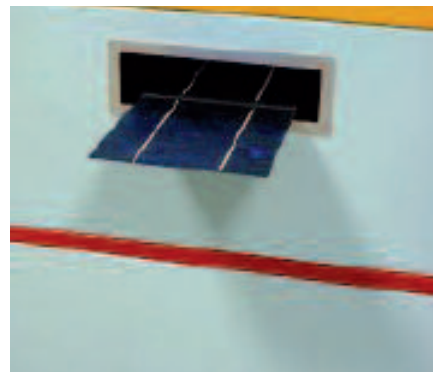
All SOLARSCAN systems offer precision control of specific processes: Flexible configuration, easy to operate. Just a simple set-up is needed to deliver reliable classification in real-time – fast and extremely efficient. Central storage of all inspection results offers a sustainable basis for process improvements. Increased transparency and process knowledge enable shorter ramp-ups and higher productivity. Advanced technology for silicon solar quality improvement. Just discover the details – favourably in reality.

## General features

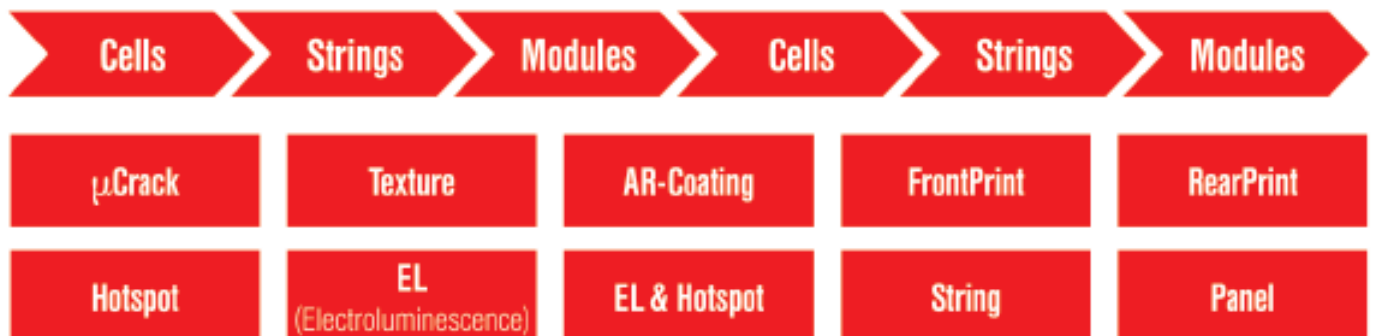
- Advanced, intelligent and configurable classification
- Calibrated inspection equipment
- Central management server for recipes and results
- Flexible statistical tools for analysis and reporting
- Integrated self diagnostics
- Remote maintenance

## Inspection features

- AR-Coating: Thickness, homogeneity of color impression
- Damages: Contour defects, visible cracks, gaps, holes
- Particles: Wafer fragments, paper residue, dirt



## SOLARSCAN: „Best Practice“ product line for the complete process chain



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