

Product Info

SOLARSCAN-EL: See hidden defects

Automatic inspection of solar cell electroluminescence



For correct function – optical inspection for optimal electroluminescence

Efficiency and effectiveness in energy production is an essential criterion in the quality and the operation of solar cells and modules. Aside from thermal imaging, electrical stimulation and its visual control in a for humans non-visible spectral range – “electroluminescence” - provides a further possibility to detect hidden defects.

SOLARSCAN-EL can be applied here. The system, which can be integrated into any manufacturing plant, is optimized for application in cell production. This system will, above all, detect those defects that are not visible to the human eye. These include for example: microscopic cracks, fractures, inhomogeneities, inactive areas, as well as contact finger discontinuity. **SOLARSCAN-EL** thus contributes to higher efficiency, better product quality and optimized production.

Applications:

- Automatic optical in-line inspection of cells and modules for error-free electroluminescence
- Sorting, final control

Advantages:

- Reduction of production costs
- Improvement in product quality
- Early identification of serial defects and process deviations
- Robust, reliable detection of all relevant defects
- Process performance improvement and process optimization
- Modular structure



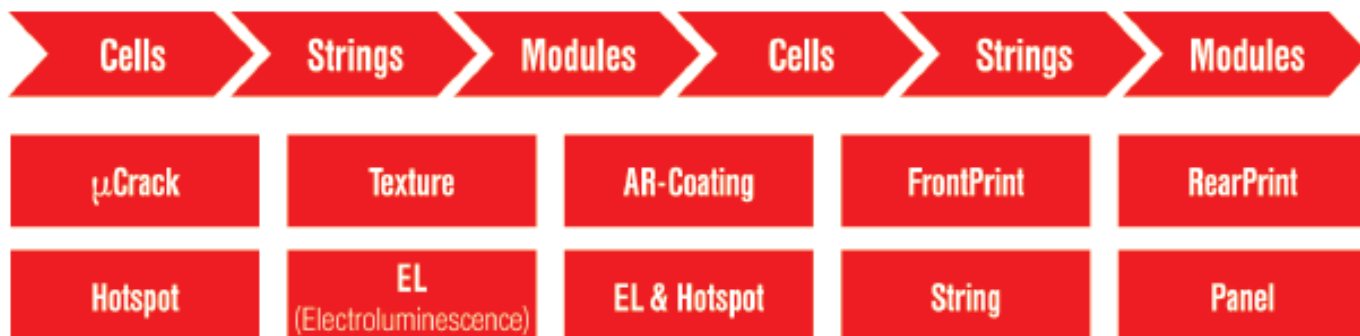
Superior detection, classification and analysis

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

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



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