SolarString EL-lab | EL-inline

Electroluminescence String Inspection

- Fast image aquisition
- Reliable inspection
- Compact design
- Made in Germany

High speed string inspection systems for electroluminescence imaging

The SolarString family provides electroluminescence inspection systems for stand-alone use or as fully integrated high speed inline system integarted in the layup process. The unique multi-camera approach reduces the inspection time in inline systems to less than 5 sec, which is very important for fully automated layup systems.

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Field of Application

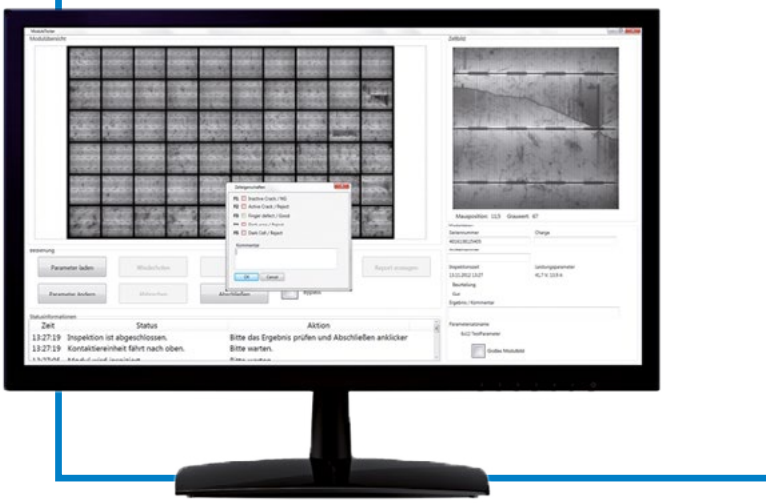
The SolarString EL-lab is a high-resolution stand-alone electroluminescence imaging system. It is the perfect tool for smaller production environments to assure the quality of the solar strings before lamination or after being repaired.

SolarString EL-inline

The SolarString EL-inline is a high speed and high resolution inline electroluminescence inspection system. Placed next to the stringer the strings will be presented to system by the handling robot before placing them on the module glass. The multiple camera approach allows cycle times below 5 seconds.

An innovative automatic image processing software based on a neural networks and Deep Learning leads to reliable inspection results even on multicrystalline cells.

2D-measurement and edge inspection are available as options. The integration into the layup system ensures a direct feedback to the stringing process.



SolarString	EL-lab	EL-inline
Resolution	220 µm	220 µm
Camera type	1 Cooled 4 Megapixel NIR CMOS camera	Cooled 4 Megapixel NIR CMOS camera
Max. string size	1400 mm for M6, M10 and G12	1400 mm for M6, M10 and G12
Image aquisition time	< 1 sec	< 1 sec
Dimensions (W x Lx H)	600 x 1520 x 1200 mm	600 x 1520 x 1200 mm
Available options	n/a	2D measurement for layup control/ edge inspection

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