

SolarModule EL-quickline 3.0

Electroluminescence Module Inspection

Innovative inspection solutions
for the photovoltaic industry



Inline high speed inspection system
for electroluminescence imaging

- ⇒ Fast image acquisition
- ⇒ High resolution
- ⇒ Easy to use
- ⇒ Made in Germany

The SolarModule EL-quickline is the fastest high-resolution electroluminescence test system in our product range. The system can easily be adapted to given requirements in speed and resolution. With the center module support it is also suitable for modules before lamination.

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Field of Application

The SolarModule EL-quickline 3.0 can be equipped with 2, 3 or 6 fast CMOS cameras depending on the requirements for speed and resolution. The high resolution variants with 3 and 6 cameras reach an excellent 180 $\mu\text{m}/\text{pixel}$. In this configuration fully automatic image evaluation is a standard feature. The system with 6 cameras is also our fastest system at a cycle time of 20 sec including the automatic image analysis.

This is the perfect tool for solar manufacturers producing one module type without frequent product change over. The system visualizes the typical production problems like inactive areas and micro cracks. The system can inspect pre-lamination, unframed and framed modules.

The integrated belt conveyer allows an easy integration into fully automatic lines. All systems are available as long edge and short edge leading version.



The user friendly graphical user interface

Model	SolarModule EL-quickline 3.0
Resolution	280 μm (25 MPixel) / 180 μm (60 MPixel)
Camera type	cooled CMOS cameras mounted on linear axis
Module types	non-laminated, unframed and framed crystalline modules
Max. module sizes	1050 x 2050 mm / 1350 x 2050 mm
Image aquisition time	from 9 to 18 sec
Available Options	Cell distance measurement, Diode test, Repair workstation, Multiple contact units