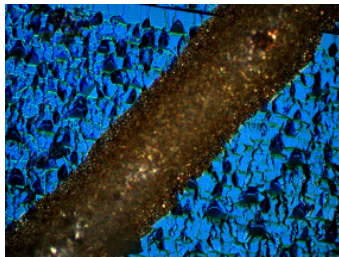


Our SectorInspector for inspection of large scale samples we introduced in our last newsletter.

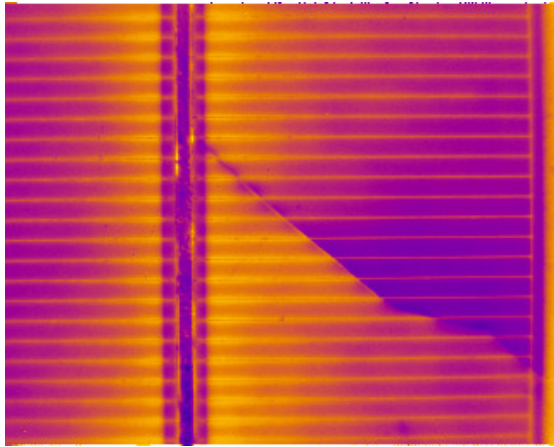


SectorInspector for microscopic inspection



Microscopic exposure of a laser rill on a polycrystalline solar cell

But now we expanded its high resolution inspection to near infrared (900-1700 nm) for the use with photovoltaic modules, allowing a fast macroscopic prescreening in conjunction with electroluminescence to address interesting areas microscopic afterwards.



Macroscopic NIR exposure

The aim is to deliver a consistent quality control in the manufacturing process of photovoltaic modules. Next to the large area microscopic measurement and analysis of thin film modules this allows now even the inspection of material defects, so called "micro cracks".

Using a motorized InGaAS camera unit and electroluminescence to activate the solar module, faulty cells can be identified without moving the solar module.

Opto and its partners working right now on a solution to generate and analyzes high resolution NIR pictures in milliseconds, to be able to integrate such a system into production processes.

If you are interested in this topic get in contact with us. Call +49 89 89 80 55 0 or write to [info@opto.de](mailto:info@opto.de)