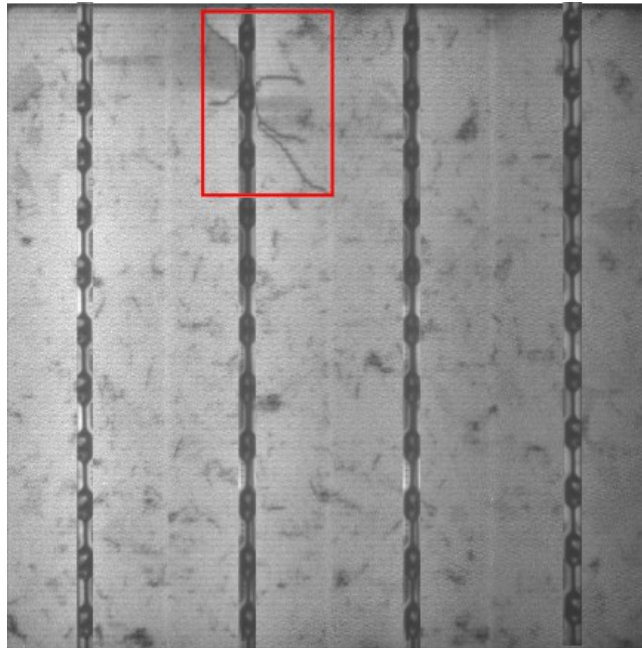


Press release: Berlin, 19. May 2016.

pi4 'Cell EL inline inspection systems' – new product conquers Asia

pi4 achieves a further milestone in the solar inspection area ! Leading Chinese producers in the solar industry work with high-speed systems from this Berlin company.



Strain crack in a 4-busbar cell, detected by pi4 cell EL software

Production capacities for high performance crystalline solar cells continue to be particularly strongly expanded in Asia. This expansion has enabled China to climb up to become the worldwide leading photovoltaic producing country within an extremely short period. Quality assurance plays an essential role in solar cell production. For this area, the Berlin company pi4_robotics GmbH offers tailor-made solutions for fully-automatic electro-luminescence (EL) inspection of solar cells:

“We observe very high demand for EL inspection. Our customers seek reliable end control of solar cells – and we can offer it”, states Thomas Manke, Manager of the pi4 solar area.

As the company is a leader in this type of technology, it meanwhile sells latest generation high-speed systems to the main photovoltaic system producers in China and other countries in the Asian region.

EL inspection can be used to complement the standard power (I-V curve) test.

“This is the way solar system producers obtain good process control in real time”, Manke explains. The software enables cell faults to be precisely classified: after it has evaluated the cells, the EL system sends required information to a cell sorter. This then sorts the cells according to their classification. Quality of the solar cells can be determined much more precisely in this way than in the conventional way without EL inspection.

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Press release: Berlin, 19. May 2016.

Press release as PDF:

http://www.pi4.de/fileadmin/material/PM_News/pi4_Cell_EL_System__en.pdf

pi4 EL efficiency systems – product overview module inspection

http://www.pi4.de/press/Solar//EL_Module_Inspection_Systems_Data_Sheet_V8_03.pdf

Trade fairs:

24 - 26 May, 2016 Shanghai – SNEC - International Photovoltaic Power Generation Exhibition booth E2.655

22 - 24. June 2016 - Intersolar in München booth A2.111

Videos:

Electroluminescence-Inspection of solar modules - MIS System

<https://www.youtube.com/watch?v=comkNpMwsQY&list=PLWiZ7RaHZcL6sUhyuJc0L9hT-B-i01nSF>

Electroluminescence-Inspection of Solar modules - Panel Vision System

<https://www.youtube.com/watch?v=EYrxO5m4BkU&list=PLWiZ7RaHZcL6sUhyuJc0L9hT-B-i01nSF&index=2>

Photos:

<http://www.pi4.de/press/Solar/pi4-Solar.zip>

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