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Title: Photovoltaic back-end EL calibration board

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This LED-based pulse quantum efficiency (QE) system enables NLR to measure the spectral response of PV modules quickly and reliably, without the need to individually tab cells.

Together with our TestLab PV Modules, which is also accredited, CalLab PV Modules forms a globally unique testing environment for the calibration, reliability assessment and certification of PV modules.

VLSI has over 20 years of experience in supplying traceable Calibration Standards to industries where measurement accuracy and instrument monitoring are required.

The chart below lists the four available stand-alone EL systems sorted by their resolution from high (HR) to low resolution (LR). The first (green) is the system with the highest resolution for modules in MBJ's ...

By integrating electroluminescence testing into the solar panel manufacturing process, manufacturers can ensure the production of high-quality, reliable, and efficient solar modules that ...

Our reference solar cell and meter is an integral part of solar simulator calibration and solar cell I-V characterization. It consists of a readout device and a 2x2 cm calibrated solar cell made of ...

Even under high irradiance conditions, this system can gather enough pairs of EL and background images in just a single second to create an EL PV module image. It results images ...

We provide high-accuracy performance calibrations of commercial and research PV cells and modules following ASTM E44 and IEC 60904 standards. Our extremely low measurement uncertainties (listed ...

Our laboratory is one of only four facilities in the world certified to calibrate reference cells in accordance with the World Photovoltaic Scale, and these measurements are accredited to International ...



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Intertek CEA provides PV module testing, EL inspections, and quality audits to ensure defect-free solar panels and maximum performance.

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