Turn-Key Solution for IR solar cell testing methods.

- Simple and Accurate Shunt Detection
- Optical and Electrical Excitation
- Accurate Measurement Without Reflections
- Improved Sensitivity
Discover the next generation of thermography, delivering unprecedented speed, accuracy and sensitivity.

The MoviTHERM Solar-Check system, with appropriate stimulation sources and accessories, can be used for all common IR solar cell testing methods including crack detection, shunt detection, emission analysis and carrier density measurements.

SolarCheck is a turn-key system, complete with IR-Imager, excitation source and image processing software. The system can be customized to suit your production and testing process.

Shunt Detection – Simple and Accurate
Solar-Check addresses the critical need in the solar industry to efficiently and accurately detect shunts in thick-film and thin-film photovoltaic cells and panels.

Supports Optical and Electrical Excitation
Solar-Check is suitable for shunt detection in a production environment as well as in a research and development setting. Optical excitation allows for a true – non-contact inspection, enabling automated part handling.

Accurate Measurements - Lock-in Eliminates Reflections
The lock-in technique used in the Solar-Check solution significantly enhances the appearance of the defects in the resulting thermal image. Reflections and the adverse effects of thermal diffusion are eliminated, thereby pinpointing defect locations.

Increased Sensitivity
Solar-Check’s built in lock-in measurement technique only responds to thermal responses from the solar cell only at the exact excitation frequency; thereby dramatically improving the overall sensitivity of the system. Typical thermal camera sensitivity is around 25 mK, MoviTHERM’s Solar-Check solution increases the system’s sensitivity to the μK range!

For more information, visit our website at www.moviTHERM.com or call 949-699-6600.