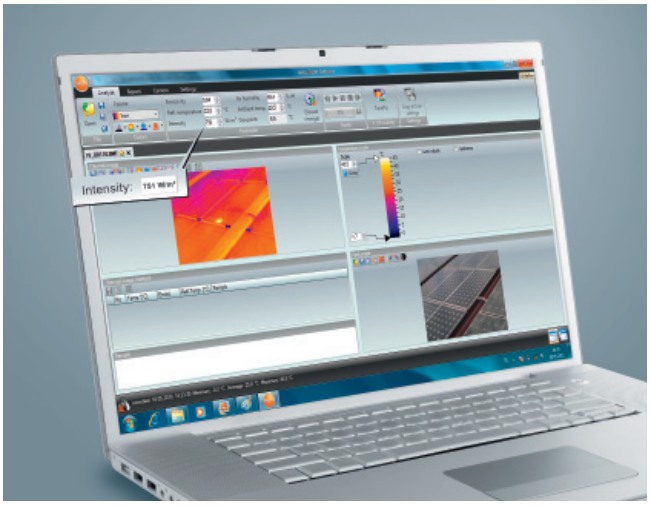
Testo Solution
Example application

We measure it. testo

Monitoring the function of photovoltaic systems with thermal imagers from Testo.

Fast and efficient.
You can now easily monitor large and small photovoltaic systems without contact, from a distance, and especially efficiently. Because the precise thermal imagers from Testo identify malfunctions, ensuring the smooth running of all components, and maximum economic viability. Thanks to the possibility of entering the solar irradiation intensity, you have additional security, and afterwards know exactly what you have measured.



The challenge.

Malfunctions in the operation of photovoltaic systems can be quickly diagnosed at a solar irradiation from 500 – 600 W/m² using Testo thermal imagers, based on conspicuous changes in the thermal properties of the system:

- Defective bypass diodes
- Contact errors and short circuits in solar cells
- Moisture penetration, dirt
- Cracks in cells or in the module's glass
- Non-functioning or disconnected modules
- So-called mis-matches, i.e. loss of performance due to different capacities of individual modules

It is important that in thermogaphic measurement, you take solar irradiation into consideration. Because too low values falsify the result.

The solution.

The testo 876 in practical camcorder design allows you to discover losses of performance in your photovoltaic system – easily and efficiently during continuing operation. With its large rotatable display and the optional telephoto lens, you always have the right image section in view.

And what makes it special is: In the solar mode, you can simply enter the solar irradiation power into the imager in W/m². You do not lose this value, it is stored with each thermal image and is available for evaluation in the analysis software.

This means, that using only your thermal imager, you monitor the operational security of your photovoltaic system, and can prove the highest level of effectivity: you have everything under control.

More information.

More information and answers to all your questions concerning the topics of thermography and photovoltaics at www.testo.com.

Thermal imager testo 876

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