

We measure it.



TESTOsolutions

Thermography on photovoltaic systems

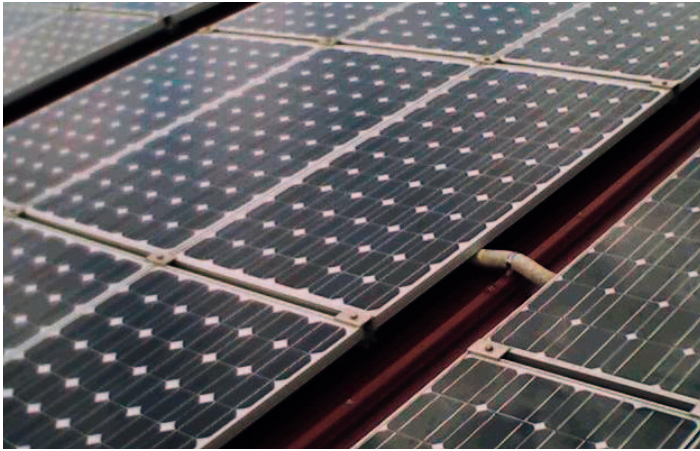


Quick and efficient.

You can now easily monitor photovoltaic systems of all sizes in a way that is wide-ranging, contactless and exceptionally efficient. This is because the accurate thermal imagers from Testo are able to detect malfunctions and ensure that all components function smoothly, ensuring maximum cost effectiveness. The option of inputting solar radiation intensity offers you extra reliability and afterwards you will know exactly, what you have measured.



The application



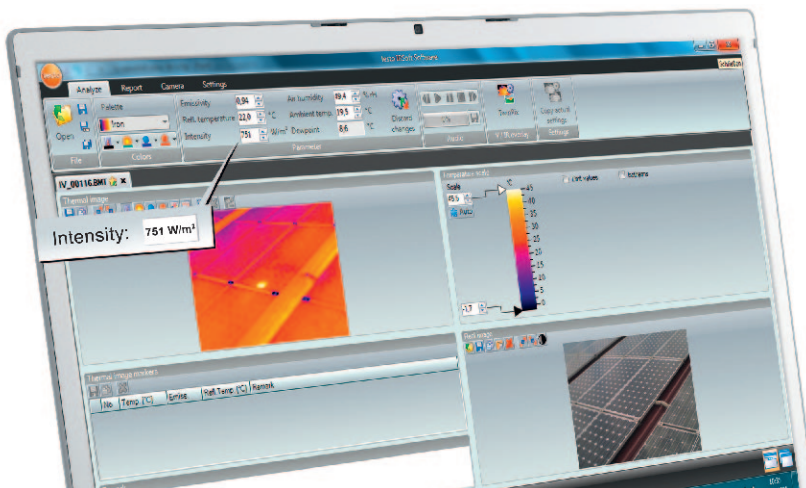
Risks in operating photovoltaic systems.

Faults that occur when operating photovoltaic systems can be quickly diagnosed from a solar radiation of 500 – 600 W/m² via marked changes to the thermal properties using Testo thermal imagers:

- Defective bypass diodes
- Contact faults and short circuits in solar cells
- Penetrated humidity, contamination
- Cracks in cells or in the module's glass
- Non-functioning or disconnected modules
- So-called mismatches, i.e. loss of performance due to different capacities of individual modules

In thermographic measurement, it is important that you note the intensity of the solar radiation. This is because values that are too low distort the results.

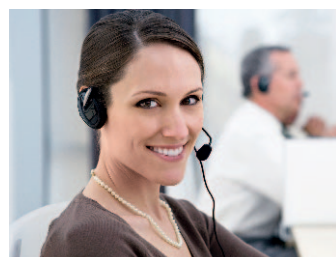
The solution



Thermography with Testo: easy, quick and reliable.

The testo 776, with its flexible camcorder design, enables you to detect power losses in your photovoltaic system while in operation really easily and efficiently. You always have the right image section in view thanks to the large rotatable display and optional telephoto lens. Its special feature: you can enter the solar irradiation data in W/m² into the camera very easily using the solar mode. No need to worry any more about

losing the data, this is stored for each thermal image and is available for analysis in the evaluation software. Which means that using only your thermal imager, you can guarantee the operational security of your photovoltaic system, demonstrate utmost efficiency and have everything completely under control.



More info.

For more information and answers to all your questions concerning thermography and photovoltaics, contact our thermography experts at +49 7653 681 700 or thermografie@testo.de.