

# Mobile phone thermal imaging camera to measure photovoltaic panels

What is the best thermal camera to use with solar panels?

We selected 4 of the best thermal cameras to use with solar panels and evaluated them on every aspect from image quality to battery life and software features. Let's have a look at each product in particular. If you are serious about inspecting your solar panels, then the best camera to use is the Flir E8-XT.

What is the best camera to inspect solar panels?

Let's have a look at each product in particular. If you are serious about inspecting your solar panels, then the best camera to use is the Flir E8-XT. With its 320 x 240 thermal resolution which offers 76,800 thermal pixels in total, you can inspect the photovoltaic cells up close and in detail to find potential faults.

What is drone thermal imaging for PV inspections?

Curve Tracers) HOW DRONE THERMAL IMAGING HELPS PV INSPECTIONS To complement and enhance manual electrical testing, the use of drone thermal imaging for PV inspections, also known as aerial thermography, is increasingly required in contracts for PV system commissioning and maintenance due to the spe

Can infrared thermography detect thermal abnormalities in photovoltaic power plants?

Infrared thermography (IRT) can detect thermal abnormalities in photovoltaic power plants. According to a 2018 report (PDF) from the International Energy Agency (IEA), common thermal abnormalities that can be measured with an IR camera in such power plants include:

Which IR camera should be used for PV module inspection?

An IR camera suitable for PV module inspection should meet certain requirements, such as a resolution of at least 640 x 480 pixels. According to the IEA, lower class cameras have a resolution of 160 x 120 pixels. Gradients over 20 degrees Celsius can cause degradation of a panel's output.

Can the seek thermal revealpro be used for solar panel inspections?

Yes. The Seek Thermal RevealPro is a compact handheld thermal camera which can be used for solar panel inspections. The reason we included it in our list is because it has a high 320 x 240 resolution and its heat detection and temperature screening capabilities can go up to 1800 feet away.

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