

High-resolution thermal imaging camera with microscope lens

Easy operation for test & measurement

Optris is expanding its range of non-contact temperature measurement sensors with compact, high-resolution infrared cameras with microscope lenses. “As well as shots of the entire circuit board, detailed macro shots of individual components are possible and can be measured reliably”, explains Dr.-Ing. Ulrich Kienitz, CEO of Optris. The infrared cameras come with a high-quality and easy-to-use table mount.

Over 300,000 measuring points from 80 mm distance

The infrared cameras of the optris PI Series have changeable lenses which give the customer flexibility when using the devices. Additional microscope lenses are now available for both the PI 450 (resolution 382 x 288 px) and the PI 640 (resolution 640 x 480 px) cameras. The macro shots of individual components are possible with a spatial resolution of 28 µm. The distance between the measurement object and the camera can vary between 80 and 100 mm. This flexible positioning of the measurement device allows for a simultaneous electric functional test without difficulty. With the license-free software both radiometric images and radiometric videos can be recorded at up to 125 Hz.

Hotspot and weak spot recognition

The infrared cameras with microscope lenses come in a set with a high-quality table mount which allows for the simple fine-adjustment of the camera's focus, especially in the test & measurement range. The cameras are connected to computer via USB and can be started up very quickly. The high-quality thermal and geometric detail resolution of the infrared cameras enables the smallest temperature differences to be recognized, which allows for an effective and precise functional testing of electronic products.

About Optris

Optris was founded in 2003 and has established itself as one of the leading manufacturers of non-contact temperature measurement devices. The product range consists of both portable and stationary infrared thermometers and online infrared cameras for thermographic real time analyses. Optris products are developed and produced in Germany to ensure the highest standards in quality, a central element of company policy.

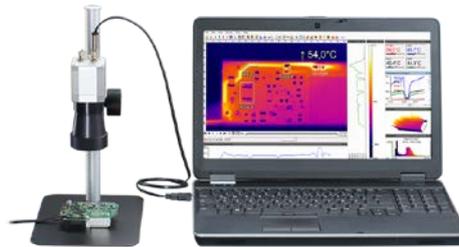
Images

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Caption: The optris PI 640 recognizes hotspots and measures over 300,000 measurement points from a distance of 80 mm.

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