



Microscope Lens for Temperature Monitoring of Ultra-small Targets

Microscope lens from Micro-Epsilon enables cameras to macro shooting of individual components based on a spatial resolution of up to 28 μ m.

Thanks to the new microscope lens from Micro-Epsilon, the thermoIMAGER TIM 450 high resolution thermal imaging camera (382x288 pixels) and TIM 640 (640x480 pixels) can detect even the slightest temperature differences with high precision and reliability. The microscope lens has been developed for PCB temperature measurements, PCB assembly monitoring or for inspecting micro-sized solder and weld joints.

Scalable temperature ranges

In addition to overall images and videos, even detailed macro shooting of individual objects is possible in real time at up to 125Hz based on a spatial resolution of up to 28 μ m. The distance between the camera and the object to be measured can be up to 100mm. The camera can be freely positioned within this range. Scalable temperature ranges are from -20°C to 100°C, from 0°C to 250°C and from 150°C to 900°C. Due to the large working distance, temperature measurements of electronic components can be carried out during the measurement of electrical parameters for function tests.

The TIM 450 and TIM 640 camera models can be upgraded with the microscope lens. A process interface cable, a USB cable, a high-quality

tripod and the comprehensive TIM Connect evaluation software are included in the scope of supply. The lens enables the display and rapid analysis of quickly changing temperatures and to record radiometric videos and images. The data can be exported and evaluated with other programs.

► 55077 at www.ien.eu

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