

Press Release

InfraTec GmbH Infrarotsensorik und Messtechnik

Dresden, 10/09/2026

Online Event: Infrared Lock-in Thermography for Inspection of Electronics and Integrated Circuits

Detecting thermal anomalies and local power losses within shortest test times

Our free of charge InfraTec English online event "Infrared Lock-in Thermography for Inspection of Electronics and Integrated Circuits" will provide you with more information about lock-in thermography as a high-precision measurement method for non-contact and non-destructive testing in electronics and electrical engineering.

Online Event:

“Infrared Lock-in Thermography for Inspection of Electronics and Integrated Circuits”

Date: Wednesday, November 4, 2026

Time: 10:00 AM – 12:00 PM (CEST)

Language: English

Price: free of charge

Register for the online event:

<https://attendee.gotowebinar.com/register/5340007369891108697?source=PR-extern>

The inspection of electronic components and assemblies by using active thermography is an established method for troubleshooting and quality assurance – from prototype development to series production. Applying this extremely sensitive method, atypical temperature distributions and hotspots with variations of only few millikelvin can be reliably detected on surfaces of printed circuit boards, integrated circuits and multi-chip modules without physical contact.

In particular the lock-in thermography provides highly detailed information during each development step. This information can be essential for the design of complex electronic circuits or assemblies to optimise the thermal management. Active thermography is applied especially in electronics production as a versatile tool: for example, in quality assurance, for permanent monitoring of technological parameters as well as for inline inspection of products in manufacturing.

With the method of lock-in thermography, local heat sources are generated by defined electrical excitation of an electronic component or assembly. These heat sources originate in regular, but also in irregular (electronic) structures of the component or assembly. Irregular heat sources can be clearly identified by comparing the measured heat pattern with simulations and/or reference patterns based on its locations but also its temperature rise.

Information: 2,330 characters (incl. spaces)

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About InfraTec

The InfraTec infrared sensor and measurement technology company was founded in 1991 and has its headquarters in Dresden, Germany. The privately held company employs more than 240 employees and has its own design, manufacturing and distribution capabilities.

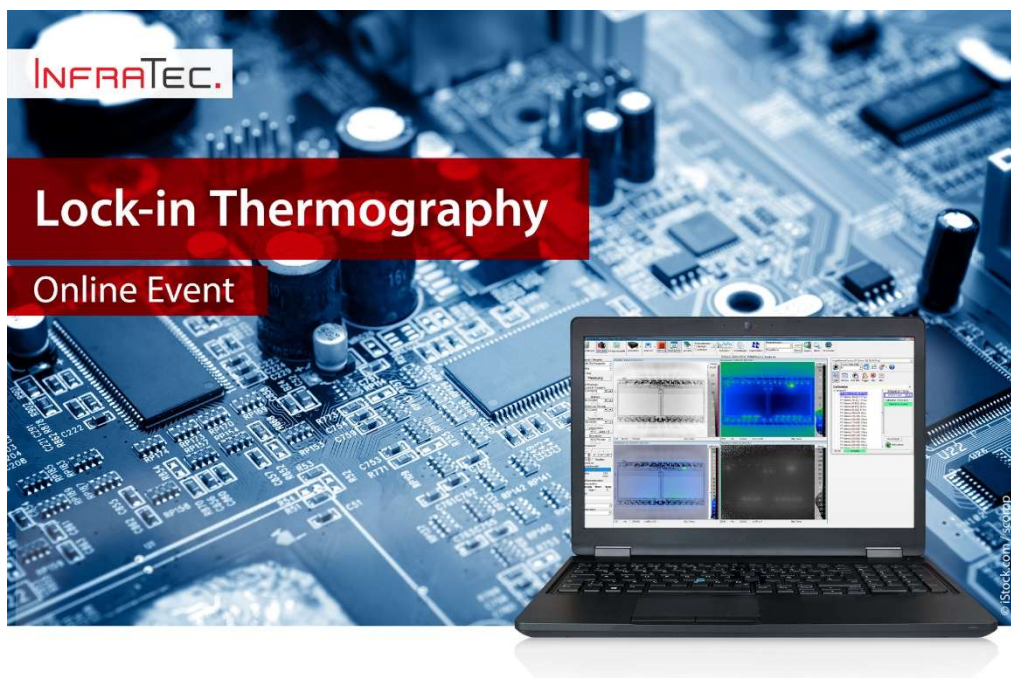
The infrared sensor division produces custom-made components – especially pyroelectrical infrared detectors – for clients worldwide. The product range includes analogue single and multi-channel detectors as well as digital multi-channel detectors (PyrIQ). The detectors are used, for example, in gas analysis, fire and flame sensors and spectroscopy.

With its infrared measurement business unit, InfraTec is one of the leading suppliers of commercial thermal imaging technology. In addition to the high-end camera series ImageIR® and the VarioCAM® High Definition series, InfraTec offers turnkey thermographic automation solutions e. g. for industry processes, non-destructive testing and fire detection and prevention.

Contact

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Image



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