

Press Release

InfraTec GmbH Infrarotsensorik und Messtechnik

Dresden, 09/01/2023

Lock-in Thermography for Inspection of Electronics and Integrated Circuits Detecting thermal anomalies and local power losses within shortest test times

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.

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"

Language: English

Including the technical lecture from thermography practice:

"Challenges and Applications of Thermography in Microelectronics"

Speaker: Marko Hoffmann from Infineon Technologies Dresden GmbH & Co. KG

Date: Thursday, 9 February 2023 / Time: 10:00 AM – 12:00 PM (CET)

Registration: <https://register.gotowebinar.com/register/4571039700354773337?source=PR>

Information: 2,495 characters (incl. spaces)

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 200 employees and has its own design, manufacturing and distribution capabilities.

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Headquarters

InfraTec GmbH
Infrarotsensorik und Messtechnik
Gostritzer Straße 61 – 63
01217 Dresden / GERMANY

Phone +49 351 82876-610
Fax +49 351 82876-543
E-mail thermo@InfraTec.de
www.InfraTec.eu

USA office

InfraTec infrared LLC
5048 Tennyson Pkwy.
Plano TX 75024 / USA

Phone +1 844-226-3722 (toll free)
E-mail thermo@InfraTec-infrared.com
www.InfraTec-infrared.com

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Infrared sensors, with electrically tunable filters based on MOEMS, count among the products of the infrared sensor division, next to spectrally single and multi channel infrared detectors. These detectors can be used in gas analysis, fire and flame sensor technology 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.

Contact

Company address:	InfraTec GmbH	Phone	+49 351 82876-610
	Infrarotsensorik und Messtechnik	Fax	+49 351 82876-543
	Gostritzer Str. 61 – 63	E-mail	thermo@InfraTec.de
	01217 Dresden	Internet	www.InfraTec.de

Image



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

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USA office

InfraTec infrared LLC
5048 Tennyson Pkwy.
Plano TX 75024 / USA

Phone +1 844-226-3722 (toll free)
E-mail thermo@InfraTec-infrared.com
www.InfraTec-infrared.com