

Press Release

InfraTec GmbH Infrarotsensorik und Messtechnik

Dresden, 2026-07-30

Thermography in Aerospace Engineering **Method for a wide range of measurement and testing tasks**

In our free InfraTec online event “Thermography in Aerospace Engineering”, you will learn more about the wide range of possible applications of thermography for research and development in aerospace engineering and for the investigation of friction processes. Our experts will demonstrate how temperature distributions and their temporal trends can be captured, analyzed and used for effective testing.

Online Event (Language: English) **“Thermography in Aerospace Engineering”**

Technical lecture from thermography practice:

Title: “Airborne Analysis of Surface Heating and Cooling Behavior Using Multitemporal Thermal Aerial Surveys”

Speaker from GeoFly GmbH, Magdeburg

Date: Wednesday, September 23, 2026

Time: 10:00 AM – 12:00 PM (CEST)

Language: English

Price: free of charge

Registration at:

<https://register.gotowebinar.com/register/1920049022827628896?source=PR-extern>

Every object sent into the atmosphere and beyond must first be tested for stability and functionality. Thermography offers a wide range of possibilities for analyzing how materials and components behave under the demanding conditions of flight or in space. Contactless, two-dimensional temperature measurement enables, for example, the localization of material defects under mechanical stress or hot spots on electronic components during actual operation, the analysis of flow processes on airfoils or turbines, and the evaluation of the heat resistance of ceramic materials.

Thermography can provide answers to a wide range of questions in aerospace engineering. However, the broad spectrum of associated measurement and testing tasks requires thermal imaging cameras of various performance classes, appropriate measurement methods, and specific expertise to achieve optimal results. Cameras designed for spectral thermography, for example, can be used in engine development, for the detection of combustion gases, or for the development and investigation of special ceramic coatings.

Active thermography offers numerous possibilities for non-destructive testing, ranging from fundamental investigations of asteroid samples returned to Earth by space probes to quality control of fiber-reinforced materials. With the help of micro thermography, thermal microactuators for nanotechnology can be analyzed, and electronic components can be optimized with regard to their thermal management.

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High-speed thermography enables even the fastest processes to be captured in detail, such as the thermal stress on the outer skin of missiles during re-entry into the atmosphere or on braking systems during aircraft landing.

In the online event, our experts will explain in detail the capabilities of innovative thermography cameras for investigating the many different questions in aerospace engineering. Our guest speaker from industry will also provide you with in-depth insights into practical applications. He will share how thermography is used in his work, the specific challenges he has faced, and how he has mastered them.

Information: 3,076 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 240 employees and has its own design, manufacturing and distribution capabilities.

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 camera series TarisIR® and VarioCAM® High Definition, InfraTec offers turnkey thermographic automation solutions e.g. for industry processes, non-destructive testing and fire detection and prevention.

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®) and high-performance detectors (PYRONEER®) for analytical instruments. The detectors are used in gas analysis, fire and flame sensors and spectroscopy.

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Picture:



Online-Event: "Thermography in Aerospace Engineering" / picture credit: © iStock/1971yes

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