

Press Release

InfraTec GmbH Infrarotsensorik und Messtechnik

Dresden, 02/05/2022

InfraTec's New Infrared Zoom Camera: Small, Light, Universal Efficiency has a new name: ImageIR® 6300 Z – radiometric with a powerful zoom lens and new SWaP detector (Size, Weight and Power)

Smaller, lighter and without time-consuming lens changes – this is how InfraTec's latest infrared camera comes across: ImageIR® 6300 Z. The compact zoom camera for precise thermographic temperature measurements is suitable for numerous fields of application. Its excellent price-performance ratio and its remarkable user-friendliness result from the consistent use of innovative technologies in optics, detector and electronics.

The ImageIR® 6300 Z is equipped with an integrated 7.5x zoom lens as standard and allows, in combination with its motorised focus, fast and stepless adjustment to a wide range of object distances and lens sizes with excellent image quality and high measurement accuracy. Furthermore, the zoom camera is radiometrically calibrated over the entire focal length range, thus enabling extremely flexible use.

Innovative XBn detector

The heart of the infrared camera is the new SWaP camera core. It consists of a cooled MWIR focal plane array photon detector with innovative XBn (HOT) technology in the format of (640 × 512) IR pixels, designed for demanding requirements and operating in snapshot mode. The XBn detector material with higher operating temperatures (HOT) of 150 K allows the use of a new linear cooler generation, which is characterised in particular by a substantial smaller design, lower power consumption and long service life. This – in combination with a very small pixel pitch of 10 µm – reduces the dimensions and weight of the ImageIR® 6300 Z and significantly extends its maintenance-free service life.

The maximum IR frame rate of 180 Hz can be increased up to 600 Hz with the binning function in high-speed mode. Switching between the two speed modes is conveniently done via software and allows precise metrological tracking of fast thermal processes.

By using its powerful image processing electronics, the camera can output the IR image data in real time to several video and data interfaces as well as record and evaluate it independently. Alternatively, large amounts of data can be stored directly on the integrated SSD. Its web interface also enables the camera to be controlled via smartphone or tablet and, due to the battery operation option, it is also suitable for outdoor use.

Wide range of applications

The ImageIR® 6300 Z is predestined for demanding applications in research and development as well as for stationary or airborne inspection and monitoring tasks. Further applications can be found in quality assurance, materials testing or in a wide range of OEM integration solutions.

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Information: 2,733 characters (incl. spaces)

About InfraTec

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

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 e. g. for industry processes, non-destructive testing and fire detection and prevention.

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Image



Infrared Zoom Camera ImageIR® 6300 Z from InfraTec

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