

# Press Release

InfraTec GmbH Infrarotsensorik und Messtechnik

Dresden, den 15.04.2016

## The Pixel Millionaire

World premiere in Dresden: Radiometric thermal imaging camera with the largest cooled detector for industry and science

Just in time for the 25<sup>th</sup> anniversary of the company, InfraTec is presenting its new ImageIR® 10300. This latest model of the high-end ImageIR® series features the world's first radiometric camera with a cooled detector of (1,920 × 1,536) IR pixels for industry and science. Compared to the ImageIR® 9300, the sister model with its smaller SXGA detector, the pixel pitch has now decreased to just 10 µm. This news-breaking development for the IR camera series has opened the door for InfraTec to create thermograms with unprecedented image detail and sharpness. At the same time the geometric resolution of greater than 3 Megapixels translates to a substantial increase in efficiency of testing extremely small micron sized structures on large targets.

## Record and Transfer Thermograms at High-speed

The large format is an advantage of the new InSb-Focal-Plane-Array. The other advantage is the excellent temperature resolution that results from utilizing wide-open apertures. This makes the camera suitable for the most demanding measurement and inspection tasks in industry, research and development. Users in these disciplines will also benefit from the 10 GigE interface. This connection will allow to transfer data ten times faster to a computer than with the conventional GigE interface. The data rate of 10 Gbit/s allows significantly higher frame rates while in full screen mode. As a result the ImageIR® 10300 achieves a full frame transfer rate of up to 100 Hz. The connection is completely immune to electromagnetic interference, thanks to modern fiber optic cable technology, and can extend over distances from several meters to tens of kilometers.

## One Series – Endless Possibilities

Even in their stand-alone versions, the models of the ImageIR® Series are powerful thermographic systems. The true flexibility of these high-quality thermal imaging cameras is especially evident in the possibilities they offer by their complete package systems. Superior infrared precision optics, robust control and analysis software coupled with various trigger and flexible integration options provide users with unlimited capabilities to capture their application-critical data. Applications range from active thermography to micro thermal imaging, aerial thermography to site surveillance. In addition, the thermal imaging cameras can be integrated as components in turnkey automation solutions designed and serviced by InfraTec.

**Information:** 2,571 characters (incl. spaces)

## About InfraTec

InfraTec GmbH Infrarotsensorik und Messtechnik was founded in 1991 and has its headquarters in Dresden, Germany. The privately held company employs more than 200 employee and has its own design, manufacturing and distribution capabilities.

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InfraTec's Infrared Measurement division is one of the leading suppliers of commercial thermal imaging technology. In addition to our high-end camera series ImageIR® and the VarioCAM® High Definition product family, the company offers turnkey thermographic automation solutions.

Infrared sensors with electrically tunable MOEMS-based filters are among the products from the Infrared Sensors division, next to spectrally mono- and multi-channel infrared detectors. These detectors are used, for example, in gas analysis, fire and flame sensor technology and spectroscopy.

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