

# Press Release

InfraTec GmbH Infrarotsensorik und Messtechnik

Dresden, 10/10/2018

## Automatic for a Perfect Image

### HighSense allows users of the Imager® thermographic camera series to choose the optimum camera setting for every measurement situation

Different measurement scenarios often require temperature measurement ranges or integration times that vary from the initial factory calibration and are individually adjusted. Usually the calibration is invalid as a result of such adjustments and the thermographic camera no longer provides any accurate temperature measurements. Users of the thermographic camera series Imager® now have an alternative. Thanks to the innovative HighSense function, the measurement accuracy of their cameras is also preserved when integration times or the measurement ranges are changed. With maximum flexibility they also save costs, for example, by avoiding additional application-specific special calibrations.

#### Users achieve their goal in a variety of ways

The new development enhances the existing factory calibration of the thermographic camera. It enables the possibility of setting up individual customized temperature measurement ranges. Users can apply their specific settings in different ways.

The first way allows for the selection of a desired integration time. After entering the integration time via the intuitive software interface, the resulting temperature measurement range is calculated automatically and can be used for accurate measurements. At the same time, the selected lens as well as neutral density filters or spectral filters are also taken into account.

The second way addresses the issue of the temperature measurement range. This can be specified by defining an upper and lower limit. Afterwards, the appropriate integration time is calculated again to achieve the optimum signal-to-noise ratio and stored as setting parameter for the planned measurement task. Depending on whether a particularly high thermal sensitivity or the maximum possible frame rate is paramount – with the appropriate adjustment of integration times and the resultant automatically generated temperature measurement ranges the HighSense feature offers considerably more flexibility in order to optimally fulfil the measuring tasks at hand.

In addition, the calibration of individual sub-frames is no longer necessary. The adjustment of the calibration data, which applies to these frames, takes place automatically as well. On this basis, accurate temperature measurement values are also provided for the corresponding window modes. Thus, the choice of the temperature measurement range as well as the integration time does not depend on whether the image should result in full-frame mode or in sub-frame mode, which can be used to achieve a higher frame rate.

#### Conveniently store settings for recurring tasks

Thanks to HighSense, users of the Imager® now have the option to set up individual measurement ranges based on the factory calibration, which are best suited to the task at hand. The software also offers the possibility of storing a multitude of such ranges in a clearly visible way. Individually named and permanently stored, the user can access these settings quickly. The same holds true when it comes to changing, renaming and deleting the profiles.

HighSense is available for various camera models of the Imager® series. Systems that have already been delivered can optionally be enhanced by this function.

#### Headquarters

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

Phone +49 351 871-8630  
Fax +49 351 871-8627  
E-mail [thermo@InfraTec.de](mailto:thermo@InfraTec.de)  
[www.InfraTec.eu](http://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](mailto:thermo@InfraTec-infrared.com)  
[www.InfraTec-infrared.com](http://www.InfraTec-infrared.com)

## Press Release

InfraTec GmbH Infrarotsensorik und Messtechnik

**Information:** 3,392 characters (incl. spaces)

### About InfraTec

The InfraTec infrared sensor and measuring 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.

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.

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

### Contact

InfraTec GmbH	Phone	+49 351 871-8630
Infrarotsensorik und Messtechnik	Fax	+49 351 871-8727
Gostritzer Str. 61 – 63	E-mail	presse@InfraTec.de
01217 Dresden / GERMANY	Internet	www.InfraTec.eu

### Figure



#### Headquarters

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

Phone +49 351 871-8630  
Fax +49 351 871-8627  
E-mail thermo@InfraTec.de  
[www.InfraTec.eu](http://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](http://www.InfraTec-infrared.com)