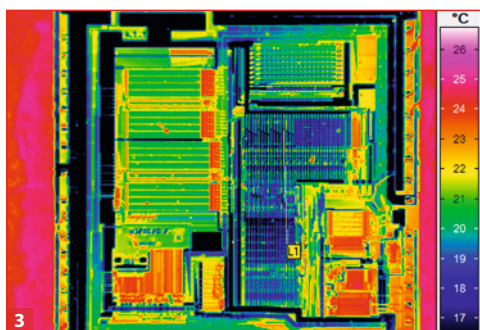
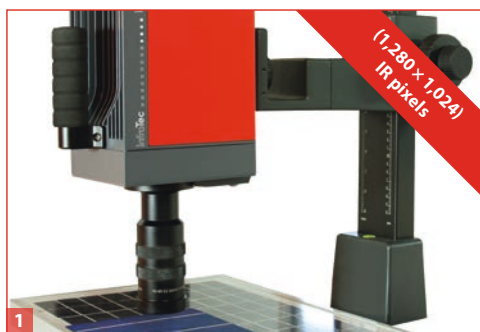


# ImageIR® 9300

High-end Thermography Camera

## InfraTec

Europe's leading specialist for infrared sensors and measurement technology



- 1) ImageIR® with microscopic lens
- 2) Controlling and acquisition software for facility protection
- 3) Microscopic thermography

**Cooled FPA photon detector with (1,280 × 1,024) IR pixels**  
**Frame rate up to 390 Hz, GigE Vision interface**  
**Snapshot detector, internal trigger interface**  
**Extremely short integration times in the microsecond range**  
**Pixel resolution up to 2 µm**  
**Thermal resolution up to 0.025 K**  
**Made in Germany**



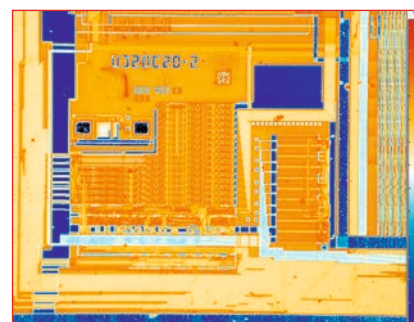
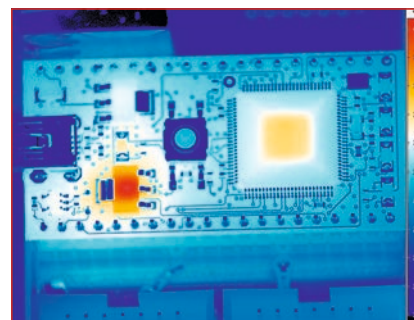
[www.InfraTec.eu](http://www.InfraTec.eu)



Latest information on the internet.

|                                                               |                                                                       |
|---------------------------------------------------------------|-----------------------------------------------------------------------|
| Spectral range                                                | (2.0 ... 5.7) $\mu\text{m}$                                           |
| Pitch                                                         | 15 $\mu\text{m}$                                                      |
| Detector                                                      | InSb                                                                  |
| Detector format (IR pixels)                                   | (1,280 $\times$ 1,024)                                                |
| Selection mode                                                | ITR/IWR                                                               |
| Detector cooling                                              | Stirling cooler                                                       |
| Temperature measuring range                                   | (-40 ... 1,500) $^{\circ}\text{C}$ ; up to 2,000 $^{\circ}\text{C}^*$ |
| Measurement accuracy                                          | $\pm 1^{\circ}\text{C}$ or $\pm 1\%$                                  |
| Temperature resolution @ 30 $^{\circ}\text{C}$                | 0.025 K                                                               |
| Frame rate<br>(full-frame/half-frame/quarter-frame/sub-frame) | Up to 106/200/390/3,200 Hz*                                           |
| Window mode                                                   | Yes                                                                   |
| Focus                                                         | Manually, motorised or automatically*                                 |
| Dynamic range                                                 | Up to 16 bit                                                          |
| Integration time                                              | (0.5 ... 18,000) $\mu\text{s}$ in increments up to 1 $\mu\text{s}$    |
| Rotating filter wheel*                                        | Up to 5 positions                                                     |
| Rotating aperture wheel*                                      | Up to 5 positions                                                     |
| Multi integration time*                                       | Yes                                                                   |
| Interfaces                                                    | GigE, 10 GigE*, 2 $\times$ CAMLink*, USB, HDMI*                       |
| Trigger                                                       | 2 IN/2 OUT, TTL                                                       |
| Analog signals*, IIRIG B*                                     | 1 IN/2 OUT, yes                                                       |
| Tripod adapter                                                | 1/4" and 3/8" photo thread, 2 $\times$ M5                             |
| Storage and operation temperature                             | (-40 ... 70) $^{\circ}\text{C}$ , (-20 ... 50) $^{\circ}\text{C}$     |
| Protection degree                                             | IP54, IEC 529                                                         |
| Dimensions, weight                                            | (244 $\times$ 120 $\times$ 160) mm, 4.0 kg                            |

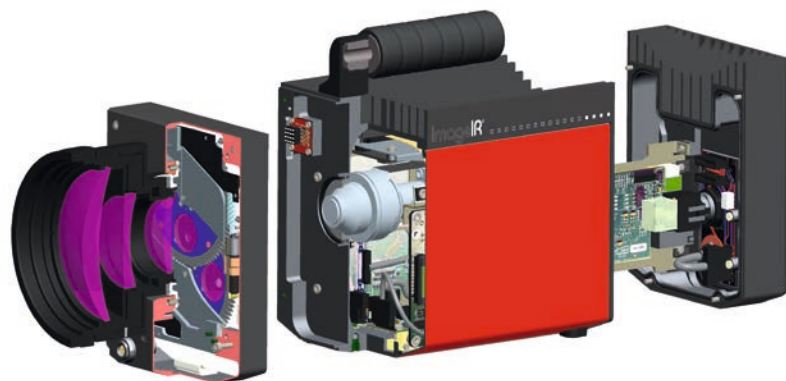
\* Depending on model



With its ImagerIR® 9300, InfraTec introduces another top-level thermographic camera model belonging to the ImagerIR® high-end camera series. For the first time, it is equipped with a new generation **cooled focal-plane-array photon detector** that provides a **format of (1,280  $\times$  1,024) IR-pixels** – four times higher than comparable competitive units. Combining an **outstanding thermal resolution of 0.025 K** with very high frame rates of 106 Hz and **extremely short integration times of only a few microseconds**, this camera offers you a whole new range of applications.

ImagerIR® 9300 was developed for demanding operations in research and development, **non-destructive material testing and process monitoring sectors**. Its **modular structure, which consists of optical-, detector- and interface-modules**, makes it easily adaptable to the respective application.

An **integrated trigger interface** guarantees a repeatable high-precision triggering of quick procedures. Two configurable digital in- and outputs serve as control ports for the camera or as generator of digital control signals for external devices. The optical channel consists of exchangeable infrared lens systems as well as application-specific apertures, filters and optical elements. All **exchangeable radiometric precision lenses** of the ImagerIR® can be equipped with a motorised focus unit, which is operated from the camera's application software. It allows quick, precise and remotely controllable motorised focusing and is a part of the optional auto-focus function.



Modular system design of ImagerIR® series

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