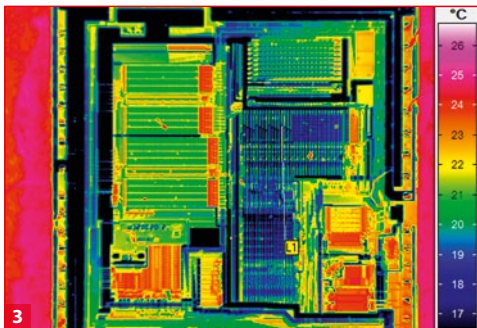
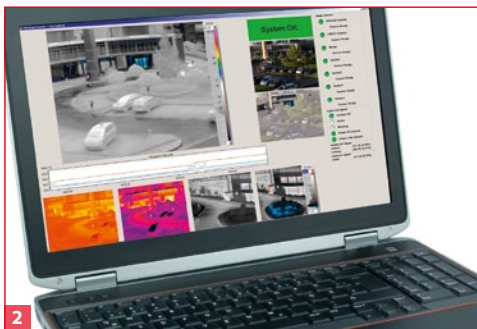
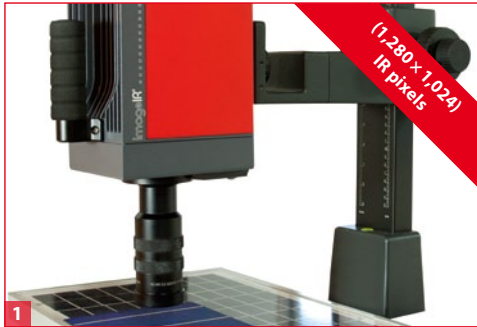


ImageR® 9300

High-end Thermography Camera

InfraTec

Europe's leading specialist for infrared sensors and measurement technology



- 1) ImageR® 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 0.02 K
Made in Germany



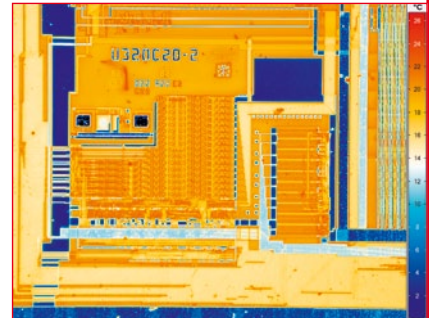
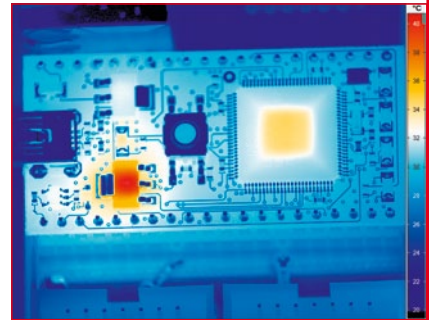
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NEW



Spectral range	(2.0 ... 5.5) μm
Pitch	15 μm
Detector	InSb
Detector format (IR pixels)	(1,280 \times 1,024)
Selection mode	ITR / IWR
Detector cooling	Stirling cooler
Temperature measuring range	(-40 ... 300) $^{\circ}\text{C}$; 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; typically 0.02 K
Frame rate (full screen mode/half screen mode/ quarter screen mode/sub-frame)	Up to 106/200/390 Hz/3,200 Hz
Window mode	Yes
Focus	Manually, motorised or automatically*
Dynamic range	14 bit
Integration time	(1 ... 20,000) μs in increments up to 1 μs
Rotating filter wheel*	Up to 5 positions
Rotating aperture wheel*	Up to 5 positions
Multi integration time*	Yes
Interfaces	GigE, 2x CAMLink*, USB, HDMI*
Trigger	2 IN/2 OUT, TTL
Tripod adapter	1/4" + 3/8" photo thread, 2x M5
Storage and operation temperature	(-40 ... 70) $^{\circ}\text{C}$, (-20 ... 40) $^{\circ}\text{C}$
Protection degree	IP54, IEC 529
Dimensions, weight	(244 \times 130 \times 160) mm, 4.0 kg

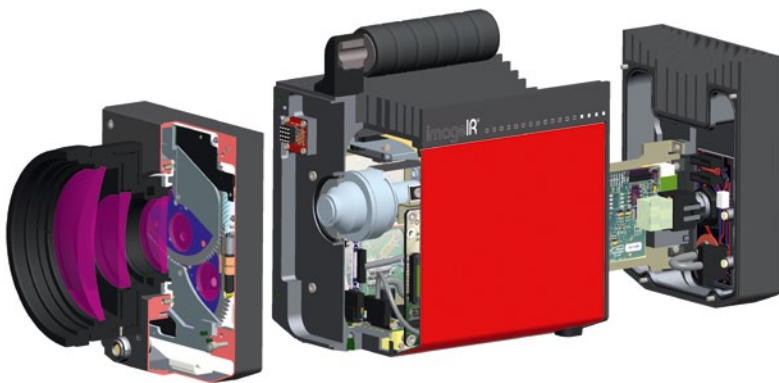
* Depending on model



With its ImageIR[®] 9300, InfraTec introduces another top-level thermographic camera model belonging to the ImageIR[®] 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 0.02 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.

ImageIR[®] 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 ImageIR[®] 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 ImageIR[®] series

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