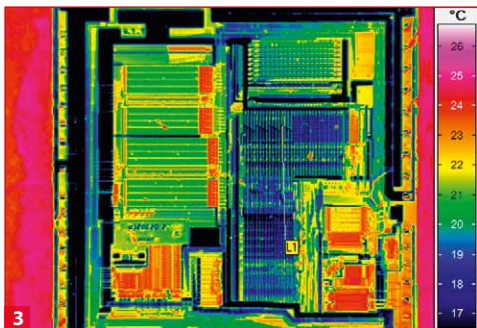
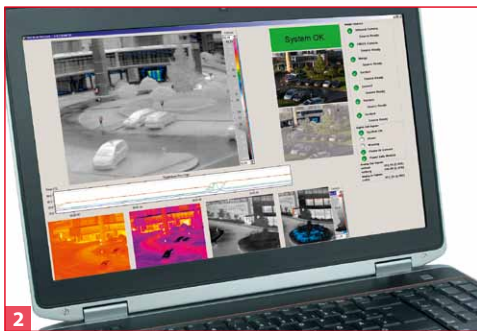


High-End-Thermography

ImageIR[®] 9300

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

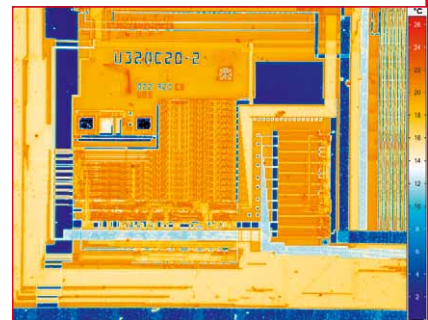
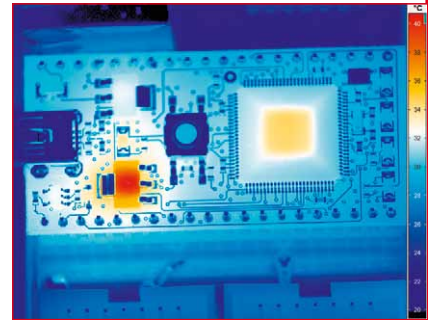
Cooled FPA photon detector with (1,280 x 1,024) IR-pixels
Frame rate up to 390 Hz, GigE Vision interface
Snapshot detector, internal trigger interface
Extremely short integration times in the microsecond range
Pixel resolution up to 2 μ m
Thermal resolution up to 0.02 K
Made in Germany



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NEW

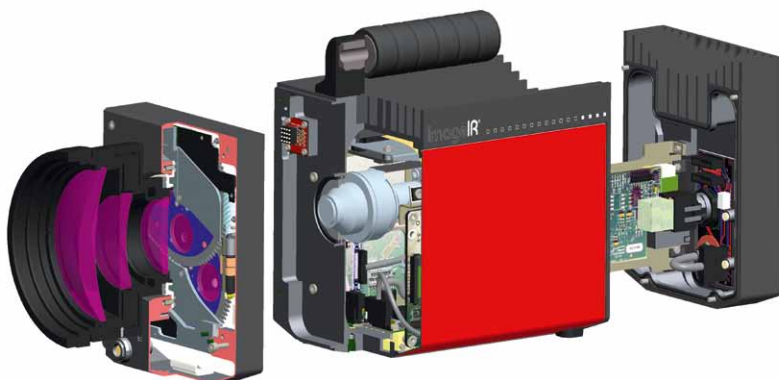
Spectral range	(2.0 ... 5.5) μm
Detector format (IR-pixels)	(1,280 x 1,024)
Detector	InSb
Detector cooling	Stirling cooler
Measurement accuracy	$\pm 2\text{ }^\circ\text{C}$ or $\pm 2\%$
Temperature resolution	0.025 K @ 30 $^\circ\text{C}$; typically 0.02 K
Temperature measuring range	(-40 ... 300) $^\circ\text{C}$; optional up to 2,000 $^\circ\text{C}$
Motor focus/auto focus	Optional
Storage temperature	(-40 ... 70) $^\circ\text{C}$
Operating temperature	(-20 ... 40) $^\circ\text{C}$
Degree of protection	IP54, IEC 529
Integration time	(1 ... 20,000) μs in increments up to 1 μs
Filter wheel/Aperture wheel (motorised)	Yes
Dynamic range	14 bit
Multi Integration Time	Yes
Window mode	Yes
Frame rate (full screen mode/half screen mode/ quarter screen mode)	Up to 106/200/390 Hz; line: 2,750 Hz
Digital interface	GigE
Optional	2x CAMLink, USB, HDMI, intern HDD
Trigger	2 IN/2 OUT, TTL
Tripod adapter	1/4" + 3/8"-photo thread, 2 x M5
Dimensions/Weight	(244 x 130 x 160) mm/4.0 kg



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 x 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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