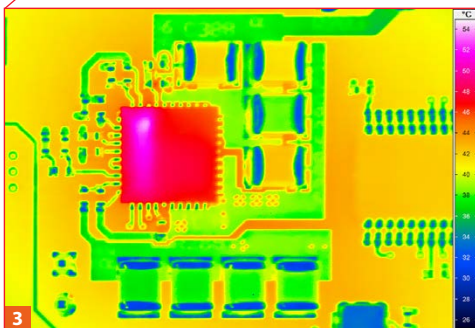
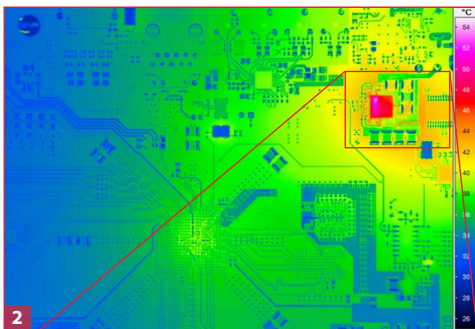


ImageIR® 10300

Full HD Thermography Camera

InfraTec

Europe's leading specialist for infrared sensors and measurement technology



- 1) ImageIR® 10300 with (1,920 × 1,536) IR pixels
- 2) Format-filling image of circuit board
- 3) Detailed zoom into image

- Cooled FPA photon detector with (1,920 × 1,536) IR pixels
- Full-frame rate up to 100 Hz, 10 GigE interface
- Snapshot detector, integrated trigger interface
- Complete optical assortment
- Microscopic pixel resolution up to 2 μm
- Thermal resolution up to 0.03 K
- Made in Germany



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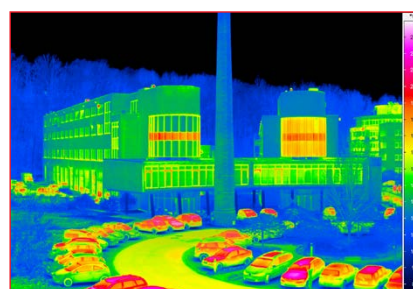
NEW



Latest information on the internet.

Spectral range	(3.6 ... 4.9) μm
Pitch	10 μm
Detector	InSb
Detector format (IR pixels)	(1,920 \times 1,536)
Image recording system	Snapshot
Selection mode	ITR/IWR
Aperture	F/2 or F/3
Detector cooling	Stirling cooler
MTTF	15,000 h
Temperature measuring range	(-40 ... 500) $^{\circ}\text{C}$
Measurement accuracy	$\pm 1^{\circ}\text{C}$ or $\pm 1\%$
Temperature resolution @ 30 $^{\circ}\text{C}$	Up to 0.03 K
Frame rate (full screen mode)	100 Hz
Binning (960 \times 768) (identical FOV)	300 Hz
Window mode	Yes
Focus	Manual, motorised or automatical*
Dynamic range	13 bit
Integration time	(1 ... 20,000) μs increments up to 1 μs
Rotating aperture wheel and filter wheel*	Up to 5 positions
Multi Integration Time*	Yes
Interfaces	10 GigE, USB 2.0
Trigger	2 IN/2 OUT, TTL
Tripod adapter	1/4"- and 3/8" photo thread, 2 \times M5
Power supply	24 V DC
Protection degree	IP54, IEC 60529
Dimensions, weight	(240 \times 120 \times 160) mm, 4.7 kg (without lens)

* Depending on model



With its detector format of (1,920 \times 1,536) IR pixels the Imager[®] 10300 sets new standards in geometric resolution worldwide and creates thermograms with an unprecedented image detail and sharpness. For the first time an infrared camera for civil use with a cooled photon detector permits full HD images. In combination with the small pitch dimension of 10 μm , this ensures that measurement, inspection and surveillance tasks can be solved even more efficiently than before. Everywhere such very fine structures need to be analysed on large-surface measurement objects, for example, users save time, effort and thus costs.

Despite the detector format of about 3 Megapixels, the transfer of full frame images achieves a rate up to 100 Hz. Thanks to the 10 GigE interface of the Imager[®] 10300 users can store large amounts of measurement data on a computer in the shortest amount of time. The interface is a part of the modular design of the entire high-end camera series Imager[®]. Individual adjustments like retrofitting a remotely controllable filter- and aperture wheel or a motor focus unit can easily be realized. A broad variety of infrared lenses with highest optical performance parameters provides the camera's outstanding thermal sensitivity.

Detector format (IR pixels)

Lenses	Focal length (mm)	FOV ($^{\circ}$)	IFOV (mrad)
Wide angle lens	25	(42 \times 34)	0.4
Standard lens	50	(22 \times 18)	0.2
Telephoto lens	100	(11 \times 9)	0.1

Macro- and microscopic lenses	Focus (mm)	FOV (mm)	Pixel (μm)
Close-Up 300 mm for telephoto lens 50 mm	300	(115 \times 92)	60
Close-Up 500 mm for telephoto lens 100 mm	500	(96 \times 77)	50
Microscopic lens M=1,0x	40	(19.2 \times 15.4)	10
Microscopic lens M=8,0x	14	(2.4 \times 1.9)	2

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