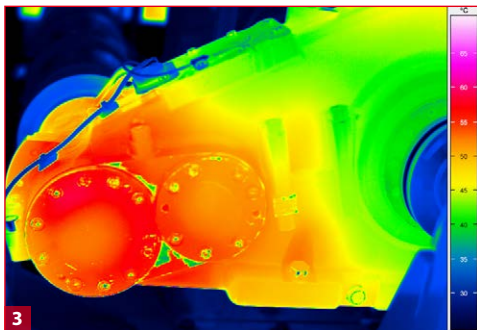
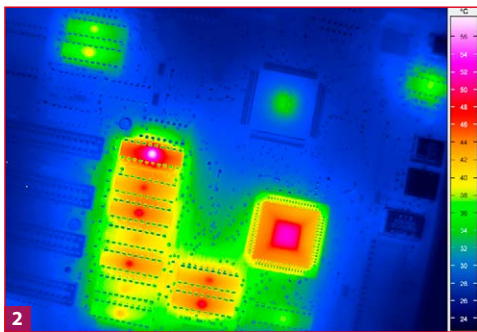


VarioCAM® HDx head

Entry-level Access to Stationary Thermography at Premium Level



- 1) VarioCAM® HDx head
- 2) Optimisation of electronic components
- 3) Heating of a drive

INFRA^{TEC}.

Europe's leading specialist for infrared sensors and measurement technology

Microbolometer detector with (640 × 480) IR pixels

GigE Vision interface

Robust light metal housing (IP67)

Wide range of lenses

Convenient camera control and data acquisition

Made in Germany



NEW

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Spectral range	(7.5 ... 14) μm
Detector	Uncooled microbolometer focal-plane array
Detector format (IR pixels)	(640 \times 480)
Temperature measuring range	(-40 ... 600) $^{\circ}\text{C}$, optional up to 1,200 $^{\circ}\text{C}^*$
Measurement accuracy	± 2 $^{\circ}\text{C}$ or $\pm 2\%$
Temperature resolution @ 30 $^{\circ}\text{C}$	Up to 0.03 K*
Frame rate	Full-frame: 30 Hz (640 \times 480), sub-frame: 60 Hz (384 \times 288)
Window mode*	Yes
Storage media	SDHC Card, external control computer for camera control and data acquisition*
Image storage	Time-, trigger- and temperature controlled recording of 16 bit single frames or image sequences with timestamp, video streaming in MPEG format
Lens mount	Automatic objective detection
Focus	Motor-driven, automatic or manual, accurately adjustable
Zoom	Up to 32x digital, stepless
Dynamic range	16 bit
Personnel detection range	Up to 2.0 km with VarioCAM [®] HDx head security / 40 mm lens
Vehicle detection range	Up to 4.2 km with VarioCAM [®] HDx head security / 40 mm lens
Interfaces	GigE Vision, DVI-D (HDMI), C-Video, RS232, WLAN*, Process interface*
Trigger*	2 \times digital I/O, 2 \times analogue I/O
Tripod adapter	1/4" photo thread
Power supply	AC adapter, (12 ... 24) V DC, PoE*
Storage and operation temperature	(-40 ... 70) $^{\circ}\text{C}$, (-25 ... 55) $^{\circ}\text{C}$
Protection degree	IP54, IEC 60529, IP67 with screw-on interface*
Impact strength, vibration resistance in operation	25 G (IEC 68 - 2 - 29), 2 G (IEC 68 - 2 - 6)
Dimensions, weight	(221 \times 90 \times 94) mm, 1.15 kg (basic configuration with standard lens)
Further functions*	Camera internal emissivity correction, shutter free operation, temperature alarm
Analysis and evaluation software*	IRBIS [®] 3, IRBIS [®] 3 plus, IRBIS [®] 3 professional, IRBIS [®] 3 view, IRBIS [®] 3 remote HD, IRBIS [®] 3 online, IRBIS [®] 3 process, IRBIS [®] 3 vision, IRBIS [®] 3 active, IRBIS [®] 3 mosaic

* Depending on model

The thermographic camera **VarioCAM[®] HDx head** is based on an **uncooled microbolometer FPA detector with (640 \times 480) IR pixels**. Thanks to its **wide standard temperature measuring range** it is suitable for **universal measuring, testing and monitoring tasks** in many sectors.

Even the low-cost models of the VarioCAM[®] HDx head as entry-level access to the class of professional, stationary microbolometer thermography systems provide brilliant thermographic images in high quality that can be created and evaluated very easily using the powerful software family IRBIS[®] 3. The high-quality processing, modular design and motorised focusing are among the details that benefit users.

The VarioCAM[®] HDx head convinces with its **extensive range of standard options**. The range includes automatic threshold detection and signalling by means of digital real-time image acquisition via the **integrated GigE Vision interface** as well as **online processing of thermographic data** for controlling time-critical thermal processes. With the **industrial-grade light metal housing (IP67)** installations in manufacturing processes are easily possible even in harsh process environments. Even monitoring tasks requiring **automatic continuous operation** can be implemented easily.

Application areas:

- Real-time thermography for industry and science
- Assembly control and process monitoring
- Machine and plant monitoring
- Security engineering
- Early fire detection

Lens	Focal lens (mm)	FOV ($^{\circ}$)
Wide-angle lens	10	(57.1 \times 44.4)
Standard lens	20	(30.4 \times 23.1)
Telephoto lens	40	(15.5 \times 11.6)
Macro and microscopic lenses	Min. object distance (mm)	Pixel (μm)
Close-Up 0.5x for lens: 40 mm / 20 mm	47 / 47	24 / 49
Microscopic lens M=1.0x	50	17

Additional infrared interchangeable lenses are available on request.

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