VarioCAM® HDx head

Entry-level Access to Stationary Thermography at Premium Level


Detector format
(640 × 480) IR pixels
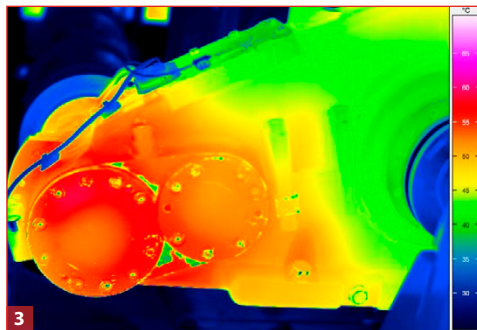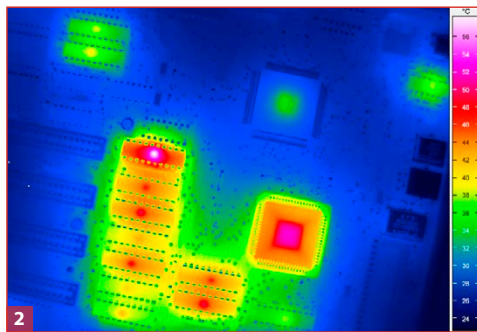
1) VarioCAM® HDx head
2) Optimisation of electronic components
3) Heating of a drive

InfraTec.

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

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NEW

Spectral range	(7.5 … 14) µm
Detector	Uncooled microbolometer focal-plane array
Detector format (IR pixels)	(640 × 480)
Temperature measuring range	(-40 … 600) °C, optional up to 1,200 °C*
Measurement accuracy	± 2 °C or ± 2%
Temperature resolution @ 30 °C	Up to 0.03 K*
Frame rate	Full-frame: 30 Hz (640 × 480), sub-frame: 60 Hz (384 × 288)
Window mode*	Yes
Storage media	SDHC Card, external control computer for camera control and data acquisition*
Image storage	Time-, trigger- und 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 32× 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*, Bluetooth*, Process interface*
Trigger*	2 × digital I/O, 2 × analogue I/O
Tripod adapter	1/4" photo thread
Power supply	AC adapter, (12 … 24) V DC, PoE*
Storage and operation temperature	(-40 … 70) °C, (-25 … 55) °C
Protection degree	IP54, IEC 529, 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 × 90 × 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, 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 × 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

Detector format (IR pixels)		(640 × 480)
Lens	Focal length (mm)	FOV (°)
Wide-angle lens 60°	10	(57,1 × 44,4)
Standard lens 30°	20	(30,4 × 23,1)
Telephoto lens 15°	40	(15,5 × 11,6)

Additional infrared interchangeable lenses are available on request.

Headquarters
InfraTec GmbH
Infrarotsensorik und Messtechnik
Gostritzer Str. 61 – 63
01217 Dresden / GERMANY
Phone   +49 351 871-8630
Fax   +49 351 871-8727
E-mail   thermo@InfraTec.de

USA office
InfraTec infrared LLC
5048 Tennyson Pkwy.
Plano TX 75024 / USA
Phone   +1 844-226-3722 (toll free)
E-mail   thermo@InfraTec-infrared.com

Further information at: **www.InfraTec.eu**