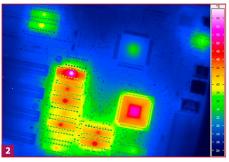
VarioCAM® HDx head

Entry-level Access to Stationary Thermography at Premium Level

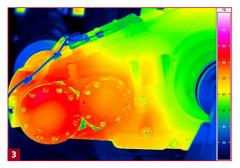


INFRATEC.

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



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



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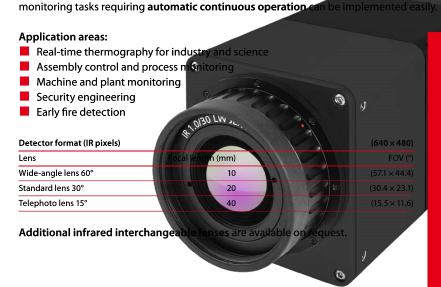
Spectral range	(7.5 14) μm
Detector	Uncooled microbolometer focal-plane array
Detector format (IR pixels)	(640×480)
Temperature measuring range	(-40 600) °C, optional up to 1,200 °C*
Measurement accuracy	± 2 °C or ± 2%
Temperature resolution @ 30 °C	Up to 0.03 K*
Frame rate	Full-frame: 30 Hz (640 × 480), 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- 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 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*, 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 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 mode

* 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 microbolo-meter 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



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