VarioCAM[®] HD head

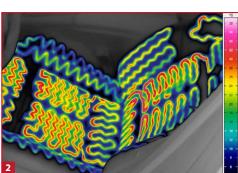
Thermographic Solution for Use in Industry and Research

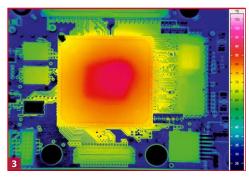


INFRATEC.

Europe's leading specialist for infrared sensors and measurement technology

Microbolometer detector with up to (1,024 × 768) IR pixels Optomechanical MicroScan with up to (2,048 × 1,536) IR pixels Frame rate of up to 240 Hz, GigE Vision interface Process- and trigger interface Solid light metal housing (IP67) Pixel size with microscopic lens up to 17 μm





VarioCAM® HD head
Seat heater
Assembled circuit board



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atest information on the

Uncooled Microbolometer Focal Plane Array (1,024 × 768), with built-in opto-mechanical high-precision scan unit (2,048 × 1,536)* (640 × 480), with built-in opto-mechanical high-precision scan unit (1,280 × 960)* (-40 2,000) °C*		
(640 \times 480), with built-in opto-mechanical high-precision scan unit (1,280 \times 960)*		
(-40 2,000) °C*		
± 1 °C or ± 1 %*		
Up to 0,02 K*		
Full-frame: 30 Hz (1,024 × 768), sub-frame formats*: 60 Hz (640 × 480) / 120 Hz (384 × 288) / 240 Hz (1,024 × 96)		
Full-frame: 60 Hz (640 \times 480), sub-frame formats*: 120 Hz (384 \times 288) / 240 Hz (640 \times 120)		
SDHC Card, external control computer for camera control and data acquisition*		
Time-, trigger- und temperature controlled recording of 16 bit single frames or image sequences with		
timestamp, video streaming in MPEG format		
Computer-aided storage of radiometric sequenzes by GigE interface with up to 240 Hz		
Bayonet to comfortably switch objectives, automatic objective detection and data transfer; screw-on		
interface*		
Motor-driven, automatic or manual, accurately adjustable		
Up to 32x digital, stepless		
16 bit		
GigE Vision*, DVI-D (HDMI), C-Video, RS232, USB 2.0, WLAN*; 2 \times digital I/O, 2 \times analogue I/O		
1/4" photo thread		
AC adapter, (12 24) V DC, PoE*		
(-40 70) °C, (-25 55) °C		
IP54, IEC 60529, IP67 with screw-on interface*		
25 G (IEC 68 - 2 - 29), 2 G (IEC 68 - 2 - 6)		
(221 \times 90 \times 94) mm; 1.15 kg (basic configuration with standard lens)		
Camera internal emissivity correction, shutter free operation, use of various colour sets, contrast		
enhancement, user profile, language selection		
IRBIS® 3, IRBIS® 3 report, IRBIS® 3 view, IRBIS® 3 plus*, IRBIS® 3 professional*, IRBIS® 3 remote HD, IRBIS® 3 control*,		
IRBIS® 3 online*, IRBIS® 3 process*, IRBIS® 3 active*, IRBIS® 3 mosaic*, IRBIS® 3 vision*, FORNAX 2*, FORNAX 2 plus*		

* Depending on mode

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The **thermographic high-resolution system VarioCAM® HD head** was conceived for demanding stationary monitoring and measurement tasks. The VarioCAM® HD head produces **brilliant high-quality thermographic images with 16 bits**, which allows unprecedented efficiency, especially when capturing smallest details on large object surfaces. Because of the maximum frame rate of 240 Hz, **very quick temperature changes can be recognised reliably**.

The **various sets of equipment** make it easy to adjust the setup to the respective measurement task: The application range includes automatic threshold recognition and signalling, digital real-time image acquisition via GigE, online processing of thermographic data and much more. The industrial light metal housing (IP67) allows easy and inexpensive **installation in tough process environments**.

Application examples:

- High-resolution thermography in research and development
- Stationary microthermography

 Security engineering and early fire detection
Monitoring and controlling of fast-running processes

Detector format (IR pixels)		(640×480)	(1,024×768)
Lens	Focal length (mm)	FOV (°)	FOV (°)
Super wide-angle lens	7.5	(93.7×77.3)	(98.5×82.1)
Wide-angle lens	15	(56.1×43.6)	(60.3×47.0)
Standard lens	30	(29.9×22.6)	(32.4×24.6)
Telephoto lens	60	(15.2 × 11.4)	(16.5 × 12.4)
Telephoto lens	120	(7.6×5.7)	(8.3×6.2)
Macro and microscopic lenses	Minimum object distance (mm)	Pixel size (μm)	Pixel size (µm)
Close-Up 0.2× for 30 mm	70	75	51
Close-Up 0.5× for 30 mm	33	42	29
Close-Up 0.5× for 60 mm	78	42	28
Microscopic lens M=1.0×	50	25	17

Headquarters

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