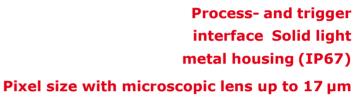
VarioCAM® HD head sl

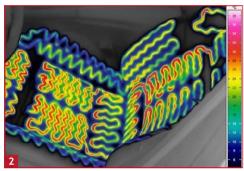
Thermographic Solution for Use in Industry and Research

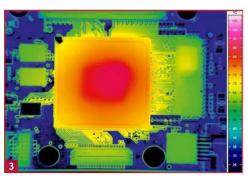


INFRATEC.

Europe's leadingspecialist for infrared sensors and measurement technology







- 1) VarioCAM® HD head
- 2) Seat heater
- 3) Assembled circuitboard

R. 10/30 LW JENOUS INCOME TO THE PARTY OF TH

www.InfraTec.



Spectral range	(7.5 14)μm		
Detector	Uncooled Microbolometer Focal Plane Array		
Detector format (IRpixels)	(1,024×768), depends on model		
	(640 × 480), depends on model		
Temperature measuringrange	(-40 120)°C*		
Measurement accuracy	±1°Cor±1%*		
Temperature resolution @ 30 °C	Up to 0.02 K*		
Framerate	8Hz		
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		
Realtime storage*	Computer-aided storage of radiometric sequences by GigE interface with up to 240 Hz		
Lensmount	Bayonet to comfortably switch objectives, automatic objective detection and data transfer;		
	screw-on interface*		
Focus	Motor-driven, automatic or manual, accurately adjustable		
Zoom	Up to 32× digital, stepless		
Dynamicrange	16bit		
Interfaces; Trigger*	GigE Vision*, DVI-D (HDMI), C-Video, RS232, USB 2.0, WLAN*; 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		
Protectiondegree	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 × 90 × 94) mm; 1.15kg (basic configuration with standard lens)		
Further functions	Camera internal emissivity correction, shutter free operation, use of various colour sets, contrast		
	enhancement, user profile, languageselection		
Analysis andevaluation software*	IRBIS®3,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*		

 $\hbox{^*}\, Depending on model$

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 al- lows 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.

Security engineering and early fire detection

Application examples:

High-resolution thermography in research and development

Monitoring and controlling of

Stationary microthermography

fast-runningprocesses

Detectorformat(IRpixels)		(640×480)	(1,024×768)
Lens	Focal length(mm)	FOV(°)	FOV(°)
Superwide-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)

Macroand microscopidenses	Minimumobject 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

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 (tollfree) E-mail thermo@InfraTec-infrared.com