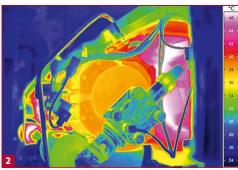
## VarioCAM® High Definition

Thermographic Solution for Universal Use

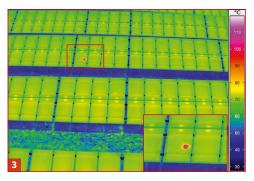


## InfraTec

Europe's leading specialist for infrared sensors and measurement technology



Microbolometer camera 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
Integrated light-sensitive digital 8 MP camera
5.6" colour TFT display with (1,280 × 800) pixels
Laser rangefinder and GPS sensor
Wireless camera control and data acquisition via WLAN
Made in Germany



- 1) VarioCAM® HD from Jenoptik
- 2) Transmission
- 3) Photovoltaic power plant

Manual

Level / Range
Max. / Min.
Input
Mode
Zoom
Palette
Elements
Isotherms
Filter

eps=1.00 Tenv=22.3 Tpath=25.1 Dist=1.4m

Adjust Level/Span

www.InfraTec.eu





Spectral range	(7.5 14) μm		
Detector	Uncooled Microbolometer Focal Plane Array		
Detector format (IR pixels)	$(1,024\times768)$ with built-in opto-mechanical high-precision scan unit $(2,048\times1,536)^*$		
	(640 $\times$ 480) with built-in opto-mechanical high-precision scan unit (1,280 $\times$ 960)*		
Temperature measuring range	(-40 1,200) °C, > 2,000 °C*		
Measurement accuracy	± 1 °C or ± 1 %*, otherwise ± 1.5 °C or ± 1.5 %		
Temperature resolution @ 30 °C	Better than 0.03 K*, otherwise better than 0.05 K		
Frame rate	Fullframe: 30 Hz (1,024 $\times$ 768), subframe formats*: 60 Hz (640 $\times$ 480) / 120 Hz (384 $\times$ 288) / 240 Hz (1,024 $\times$ 96) in the subframe formats.		
	Fullframe: 60 Hz (640 $\times$ 480), subframe formats*: 120 Hz (384 $\times$ 288) / 240 Hz (640 $\times$ 120)		
Image storage	SDHC-card, GigE-Vision up to 240 Hz, internal real-time storage		
Lens mount	Bayonet to comfortably switch objectives, automatic objective detection and data transfer		
Focus	Motor-driven, automatic or manual, accurately adjustable, laser-supported autofocus		
Zoom	Up to 32x digital, stepless		
Digital colour video camera	8 Megapixels, with a LED video light, vision mixer and cross-fade feature		
Dynamic range	16 bit		
Interfaces	GigE-Vision, DVI-D, C-Video, RS232, Trigger, Analog output*, Digital I/O*,WLAN, USB 2.0, Bluetooth, GPS		
Tripod adapter	1/4 " photo thread		
Power supply	Lithium-lon battery (quick rechargeable, with status display), AC adapter		
Laser range finder*	Red semiconductor laser, laser safety class 2, range up to 70 m		
Display	5.6 " colour TFT display (1,280 × 800) pixels, daylight suited		
Colour viewfinder*	Tiltable colour viewfinder with diopter compensation		
Single-handed operation	Intuitive operation with ergonomically arranged function keys and multifunctional joystick,		
	programmable keys		
Storage and operation temperature	(-40 70) °C, (-25 50) °C		
Protection degree	IP54, IEC 529		
Impact strength/vibration resistance in operation	25 G (IEC 68 - 2 - 29), 2 G (IEC 68 - 2 - 6)		
Dimensions, weight	(210 × 125 × 55) mm, 1.7 kg		
Automatic functions	Autofocus, permanent autofocus, automatic distance indicator, distance-dependent calculation		
	of permitted pixel size, Autoimage, Autolevel, Min./Max. temperature alarm: visual/acoustic, alarm		
	triggered image storage		
Measurement functions	8 free choosable, movable measurement fields/-points, automatic hot/cold spot display: global and		
	internal defined measurement fields, differential temperature measurement: temporally/locally,		
	temperature profile, histogram, differential image, isotherms display		
Further functions	EverSharp function (multifocus), shutter-free operation, temperature alarm, image merging, synchro-		
	nous display of thermal and visual image in real-time		
Analysis and evaluation software*	IRBIS® 3, IRBIS® 3 professional, IRBIS® 3 view, IRBIS® 3 plus, IRBIS® 3 remote HD, IRBIS® 3 online,		
	IRBIS® 3 process, IRBIS® 3 active, IRBIS® 3 mosaic, IRBIS® 3 vision, FORNAX 2.0		

\* Depending on model

For the first time a handheld thermographic microbolometer cameras with a **detector format of (1,024** × **768) IR pixels** is available: The **VarioCAM® HD** is manufactured by the **German manufacturer Jenoptik**. It comes with a resolution 2.5 higher than pevious high-class models. In connection with the outstanding thermal resolution and **unique precision optics**, crystal clear high-precision thermal images can be taken. Large test objects can be cap-

tured thermographically with unprecedented efficiency.

Detector format (IR pixels)		(640×480)	(1,024×768)
Lens	Focal distance (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)	(32.4×25.6)
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	Min. object distance (mm)	Pixel (μm)	Pixel (μm)
Close-Up 0.2× for 30 mm	69.7	75	51
Close-Up 0.5× for 30 mm	32.6	42	29
Close-Up 0.5× for 60 mm	78.3	42	28
Microscopic lens M=1.0×	40	25	17

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