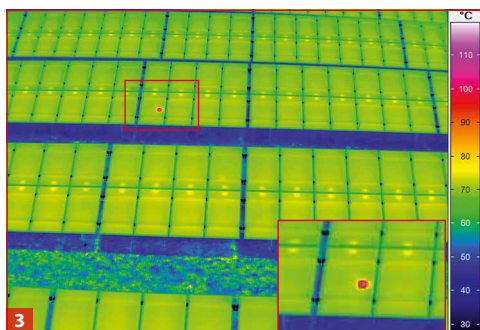
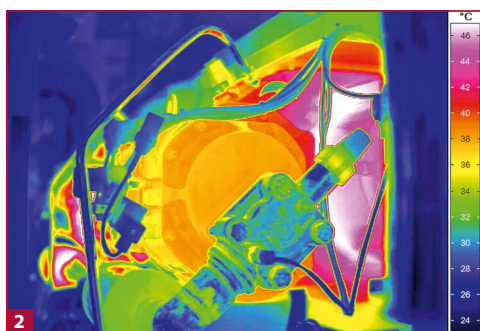


VarioCAM® High Definition

Thermographic Solution for Universal Use

InfraTec

Europe's leading specialist for infrared sensors and measurement technology



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

Microbolometer camera with up to $(1,024 \times 768)$ IR pixels

Opto-mechanical MicroScan with up to $(2,048 \times 1,536)$ 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 $(1,280 \times 800)$ pixels

Laser rangefinder and GPS sensor

Wireless camera control and data acquisition via WLAN

www.InfraTec.eu



Made in Germany



Spectral range	(7.5 ... 14) μm
Detector	Uncooled Microbolometer Focal Plane Array
Detector format (IR pixels)	(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)*
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	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 × 480), sub-frame formats*: 120 Hz (384 × 288) / 240 Hz (640 × 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-Ion 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, temperature profile, histogram, differential image, isotherms display
Further functions	EverSharp function (multifocus), shutter-free operation, temperature alarm, image merging, synchronous 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** comes with a resolution 2.5 higher than previous 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 captured 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		Pixel (μm)	Pixel (μm)
Close-Up 0.2x for 30 mm	70	75	51
Close-Up 0.5x for 30 mm	33	42	29
Close-Up 0.5x for 60 mm	78	42	28
Microscopic lens M=1.0x	50	25	17