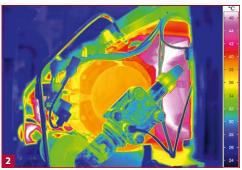
VarioCAM® High Definition

Thermographic Solution for Universal Use

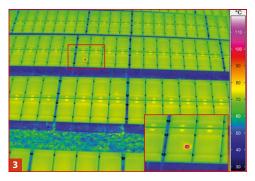


INFRATEC.

Europe's leading specialist for infrared sensors and measurement technology



Microbolometer camera with up to $(1,024\times768)$ IR pixels Opto-mechanical MicroScan with up to $(2,048\times1,536)$ 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 $(1,280\times800)$ pixels Laser range finder and GPS sensor Wireless camera control and data acquisition via WLAN



- 1) VarioCAM® High Definition
- 2) Transmission
- 3) Photovoltaic power plant

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

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

Adjust Level/Span

www.InfraTec.eu

Wade 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)*	
Temperature measuring range	(-40 2,000) °C*	
Measurement accuracy	± 1 °C or ± 1 %*	
Temperature resolution @ 30 °C	Up to 0.02 K*	
Frame rate	$Full-frame: 30Hz(1,024\times768), sub-frameformats^*: 60Hz(640\times480)/120Hz(384\times288)/240Hz(1,024\times96)/240Hz(1,024\times96)/240Hz(1,024\times168)/240$	
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	
Lens mount	Bayonet to comfortably switch objectives, automatic objective detection and data transfer	
Focus	Motor-driven, automatic or manual, accurately adjustable, laser-supported autofocus*	
EverSharp function*	Multifocal recording allows for maximum extend of sharp focus	
Zoom	Up to 32× digital, stepless	
Digital colour video camera	8 Megapixels, LED video light, vision mixer and cross-fade feature	
Dynamic range	16 bit	
Interfaces; Trigger*	GigE Vision*, DVI-D (HDMI), C-Video, RS232, USB 2.0, WLAN*, Bluetooth*; 2 × digital I/O, 2 × analogue I/O	
Tripod adapter	1/4" photo thread	
Power supply	Standard Lithium-Ion battery, energy save mode, AC adapter, (12 24) V DC	
Integrated microphone and speaker	Voice annotation feature, replay and audio dubbing	
Laser range finder*	Semiconductor laser red, laser protection class 2, range up to 70 m	
Integrated GPS sensor*	Image integrated storage of position data	
Display	5,6" colour TFT display (1,280 \times 800) pixel, 170° rotatable and 280° revolvable, daylight suited, incl. flip mirror for the colour TFT display (1,280 \times 800) pixel, 170° rotatable and 280° revolvable, daylight suited, incl. flip mirror for the colour TFT display (1,280 \times 800) pixel, 170° rotatable and 280° revolvable, daylight suited, incl. flip mirror for the colour TFT display (1,280 \times 800) pixel, 170° rotatable and 280° revolvable, daylight suited, incl. flip mirror for the colour TFT display (1,280 \times 800) pixel, 170° rotatable and 280° revolvable, daylight suited, incl. flip mirror for the colour TFT display (1,280 \times 800) pixel, 170° rotatable and 280° revolvable, daylight suited, incl. flip mirror for the colour TFT display (1,280 \times 800) pixel, 170° rotatable and 280° revolvable, daylight suited, incl. flip mirror for the colour TFT display (1,280 \times 800) pixel, 170° rotatable and 280° revolvable, daylight suited, incl. flip mirror for the colour for the colour for the colour flip mirror for the colour flip mirror	
Colour viewfinder*	Tiltable colour viewfinder with diopter compensation	
Single-handed operation	Intuitive operation with ergonomically arranged function keys and multifunctional joystick,	
	programmable keys	
$Protection \ degree; Storage \ and \ operation \ temperature$	IP54, IEC 60529; (-40 70) °C, (-25 55) °C	
Impact strength; vibration resistance in operation	25 G (IEC 68 - 2 - 29); 2 G (IEC 68 - 2 - 6)	
Dimensions; weight	$(210 \times 125 \times 155)$ mm; 1.6 kg (basic configuration with standard lens)	
Automatic functions	Autofocus, permanent autofocus, automatic distance indicator, distance-dependent display of pixel	
	size to avoid geometrically related measurement errors, autoimage, autolevel, min./max. temperature $% \left(1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$	
	alarm: visual/acoustic, alarm triggered image storage	
Measurement functions	8 freely choosable, movable measurement fields/-points, automatic hot/cold spot display: globally	
	and internally defined measurement fields, differential temperature measurement, temperature profile,	
	histogram, differential image, isotherms display	
Further functions	Camera internal emissivity correction, shutter free operation, use of various colour sets, contrast	
	enhancement, user profile, language selection, user-specific comment data base, digital voice recording	
Analysis and evaluation software*	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 model

Detector format (IR pixels)		(1,024×768)
Lenses	Focal length (mm)	FOV (°)
Super wide-angle lens	7.5	(98.5 × 82.1)
Wide-angle lens	15	(60.3×47.0)
Standard lens	30	(32.4×24.6)
Telephoto lens	60	(16.5 × 12.4)
Telephoto lens	120	(8.3×6.2)
Macro and microscopic lenses	Minimum object distance (mm)	Pixel size (μm)
Close-Up 0.2× for 30 mm	70	51.3
Class Up 0 Ev for 30 mm	33	28.2
Close-Up 0.5× for 30 mm		
Close-Up 0.5× for 60 mm	78	28.3

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