

VarioCAM® HD Z security

Infrared Thermography System with 6× Infrared Zoom Lens



- 1) VarioCAM® HD Z – module with zoom lens
- 2) Monitoring of security zones
- 3) 6× infrared zoom image

INFRA TEC.

Europe's leading specialist for infrared sensors and measurement technology

Microbolometer detector with (1,024 × 768) IR pixels

Spectral range (7.5 ... 14) μm

High-performance zoom lens with 25 to 150 mm focal length

Real-time imaging up to 30 Hz full-frame rate

Customised installation versions possible

Special protective housings available

Made in Germany



www.InfraTec.eu

www.InfraTec-infrared.com

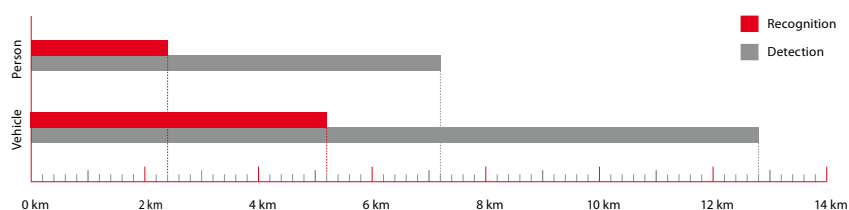


Spectral range	(7.5 ... 14) μm
Pitch	17 μm
Detector	Uncooled microbolometer focal plane array
Detector format (IR pixels)	(1,024 \times 768)
Aperture ratio	f/1.4
Temperature measuring range	(-20 ... 550) $^{\circ}\text{C}$, up to 1,200 $^{\circ}\text{C}$
Measurement accuracy	± 5 $^{\circ}\text{C}$ or ± 5 %
Temperature resolution @ 30 $^{\circ}\text{C}$	Better than 0.1 K
Frame rate	Full frame: 30 Hz, sub frames*: 60 Hz (640 \times 480) / 120 Hz (384 \times 288) / 240 Hz (1,024 \times 96)
Storage media	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
Focus	Motor-driven, accurately adjustable
Zoom (optical / digital)	6 \times stepless / up to 32 \times
Lens focal length	(25 ... 150) mm
Field of view	41.5 $^{\circ}$ @ 25 mm ... 6.6 $^{\circ}$ @ 150 mm (HFOV)
Minimum object distance	< 5 m
Dynamic range	16 bit
Max. detection range (vehicle / person)	12.8 / 7.2 km
Max. recognition range (vehicle / person)	5.2 / 2.4 km
Interfaces	GigE Vision compatible, RS232, Trigger (TTL)
Tripod adapter	1/4" photo thread
Power supply	(12 ... 15) V DC
Storage and operation temperature	(-40 ... 70) $^{\circ}\text{C}$, (-25 ... 50) $^{\circ}\text{C}$
Dimensions (incl. mounting support); weight	(402 \times 141 \times 148) mm; 3.4 kg*
Further functions	Camera internal emissivity correction, use of various colour sets, contrast enhancement, user profile, language selection
Analysis and evaluation software	IRBIS [®] 3 online, IRBIS [®] 3 plus, IRBIS [®] 3 professional, IROD monitoring software

* Depending on model

The high-resolution infrared camera system **VarioCAM[®] HD Z security** by InfraTec is the world's first commercially available radiometric thermal imaging camera providing a motorised 6 \times **infrared zoom lens** for the spectral range of (7.5 ... 14) μm . Equipped with an uncooled FPA detector, it provides brilliant 16 bit **thermal images of the highest quality with (1,024 \times 768) IR pixels**. This combination of HD format thermal images and the enormously efficient zoom lens opens the door to surveillance and monitoring tasks across medium and long distances with an unprecedented attention to detail for users – even in the case of adverse visual conditions and at night. The equipment with high-quality supplementary components, as for example ATEX-conform protective housings, pan-tilt heads as well as CCTV cameras, supports the efficient use of this system 24 hours a day.

Due to different equipment options, the system can be configured just as needed for various tasks: Automatic threshold detection and signalling as well as digital real-time image acquisition via Gigabit Ethernet are just two of the numerous camera functions. By interacting with the powerful **IROD monitoring software**, an efficient and **easy-to-use 24/7** monitoring system is created, which can also be integrated into established network structures. The extremely robust system design allows low-service continuous operation over many years, even under adverse environmental conditions such as exposure to dust, humidity, heat and cold.



Fields of application:

- Border protection
- Monitoring and protection of critical infrastructure
- Long distance reconnaissance
- Industrial plant protection, property protection

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