

VarioCAM[®] HD head security

Infrared Thermal Imaging System for Security and Monitoring Tasks



- 1) Vehicle-based surveillance
- 2) Monitoring of a parking lot

InfraTec

Europe's leading specialist for infrared sensors and measurement technology

Uncooled detector with (1,024 x 768) IR pixels

Optomechanical Microscan with (2,048 x 1,536) IR pixels

Spectral range (7.5 ... 14) μm

Personnel detection range 6.1 km

Vehicle detection range 10.7 km

Solid light metal housing (IP67)

Quality from Germany

No US export license required



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NEW

Spectral range	(7.5 ... 14) μm
Detector,	Uncooled Microbolometer Focal Plane Array
Detector format (IR pixels)	(1,024 x 768), optomechanical Microscan to (2,048 x 1,536)*
Temperature measuring range	(-40 ... 1,200) $^{\circ}\text{C}$, optional > 2,000 $^{\circ}\text{C}$
Measurement accuracy	$\pm 1.5^{\circ}\text{C}$ or $\pm 1.5\%$
Temperature resolution @ 30 $^{\circ}\text{C}$	Better than 0.05 K
Frame rate	30 Hz (Full frame) / 60 Hz (640 x 480) / 120 Hz (384 x 288) / 240 Hz (1,024 x 96)
Standard lens (field of view)	1.0/30 mm, (32 x 25) $^{\circ}$
Zoom	Up to 32x (digital)
Personnel detection range	Up to 6.1 km
Vehicle detection range	Up to 10.7 km
Image storage	GigE Vision
Dynamic range	16 Bit
Interfaces	DVI-D, C-Video, RS232, GigE Vision
Power supply	AC adapter, PoE*
Operation temperature, encapsulation	(-15 ... 50) $^{\circ}\text{C}$, IP54, IP67*
Dimensions	(190 x 90 x 94) mm
Weight (basic system without lens)	1.15 kg

*Depending on the particular camera configuration

The **thermographic high-resolution system VarioCAM[®] HD head security** is based on an **uncooled microbolometer FPA detector** of the latest generation with **(1,024 x 768) IR pixels** and was conceived for demanding monitoring and measurement tasks in stationary or vehicle-mounted operation. Images with resolutions of up to 3.1 Megapixels can be taken in combination with the integrated Microscan feature, which was designed for continuous operation. The VarioCAM[®] HD head security generates **brilliant 16-bit thermographic images of highest quality** and offers unprecedented measurement ranges and efficiency, especially during **day and night detection and identification of distant persons and vehicles**. 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 up to digital realtime image acquisition via Gigabit-Ethernet. The **all-weather light metal housing (IP67)** allows **trouble-free and inexpensive operation** under harsh weather conditions.

The **big standard temperature range**, a complete optical assortment as well as the extensive equipment and the **powerful IRBIS[®] 3 software** for thermographic data acquisition and evaluation make the VarioCAM[®] HD head security an **ideal tool for monitoring and investigation**.

With the application-specific configuration, this stationary thermographic system is even suited for tasks, which require continuous and automatic operation.

Application examples:

- Remote sensing and monitoring
- Integration in system solutions for ground vehicles, helicopters and maritime applications
- Undercover investigations from greater distances
- Stationary protection of critical infrastructure

Lenses

Detector type (pixel)	(1,024 x 768)	
Lens	Focal distance	FOV ($^{\circ}$)
Super wide-angle lens	7.5 mm	(99 x 82)
Wide-angle lens	15 mm	(67 x 50)
Standard lens	30 mm	(32 x 25)
Telephoto lens	60 mm	(16 x 12)
Telephoto lens	120 mm	(8 x 6)

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