VarioCAM® HD head security

Infrared Thermal Imaging System for Security and Monitoring Tasks



INFRATEC.

Europe's leading specialist for infrared sensors and measurement technology

Uncooled detector with up to $(1,024\times768)$ IR pixels Opto-mechanical MicroScan with up to $(2,048\times1,536)$ IR pixels Spectral range $(7.5\dots14)$ μ m Personnel detection range 6.1 km Vehicle detection range 10.7 km Solid light metal housing (IP67) No US export license required



Vehicle-based surveillance
 Monitoring of a parking lot



www.InfraTec.eu



Spectral range	(7.5 14) μm
Detector	Uncooled Microbolometer Focal Plane Array
Detector format (IR pixels)	(1,024 \times 768), with built-in opto-mechanical MicroScan unit (2,048 \times 1,536)*
	(640 \times 480), with built-in opto-mechanical MicroScan unit (1,280 \times 960)*
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: 30 Hz (1,024 \times 768), sub-frame formats*: 60 Hz (640 \times 480) / 120 Hz (384 \times 288) / 240 Hz (1,024 \times 96 Hz (1,024 \times 98 Hz (1,024 \times 96 Hz
	Full-frame: 60 Hz (640 \times 480), sub-frame formats*: 120 Hz (384 \times 288) / 240 Hz (640 \times 120)
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; screw-on
	interface*
Focus	Motor-driven, automatic or manual, accurately adjustable
Zoom	Up to 32× digital, stepless
Personnel detection range	Up to 6.1 km
Vehicle detection range	Up to 10.7 km
Dynamic range	16 bit
Interfaces; Trigger*	$\label{eq:Gigevision*} \textbf{GigE Vision*, DVI-D (HDMI), C-Video, RS232, USB 2.0, WLAN*; 2 \times digital I/O, 2 \times analogue I/O}$
Tripod adapter	1/4" photo thread
Power supply	AC adapter, (12 24) V DC, PoE*
Storage and operation temperature	(-40 70) °C, (-25 55) °C
Protection degree	IP54, IEC 60529, IP67 with screw-on interface*
Impact strength; vibration resistance in operation	25 G (IEC 68 - 2 - 29); 2 G (IEC 68 - 2 - 6)
Dimensions; weight	$(221 \times 90 \times 94)$ mm; 1.15 kg (basic configuration with standard lens)
Further functions	Camera internal emissivity correction, shutter free operation, use of various colour sets, contrast
	enhancement, user profile, language selection
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*

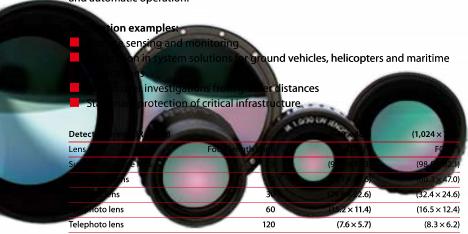
* Depending on model

The thermographic high-resolution system VarioCAM® HD head security 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.



Headquarters

InfraTec GmbH Infrarotsensorik und Messtechnik Gostritzer Str. 61 – 63 01217 Dresden / GERMANY Phone +49 351 871-8630

Fax +49 351 871-8630 Fax +49 351 871-8727 E-mail thermo@InfraTec.de

USA office

InfraTec infrared LLC 5048 Tennyson Pkwy. Plano TX 75024 / USA Phone +1 844-226-3722 (toll free) E-mail thermo@InfraTec-infrared.com