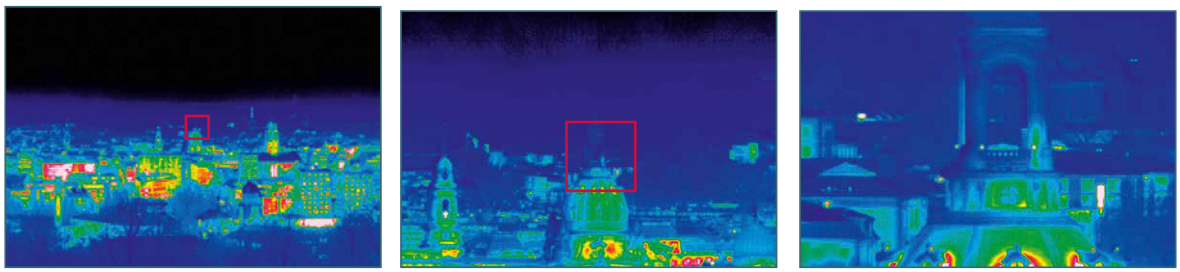
ImageIR® 9300
High-end thermography camera

Benefits & Features

- Cooled detectors with up to (1,280 × 1,024) IR pixels
- Spectral range (3.6 ... 4.9) µm
- 30× infrared zoom lens
- Detection range of 15 km for persons
- Detection range of 18 km for vehicles



Church of Our Lady in Dresden, lens focal length (28 ... 850) mm

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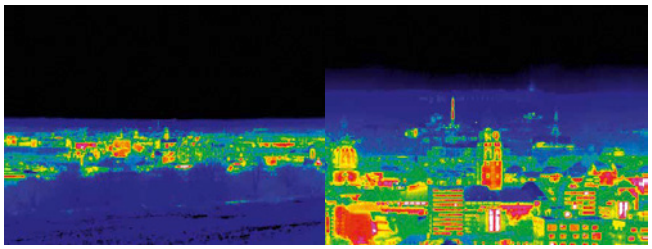
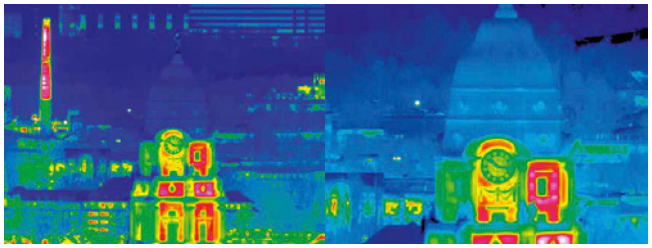
InfraTec

ImageIR® 9300
High-end thermography camera

The ImageIR® camera series is a high-precision measurement solution that has been an indispensable tool in high-quality research, development and automation solu-tions for many years. There is more beyond high-end infrared camera series ImageIR®: The combination of this thermal imaging system with a premium 30× zoom lens facilitates complex observation and investigation, such as border control, vehicle observation and monitoring of the environment or animals. The detection range is outstanding: vehicles can be detected up to 18 km and persons up to 15 km.

The rugged and exact power zoom together with the high-performance 30× zoom lens achieves a continuously adjustable field of view from (39.8 × 32.3)° down to (1.3 × 1.0)° with a detector format of (1,280 × 1,024) IR pixels. Therefore, also objects being far away can be displayed with a high-resolution infrared image. The camera versions ImageIR® 8300 Z and ImageIR® 9300 Z with detector formats of (640 × 512) and (1,280 × 1,024) IR pixels are available. The customisable software interface of-fers time coded real-time playback.





Dresden town hall, lens focal length (28 ... 850) mm

Model	ImageIR® 8300 Z	ImageIR® 9300 Z
Spectral range	(3.6 ... 4.9) µm	
Pitch	15 µm	
Detector	InSb	
Detector format (IR pixels)	(640 × 512)	(1,280 × 1,024)
Image acquisition	Snapshot	
Selection mode	ITR / IWR	
Aparture ratio	f/5.5	
Detector cooling	Stirling cooler	
Temperature measuring range	(-10 ... 200) °C, up to 500 °C*	
Temperature resolution @ 30 °C	0.02 K	
Frame rate (full screen mode/half screen mode/ quarter screen mode/ sub-frame)*	200/570/1,000/ 4,700 Hz (14 bit), 200/670/1,200/ 5,000 Hz (13 bit)	50/200/390/ 3,400 Hz
Window mode	yes	
Focus	Motor focus with absolut focussing	
Focusing time	300 m up to ∞: ≤ 0.5 s	
Lens focal length	(28 ... 850) mm (30× optical zoom)	
Zoom setting time	(100 ... 850) mm: ≤ 2 s	
Field of view	(19.8 × 15.9)° ... (0.6 × 0.5)°	(39.8 × 32.3)° ... (1.3 × 1.0)°
Minimum object distance	(3 ... 50) m	
Max. detection range (vehicle / person)	18 / 15 km	
Max. identification range (vehicle / person)	12 / 9.5 km	
Dynamic range	13 / 14 Bit	14 Bit
Integration time	(0.6...20,000) µs	(0.5...18,000) µs
Multi integration time*	yes	
Image synchronisation	Internal, IRIG-B, external	
Interfaces	GigE-Vision compatible, RS232, USB 2.0	
Trigger	SyncIN, 2 IN* / 2 OUT*, IRIG*	
Tripod adapter	8 × M6	
Power supply	24 V DC, wide-range power supply (100 ... 240) V AC	
Storage temperature	(-40 ... 70) °C, (-20 ... 50) °C	
Protection degree	IP54, IP65*	
Dimensions	(360 × 240 × 270) mm	
Weight	17.5 kg	

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