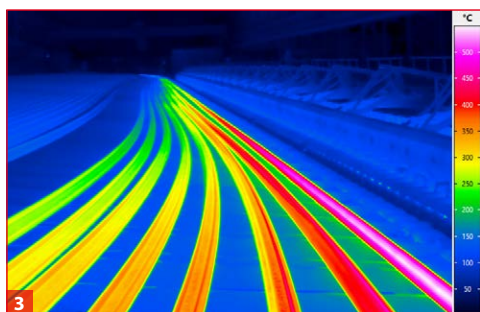
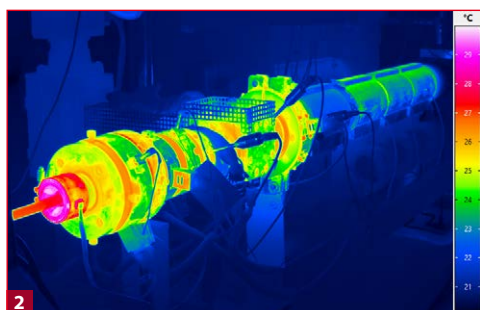


# PIR uC LWIR

Stationary Thermographic Cameras for Industrial Use

## INFRA<sup>TEC</sup>.

Europe's leading specialist for infrared sensors and measurement technology



- 1) Optimisation of drive assemblies
- 2) Production in the plastics industry
- 3) Coating of railway rails

Microbolometer detector with up to (640 × 512) IR pixels

Longwave spectral range (7.5 ... 14)  $\mu\text{m}$

IR frame rate up to 60 Hz

Temperature measuring range of (-35 ... 545)  $^{\circ}\text{C}$

Robust industrial cameras with protection degree IP65

Compact light metal housing

Attractive price-performance ratio



[www.InfraTec.eu](http://www.InfraTec.eu)

Made in Germany

Spectral range	(7.5 ... 14) $\mu\text{m}$
Pitch	17 $\mu\text{m}$ / 25 $\mu\text{m}$
Detector	Uncooled microbolometer focal-plane array
Detector format (IR pixels)	(640 $\times$ 512) (320 $\times$ 256)
Temperature measuring range	(-35 ... 545 $^{\circ}\text{C}$ )
Measurement accuracy	$\pm 5$ $^{\circ}\text{C}$ or $\pm 5$ %
Temperature resolution @ 30 $^{\circ}\text{C}$	0.05 K
Frame rate (full-frame)	30 Hz (640 $\times$ 512) 60 Hz (320 $\times$ 256)
Data interface	RS232, GigE-Vision, 1 $\times$ DI, 1 $\times$ DO
Tripod adapter	1/4" photo thread
Power supply	Power over Ethernet (PoE)
Power consumption	approx. 2.5 W
Storage and operation temperature	(-40 ... 70 $^{\circ}\text{C}$ ), (-15 ... 60 $^{\circ}\text{C}$ )*
Protection degree	IP65
Protective Housing	Solid industrially-suited metal housing
Dimensions, weight	( $\varnothing$ 100 $\times$ 255) mm, approx. 1.8 kg

\* Depending on model

The outer appearance suggests immediately – the **PIR uc LWIR** from InfraTec has proved itself most of all in particularly harsh conditions. The robust light metal housing reliably protects the inside of the models in this **camera series for the longwave spectral range** from climatically and mechanically extreme conditions. High temperatures, dust, dirt – these thermographic cameras with protection degree **IP65** are able to withstand very much. This qualifies them for numerous applications, such as in the area of process monitoring and security technology, which require a stationary camera for the **contactless temperature measurement on many different surfaces**. In addition to this robustness, the compact design and small dimensions simplify the integration into diverse industrial processes.

Uncooled microbolometer focal-plane array detectors with **(320  $\times$  256)** and **(640  $\times$  512) IR pixels** serve as a basis of the camera series. The choice between multiple detector formats highlights the versatility of the PIR uc LWIR. Users are offered numerous additional options in terms of further equipment features. These include the wide range of lenses, miscellaneous protective windows, an integrated air purge as well as extensive accessories.

Easy handling, enormous resistance of the cameras in continuous operation and low maintenance already characterise the PIR uc LWIR as a standalone solution. Above all, however, such characteristics qualify these models as **components of turn-key thermography automation systems**. These can be **combined** so flexibly with **numerous evaluation and analysis programs of the IRBIS<sup>®</sup> 3 software range**. Thus, users can adjust the control of the cameras and the recording of data optimally to their specific requirements.

#### Application examples

- Assembly control and process monitoring
- Monitoring of machinery and equipment
- Real-time thermography in research and development
- Early fire detection and security technology

Detector format (IR pixels)	(320 $\times$ 256)	(640 $\times$ 512)
Lens	FOV ( $^{\circ}$ )	FOV ( $^{\circ}$ )
Super-wide-angle lens	(63 $\times$ 50)	(90 $\times$ 69)
Wide-angle lens	(48 $\times$ 39)	(45 $\times$ 37)
Standard lens	(24 $\times$ 19)	(25 $\times$ 20)
Telephoto lens	(13 $\times$ 11)	(12 $\times$ 10)
Super-telephoto lens	(8 $\times$ 6)	-



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