



Entry Level Stationary Thermal Imaging for Industry and Research

640 4**8**0 Detector

Detector Format

Thermographic images with high resolution for temperature measurement



IR-Frame Rate

Analysis of temperature changes and dynamic processes



Thermal Resolution

Detection of small temperature differences



Optical Assortment

Wide range of lenses for optimal adaptation of the image geometry to the measuring situation



Light weight

Extremely small and robust light metal housing



Comprehensive control and processing tools for a wide variety of measurement tasks and areas of application

InfraTec's radiometric infrared camera module PIR uc 605 is designed for universal use and enables the entry into stationary thermal imaging for research and development as well as into process optimisation.

It is based on an uncooled microbolometer FPA detector with (640×480) IR pixels. It supports easy integration into existing systems with its low weight, a very small and robust light metal housing and the SDK.

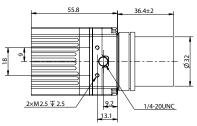
With the PIR uc 605 users can choose between different lenses. This allows the camera to be optimally adapted to the respective measurement task. The PIR uc 605's modern interface concept allows convenient camera control and data acquisition. Images can be stored and processed in real time on a PC via the Ethernet interface at image frequencies of up to 25 Hz.

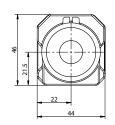
In combination with InfraTec's control and analysis software solutions of the IRBIS® 3 family, PIR uc 605 is a versatile tool for numerous monitoring and measurement tasks in production as well as for computer-aided laboratory applications.

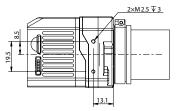
Technical Specifications

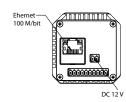
Connection	(0 14)		
Spectral range	(8 14) μm		
Pitch	17 μm		
Detector	Uncooled microbolometer focal-plane array		
Detector format (IR pixels)	(640×480)		
Temperature measuring range	(-20 400) °C, up to 1,000 °C*		
Measurement accuracy	± 5 K (0 100) °C, ± 5 % (< 0 respectively > 100) °C		
Temperature resolution @ 30 °C	≤ 0.06 K		
Frame rate	25 Hz (640 × 480)		
Image storage	To hard disk (Notebook)		
Focus	Manual		
Lens focal length	5 mm**, 10 mm, 20 mm, 50 mm		
Interfaces	Ethernet RJ45, 100 BaseT		
Trigger	Software-Trigger		
Tripod adapter	1/4" photo thread		
Power supply	12 (9 15) V DC		
Power consumption	<3W		
Storage and operation temperature	(-45 65) °C, (-20 60) °C		
Protection degree	IP40		
Dimensions; weight	(55.8×44×46) mm; < 110 g (each without a lens)		
Protective housing	Robust metal housing		
Analysis and evaluation software	IRBIS® 3 plus*, IRBIS® 3 professional*, IRBIS® 3 online*, SDK V4* (LabVIEW*, MATLAB*)		

* Depending on model, ** Temperature resolution different







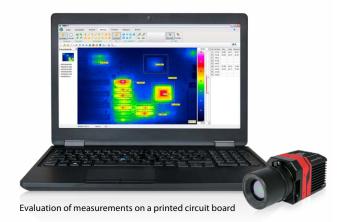


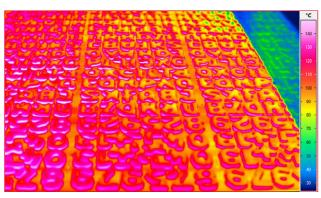
Housing	dimensions	of the	PIR uc	605
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Lenses	Focal length (mm)	FOV (°)	IFOV (mrad)
Super wide-angle lens	5	(95×78)	3.40
Wide-angle lens	10	(59×46)	1.77
Standard lens	20	(32×24)	0.89
Telephoto lens	50	(12×9)	0.34

Starter kit

- Camera with lens
- 12 V power supply
- Tabletop tripod
- 1 m Ethernet cable
- I/O connector
- Software IRBIS® online and IRBIS® plus





Production of bakery products (assembly line)

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Headquarters

InfraTec GmbH Infrarotsensorik und Messtechnik Gostritzer Straße 61 – 63 01217 Dresden / GERMANY

Phone +4 E-mail the

+49 351 82876-610 thermo@InfraTec.de www.InfraTec.eu USA office

Phone +1 844-226-3722 (toll free)
E-mail thermo@InfraTec-infrared.com
www.InfraTec-infrared.com

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