



TarislR[®] mini

When Size Matters!



Detector Format

Uncooled microbolometer FPA detector; 12 μm pitch



IR-Frame Rate Analysis of extreme temperature changes and gradients in full frame



Measurement Accuracy Highly accurate and repeatable measurements



Thermal Resolution Precise detection of smallest temperature differences



GigE Interface For loss-free real-time data transmission and analysis



Rugged Light Metal Housing Easy and economical installation Designed for universal use, the compact camera TarisIR[®] mini with the corresponding IRBIS[®] software from InfraTec enables entry-level access to stationary thermography at an excellent price-performance ratio. The radiometrically calibrated infrared camera is based on an uncooled microbolometer FPA detector of the latest generation with (640 × 480) IR pixels and a pixel pitch of only 12 μ m. In combination with the high thermal resolution of 20 mK, the camera provides unprecedented image quality in this camera segment with exceptionally sharp detail.

The TarislR[®] mini is designed for uncompromising continuous operation. It provides reliable thermographic real-time image data that can be operated in any position with a full-frame rate of up to 50 Hz. The camera measures in the long-wave atmospheric window of (8 ... 14) μ m, making it well suited for monitoring applications in outdoor areas. Algorithms specially developed for this detector technology in combination with a very comprehensive and sophisticated calibration process ensure precise results with a measurement accuracy of 2 %, even under difficult measurement conditions.

Technical Specifications

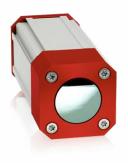
Spectral range	(814) μm	
Pitch	12 µm	
Detector	Uncooled microbolometer Focal Plane Array detector	
Detector format (IR pixels)	(640×480)	
Temperature measuring range	(-40 600) °C	
Measuring accuracy	± 2 K or ± 2 %**	
Temperature resolution @ 30 °C	0.02 K	
Frame rate	50 Hz or < 9 Hz	
Focus	Manual	
Dynamic range	16 bit	
Interfaces	GigE-Vision (RJ45), RS232	
Trigger	2x IN/OUT	
Tripod adapter	1/4" photo thread	
Power supply	(9 36) VDC or PoE	
Power consumption	Approx. 2.2 W @12 V, 2.7 W @PoE	
Storage and operation temperature	(-40 70) °C, (-25 50) °C	
Humidity (operation and storage)	Relative humidity (10 95) %, not condensing	
Housing, Protection degree	Light metal housing, IP40	
Dimensions; weight (without lens)	OEM module: (50 $ imes$ 30 $ imes$ 30) mm; 66 g	
	Camera: (50 × 55 × 55) mm; 220 g	
Further functions	In-camera emissivity correction, color chart, 3 ROI, 8 Isotherms, 4 user configurations	
	(plus a factory setting)	
Analysis and evaluation software	IRBIS® 3, IRBIS® 3 view, IRBIS® 3 plus*, IRBIS® 3 professional*, IRBIS® 3 control*, IRBIS® 3	
	online*, IRBIS® 3 process*, IRBIS® 3 active*, IRBIS® 3 mosaic*, IRBIS® 3 vision*	
	SDK V4* (LabVIEW*, MATLAB*)	

* Depending on model ** In selected measurement ranges

The extremely small and robust light metal housing and the lightweight design of the camera module enable simple integration. In system environments with installation situations with limited space, high dynamic loads and adverse environmental conditions, small size and lightweight design are key – and the TarisIR® mini offers both! Depending on the application, the module can be combined with different lenses and thus optimally configured to suit the measuring task.



Lenses	Focal length (mm)	Focusing range /	FOV (°)	IFOV (mrad)
		with close focus (mm)		
Ultra-wide-angle lens	4.9	(150 ∞)	(95 x 70)	2.45
Wide-angle lens	6.2	(350 ∞) / (175 ∞)	(75 × 55)	1.94
Wide-angle lens	9.2	(500 ∞)/(125 ∞)	(50 x 37)	1.30
Standard lens	13.6	(500∞)/(125∞)	(32 × 24)	0.88
Telephoto lens	25	(1,000 ∞)/(250 ∞)	(17.6 × 13.2)	0.48



TarisIR[®] mini for Integration Applications

The radiometric compact camera is characterised by very low power consumption and can be conveniently supplied with power via Ethernet (PoE). Thanks to the individual configurability and extremely small design TarisIR[®] mini is predestined for use in OEM solutions. It can be easily integrated into machines, systems and devices for monitoring and measuring tasks in process optimisation and quality assurance. The GenICam compatibility and included Software Development Kit (SDK) make this significantly easier.

The modern interface concept of the TarisIR[®] mini enables convenient camera control and data acquisition. Recordings can be saved and/or processed on a PC in real time at frame rates of up to 50 Hz via the GigE interface.

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

Phone +49 351 82876-610 E-mail thermo@InfraTec.de www.InfraTec.eu USA office InfraTec infrared LLC Phone +1 844-226-3722 E-mail thermo@InfraTec-infrared.com www.InfraTec-infrared.com