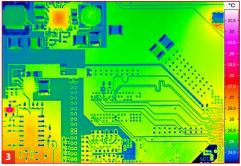
ImagelR® 7300

High-end Thermography Camera





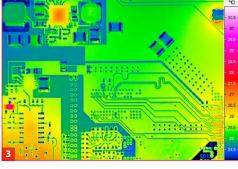


- 1) ImageIR® 7300
- 2) Software IRBIS® 3
- 3) Circuit board

INFRATEC.

Europe's leading specialist for infrared sensors and measurement technology

Cooled FPA photon detector with (640 × 512) IR pixels Frame rate up to 630 Hz, GigE Vision compatible Snapshot detector, internal trigger interface Extremely short integration times in the microsecond range Pixel size up to 2 µm Thermal resolution better than 0.025 K



www.InfraTec.eu

www.InfraTec-infrared.com





(2.0 5.7) μm	
15 μm	
MCT or InSb	
(640×512)	
Snapshot	
ITR/IWR	
f/3.0 or f/2.0	
Stirling cooler	
(-40 300) °C	
±2°C or ±2%	
Better than 0.025 K	
Up to 75/242/630 Hz	
Yes* (full frame / sub frame)	
Manual	
14 bit	
(1 20,000) μs	
GigE, HDMI*	
1 IN / 1 OUT, TTL	
1/4" and 3/8" photo thread, 2×M5	
24 V DC, wide-range power supply (100 240) V AC	
(-40 70) °C, (-20 50) °C	
IP54, IEC 60529	
(235×120×160) mm*; 3.3 kg (without lens)	
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*	

* Depending on model

Those, who are looking for a powerful thermographic camera to solve fundamental measurement and testing tasks in the fields of industry and science, that offers an impressive geometrical resolution will find the ImageIR $^{\circ}$ 7300 a perfect match. Its cooled **focal-plane array photon detector provides** (640×512) IR pixels and a pitch of 15 μ m at a constant active detector area. Users, who are testing very small structures on large-scale measurement objects, benefit from substantial plus in terms of efficiency compared to smaller detector formats. In addition, you can choose between **MCT and InSb** detectors.

The camera supports **recording and storing images and sequences with frequencies up to 630 Hz.** An internal trigger interface guarantees for precise, repeatable triggering of correspondingly fast processes. Two respective inputs and outputs are used to control the camera or to generate digital control signals for external devices. Depending on the character of the measurement and testing situation due to its modular design, most diverse thermographic software and high-quality lenses the ImageIR® 7300 is quite easy to adapt to the on-site conditions.

Lenses	Focal length (mm)	FOV (°)	IFOV (mrad)
Wide-angle lens	12	(43.6 × 35.5)	1.3
Standard lens	25	(21.7 × 17.5)	0.6
Telephoto lens	50	(11.0×8.8)	0.3
Telephoto lens	100	(5.5 × 4.4)	0.15
Telephoto lens	200	(2.7×2.2)	0.08

Macro and Microscopic lenses	Minimum object distance (mm)	Object size (mm)	Pixel size (μm)
Close-up for telephoto lens 50 mm	300	(58×46)	90
Close-up for telephoto lens 100 mm	500	(48×38)	75
Microscopic lens $M = 1.0 \times (3 \text{ versions})$	40/195/300	(9.6 × 7.7)	15
Microscopic lens M=3.0×	22	(3.2×2.6)	5
Microscopic lens M=8.0×	14	(1.2 × 1.0)	1.9

Headquarters

InfraTec GmbH

Infrarotsensorik und Messtechnik

Gostritzer Str. 61 – 63

01217 Dresden / GERMANY

Phone +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