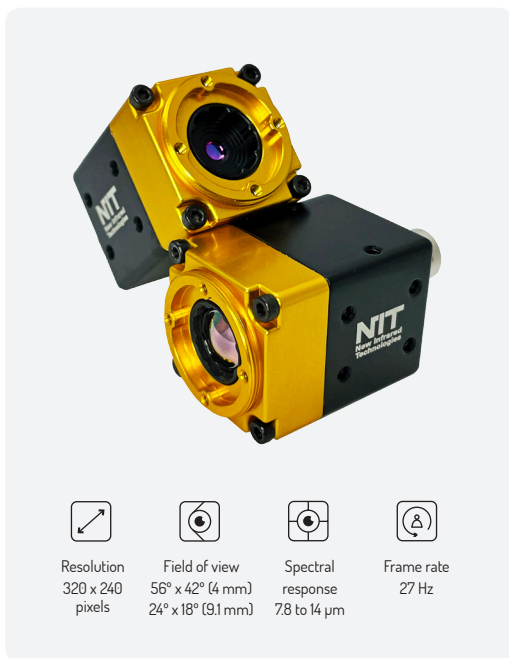


# LIR320

COMPACT SIZE, INCREDIBLE PRODUCTIVITY

**NIT**  
New Infrared  
Technologies



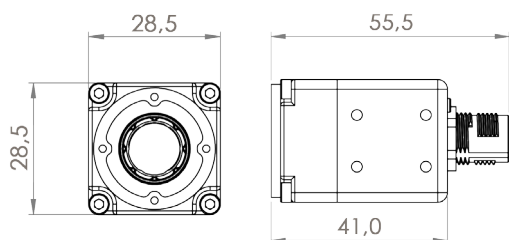
Thermal camera LIR320, with its compact dimensions, industrial connectivity, and capabilities oriented toward Industry 4.0, is the perfect system for Industrial IoT and Machine Vision applications.

With a resolution of 320x240 pixels and a state-of-the-art pixel pitch of 12 μm, it is offered with two optical options, 4 mm and 9.1 mm, giving you calibrated, high-quality thermal images at a frame rate of 27 Hz.

LIR320 camera is a cost-effective imaging solution that provides maximum performance in multiple industry applications.

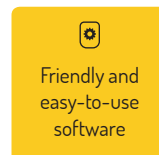
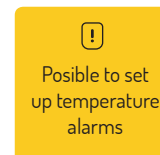
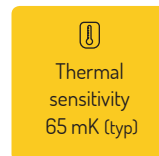
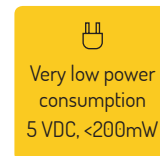
## ONE OF THE SMALLEST CAMERAS ON THE MARKET

Product dimensions (mm)



LIR320 is a SWaP-C camera (small size, weight, power and cost). Its dimensions are 28.5 x 28.5 x 55.5 mm and its weight is lower than 70 grams.

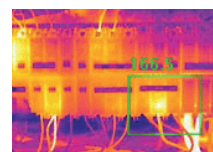
## AFFORDABLE PRICE TO EXCELLENT IMAGE QUALITY



Some LIR320 applications



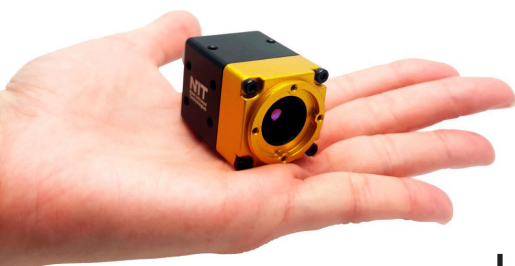
Control of installations of renewable and clean energy.



Predictive and preventive maintenance.

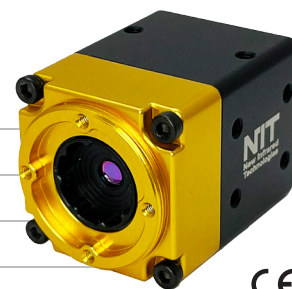


Quality and process control in different industries.



**LIR320**

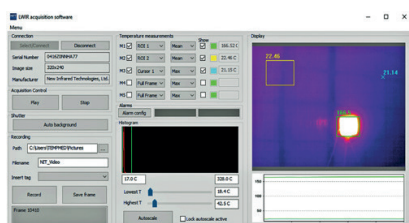
# LIR320



Sensor resolution	320 pixels (h) x 240 pixels (v)
Pixel pitch	12 µm
Spectral response	7.8 - 14 µm
Frame rate	27 Hz
Sensor sensitivity (NETD)	65 mK (typ), <100 mK @ 25°C
Microbolometer	V0x
Focal length	4 mm / 9.1 mm
Field of View	56° x 42° (4 mm lens) / 24° x 18° (9.1 mm lens)
Field of Regard	(@1 m distance) 96 cm x 72 cm (4 mm lens) / 42 cm x 32 cm (9.1 mm lens)
F-number (focal length/aperture)	F#1.00
Focus	Fixed
Object temperature range	-40°C to 330°C
Minimum focus distance	0.25 m (4 mm lens) / 0.90 m (9.1 mm lens)
Temperature Accuracy	±2°C or ±2 %, whichever is greater
Operating temperature range	-10°C to 60°C
Storage temperature range	-40°C to 80°C
Humidity	10% - 95% RH, non-condensing
Protection	IP65
Emissivity correction	Yes
Power	200 mW
Connector	Rugged USB industrial connector
Dimensions	28.5 x 28.5 x 55.5 mm
Weight	70 grams
Tripod mount	1/4 - 20 UNC
Fixing holes	Mechanical M2 and M3 fixing holes
Regulatory	ROHS, WEEE, REACH, CE

## Software

Acquisition Software - Visualization Software - Black hot / White hot spots  
 Image histogram - Store & analyze digital images / movies  
 Image live view - False color mode with various color profiles  
 Spot meters, time profiles - Thermography - Alarms  
**Includes Software Development Kit SDK (C++)**



Visit here for more information

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