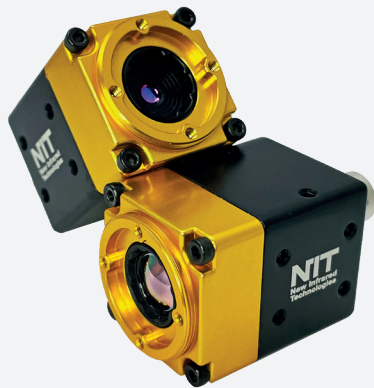


LIR320

COMPACT SIZE, INCREDIBLE PRODUCTIVITY

NIT
New Infrared
Technologies



Resolution
320 x 240



Field of view
56° x 42° (4 mm)
24° x 18° (9.1 mm)



Spectral
response
7.8 a 14 μ m



Frame rate
27 Hz

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

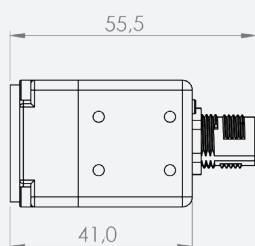
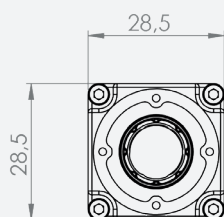
With a resolution of 320x240 pixels and state-of-the-art pixel pitch of 12 μ m, it is offered with two optical options, 4 mm and 9.1 mm, giving you calibrated, high-quality thermal images, at a frame rate of 27 Hz.

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

ONE OF THE SMALLEST CAMERAS OF THE MARKET

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 gr.

Product dimensions (mm)



LIR320

AFFORDABLE PRICE, EXCELLENT IMAGE QUALITY



Industrial connectivity

Easy and quickly installation

Very low consumption
5 VDC, <200 mW

Thermal sensitivity
65 mK (typ)

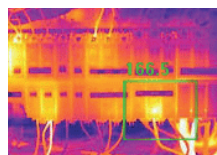
Possible to set up temperature alarms

Friendly and easy to use software

Some LIR320 applications



Control of installations with renewable and clean energies

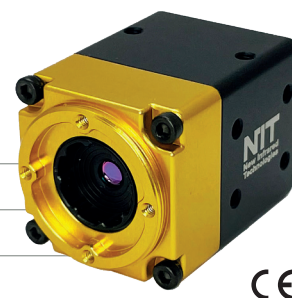


Predictive and preventive maintenance



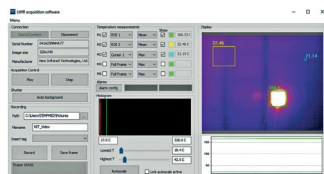
Quality and process control in different industries

LIR320



Sensor resolution	320 (h) x 240 (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
FOV	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	IP67
Emissivity correction	Yes
DRI ranges (4 mm lens)	333 m (D) / 83 m (R) / 48 m (I)
DRI ranges (9.1 mm lens)	758 m (D) / 190 m (R) / 108 m (I)
Power	200 mW
Connector	Rugged USB industrial connector
Protection	IP67
Dimensions	28.5 x 28.5 x 55.5 mm
Weight	70 g
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++)