

LIR320

COMPACT SIZE, INCREDIBLE PRODUCTIVITY



Resolution
320 x 240
pixels



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



Spectral
response
7.8 to 14 μ m



Frame rate
27 Hz

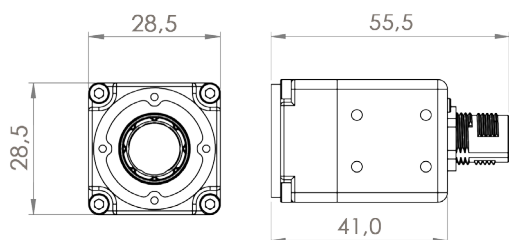
Thermal camera LIR320, with its compact dimensions, industrial connectivity, and capabilities oriented toward Industry 4.0, is the perfect system for Industrial IoT and Machine Vision applications.

With a resolution of 320x240 pixels and a state-of-the-art pixel pitch of 12 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.

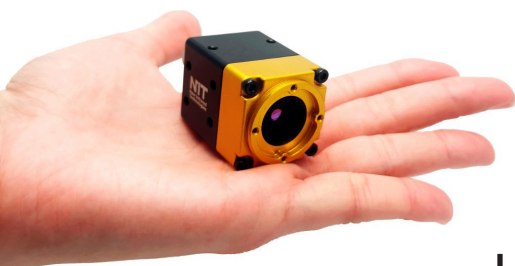
LIR320 camera is a cost-effective imaging solution that provides maximum performance in multiple industry applications.

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.



LIR320

AFFORDABLE PRICE TO EXCELLENT IMAGE QUALITY



Industrial
connectivity



Easy and
quick
installation



Very low power
consumption
5 VDC, <200mW



Thermal
sensitivity
65 mK (typ)



Possible to set
up temperature
alarms

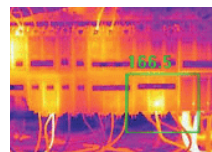


Friendly and
easy-to-use
software

Some LIR320 applications



Control of installations
of renewable and clean
energy.



Predictive and preventive
maintenance.



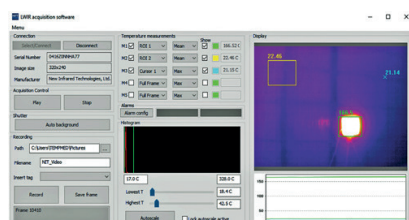
Quality and process control
in different industries,

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++)