FLIR A38 42°

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Website

http://www.flir.com

Customer support

http://support.flir.com

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General description
The FLIR A38 is a thermal camera in a very small form factor, designed for machine vision applications where temperature accuracy is not top priority, but rather a stable GigE Vision feed. With 320 x 240 IR resolution and 60 Hz frame rate, it is the ultimate choice for machine vision integration. The FLIR A38 is GigE Vision and GenICam compliant, and compatible with the FLIR Spinnaker SDK, the Teledyne Sapera SDK, and third party SDKs.
Key features: • Compact • GigE Vision and GenICam compliant • Power over Ethernet (PoE) • 8-bit or 16-bit IR stream at 320 x 240 • High frame rate (60Hz) • Fix focus, adjustable with allen key

Imaging and optical data	
Infrared resolution	320 × 240 pixels
Thermal sensitivity (NETD)	< 50 mK @ 25°C ambient
Field of view (FOV)	40.1° × 29°
Minimum focus distance	1.5 m (4.9 ft)
Focal length	8.1 mm (0.32 in)
f-number	1.1
Image frequency	60 Hz
Focus	Fixed

Detector data	
Spectral range	8–14 µm (LWIR)
Detector pitch	17 µm

Ethernet	
Interface	Wired
Connector type	RJ-45
Ethernet, purpose	Control, image, and power
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, communication	GigE Vision / GenICam
Ethernet, power	Power over Ethernet (PoE)

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Ethernet	
Ethernet, protocols	GigEVision
Pixel format	Mono8 or 16-bit/pixel

Power system	
Power consumption, typical	• 12 V: 2.8 W • 24 V: 2.8 W • PoE (48 V): 3.5 W
Power consumption, maximum	• 12 V: 4.4 W • 24 V: 4.4 W • PoE (48 V): 4.8 W

Environmental data	
Operating temperature range	–35°C to +60°C (-31°F to +140°F)
Storage temperature range	–40 to 80°C (–40 to 176°F) To avoid possible damage during storage, ensure that the sensor is not exposed to air. Use a lens cap or lens to cover the sensor.
Humidity (operating and storage)	Maximum 80% relative humidity, non-condensating
EMC	See User manual: https://support.flir.com/resources/4rur
Shock	See User manual: https://support.flir.com/resources/4rur
Vibration	See User manual: https://support.flir.com/resources/4rur
Safety	See User manual: https://support.flir.com/resources/4rur
Declaration of conformity	See: https://support.flir.com/resources/DoC

Physical data	
Weight (without lens)	67 g (2.4 oz)
Size (L × W × H, without lens)	59 × 29 × 36 mm (2.32 × 1.14 × 1.42 in)
Tripod mounting	UNC ¼″-20
Color	Black

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	• Infrared camera
Packaging, weight	0.23 kg (0.51 lb)
Packaging, size	130 × 140 × 100 mm (5.1 × 5.5 × 3.9 in)
EAN-13	7332558029497
UPC-12	845188026554
Country of origin	Canada