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FLIR A38 42°

P/N: 11301-0102

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

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General description	
<p>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.</p> <p>The FLIR A38 is GigE Vision and GenICam compliant, and compatible with the FLIR Spinnaker SDK, the Teledyne Spera SDK, and third party SDKs.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • 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 x 240 pixels
Thermal sensitivity (NETD)	< 50 mK @ 25°C ambient
Field of view (FOV)	40.1° x 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



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Ethernet	
Ethernet, communication	GigE Vision / GenICam
Ethernet, power	Power over Ethernet (PoE)
Ethernet, protocols	GigEVision
Pixel format	Mono8 or 16-bit/pixel
Power system	
Power consumption, typical	<ul style="list-style-type: none"> 12 V: 2.8 W 24 V: 2.8 W PoE (48 V): 3.5 W
Power consumption, maximum	<ul style="list-style-type: none"> 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 x W x H, without lens)	59 x 29 x 36 mm (2.32 x 1.14 x 1.42 in)
Tripod mounting	UNC 1/4"-20
Color	Black
Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none"> Infrared camera
Packaging, weight	0.23 kg (0.51 lb)
Packaging, size	130 x 140 x 100 mm (5.1 x 5.5 x 3.9 in)
EAN-13	7332558029497
UPC-12	845188026554
Country of origin	Canada