

P/N: 11301-0101

Copyright

© 2022, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

Document identity

Publ. No.: 11301-0101

Commit: 85504

Language:

Modified: 2022-06-02

Formatted: 2022-06-02

Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



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 Sopera 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)	24° x 18.1°
Minimum focus distance	0.4 m (1.3 ft)
Focal length	13 mm (0.51 in)
f-number	1.0
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)



FLIR A38 24°

P/N: 11301-0101

© 2022, FLIR Systems, Inc.

#11301-0101; r. 85504;

Ethernet	
Ethernet, protocols	GigE Vision
Pixel format	Mono8 or 16-bit/pixel
Power system	
Power consumption, typical	<ul style="list-style-type: none">12 V: 2.8 W24 V: 2.8 WPoE (48 V): 3.5 W
Power consumption, maximum	<ul style="list-style-type: none">12 V: 4.4 W24 V: 4.4 WPoE (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 ¼"-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	7332558029480
UPC-12	845188026547
Country of origin	Canada