

FLIR A325sc

Thermal imaging camera for real-time analysis



Designed from the ground up to deliver the accurate thermographic imaging and repeatable temperature measurements you needed for research and science applications, the FLIR A325sc generates over 76,000 accurate temperature measurements in every image.

EXCELLENT IMAGE QUALITY AND THERMAL SENSITIVITY

FLIR A325sc is equipped with an uncooled Vanadium Oxide (VoX) microbolometer detector that produces thermal images of 320 x 240 Pixels. They generate crisp and clear detailed images that are easy to interpret, resulting in reliable imaging with high accuracy. FLIR A325sc will make temperature differences as small as 50 mK clearly visible.

FAST DATA TRANSFER

FLIR A325sc comes with a RJ-45 Gigabit Ethernet connection which supplies 14-bit 320 x 240 images at rates as high as 60 Hz.

GIGE VISION™ STANDARD COMPATIBILITY

GigE Vision is the first standard to allow for fast image transfer using low cost standard cables even over long distances. With GigE Vision, hardware and software from different vendors can interoperate seamlessly over GigE connections.

GENICAM™ PROTOCOL SUPPORT

The goal of GenICam is to provide a generic programming interface for all kinds of cameras. Regardless of interface technology or features implemented, the application programming interface (API) will always be the same. The GenICam protocol also makes third party software being possible to use with the camera.

SOFTWARE

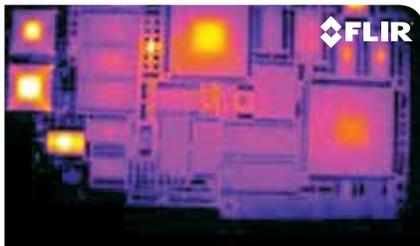
FLIR A325sc camera works seamlessly together with FLIR ResearchIR Max software enabling intuitive viewing, recording and advanced processing of the thermal data provided by the camera. A Software Developers Kit (SDK) is optionally available.

MATHWORKS® MATLAB

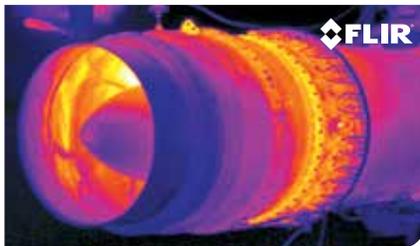
Control and capture data directly into MathWorksR Matlab software for advanced image analysis and processing.

KEY FEATURES

- UNCOOLED MICROBOLOMETER: 320 X 240 PIXELS
- GIGABIT ETHERNET INTERFACE
- CLOSE-UP AND TELEPHOTO LENSES AVAILABLE
- RESEARCHIR MAX SOFTWARE INCLUDED
- MATLAB COMPATIBLE



Verification of PCB



Jet engine



Imaging Specifications

Detector		FLIR A325sc	
Detector Type	Uncooled Microbolometer		
Spectral Range	7.5 – 13.0 μm		
Resolution	320 x 240		
Detector Pitch	25 μm		
NETD	<50 mK		
Electronics / Imaging			
Time Constant	<12 ms		
Frame Rate	60 Hz		
Dynamic Range	14-bit		
Digital Data Streaming	Gigabit Ethernet (60 Hz)		
Command & Control	Gigabit Ethernet		
Measurement			
Standard Temperature Range	-20°C to 120°C (-4°F to 248°F) 0°C to 350°C (32°F to 662°F)		
Optional Temperature Range	Up to 2,000°C (3,632°F)		
Accuracy	$\pm 2^\circ\text{C}$ or $\pm 2\%$ of Reading		
Optics			
Camera f/#	f/1.3		
Integrated Lens	18 mm (25°)		
Available Lenses	76 mm (6°), 30 mm (15°), 10 mm (45°), 4 mm (90°)		
Close-up Lenses / Microscopes	Close-up 25 μm , 50 μm , 100 μm		
Focus	Automatic or Manual (Motorized)		
Image Presentation			
Digital Data Via PC	Using ResearchIR Software		
General			
Operating Temperature Range	-15°C to 50°C (5°F to 122°F)		
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)		
Encapsulation	IP 40 (IEC 60529)		
Bump / Vibration	25 g (IEC 60068-2-29) / 2 g (IEC 60068-2-6)		
Power	12/24 VDC, 24 W Absolute Max.		
Weight w/Lens	0.7 kg (1.54 lb)		
Size (L x W x H) w/Lens	170 x 70 x 70 mm (6.7 x 2.8 x 2.8 in)		
Mounting	¼"-20 (on three sides), 2 x M4 (on three sides)		

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Specifications are subject to change without notice
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