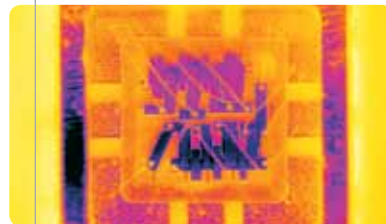
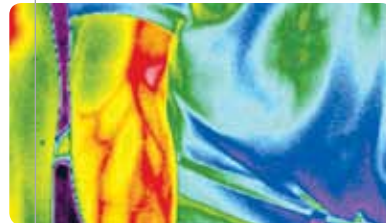


FLIR SC300 Series

Affordable, Flexible, and Powerful Solutions for Real-Time Thermal Analysis

The SC300 Series is designed from the ground-up to deliver the accurate thermographic imaging and repeatable temperature measurement necessary in demanding science and R&D applications. Each crisp thermal image is built from over 76,000 individual picture elements that are sampled by the camera's on-board electronics and firmware. SC300 Series features include:

- *Uncooled Microbolometer Detector – Maintenance-free and provides excellent long wave imaging performance.*
- *Optics and Focus – Standard built-in 25° lens with optional 6°, 15°, 45°, and 90° lenses are available to achieve other fields of view; manual and auto focus standard.*
- *Microscopy and Close-up Measurement – Optional 100 μm , 50 μm , and 25 μm microscope optics and microscope stand are available for small target imaging and measurement.*
- *Precise Timing and Control – Optically-isolated digital I/O connections eliminate communication latencies with digital in and out for shutter disable and program control along with a V-sync connector for triggering and synchronization.*
- *Plug-and-Play Compatibility – Ideal system integration solution with universal plug and play and GigE Vision Control protocols. The camera can be fully configured from the PC, allowing command, control, and collection of full frame data from the camera in real time.*
- *Versatility – Compact, rugged, and lightweight with straightforward 3-sided mounting feature that permits quick installation and easy movement for new application requirements.*
- *Fast Data Transfer – RJ-45 gigabit Ethernet connection supplies a 16-bit 320 x 240 images at rates as high as 60 Hz along with linear temperature data; GenICam and GigE Vision Compliant.*
- *Tailored to Your Application – FLIR Systems offers a complete line of accessories including optics, enclosures, data systems, and software tools to suit the most demanding applications.*



Imaging Specifications

Model	SC305	SC325
Detector	Uncooled Microbolometer	
Detector Type	Uncooled Microbolometer	
Resolution	320 x 240	
Spectral Range	7.5 μm to 13.0 μm	
Detector Pitch	25 μm	
Time Constant	Typical 12 ms	
NETD @ 30oC	<50 mK	
Imaging		
GigE Image Streaming - Signal linear - Temperature linear - Radiometric	16-bit 320 x 240 pixels @ 9 Hz	16-bit 320 x 240 pixels @ 60 Hz
GigE Vision and GenICam compatible	Yes	
Measurement		
Temperature Range	-20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)	
Accuracy	$\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading	
Optics		
FOV / Min Focus Distance	18 mm (25° x 18.8°) / 0.4 m (1.31 ft)	
Focus	Automatic, motorized manual	
Environmental		
Operating Temperature Range	-15°C to +50°C (-5°F to +122°F)	
Storage Temperature Range	-40°C to +70°C (-104°F to +158°F)	
Bump	25 g (IEC 60068-2-29)	
Vibration	2 g (IEC 60068-2-6)	
Physical Specifications		
Weight	0.7 kg (1.54 lb)	
Size (L x W x H)	170 x 70 x 70 mm (6.7 x 2.8 x 2.8 in)	
Base Mounting	2 x M4 thread mounting holes (on three sides)	
Tripod Mounting	UNC 1/4"-20 (on three sides)	
General Specifications		
Power	10 to 30 VDC <10 W typically	
Included Components	18 mm (25° x 18.8°) Power Supply 90-220 VAC in, 12 V out Power cable (standard 2-wire with ground) Power cable to camera pigtailed Ethernet cable (CAT-6, 2m) Utility CD with IP Config and IR monitor drivers	
Packaged Software	ExaminIR, ExaminIR Max, or QuickPlot	
Available Optics	76 mm (6°) 4 mm (90°) 30 mm, 15° 10 mm, 45° Close-up 4x (100 μm) Close-up 2x (50 μm) Close-up 1x (25 μm)	
Available Accessories	Stands/Tripods SDK Toolkit Data Systems Hard Transport Case	

Back Panel



- ① Power Connector, Screw Terminal 2-pole: 10–30VDC, <10W.
- ② Ethernet Port, 1000 MB, RJ-45 Connector: Control and image streaming.
- ③ Digital I/O Connector, Screw Terminal 6-pole: Digital Out: 2 outputs, opto-isolated, 10–30V supply, 100 mA. Digital In: 2 inputs, opto-isolated, 10–30V.



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