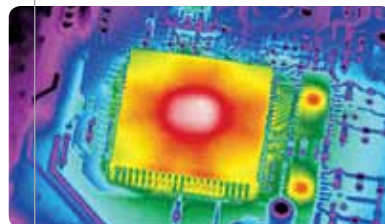


## FLIR SC600 Series

### High-Resolution LWIR Science-Grade Infrared Camera

With its highly sensitive uncooled detector, high resolution, and all of the cutting-edge functionality scientists and researchers have come to expect from FLIR, the new SC600 Series brings affordable science and R&D thermography to a whole new level.

- *Affordable, compact, and powerful, the SC600 Series provides over 300,000 pixels of accurate temperature measurement data.*
- *High-resolution 640 × 480, 17 micron pixel detector provides great image detail and small spot size for accurate measurements of small temperature anomalies.*
- *The SC600 Series provides high-speed windowing modes (up to 200 Hz with a 640 × 120 window) and digital control of image flow and recording to FLIR's R&D software.*
- *Fully compliant with both GenICam and GigE Vision protocols, the SC600 Series is ready to integrate with a variety of third-party analysis software packages.*
- *FPA windowing allows faster frame rates and focused analysis.*
- *Fast frame rate options provide imaging performance from full-frame resolution, 16-bit data at 50 fps, to 640 × 120 resolution at 200 fps.*
- *Perfect for infrared research, product development, and non-destructive testing, the SC600 Series helps you to see and accurately quantify heat patterns, leakage, dissipation, and other heat-related factors in equipment, products, and processes in real time.*



## Imaging Specifications

Detector	SC645	SC655
Detector Type	Uncooled Microbolometer	
Resolution	640 x 480	
Spectral Range	7.5 $\mu$ m to 13.0 $\mu$ m	
Detector Pitch	17 $\mu$ m	
Time Constant	Typical 8 ms	
NETD @ 30oC	<50 mK	
<b>Imaging</b>		
USB Image Streaming - Signal linear - Temperature linear - Radiometric	16-bit 640 x 480 pixels @ 25 Hz	16-bit 640 x 480 pixels @ 25 Hz 16-bit 640 x 240 pixels @ 50 Hz 16-bit 640 x 120 pixels @ 100 Hz
GigE Image Streaming - Signal linear - Temperature linear - Radiometric	16-bit 640 x 480 pixels @ 25 Hz	16-bit 640 x 480 pixels @ 50 Hz 16-bit 640 x 240 pixels @ 100 Hz 16-bit 640 x 120 pixels @ 200 Hz
GigE Vision and GenICam compatible	Yes	Yes
<b>Measurement</b>		
Temperature Range	-20 to +150°C (-4 to +302°F) 0 to +650°C (+32 to +1202°F)	
Accuracy	$\pm$ 2°C or $\pm$ 2% of reading	
<b>Optics</b>		
FOV / Min Focus Distance	24.4 mm (25° x 18.8°) / 0.4 m (1.31 ft)	
Focus	Automatic, motorized manual, tactile manual	
<b>Environmental</b>		
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)	
<b>Physical Specifications</b>		
Weight	0.7 kg (1.54 lb)	
Size (L x W x H)	216 x 73 x 75 mm (8.5 x 2.9 x 3.0 in)	
Base Mounting	2 x M4 thread mounting holes (on three sides)	
Tripod Mounting	UNC 1/4"-20 (on three sides)	
<b>General Specifications</b>		
Power	10 to 30 VDC <10 W typically	
Included Components	24.4 mm (25° x 18.8°) lens 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) USB cable Utility CD with IP Config and IR monitor drivers	
Packaged Software	ExaminIR, ExaminIR Max, or QuickPlot	
Available Optics	30 mm, 15° Telephoto 10 mm, 45° Wide Angle	
Available Accessories	Stands/Tripods SDK Toolkit Data Systems Hard Transport Case	

### Back Panel



- ① Power Connector, Screw Terminal 2-pole: 10 – 30 VDC; 24 W Max.
- ② Ethernet Port, 1000 MB, RJ-45 Connector: Control and image streaming.
- ③ USB2 HS Connector: Camera control and image streaming.
- ④ Digital I/O Connector, Screw Terminal 6-pole: Digital Out: 2 outputs, opto-isolated, 10–30 VDC supply, 100 mA. Digital In: 2 inputs, opto-isolated, 10–30VDC.



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