

FLIR SC600 Handheld Series

Exceptional Value and Image Quality for Thermographic Studies and Temperature Measurements

The SC600 Handheld Series of research cameras offers thermal and visual imagery, spot size resolution, and reliable temperature measurement accuracy—all at an affordable cost. Technicians, engineers, and scientists will appreciate SC600 Handheld Series features including a built-in digital camera, voice annotation, laser target locator, GPS, and much more.

Sensitivity – 640 × 480 infrared detector features 0.03°C sensitivity and ±1°C (1.8°F) accuracy resulting in outstanding resolution and image quality for precise readings on small targets.

Temperature Range – -40°C to 1,500°C with a high temp option up to 2,000°C.

Visible and Thermal Imagery – The integrated thermal camera and 3.2 megapixel visual camera have matching FOV lenses that allow the correlation of targets over various distances with thermal and visible image fusion.

On-Camera Snapshot and Video Recording – Thermal and visual snapshots and video can be stored directly on the camera to internal memory or high-capacity SD cards.

Versatile Data Transfer/Storage – FireWire streams 14-bit fully radiometric real-time video directly to a PC; USB interface streams MPEG-4 non-radiometric video sequences to a PC.

Annotation and GPS – Text comments or 30 seconds of digital voice commentary can be embedded with each IR image, eliminating the need to keep separate notes. Built-in GPS system for geo-referencing.

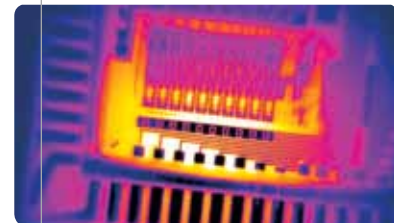
Increased Convenience and Productivity – 5.6" widescreen LCD and multi-angle handle with an integrated joystick and buttons allow fast, ergonomic point-and-shoot operation. Other advanced features include tiltable viewfinder with high-resolution color imagery, auto-focus, freeze-frame, image storage, and a target illuminator lamp.

Rugged, Ergonomic Design – Tough, portable, and ergonomic, the magnesium housing meets the IP54 standard for protection of internal parts from shock, vibration, dust, and water – all in a package weighing only 3.8 pounds.

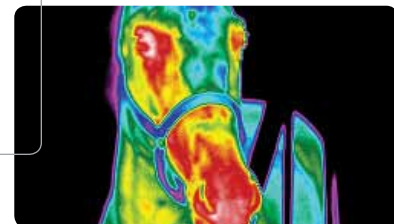
Optional Research Package – FLIR's easy-to-use ExaminIR Software for research and science professionals seamlessly stores, retrieves, and analyzes IR images and temperature data directly from the camera, allowing in-depth and precise thermal evacuations. Functions include temperature display, snapshot and video image analysis, isotherms, line profiles, area histograms, and much more.



Space Shuttle



Microchip



Veterinary medicine

Imaging Specifications

Detector	SC620	SC660
Detector Type	Uncooled Microbolometer	
Spectral Range	7.5 – 13.0 μm	
Resolution	640 x 480	
Detector Pitch	17 μm	
NETD	<40 mK	< 30 mK
Electronics / Imaging		
Time Constant	<10 ms	
Frame Rate (Full Window)	30 Hz	
Subwindow Mode	User Selectable 640 x 240 or 640 x 120	
Maximum Frame Rate (@ Min Window)	120 Hz (640 x 120)	
Dynamic Range	14-bit	
Digital Data Streaming	Real-time Radiometric = FireWire to PC (30/60/120 Hz) Real-time Radiometric = RAM on Camera. Transferable to Memory Card Real-time Non-radiometric = USB / FireWire MPEG to PC Real-time Non-radiometric = Memory Card on Camera	
Analog Video	Composite Video / RCA connector	
GPS	Location Data Stored with Every Image	
Command & Control	FireWire, USB	
Measurement		
Standard Temperature Range	-40°C to 120°C (-40°F to 248°F) 0°C to 500°C (32°F to 932°F)	-40°C to 120°C (-40°F to 248°F) 0°C to 500°C (32°F to 932°F) 350°C to 1,500°C (662°F to 2,732°F)
Optional Temperature Range	Up to 1,500°C (2,732°F) Up to 2,000°C (3,632°F)	Up to 2,000°C (3,632°F)
Accuracy	$\pm 2^\circ\text{C}$ or $\pm 2\%$ of Reading	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of Reading (Limited Temperature Range) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of Reading
Optics		
Camera f/#	f/1.1	
Available Lenses	131 mm (7"), 76 mm (12"), 38 mm (24"), 19 mm (45")	
Close-up Lenses / Microscopes	Close-up (50 μm), (25 μm)	
Focus	Automatic or Manual (Motorized & Tactile)	
Image Presentation		
On Camera Display	Adjustable 5.6 in LCD Display (1024 x 600) & LCD Viewfinder (800 x 600)	
Automatic Gain Control	Manual, Linear, Histogram, DDE	
Image Analysis	Spot Meters, Areas, Auto Hot / Cold Detection, Isotherms	
Image Annotations	60 Sec Voice, Text, 4 x Markers, GPS	
Zoom	1-2x Digital Continuous with Pan	1-8x Digital Continuous with Pan
Visible Image	3.2 Megapixel from Integrated Visible Camera	
Thermal / Visible Fusion	Picture-in-Picture, Above/Below Interval	
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 54 (IEC 60529)	
Bump / Vibration	25 g (IEC 60068-2-29) / 2 g (IEC 60068-2-6)	
Power	AC adapter 90-26- VAC, 50/60 Hz or 12 V from a vehicle	
Battery System	Rechargeable Li ion, 7.2 V, 4.4 Ah (> 3 hours run time at 25°C/68°F)	
Weight w/ Battery w/o Lens	1.37 kg (3.02 lb)	
Size (L x W x H) w/o Lens	282 x 144 x 147 mm (11.1 x 5.7 x 5.8 in)	
Mounting	1/4"-20	

SC600 Handheld Packages

SC620 ExaminIR Recording & Analysis Package: SC620, 38 mm (24°) or 19 mm (45°) Lens, Standard Temperature Calibration, ExaminIR Software

SC620 ExaminIR Max Recording & Analysis Package: SC620, 28 mm (24°) or 19 mm (45°) Lens, Standard Temperature Calibration, ExaminIR Max Software

SC660 ExaminIR Recording & Analysis Package: SC660, 38 mm (24°) or 19 mm (45°) Lens, Standard Temperature Calibration, ExaminIR Software

SC660 ExaminIR Max Recording & Analysis Package: SC660, 38 mm (24°) or 19 mm (45°) Lens, Standard Temperature Calibration, ExaminIR Max Software

*Ask your FLIR representative about additional packages



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