

## P/N: 29439-251

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### 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](mailto:exportquestions@flir.com) with any questions.



Specifications	
System Overview	A6751 SLS
Detector Type	Strained-Layer Superlattice
Spectral Range	7.5 $\mu\text{m}$ (lower), 10-11 $\mu\text{m}$ (upper)
Resolution	640 x 512
Pixel Size (square)	15 $\mu\text{m}$
Thermal Sensitivity/NETD	$\leq 45 \text{ mK}$ ( $\leq 40\text{mK}$ typical)
Well Capacity	7.2 M electrons
Operability	$\geq 98\%$ ( $\geq 99\%$ typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125Hz
Subwindow Mode	Flexible windowing down to 16 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	SDI
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range (with band matched optics)	-20°C to 650°C (-4°F to 1202°F)
Optional Temperature Range (with band matched optics)	250°C to 2000°C (ND1) 500°C to 3000°C (ND2)
Accuracy	$\leq 100^\circ\text{C} \pm 2^\circ\text{C}$ ( $\pm 1^\circ\text{C}$ typical), $> 100^\circ\text{C} \pm 2\%$ of reading ( $\pm 1\%$ typical)
Ambient Drift Compensation (with factory cal)	Yes



## FLIR A6751 SLS

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<b>Optics</b>	
Camera f/Number	f/2.5
Available Lenses	17mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filter Holder (Warm)	Behind lens mount for standard 1 inch diameter filters
<b>Image/Video Presentation</b>	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, DDE
Overlay	Fixed configuration, can be turned off
Video Modes	SDI: 720p@50/59.9/60Hz
Standard Video Zoom	automatic, variable
<b>General</b>	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 24 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	226 x 102 x 109 mm (8.9 x 4.0 x 4.3 in.)
Mounting	2 x 1/4" -20 tapped holes 1 x 3/8"-16 tapped holes 4 x 10-24 tapped holes

### Supplies & accessories:

- 4215503; Lens 7.5-12 um 100 mm f/2.5 HDC Bayonet
- 4215424; Lens 7.5-12 um 17 mm f/2.5 HDC Bayonet
- 4215505; Lens 7.5-12 um 200 mm f/2.5 HDC Bayonet
- 4215496; Lens 7.5-12 um 25 mm f/2.5 HDC Bayonet
- 4215501; Lens 7.5-12 um 50 mm f/2.5 HDC Bayonet
- 4213642; Lens 7.5-12 um, 1X microscope, f/2.5 HDC Bayonet
- 4220499; FLIR Research Studio - 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio - Perpetual License (online activation)
- 4220646; FLIR Research Studio - Perpetual License (USB dongle)
- INST-EW-0200; Extended Warranty 1 Year for A67XXsc
- INST-EWGM-0200; Premium Service Package for A67xxsc, G300a
- INST-GM-0200; General Maintenance for RS6700, A67XXsc, A6604, SC4000, SC610X, SC670X, SC8000, SC8X4X, SC820X, SC6000, X85XXsc, X68XXsc, X69XXsc