

**P/N: 29374-251**

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## Website

<http://www.flir.com>

## Customer support

<http://support.flir.com>

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Detector data	
Detector Type	Strained-Layer Superlattice
Spectral Range	7.5 – 10.5 µm
Resolution	640 x 512
Detector Pitch	15 µm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% 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	NTSC or PAL composite
Command and Control	GenICam (GigE)
Temperature Measurement	
Standard Temperature Range	-20°C to 650°C (-4°F to 1202°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2000°C (3632°F), Up to 3,000°C (5,432°F)

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Temperature Measurement	
Accuracy	$\pm 1^{\circ}\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> <li><math>0^{\circ}\text{C}</math> to <math>+3000^{\circ}\text{C}</math> (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)</li> </ul> $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> <li><math>-20^{\circ}\text{C}</math> to <math>0^{\circ}\text{C}</math> (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses, 1X Close-Up)</li> </ul>
Ambient Drift Compensation (with factory cal)	Yes
Optics	
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
Filtering	Behind lens mount for standard 1 inch diameter filters
Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, DDE
Overlay	Fixed configuration, can be turned off
Video Modes	NTSC, PAL
Digital Zoom	1x, 2x
General	
Operating Temperature Range	$-20^{\circ}\text{C}$ to $50^{\circ}\text{C}$ ( $-4^{\circ}\text{F}$ to $122^{\circ}\text{F}$ )
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in.)
Mounting	<ul style="list-style-type: none"> <li>2 x <math>\frac{1}{4}</math>" -20 tapped holes</li> <li>1 x <math>\frac{3}{8}</math>"-16 tapped hole</li> <li>4 x 10-24 tapped holes</li> </ul>

## Supplies & accessories:

- 4209169; Lens 7.5-12  $\mu\text{m}$  100 mm f/2.5 HDC Bayonet
- 4210606; Lens 7.5-12  $\mu\text{m}$  17 mm f/2.5 HDC Bayonet
- 4210607; Lens 7.5-12  $\mu\text{m}$  200 mm f/2.5 HDC Bayonet
- 4209167; Lens 7.5-12  $\mu\text{m}$  25 mm f/2.5 HDC Bayonet
- 4209168; Lens 7.5-12  $\mu\text{m}$  50 mm f/2.5 HDC Bayonet
- INST-EW-0200; Extended Warranty 1 Year for A67XXsc
- INST-GM-0200; Calibration incl General Maintenance for RS6700, A67XXsc, A6604, SC4000, SC610X, SC670X, SC8000, SC8X4X, SC820X, SC6000





