

## P/N: 29437-261

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### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

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Specifications	
System Overview	A6261
Detector Type	FLIR Indium Gallium Arsenide (InGaAs)
Spectral Range	0.9 – 1.7 $\mu\text{m}$
Resolution	640 x 512
Pixel Size (square)	15 $\mu\text{m}$
NEI	8.4E9 photons/sec/cm <sup>2</sup> (Low Gain) 2.9E9 photons/sec/cm <sup>2</sup> (Med Gain)
Noise Floor	Low Gain: 350e Med Gain: 56e
Well Capacity	Low Gain: 1.44 Me- Medium Gain: 95.7 ke- High Gain: 19.1 ke-
Operability	$\geq 99.5\%$ ( $\geq 99.8\%$ typical)
Sensor Cooling	Single Stage TE Cooler, 30C FPA setpoint
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	50 usec to Full Frame (3.2msec w/factory calibration)
Pixel Clock	100 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 180 Hz (125Hz w/ factory calibration)
Subwindow Mode	640x512, 320x256, 160x128, flexible centered windowing down to 32 x 4 (steps of 32 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)

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Temperature Measurement	
Standard Temperature Range (with band matched optics)	400°C to 1200°C (ND1)
Optional Temperature Range (with band matched optics)	600°C to 1500°C (ND2) 700°C to 2500°C (ND3)
Accuracy	± 2% of reading ( ± 1% typical)
Ambient Drift Compensation (with factory cal)	Yes
Optics	
Camera f/Number	Variable using lens iris (lens fixed at f/4 with cal)
Available Lenses	16 mm, 25 mm, 35 mm, 50 mm, 100 mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	C-mount
Focus	Manual
Filter Holder (Warm)	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	SDI: 720p@50/59.9/60Hz
Standard Video Zoom	Auto, best fit
General	
Operating Temperature Range	0°C to 45°C (32°F to 113°F)
Shock/Vibration	40 g, 11 msec ½ 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	2 x 1/4" -20 tapped holes 1 x 3/8"-16 tapped holes 4 x 10-24 tapped holes
Export Classification	ECCN 6A003.b.4.a
Declaration of conformity	See: <a href="https://support.flir.com/resources/DoC">https://support.flir.com/resources/DoC</a>

### Supplies & accessories:

- 4231346; Lens SWIR 100 mm f/2.25 C-Mount
- 4142573; Lens, SWIR, 16mm, F1.4, C-Mount
- 4142572; Lens, SWIR, 25mm, F1.4, C-Mount
- 4142571; Lens, SWIR, 35mm, F1.4, C-Mount
- 4142569; Lens, SWIR, 50mm, F1.8, C-Mount
- 4227599; FLIR Science Camera Power Supply
- 4233062; Cooled Science A and X Camera Microscope Stand
- 4232535; FLIR Research Studio, Professional Edition - 1 Year Subscription (online activation)
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- 4232591; FLIR ResearchIR to Research Studio, Professional Edition - 1 Year License Upgrade
- 4224157; FLIR Science Camera SDK
- 4216760; FLIR Science File SDK





