

# **FLIR A6702**

## P/N: 29440-202

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#### Website

http://www.flir.com

Customer support

http://support.flir.com

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Specifications	
System Overview	A6702
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.0 – 5.0 μm
Resolution	640 x 512
Pixel Size (square)	15 μm
Thermal Sensitivity/NETD	≤ 25 mK
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
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	Full, Half, and Quarter Window
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	-20°C to 350°C (-4°F to 662°F)
(with band matched optics)	
Optional Temperature Range	45°C to 600°C (ND1)
(with band matched optics)	250°C to 2000°C (ND2)
	500°C to 3000°C (ND3)
Accuracy	$\leq$ 100°C ±2°C (±1°C typical), > 100°C ±2% of reading (±1% typical)
Ambient Drift Compensation (with factory cal)	Yes





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OpticsCamera f/Numberf/4.0Available Lenses25 mm, 50 mm, 100mmClose-up Lenses/MicroscopesNo microscopes availableLens InterfaceFLIR HDC (4-tab bayonet)FocusManualFilter Holder (Warm)Behind lens mount for standard 1 inch diameter filtersImage/Video PresentationPalettesPalettesSelectable 8-bitAutomatic Gain ControlManual, Linear, Plateau equalization, DDEOverlayFixed configuration, can be turned offVideo ModesSDI: 720p@50/59.9/60HzStandard Video ZoomAuto, best fitGeneral-20°C to 50°C (-4°F to 122°F)Power24 VDC (< 24 W steady state)Weight w/o Lens2.3 kg (5 lbs)Size (L x W x H) w/o Lens226 x 102 x 109 mm (8.9 x 4.0 x 4.3 in.)Mounting2 x 1/4" -20 tapped holes 1 x 3/8"-16 tapped holesExport ClassificationECCN 6A003.b.4.aDeclaration of conformitySee: https://support.flir.com/resources/DoC		
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Close-up Lenses/MicroscopesNo microscopes availableLens InterfaceFLIR HDC (4-tab bayonet)FocusManualFilter Holder (Warm)Behind lens mount for standard 1 inch diameter filtersImage/Video PresentationPalettesSelectable 8-bitAutomatic Gain ControlManual, Linear, Plateau equalization, DDEOverlayFixed configuration, can be turned offVideo ModesSDI: 720p@50/59.9/60HzStandard Video ZoomAuto, best fitOperating Temperature Range-20°C to 50°C (-4°F to 122°F)Power24 VDC (< 24 W steady state)	Camera f/Number	f/4.0
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Standard Video Zoom   Auto, best fit     General   -20°C to 50°C (-4°F to 122°F)     Power   24 VDC (< 24 W steady state)	Overlay	Fixed configuration, can be turned off
GeneralOperating Temperature Range-20°C to 50°C (-4°F to 122°F)Power24 VDC (<24 W steady state)	Video Modes	SDI: 720p@50/59.9/60Hz
Operating Temperature Range   -20°C to 50°C (-4°F to 122°F)     Power   24 VDC (< 24 W steady state)	Standard Video Zoom	Auto, best fit
Power   24 VDC (< 24 W steady state)	General	
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     Export Classification   ECCN 6A003.b.4.a	Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
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4 x 10-24 tapped holes   Export Classification   ECCN 6A003.b.4.a	Mounting	2 x 1/4" -20 tapped holes
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		4 x 10-24 tapped holes
Declaration of conformity See: https://support.flir.com/resources/DoC	Export Classification	ECCN 6A003.b.4.a
	Declaration of conformity	See: https://support.flir.com/resources/DoC

#### Supplies & accessories:

- 4218540; Lens 1-5 um 100 mm f/2.5 FPO Manual Bayonet
- 4218538; Lens 1-5 um 25 mm f/2.5 FPO Manual Bayonet
- 4218539; Lens 1-5 um 50 mm f/2.5 FPO Manual Bayonet
- T300385; Lens 3-5 um Macro f/2.5 MW FPO Manual Bayonet
- 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)
- 4232556; FLIR Research Studio, Professional Edition Perpetual License (online activation)
- 4232590; FLIR Research Studio, Professional Edition Perpetual License (USB dongle)
- 4220499; FLIR Research Studio, Standard Edition 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio, Standard Edition Perpetual License (online activation)
- 4220646; FLIR Research Studio, Standard Edition Perpetual License (USB dongle)
- 4232591; FLIR ResearchIR to Research Studio, Professional Edition 1 Year License Upgrade
- 4224157; FLIR Science Camera SDK
- 4216760; FLIR Science File SDK







