FLIR A6702

P/N: 29440-202

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
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
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 (with band matched optics)	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range (with band matched optics)	45°C to 600°C (ND1) 250°C to 2000°C (ND2) 500°C to 3000°C (ND3)

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Temperature Measurement	
Accuracy	≤ 100°C ±2°C (±1°C typical), > 100°C ±2% of reading (±1% typical)
Ambient Drift Compensation (with factory cal)	Yes

Optics	
Camera f/Number	f/4.0
Available Lenses	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
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
Digital Zoom	automatic, variable

General	
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:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 4218539; Lens 1-5 um 50 mm 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

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