

P/N: 29440-250

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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 with any questions.



| Specifications | |
|--|--|
| System Overview | A6750 |
| 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 | $\geq 99.8\%$ ($\geq 99.95\%$ 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 | SDI |
| Command and Control | GenICam (GigE) |
| Temperature Measurement | |
| Standard Temperature Range (with band matched optics) | -20°C to 300°C (-4°F to 572°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) |
| 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 |

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| Optics | |
|---------------------------------|--|
| Camera f/Number | f/2.5 |
| 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 |
| Standard Video Zoom | Auto, best fit |
| General | |
| Operating Temperature Range | -20°C to 50°C (-4°F to 122°F) |
| 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 |
| 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





