

SWIR PERFORMANCE CAMERA



FLIR A6260[™]

The FLIR A6260 camera sets the standard for SWIR cameras for science and R&D applications by pairing high-speed performance with fully customizable features. The highresolution detector offers improved sensitivity and linearity across the full dynamic range, making it ideal for radiometry and temperature calibrated applications. This camera also records full-frame data at 180 fps and synchronization with other instruments for stop-action recording on high-speed events.

www.flir.com/science



HIGH QUALITY SWIR IMAGES Capture high-resolution, high-sensitivity images in both bright and low-light scenes

The A6260 is equipped with an indium gallium arsenide (InGaAs) detector optimized to the 0.9 - 1.7µm or 0.6 - 1.7 µm waveband, which produces crisp, 640 x 512 pixel images. The sensor includes three user selectable gain states offering a 75x gain factor, making it an exceptionally flexible tool for imaging both bright objects (laser beam profiling) and low light scenes (nightglow imaging).



ADJUSTABLE FRAME RATES & TRIGGERING Ensure the camera is configured perfectly for your testing needs

The A6260 offers full customization of all settings, including integration time and frame rate, so you can tailor the controls to each unique application. Synchronize and trigger the camera with external events and devices, for maximum flexibility. The A6260 also provides a built-in flat field shutter that can be either manually or automatically controlled for spatially-uniform image quality.



TEMPERATURE CALIBRATION & MEASUREMENT

Measure thermal transients and temperature data across a wide range $\!\!\!\!^*$

When optimized for the $0.9 - 1.7 \mu m$ waveband, the A6260 can be factory- or user-calibrated to measure temperatures above 400°C. Couple this with the ability to see through materials such as glass, and the A6260 becomes a perfect tool for high temperature thermal measurement in an oven, furnace, or environmental chamber.

*A6261 model only

SPECIFICATIONS

Image and Optical Data	A6261	A6262
Temperature Range	400°C to 1200°C (752°F to 2192°F)	NA
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,200°C (3992°F)	NA
Available Lenses	16 mm, 25 mm, 35 mm, 50 mm, 100 mm	25 mm
Sensor Material	FLIR indium gallium arsenide (InGaAs)	FLIR backside-thinned indium gallium arsenide (VisGaAs)
System Overview		
IR Resolution	640 x 512	
Detector Pitch	15 μm	
Spectral Range	0.9 - 1.7 µm or 0.6 - 1.7 µm	
Noise (NEI)	Low Gain: 8.35E9 photons/sec/cm ² Medium Gain: 2.89E9 photons/sec/cm ²	
Quantum Efficiency	>60% from 1 to 1.6 µm	
Well Capacity	Low Gain: 1.44 M electrons Medium Gain: 95.7 K electrons High Gain: 19.1 K electrons	
Operability	99.5% (99.8% typical)	
Electronics/Imaging		
Sensor Temperature	30°C (TEC Stabilized)	
Readout	Snapshot	
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read	
Synchronization Modes	Sync In, Sync Out, Trigger In	
Integration Time	50 µsec to full frame	
Frame Rate (Full Window)	Programmable 0.0015 Hz to 180 Hz (GigE limited)	
Subwindow Modes	User-defined size, centered in image	
Max. Frame Rate	17,781 Hz (32 x 4 window)	
Dynamic Range	14-bit	
Digital Data Protocol	GigE Vision® 2.0	
Analog Video	NTSC, PAL	
Command & Control	GenlCam	

Optics		
Camera f/Number	Lens dependent	
Focus	Manual	
Filtering	25.4 mm diameter by 1 mm thick filter mount, behind the lens	
Analog Video		
Analog Palettes	Selectable 8-bit	
AGC	Manual, Linear, Plateau Equalization, DDE	
Zoom	Video zoom is auto-selected: 1x for full and 1/2 window, 2x for 1/4 window	
General		
Operating Temperature Range	0°C to 45°C (32°F to 113°F)	
Shock/Vibration	40 g, 11 msec $\!$	
Power	24 VDC (<22 W steady state)	
Weight w/o Lens	5 lbs	
Size (L x W x H) w/o Lens, Handle	21.6 x 10.2 x 10.9 cm (8.5 x 4.0 x 4.3 in)	
Mounting	2 x 1/4"-20, 1 x 3/8"-16, 4 x 10/24	





Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com



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