



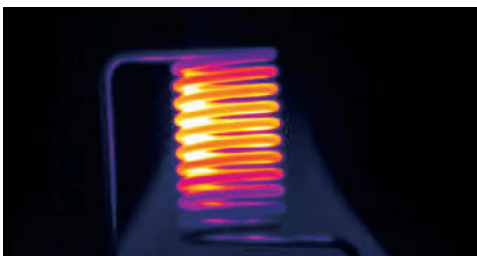
## SWIR PERFORMANCE CAMERA

# 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 high-resolution 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.

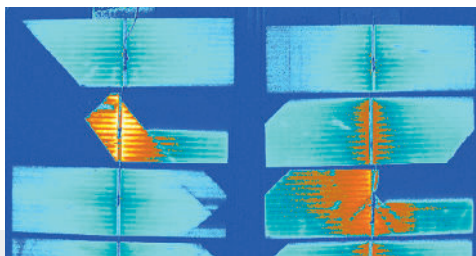
[www.flir.com/science](http://www.flir.com/science)



### 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 – 1.7  $\mu\text{m}$  or 0.6 – 1.7  $\mu\text{m}$  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  $\mu\text{m}$  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 <sup>2</sup> Medium Gain: 2.89E9 photons/sec/cm <sup>2</sup>
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	GenICam

### Optics

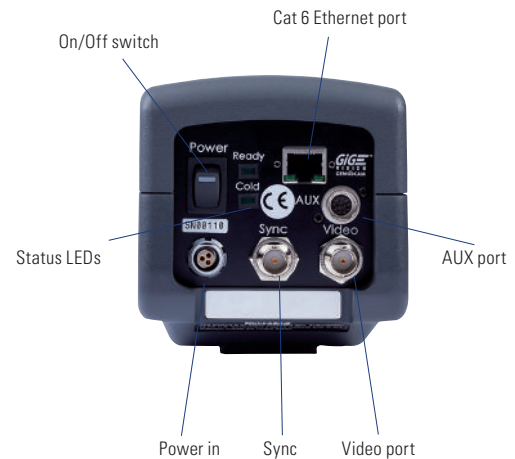
Camera f/Number	Lens dependent
Focus	Manual
Filtering	25.4 mm diameter by 1 mm thick filter mount, behind the lens

### 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 ½ sine pulse / 4.3 g RMS random vibration, all 3 axes
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](http://www.flir.com)



## Contact our Expert Sales Team for more Information

Yellotec stands proud in the belief of its founder that all failures are preventable.

We are a solution oriented company focused on Machine Health and Reliability through the application of advanced technologies.

