

SWIR PERFORMANCE CAMERA

FLIR A6260sc™

The new FLIR A6260sc 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/a6260sc

HIGH QUALITY SWIR IMAGES

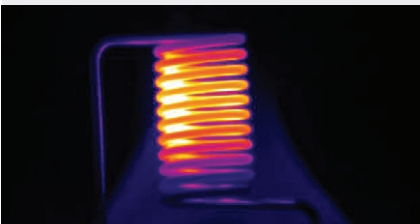
The A6260sc is equipped with an indium gallium arsenide (InGaAs) detector optimized to the 0.9 – 1.7 μm or 0.6 – 1.7 μm waveband, which produces crisp, 640 x 512 pixel thermal images. The sensor includes three user selectable gain states offering a 75x gain factor, making it an exceptionally flexible tool for imaging both bright objects (laser beam profiling) and low light scenes (nightglow imaging).

ADJUSTABLE FRAME RATES & TRIGGERING

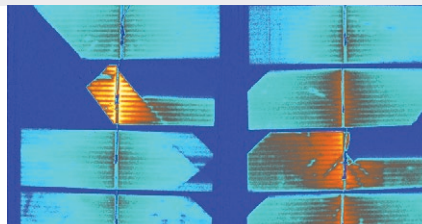
The A6260sc offers full customization of all settings, including integration time and frame rate, so you can tailor the controls to each unique application. Synchronize and trigger the camera with external events and devices, for maximum flexibility. The A6260sc also provides a built-in flat field shutter that can be either manually or automatically controlled for spatially-uniform image quality.

TEMPERATURE CALIBRATION & MEASUREMENT

When optimized for the 0.9 – 1.7 μm waveband, the A6260sc 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 A6260sc becomes a perfect tool for high temperature thermal measurement in an oven, furnace, or environmental chamber.



Images through standard glass for high temperature measurements



Effective for solar cell design and testing



Visualizes subjects obscured by fog

SPECIFICATIONS

Features by Camera	A6261sc	A6262sc
Optional Temperature Calibration	400°C to 2200°C (752°F to 3992°F)	NA
Available Lenses	16 mm, 25 mm, 35 mm, 50 mm, 100 mm	25 mm

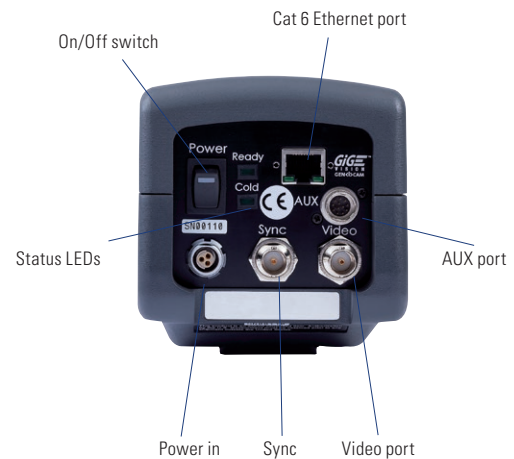
System Overview	
IR Resolution	640 x 512
Sensor Material	Indium gallium arsenide (InGaAs)
Detector Pitch	15 µm
Spectral Range	0.9 - 1.7 µm or 0.6 - 1.7 µm
Noise (NEI)	Low Gain: 8.35E9 photons/sec/cm ² Medium Gain: 2.89E9 photons/sec/cm ²
Quantum Efficiency	>60% from 1 to 1.6 µm
Well Capacity	Low Gain: 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 µs to 687 seconds
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	-20°C to 50°C (-4°F to 122°F)
Storage Temperature Range	-55°C to 80°C (-67°F to 176°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse / 4.3 g RMS random vibration, all 3 axes
Power	24 VDC (<50 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



CORPORATE HEADQUARTERS
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
PH: +1 877.773.3547

SANTA BARBARA
FLIR Systems, Inc.
6769 Hollister Ave.
Goleta, CA 93117
PH: +1 805.690.6600

CANADA
FLIR Systems, Ltd.
920 Sheldon Court
Burlington, ON L7L 5K6
Canada
PH: +1 800.613.0507

LATIN AMERICA
FLIR Systems Brasil
Av. Antonio Bardella,
320 Sorocaba, SP 18085-852
Brasil
PH: +55 15 3238 7080

CHINA
FLIR Systems Co., Ltd
Rm 1613-16, Tower II
Grand Central Plaza
138 Shatin Rural Committee Rd.
Shatin, New Territories
Hong Kong
PH: +852 2792 8955

EUROPE
FLIR Systems, Inc.
Luxemburgstraat 2
2321 Meer
Belgium
PH: +32 (0) 3665 5100

www.flir.com
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