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 newly-designed high resolution detector offers improved sensitivity and linearity across the full dynamic range, making it ideal for radiometry and temperature calibrated applications.

**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 and 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 and 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.

**Connectivity and Compatibility**
The FLIR A6260sc camera works seamlessly with FLIR ResearchIR Max software, enabling intuitive viewing, recording, and advanced processing of thermal data. The A6260sc is fully compliant with GigE Vision® and GeniCam, making it plug and play with other software programs, such as MathWorks® MATLAB. Use the optional SDK for integration into your own custom software program.

**Key Features**
- InGaAs detector: 0.9 - 1.7 μm or 0.6 - 1.7 μm waveband
- 640 x 512 pixel resolution image quality at 125 fps
- Superior sensitivity and linearity down to zero light
- Synchronization with other instruments
- Full GigE Vision® and GeniCam support
- Optional temperature calibration

www.flir.com/science
### Specifications

#### System Overview

<table>
<thead>
<tr>
<th>Feature</th>
<th>A6260sc</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR Resolution</td>
<td>640 x 512</td>
</tr>
<tr>
<td>Detector Type</td>
<td>Indium gallium arsenide (InGaAs)</td>
</tr>
<tr>
<td>Detector Pitch</td>
<td>15 µm</td>
</tr>
<tr>
<td>Spectral Range</td>
<td>0.9 - 1.7 µm or 0.6 - 1.7 µm</td>
</tr>
</tbody>
</table>
| Noise (NEI) | Low Gain: 8.35E9 photons/sec/cm²  
Medium Gain: 2.89E9 photons/sec/cm² |
| 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 Modes**: Asynchronous integrate while read  
Asynchronous integrate then read
- **Synchronization Modes**: Sync In, Sync Out, Trigger In
- **Integration Time**: 0.48 µs to 687 seconds
- **Frame Rate (Full Window)**: Programmable 0.0015 Hz to 125 Hz
- **Subwindow Modes**: User-defined size, centered in image
- **Max Frame Rate**: 25,614 Hz (32 x 4 window)
- **Dynamic Range**: 14-bit
- **Digital Data Protocol**: GigE Vision® 2.0
- **Analog Video**: NTSC, PAL
- **Command & Control**: GenICam

#### Measurement

- **Optional Temperature Calibration**: 400°C up to 3000°C

#### Optics

- **Camera f/number**: Lens dependent
- **Available Lenses**: 25 mm, 50 mm, 100 mm
- **Focus**: Manual
- **Filtering**: 25.4 mm diameter by 1 mm thick filter mount, behind the lens

#### Analog Video

- **Analog Palette**: 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**: 21.6 x 10.2 x 10.9 cm (8.5 x 4.0 x 4.3 in)
- **Mounting**: 2 x ¼ in-20, 1 x 3/8 in – 16, 4 x 10/24

Specifications are subject to change without notice.

For the most up-to-date specifications, go to www.flir.com

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