

## P/N: 29422-200

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### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.5 – 5.0 $\mu$ m
Resolution	1280 x 1024
Detector Pitch	12 $\mu$ m
Thermal Sensitivity/NETD	< 40 mK (< 30 mK typical)
Well Capacity	Gain 0: 3.0 Me-, Gain 1: 11.5 Me-
Operability	> 99.5% (> 99.9% typical)
Sensor Cooling	Linear Sterling Cooler
Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 181 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 6,100 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)



## FLIR X8500sc

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Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"><li>0°C to +3000°C (25 mm, 50 mm, 100 mm lenses)</li></ul> $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"><li>-20°C to 0°C (25 mm, 50 mm, 100 mm lenses)</li></ul>
Ambient Drift Compensation (with factory cal)	Yes
Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters
Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3
General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°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/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 157 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none"><li>2 x ¼ in. -20</li><li>1 x 3/8 in. -16</li><li>4 x #10-24</li><li>Side: 3x ¼ in. -20 (each side)</li></ul>

### Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet





