

## P/N: 29267-200

### Revision

47467

### Last modified

2018-02-06 10:54 UTC+1

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### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>



Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.5 – 5.0 $\mu\text{m}$
Resolution	640 x 512
Detector Pitch	25 $\mu\text{m}$
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	11.0 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

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 1004 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 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)

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)



# FLIR X6900sc

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Temperature Measurement	
Accuracy	± 1°C or ± 1% of reading: <ul style="list-style-type: none"> <li>0°C to +3000°C (25 mm, 50 mm, 100 mm lenses)</li> </ul> ± 2°C or ± 2% of reading: <ul style="list-style-type: none"> <li>-20°C to 0°C (25 mm, 50 mm, 100 mm lenses)</li> </ul>

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	N/A
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 (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
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 158 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