

P/N: 29267-201

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	25 μm
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)



FLIR X6901sc

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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 3,000°C (5,432°F)
Accuracy	± 1°C or ± 1% of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) ± 2°C or ± 2% of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) -10°C to +500°C (1x & 4x Close Up lenses)
Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
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"> 2 x ¼ in. -20 1 x 3/8 in. -16 4 x #10-24 Side: 3x ¼ in. -20 (each side)

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet





