

## P/N: 29421-201

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### Document identity

Publ. No.: 29421-201

Commit: 61327

Language:

Modified: 2019-11-20

Formatted: 2020-05-14

### 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](mailto:exportquestions@flir.com) with any questions.



<b>Detector data</b>	
Detector Type	Strained-Layer Superlattice
Spectral Range	7.5 $\mu\text{m}$ (lower), 11.5-12.5 $\mu\text{m}$ (upper)
Resolution	640 x 512
Detector Pitch	25 $\mu\text{m}$
Thermal Sensitivity/NETD	$\leq 45$ mK ( $\leq 40$ mK typical)
Well Capacity	11.0 M electrons
Operability	$\geq 98\%$ ( $\geq 99\%$ typical)
Sensor Cooling	Closed cycle rotary
<b>Electronics</b>	
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 32 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 SLS

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Temperature Measurement	
Standard Temperature Range (with band matched optics)	-20°C to 650°C (-4°F to 1202°F)
Optional Temperature Range (with band matched optics)	250°C – 1500°C (ND1) 500°C – 3000°C (ND2)
Accuracy	≤ 100°C ±2°C (±1°C typical) > 100°C ±2% of reading (±1% typical)
Ambient Drift Compensation (with factory cal)	Yes

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100 mm
Close-up Lenses/Microscopes	1X
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:

- 4215503; Lens 7.5-12 um 100 mm f/2.5 HDC Bayonet
- 4215424; Lens 7.5-12 um 17 mm f/2.5 HDC Bayonet
- 4215505; Lens 7.5-12 um 200 mm f/2.5 HDC Bayonet
- 4215496; Lens 7.5-12 um 25 mm f/2.5 HDC Bayonet
- 4215501; Lens 7.5-12 um 50 mm f/2.5 HDC Bayonet
- 4213642; Lens 7.5-12 um, 1X microscope, f/2.5 HDC Bayonet
- 4220499; FLIR Research Studio - 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio - Perpetual License (online activation)
- 4220646; FLIR Research Studio - Perpetual License (USB dongle)
- INST-EW-0000; Extended Warranty - Manual pricing
- INST-EWGM-0000; Premium Service Package - Manual pricing



## FLIR X6901sc SLS

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- INST-GM-0200; General Maintenance for RS6700, A67XXsc, A6604, SC4000, SC610X, SC670X, SC8000, SC8X4X, SC820X, SC6000, X85XXsc, X68XXsc, X69XXsc