HIGH RESOLUTION HIGH-SPEED IR CAN'T BE WRONG

Go Thermal!

inspect award 2017 winner

FLIR X6900sc MWIR Science-Grade

Extraordinary high-speed infrared with 1,000 fps at full resolution – 640 x 512.
3x faster minimum gating & 2x the horizontal resolution of the nearest competition.
Record breaking IR speeds over 29,000 fps.

Experience the Invisible.™

Contact us for more information or to schedule a demo today.

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FLIR® | The World's Sixth Sense®

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Call **1-888-43HADLAND** (1-888-434-2352) or email, sales@hadlandimaging.com
about high-speed visible, infrared & Flash X-ray imaging solutions.
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Extraordinary high-speed infrared with over 1,000 fps at full resolution – 640 x 512. 3x faster minimum gating & 2x the horizontal resolution of the nearest competition. Record breaking IR speeds over 29,000 fps.

FLIR X6900sc High-Speed MWIR Camera

- 1,000 fps full-frame – 640 x 512
- On-camera RAM recording
- Synchronization with other instruments & events
- Full GenICam support over GigE & CXP interfaces
- Filter wheel with auto filter recognition

Go thermal with the fastest full resolution MWIR camera.

The **FLIR X6900sc** is an extraordinarily fast, highly sensitive MWIR camera designed for scientists, researchers, and engineers. With advanced triggering, on-camera RAM/SSD recording, and a four-position motorized filter wheel, this camera offers the functionality to stop motion on high-speed events, whether they're in the lab or on the test range. The X6900sc captures full 640 x 512 images at 1,000 frames per second, making it the world's fastest full resolution, commercially-available thermal imaging camera.

Tech Specs

System Overview

Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0–5.0µm or 1.5–5.0µm
Resolution	640 x 512
Angular tracking accuracy	better than 0.1˚
Detector Pitch (pixel)	25µm²
Thermal Sensitivity/NETD	< 20mK
Well Capacity	11.0M 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	270ns to 687 sec
Pixel Clock	355MHz
Frame Rate (Full Window)	Programmable; 0.0015Hz to 1004Hz
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): 16GB, up to 26,000 frames, full frame SSD (non-volatile): > 4TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command & Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement

Standard Temperature Range	-4° to 662° F (-20° to 350°C)
Optional Temperature Range	Up to 2,732° F (1,500° C), Up to 3,632° F (2,000° C)
Accuracy	± 2% of reading or ± 2° C

Optics

Camera ƒ/Number	ƒ/2.5 or ƒ/4.1
Available Lenses (Uses FLIR HDC Optics)	3-5µm: 17mm, 25mm, 50mm, 100mm, 200mm Broadband (1-5µm): 25mm, 50mm, 100mm
Close-up Lenses/Microscopes	1x, 4x (3-5µm, requires ƒ/4.1 camera)
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Filter wheel, standard 1" 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
Digital Zoom	1x, 4x, 4:3

General

Operating Temperature Range	-4° to 122° F (-20° to 50° C)
Storage Temperature Range	-40° to 176° F (-40° to 80° C)
Shock/Vibration	40 g, 11msec 1/2 sine pulse/4.3 g RMS random vibration, all axes
Power	24VDC (< 50W steady state)
Weight w/handle, w/o lens	14 lbs (6.35 kg)
Size (LWH) w/o handle, lens	9.8 x 6.2 x 5.8" (249 x 158 x 147 mm)
Mounting	2 x 1/4–20, 1 x 3/8–16, 4 x #10–24, Side: 3x 1/4–20 (each side)

BETTER GEAR. BETTER RESULTS.
We've got the gear you need to get the job done right

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