GANTA SONG



Go Thermal in HD!

FLIR X8500sc MWIR Science-Grade

High-definition & high-speed infrared – 180 fps at full resolution – 1280 x 1024. Record breaking HD IR speeds up to 6,000 fps.

Experience the Invisible:

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





The World's Sixth Sense®

West Coast

1414 Soquel Ave, Suite 200 Santa Cruz, CA 95062 USA phone: 1-408-203-2727

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10 Park Place, Suite 507 Butler, NJ 07405 USA phone: 1-862-228-2185 Call 1-888-43HADLAND (1-888-434-2352) or email, sales@hadlandimaging.com about high-speed visible, infrared & Flash X-ray imaging solutions. FLIR on the web: www.flir.com



FLIR X8500sc HD High-Speed MWIR Camera

- 180 fps full-frame 1280 x 1024
 Up to 36 seconds of on-camera RAM recording
 Synchronization with other instruments & events
 Full GenlCam support over GigE, CXP,
 - & Camera Link interfaces
 Four-position motorized filter wheel

FLIR X8500sc – HD MWIR Science-Grade

High-definition, high-speed infrared with 180 fps at full resolution - 1280 x 1024. Record breaking HD IR speeds up to 6,000 frames per second.

Go thermal with true HD high-speed IR imaging.

The **FLIR X8500sc** is a highly sensitive, high-speed, high-definition MWIR camera designed for scientists, researchers, and engineers. It can record 180 fps at a full 1280 x 1024 pixel resolution, for true HD high speed thermal imaging. Windowing allows even faster frame rates of up to 6,000 fps. The X8500sc has all the features needed for research & science: from on-camera RAM/SSD recording to a four-position motorized filter wheel. Plus, by combining HD resolution with high-speed frame rates, researchers can fully image the scene and stop motion on high-speed events – whether they're in the lab or on the test range.

Temperature Measurement

Tech Specs

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System Overview	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0–5.0μm or 1.5–5.0μm
Resolution	1280 x 1024
Detector Pitch (pixel)	12μm²
Thermal Sensitivity/NETD	< 20mK
Well Capacity	11.5M electrons
Operability	> 99.5% (> 99.95% typical)
Sensor Cooling	Closed cycle linear
Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, IRIG-B, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock, TSPI accurate time stamp
Integration Time	480ns to 687 sec
Pixel Clock	355MHz
Frame Rate (Full Window)	Programmable; 0.0015Hz to 180Hz
Subwindow Mode	Flexible windowing (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16GB, up to 6,500 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 (GenlCam protocol supported over GigE, CXP or Camera Link)

-4° to 662° F (-20° to 350° C)
Up to 5,432° F (3,000° C)
\pm 2% of reading or \pm 2° C
f/2.5 or f/4.1
3-5μm: 17mm, 25mm, 50mm, 100mm, 200mm Broadband (1-5μm): 25mm, 50mm, 100mm
1x, 4x (3-5µm, requires f/4.1 camera)
FLIR HDC (4-tab bayonet)
Manual
Filter wheel, standard 1" filters
Selectable 8-bit
Manual, Linear, Plateau equalization, ROI, DDE
Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
HD: 720p/25/29.9/50/59.9 Hz, 1080p/25/29.9 Hz Composite: NTSC, PAL
1x, 4x, 4:3
-4° to 122° F (-20° to 50° C)
-40° to 176° F (-40° to 80° C)
40 g, 11msec 1/2 sine pulse/4.3 g RMS random vibration, all axes
24VDC (< 50W steady state)
14 lbs (6.35 kg)
9.5 x 6.5 x 6" (241 x 165 x 152 mm)





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For more information