



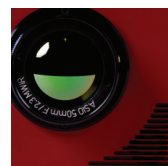
IRCameras

IRC906SLS BROADBAND INFRARED CAMERA

Incorporating an all-digital Strained Layer Superlattice (SLS) focal plane array (FPA), the IRC906SLS detects infrared radiation in both the mid-wave (MWIR) and long-wave (LWIR) spectral regions. It's like having two cameras in one - an optional embedded warm filter wheel allows the user to select specific wavelengths of interest in both the MWIR and LWIR regions, taking full advantage of the broadband response of the SLS sensor.

This 640 x 512 format, 20 micron pixel pitch scientific camera runs at up to 475 frames per second with no electronic crosstalk. Full rate image data is available via Camera Link; simultaneous Gigabit Ethernet (GigE) and HDMI outputs are also offered.

With its excellent sensitivity and broad spectral response, the IRC906SLS is well suited for spectroscopy, chemical analysis, target signature detection and characterization and material evaluation applications.



CAMERA CAPABILITIES

- 640 x 512 closed-cycle cooled SLS sensor
- 2.0 μm to 11.25 μm spectral response
- NE Δ T < 35 mK at full frame rate
- 475 Hz full window frame rate
- Motorized four position warm filter wheel optional
- Simultaneous CameraLink, GigE & HDMI outputs



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Specifications/features subject to change without notice

The products described by this document may require an export license for shipments outside of the United States. IRCameras must be notified at the time of order if the product will be exported so that an appropriate export license may be obtained

DETECTOR		IRC906 sIs
Detector type		Strained Layer Superlattice
Spectral response		<2.0 μ m - 11.25 μ m +/- .75 μ m
Resolution (pixels)		640 x 512
Pixel pitch		20 micron
IMAGING ELECTRONICS		
Frame rate @ max window size		475 Hz
Integration time		<500 ns to full frame
Dynamic range		14-bit with 13-bit option to increase frame rate at small window sizes
Windowing		User defined in 4 x 1 increments; min width = 320, min height = 8
Integration type		Snapshot, automatic selection of integrate while read or integrate then read
Ultra low latency sync		Sync I/O, integration out
Image data		Simultaneous CameraLink, GigE & HDMI
Communications		Serial over CameraLink & GigE
Software control		Cross platform GenICam compliant
PERFORMANCE		
NEdT		< 35 mK @ 30°C
Well capacity (electrons)		7 M
Operability		> 98%
OPTICS		
Camera f/#		f/2.3 coldshield standard
Cold filter		No cold filter standard; LWIR or custom filters on request
Lens mount		Bayonet
Optional filter wheel		Motorized four position warm filter wheel; 25.4 mm diameter x 1.0 mm thick filters
GENERAL		
Power @ 24 VDC		Steady state power consumption <40 W @ 25°C
System weight		< 13 pounds
Closed cycle cooler		Stirling Linear cooler
Size		8.5" (l) x 5.125" (w) x 6.7" (h)
Operating temperature range		-25° C to +50° C
Storage temperature range		-55° C to +80° C (-67° F to +176° F)
Environmental rating		IP-51
Mounting holes		2x 1/4-20 & 4x #10-24