IRCameras

IRC910 MID WAVE INFRARED CAMERA

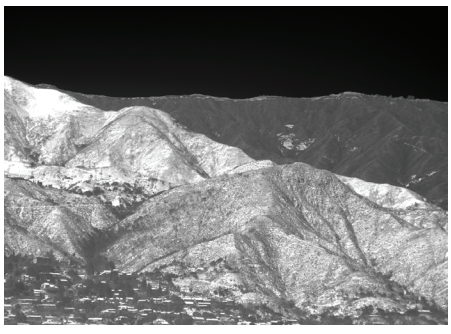
The IRC910 infrared camera takes advantage of the most advanced Indium Antimonide (InSb) focal plane array (FPA) technology available. This all-digital, high performance science grade camera delivers ultra-low noise imagery with no blooming or crosstalk.

The large pixel format provides the most sensitive HD infrared data on the market. The 25 µm pixel pitch delivers <18 mK NEdT and spectacular imagery. Plug into an HDMI monitor to take full advantage of the 1024 x 1024 resolution. The IRC910 can be configured with simultaneous CameraLink and GigE outputs along with IRIG-B and GPS for accurate date time stamping.

The IRC910 is delivered with our WinIRC software, and a Software Developers' Kit is available for integration into end user applications. The IRC910 is the perfect camera for scientific imaging, process analysis and medical imaging.

CAMERA CAPABILITIES

- 1024 x 1024 closed-cycle cooled InSb sensor
- <1 µm to >5 µm spectral response
- NEdT <18 mK
- 75 Hz Full frame rate with windowing
- Motorized four position filter wheel option
- Simultaneous Camera Link, GigE & HDMI outputs



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IRC910 MID WAVE INFRARED CAMERA

DETECTOR	IRC910
Detector type	Indium Antimonide (InSb)
Spectral response	<1.0 µm to 5.3 µm
Resolution (pixels)	1024 x 1024
Pixel pitch	25 µm
IMAGING ELECTRONICS	
Frame rate @ max window size	75 Hz
Integration time	<150 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 Camera Link, GigE & HDMI
Communications	Serial over Camera Link & GigE
Software control	Cross platform GenICam compliant
Image data stamp	Optional IRIG, GPS with on-board receiver
PERFORMANCE	
NEdT	18 mK
Well capacity (electrons)	10 M
Operability	99.8%
OPTICS	
Camera f/#	f/2.3 & f/4.0 standard; custom coldshields available on request
Cold filter	3.0 µm - 5.0 µm or no cold filter standard, optional CO2, SWIR or custom filters on request
Lens mount	Bolt hole pattern
Optional filter wheel	Motorized four position warm filter wheel; 12.5 mm diameter x 1.0 mm thick filters
GENERAL	
Power @ 24 VDC	35 W
System weight	<10 pounds
Closed cycle cooler	Linear
Size	6" X 6" X 9"
Operating temperature range	-40° C to +55° C (-40° F to +131° F)
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