

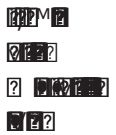


IRCameras

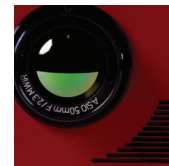
IRC910 MID WAVE INFRARED CAMERA

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 NE Δ T 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 data time stamping.

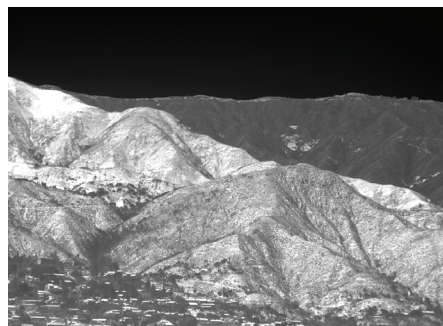


The IRC910 is the perfect camera for scientific imaging, process analysis and medical imaging.



CAMERA CAPABILITIES

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



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 CO ₂ , 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	