



DETECTOR	IRC912
Detector type	Indium Antimonide (InSb)
Spectral response	<1.0 $\mu\text{m}$ to 5.3 $\mu\text{m}$
Resolution (pixels)	1280 x 1024
Pixel pitch	12 $\mu\text{m}$
IMAGING ELECTRONICS	
Frame rate @ max window size	119 Hz
Integration time	<150ns to full frame time
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	
Temperature measurement range	-20° to 350° C standard, up to 2000° C optional
NEdT	<30 mK
Well capacity (electrons)	2 M
Operability	99.8%
OPTICS	
Camera f/#	f/2.3 & f/4.0 standard; custom coldshields available on request
Cold filter	3.0 $\mu\text{m}$ - 5.0 $\mu\text{m}$ or no cold filter standard, optional CO <sub>2</sub> , SWIR or custom filters on request
Lens mount	Bayonet
Optional filter wheel	Motorized four position warm filter wheel; 12.5 mm diameter x 1.0 mm thick filters
GENERAL	
Power @ 24 VDC	28 W
System weight	<7 pounds
Closed cycle cooler	Rotary, Linear (optional)
Size	5.1" x 5.8" x 8"
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