



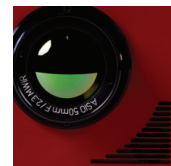
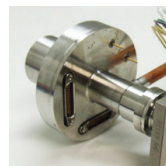
IRCameras

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



| 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 |