

## Sensor Engines

We offer integrated sensor engines suitable for the OEM customer who wants to build a high performance infrared imaging system around a QWIP sensor but doesn't want to bother with sensor integration.



Model shown: QT100S  
with Ricor 508 microcooler

### QT100S & QT200S

We supply dewar and cryocooler assemblies integrated with either our mid-format or large format QWIP FPAs:

Array size	320 x 256 or 640 x 512 pixels
Pixel pitch	30µm for 320 x 256 25µm for 640 x 512
Fill factor	>87%
Spectral band center	8.6µm, FWHM 1.2µm
NEDT	<25mK with f/2 optics
D*	~6 x 10 <sup>10</sup>
Operability	>99.5%
Number of outputs	1, 2, or 4 selectable
Maximum Frame rate	350Hz for 320 x 256 107Hz for 640 x 512
Windowing	Dynamic, regions >128 x 2
Integration mode	Snapshot; integrate while/then read
Cooler	Closed cycle Stirling microcooler ½W or ¾W, split linear also available
Input power	12-18V or 24V 17W or 40W max at cool down
MTTF	>8000 hours
Cool down time	<7 mins typical
Cold shield	f/2 or customer selectable
Size	Varies according to cooler