



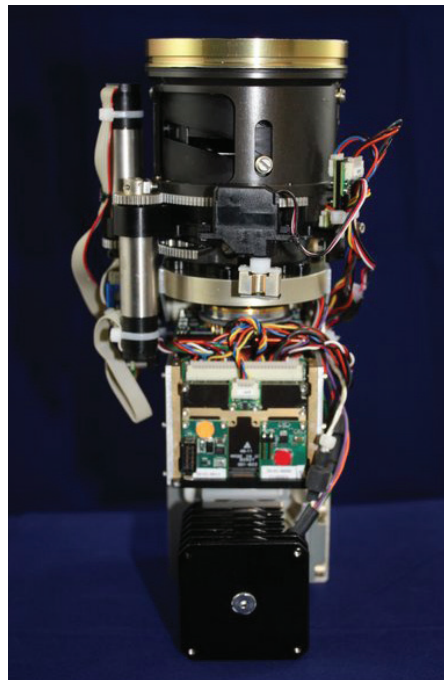
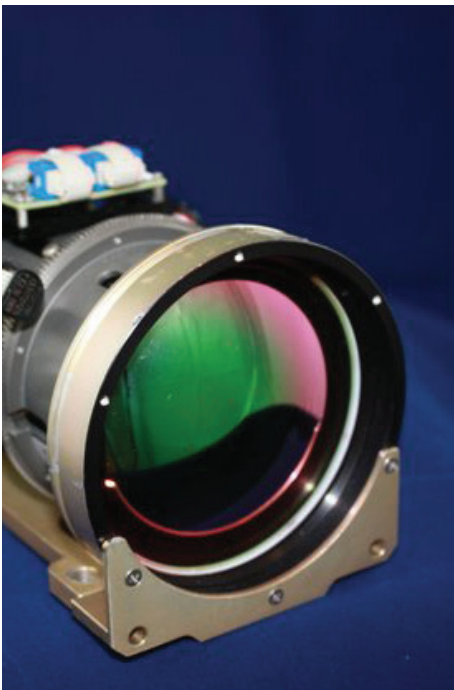
IRCameras

QUAZIR™ MWIR INSB CAMERA CORES

QuazIR™, IRC's new family of MWIR OEM camera cores are among the most advanced cooled OEM sensor packages produced today. Available in either 320 x 256, 640 x 512 or high definition 1280 x 1024 formats, IRC's QuazIR™ camera cores provide the superior performance of a mid wave sensor in a package specifically configured for applications where size, weight and power are critical considerations.

The QuazIR™ cores can be configured with a choice of fixed or continuous zoom optics, and can be adapted to support custom lens designs. Both camera and optics can be controlled through a single integrated communications interface.

Flexible digital and analog outputs, low power consumption and unmatched thermal sensitivity result in a high performance infrared imaging solution appropriate for mission critical fixed, mobile and airborne applications.



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Specifications/features subject to change without notice

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DETECTOR	QuazIR™ ₃₂₀	QuazIR™ _{SD}	QuazIR™ _{HD}
Detector type	Photovoltaic Indium Antimonide		
Spectral response	3.0 μm – 5.0 μm, 3.6 μm – 4.9 μm, 1.5 μm – 5.3 μm broadband		
Resolution (pixels)	320 x 256	640 x 512	1280 x 1024
Pixel pitch	30 μm	15 μm x 15 μm or 20 μm x 20 μm	12 μm x 12 μm or 15 μm x 15 μm
Operability	≥99.5%		
NEdT	< 15 mK typical		< 30 mK typical
DEWAR/COOLER			
Cooler type	Rotary or linear Stirling cryocooler		
Detector operating temperature	77°K or 95°K depending on sensor material		
Cool down time	< 6 Minutes @ 23°C - < 8 minutes @ 60° C ambient typical		
Cold shield f#	f/2.3, f/4.0 or f/5.5 standard; others available on request		
ELECTRONICS			
Display formats	480i or 480p		720p or 1080p
Analog display video	NTSC or PAL		HD-SDI
Digital data	Camera Link, GigE		
Video compression	H.264 (optional)		
Synchronization modes	Internal/external sync and clock		
Maximum frame rate –full frame	366 Hz	94 Hz	60 Hz
Lens direct technology	Native support for motorized focus and continuous zoom lenses		
IMAGE PRESENTATION			
Processing	Local area processing dynamic contrast enhancement, noise reduction, edge enhancement, AGC/ALC, electronic zoom, multi color palettes, symbology, reticle		
GENERAL			
Power	+12 V DC Nominal, +24 V DC Optional		
Power consumption	<8 W capable @ 23° C ambient steady state (w/o lens) <12 W capable @ 23° C ambient during cool down (w/o lens)		
Weight	<2 pounds (w/o lens)		
Size	5.5" (l) x 2.85" (h) x 2.5" (w) (Typical w/o lens)		
Operating temperature range	-40° to 65° C		
Storage temperature range	-50° to 70° C		
OPTICS			
Available f/2.3	Fixed focal length 13, 25, 50, 100 mm		
Available f/4.0	15 – 250 mm continuous zoom (optional 2.4x extender) 15 - 300 mm continuous zoom (optional 2.0x extender) 15 – 330 mm continuous zoom (optional 2.0x, 2.3x, 2.5x extender)		
Available f/5.5	19 - 275 mm continuous zoom (optional 1.5x, 2.0x, 2.55x extender) 20 - 320 mm continuous zoom (optional 2.0x, 2.3x extender) 15 - 435 mm continuous zoom (optional 2.0x, 2.3x, 2.5x extender)		
Custom lens options	Consult factory		