

LWIR Continuous zoom – commercial off the shelf lens

JASPER

Cooled LWIR 60 – 240 mm Continuous zoom Lens with DSP controller



FEATURES / APPLICATIONS / CAPABILITIES

- Ultra Compact continuous zoom lens
- Suitable for various applications
- Rugged design for harsh environments

PARAMETER		VALUE	NOTES
Main	Sub		
OPTICAL			
Focal Length / F#		60 – 240mm F/2.76	Nominal values.
Detector (FPA) type / size		640 x 512 pixels x 16 microns	Cooled detector with cold shield position at 22.2mm nominal.
Optical Spectral Range		8.0 – 9.4 microns	
FOV (degrees)		Wide FOV: 9.6 °(H) x 7.7° (V) Narrow FOV: 2.38°(H)x1.92°(V)	For detector size of 640 x 512 x 16 microns
Optical Coatings			
	All internal surfaces	High efficiency AR coating	More than 90% transmittance
	Front surface	High durability AR coating	DLC is available upon request
Optical Total lens track		120 mm	Front element vertex to FPA
MECHANICAL			
Mechanical Back Focal Length		6.5 mm	Free air gap between rear flange of lens and detector glass.
Zoom mechanism/ Focus		Motorized	
Total Weight		830 grams	Nominal
External Dimensions		100 mm width x 105 mm length	
ELECTRICAL			
Power Input		12VDC, 0.5 A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
ENVIRONMENTAL			
Operating/Storage Temperature		-20°C to +50°C / -30°C to +60°C	
Shock and Vibrations		Per applicable standard	