

--- 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		
<b>OPTICAL</b>			
<b>Focal Length / F#</b>		60 – 240mm F/2.76	Nominal values.
<b>Detector (FPA) type / size</b>		640 x 512 pixels x 16 microns	Cooled detector with cold shield position at 22.2mm nominal.
<b>Optical Spectral Range</b>		8.0 – 9.4 microns	
<b>FOV (degrees)</b>		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
<b>Optical Coatings</b>			
	<b>All internal surfaces</b>	High efficiency AR coating	More than 90% transmittance
	<b>Front surface</b>	High durability AR coating	DLC is available upon request
<b>Optical Total lens track</b>		120 mm	Front element vertex to FPA
<b>MECHANICAL</b>			
<b>Mechanical Back Focal Length</b>		6.5 mm	Free air gap between rear flange of lens and detector glass.
<b>Zoom mechanism/ Focus</b>		Motorized	
<b>Total Weight</b>		830 grams	Nominal
<b>External Dimensions</b>		100 mm width x 105 mm length	
<b>ELECTRICAL</b>			
<b>Power Input</b>		12VDC, 0.5 A	Nominal
<b>Communication Protocol</b>		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
<b>ENVIRONMENTAL</b>			
<b>Operating/Storage Temperature</b>		-20°C to +50°C / -30°C to +60°C	
<b>Shock and Vibrations</b>		Per applicable standard	
<b>Front lens sealing</b>		IP67	By request

