## -MWIR Continuous zoom - commercial off the shelf lens

## JUNO

DARAMETER

MWIR 18 - 275 mm F/5.5 Continuous zoom High accuracy Lens with DSP controller

## FEATURES / APPLICATIONS / CAPABILITIES

- X15 zoom ratio for F/5.5 cooled detectors
- Weighs ONLY 220g. Ultra-compact configuration
- Optimized for high accuracy payloads for various applications
- Focus is maintained through the entire zoom range



PARAMETER	VALUE	NOTES	
Main Sub			
<b>◎</b> OPTICAL			
Focal Length / F#	18 - 275 mm F/5.5	Nominal values. F# constant over zoom range	
Detector (FPA) type / size	For 9.6 mm x 7.68 mm F/5.5	For 9.6 mm x 7.68 mm F/5.5 cooled detectors with 19 – 22 mm cold shield	
Working Spectral Range	3 – 5 <b>µ</b>	3 – 5µ	
FOV (degrees)	Wide FOV: 30.6°(H) x 24.5° (V Narrow FOV:2.05° (H) x 1.6°(		
Optical Coatings			
All internal surfac	es High efficiency AR coating	Average transmission: 90%	
Front surface	High Durability AR (HDAR)	DLC is optional upon request	
Optical Total lens track	66.5 mm	Nominal	
Optical Back Focal Length	27.5 mm	Nominal	
Boresight Retention	≤ 0.015mm radius at the foca	≤ 0.015mm radius at the focal plane	
Through-zoom Boresight	≤ 0.05mm radius at the focal	≤ 0.05mm radius at the focal plane	
MECHANICAL			
Mechanical Back Focal Leng	gth Nominal 24.3 mm	Nominal	
Focus / Zoom mechanism	Motorized	5m - Infinity	
Total Weight	220 grams	Nominal, including electronic board	
Ext. Dimensions ø x length (mm) 63.5x70 (Please refer to MICD for details)			
P ELECTRICAL			
Power Input	12VDC, 1.0 A	Nominal	
Communication Protocol	RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1	
<b>6</b> ENVIRONMENTAL			
Operating/Storage Temperature -25°C to +55°C / -40°C to +70°C		0°C	
Shock and Vibrations	Per applicable standard		
Front lens sealing	IP67	By request	

