

MWIR Continuous zoom – commercial off the shelf lens

FOLDED-L

MWIR 15 - 300 mm F/4 Continuous zoom
 Lens with DSP controller



FEATURES / APPLICATIONS / CAPABILITIES

- The ultimate solution for various applications such as stabilized small payloads
- Also available with X2 beam expander. Focal length 30-600
- Focus is maintained through the entire zoom range providing extremely fast zoom and focus response

PARAMETER		VALUE	NOTES
Main	Sub		

🔍 OPTICAL			
Focal Length / F#		15 - 300 mm / F 4	Nominal values. F# constant over zoom
Detector (FPA) type / size		For 9.6 mm x 7.68 mm F/4 cooled detectors with 19 – 22 mm cold shield	
Working Spectral Range		3 – 5 μ	
FOV (degrees)		Wide FOV: 25.5°(H) x 21° (V) Narrow FOV:1.85°(H) x 1.5°(V)	For detector size of 7.68 x 9.6 mm All values to within \pm 5%
🔧 MECHANICAL			
Optical Coatings			
	All internal surfaces	High efficiency AR coating	Average transmission: 90%
	Front surface	High durability AR coating	DLC is available upon request
Optical Back Focal Length		34 mm	Nominal
Mechanical Back Focal Length		24.7 mm	Nominal
Zoom mechanism		Motorized	With 2 motors
Focus Range		10m – Infinity (wide) 30m – Infinity (Narrow)	
Total Weight		850 grams	Nominal
External Dimensions		Max Diameter: 144 mm; Length: 140 mm (Please refer to MICD for details)	
💡 ELECTRICAL			
Power Input		12VDC, 1.0A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
🌡 ENVIRONMENTAL			
Operating/Storage Temperature		-30°C to +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	

