

## MWIR Continuous zoom – commercial off the shelf lens

### FOLDED-L, I, C SERIES

MWIR 15 - 300mm 30 - 600mm F/4 Continuous zoom Folded Lenses

L – Compatible with Leo (Sofradir) or Pelican–D (SCD) detector

I – Single folded

C – Compatible with Scorpio (Sofradir) detector.

#### FEATURES / APPLICATIONS / CAPABILITIES

- Intended for various volume restricted applications
- Focus is maintained through the entire zoom range providing extremely fast zoom and focus response



PARAMETER		FOLDED-300	FOLDED-600
Main	Sub		
<b>OPTICAL</b>			
Focal Length / F#		20 - 300 mm F/4	40 - 600 mm F/4
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 $\mu$	
FOV (degrees)		Wide FOV: 26.9°(H) x 21.7° (V) Narrow FOV: 1.85°(H) x 1.5°(V)	Wide FOV: 13.4°(H) x 10.8° (V) Narrow FOV: 0.95°(H) x 0.75°(V)
<b>Optical Coatings</b>			
	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	
<b>MECHANICAL</b>			
Mechanical Back Focal Length		24.7 mm Nominal	
Zoom mechanism		Motorized with 2 motors	
Focus Range		10m – Infinity (wide) 30m – Infinity (Narrow)	
Thru zoom boresight		Better than 0.15 mm	
NFOV boresight retention		Better than 0.045 mm	
Total Weight		950 grams	2 kg
External Dimensions		Diameter: 144 mm; Length: 140 mm (Please refer to MICD for details)	Diameter: 165 mm; Length: 212 mm (Please refer to MICD for details)
<b>ELECTRICAL</b>			
Power Input		12VDC, 1.0A Nominal	
Communication Protocol		RS-422/232 Full Duplex Baud rate 19,200, n, 8, 1	
<b>ENVIRONMENTAL</b>			
Operating/Storage Temperature		-25°C to +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67 By request	