

MWIR Continuous zoom – commercial off the shelf lens

## FOLDED-L,I,S SERIES

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

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

I – Single folded

S – 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>			
<b>Focal Length / F#</b>		15 - 300mm F/4	30 - 600mm F/4
<b>Detector (FPA) type / size</b>		For 9.6 mm x 7.68 mm F/4 cooled detectors with 19 – 22 mm cold shield	
<b>Working Spectral Range</b>		3 – 5 $\mu$	
<b>FOV (degrees)</b>		Wide FOV: 25.5°(H) x 21° (V) Narrow FOV:1.85°(H) x 1.5°(V)	Wide FOV: 18°(H) x 14.6° (V) Narrow FOV:0.95°(H) x 0.75°(V)
<b>Optical Coatings</b>			
	<b>All internal surfaces</b>	High Efficiency AR coating Average transmission: 90%	
	<b>Front surface</b>	High Durability AR coating (default for 300) DLC is available upon request (default for 600)	
<b>Optical Back Focal Length</b>		34 mm	
<b>MECHANICAL</b>			
<b>Mechanical Back Focal Length</b>		24.7 mm Nominal	
<b>Zoom mechanism</b>		Motorized with 2 motors	
<b>Focus Range</b>		10m – Infinity (wide) 30m – Infinity (Narrow)	
<b>Total Weight</b>		950 grams	2 kg
<b>External Dimensions</b>		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>			
<b>Power Input</b>		12VDC, 1.0A 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>		-30°C to +55°C / -40°C to +70°C	
<b>Shock and Vibrations</b>		Per applicable standard	
<b>Front lens sealing</b>		IP67	

