

MWIR Continuous zoom – commercial off the shelf lens

GALAXY

MWIR 20 – 300mm F/3.4-4.0 Continuous zoom
 Double folded Lens for 10μ HD sensors



FEATURES / APPLICATIONS / CAPABILITIES

- Highest resolution performance over entire zoom range
- 180° Folded, Compact & light weight design
- Rugged and robust built for harsh environmental conditions
- Focus is maintained throughout the entire zoom range, with extremely fast zoom and focus response
- Available in several versions to support multiple applications
- Available with different Beam Extender (x1.5, x1.8, x2)

PARAMETER		VALUE	NOTES
Main	Sub	GALAXY Lens	

OPTICAL			
Focal Length / F#		20 – 300 mm F/3.4-4.0	Nominal Values
Detector Size / Cold Shield Height		1280 x 1024 x 10μ detectors	Regular 19-22mm CSH
Working Spectral Range		3-5μ	
FOV (degrees)	Wide FOV	35.7°(H) x 28.8°(V) 24.0°(H) x 19.4°(V)	
	Narrow FOV	2.42°(H) x 1.96°(V) 1.63°(H) x 1.30°(V)	
Optical Coatings	Internal surfaces	High efficiency AR coating	Average transmission: 90%
	Front surface	High durability AR coating	DLC is available upon request
Optical Total lens track		170 mm Nominal	Lens is folded
Optical Back Focal Length		32 mm Nominal	
MECHANICAL			
Mechanical Back Focal Length		~ 28mm	Nominal for standard MICD.
Zoom mechanism		Motorized	
Focus Range		10m - Infinity	
Thru zoom boresight		≤0.15mm radius at focal plane	
NFOV boresight retention		≤0.045mm radius at focal plane	
Total Weight – Lens only		~970gr	
External Dimensions -Lens only		170(L)x110(W)x 150(H)	Please refer to MICD
ELECTRICAL			
Power Input		12VDC, 1.0 A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
ENVIRONMENTAL			
Operating/Storage Temperature		-25°C to +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 By request

