

MWIR Continuous zoom – Commercial off the shelf lens

GALAXY

MWIR 20–300mm F/3.4 Continuous zoom Lens
for 1280 x 1024 x 10 μ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Highest sensitivity F/3.4 zoom lens
- 180° Folded, Compact design
- Rugged and robust built for harsh environmental conditions
- Available with different front extenders (x1.5, x1.8, x2)



	HFOV for Wide (20mm)				HFOV for Narrow (300mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
10u	18.1°	28.7°	35.4°	0.028	1.22°	2°	2.45°	0.0019
12u	21.7°			0.034	1.5°			0.0023
15u	26.9°			0.043	1.83°			0.0028
16u	28.7°			0.045	2°			0.0031

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL			
Focal Length / F#		20–300mm F/3.4	
Detector (FPA) type / size		Up to 1280 x 1024 x 10 μ	
Working Spectral Range		3 - 5 μ	
Optical Coatings	Internal surfaces	High efficiency AR coating	
	Front surface	High durability AR coating	DLC is available upon request
CSH		19-22mm	
MECHANICAL			
Focus / Zoom mechanism		Motorized	
Focus Range		5m / 30m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight		\leq 0.15mm radius at focal plane	
NFOV boresight retention		\leq 0.045mm radius at focal plane	
Total Weight		970gr.	
Ext. Dimensions L x W x H (mm)		170 x 110 x 150	
ELECTRICAL			
Power Input		12VDC, 1.0 A	
Communication Protocol		RS-422/232 Full Duplex	
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

*All values are nominal: to within \pm 5%

