

MWIR Continuous zoom – Commercial off the shelf lens

FOLDED SERIES

MWIR 20-300mm, 40-600mm F/4.0 Continuous zoom Lens for 640 x 512 x 15μ cooled detectors



FEATURES / APPLICATIONS / CAPABILITIES

- 180° double Folded, Compact & light weight design
- Intended for various volume restricted applications
- Focus is maintained through the entire zoom range providing extremely fast zoom and focus response
- Available in several versions to support multiple detector types

	HFOV for Wide				HFOV for Narrow			
	20mm		40mm		300mm		600mm	
	640x512	IFOV*	640x512	IFOV*	640x512	IFOV*	640x512	IFOV*
10u	18.1°	0.028	9.15°	0.014	1.22°	0.0019	0.61°	0.00095
12u	21.7°	0.034	10.9°	0.017	1.5°	0.0023	0.73°	0.0011
15u	26.9°	0.043	13.6°	0.021	1.83°	0.0028	0.92°	0.0014

*IFOV is indicated in mrad

PARAMETER		VALUE		NOTES
Main	Sub			
OPTICAL				
Focal Length / F#		20-300mm F/4.0		40-600mm F/4.0
Detector (FPA) type / size		Up to 640 x 512 x 15μ		
Working Spectral Range		3.6 – 4.8μ		
Optical Coatings	Internal surfaces	High Efficiency AR		
	Front surface	High Durability AR		
CSH		19-22mm		
MECHANICAL				
Focus / Zoom mechanism		Motorized		
Through zoom boresight		≤0.15 mm radius at the focal plane		
NFOV boresight retention		≤0.075 mm radius at the focal plane		
Focus Range		20m/100m - Infinity	40m/200m - Infinity	For WFOV / NFOV accordingly
Total Weight		700gr	2Kg	
Ext. Dimensions L x W x H (mm)		140 x 92 x 144	212 x 165 x 169	More configurations are available
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	

*All values are nominal: to within ±5%

