

MWIR Continuous zoom – Commercial off the shelf lens

ELLA

MWIR 25-500mm F/5.5 Continuous zoom Lens
for 640 x 512 x 15μ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- The Highest zoom ratio available
- Front beam extenders are available, to achieve 1400mm FL
- Focus is maintained through the entire zoom range providing extremely fast zoom and focus response



	HFOV for Wide				HFOV for Narrow (430mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
15u	22.2°			0.034	1.1°			0.0017

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL

Focal Length / F#	25 - 500mm / F 5.5		
Detector (FPA) type / size	Up to 640 x 512 x 15μ		
Working Spectral Range	3 – 5μ		
Optical Coatings	All 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	With 2 motors
Focus Range	5m / 30m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight	≤0.15 mm radius at the focal plane	
NFOV boresight retention	≤0.09 mm radius at the focal plane	
Total Weight	900gr	
Ext. Dimensions ø x length (mm)	103 x 116	
NUC / Filter	Implemented between lens & detector	

ELECTRICAL

Power Input	12VDC, 3.0 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 ±5%

