


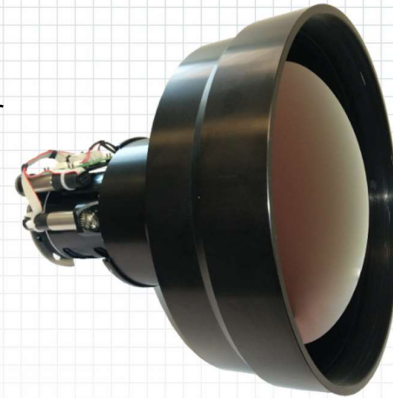
MWIR Continuous zoom – commercial off the shelf lens

 +Beam Expander*

ODEM+ Beam Expander

25 – 460mm, 30 – 660mm, 40 – 825 mm

MWIR F/4.0 Continuous zoom Lens with DSP controller



FEATURES / APPLICATIONS / CAPABILITIES

- Highest resolution performance over entire zoom rang
- Very high focal length zoom lens with highest zoom ratio
- Rugged design to comply with various applications
- Focus is maintained throughout the entire zoom range, with extremely fast zoom and focus response

PARAMETER		VALUE	NOTES
Main	Sub		
OPTICAL			
Focal Length / F#		25-460, 30-660, 40-825 mm	Nominal. F/4.0 const. over zoom range
Detector (FPA) type / size		For 9.6 mm x 7.68 mm F/4.0 Cooled detectors with 19 - 22 mm CSH	
Working Spectral Range		3 – 5 μ	
FOV (degrees) of the ODEM460 (ODEM + X1.4 BE) 25-460mm		Wide FOV:21.7° (H) x 17.5°(V) Narrow FOV:1.2°(H) x 1°(V)	For detector size of 9.6 x 7.68 mm All values are nominal: to within +/- 5%
FOV (degrees) of the ODEM660 (ODEM + X2 BE) 30-660mm		Wide FOV:18.2° (H) x 14.6°(V) Narrow FOV:0.9°(H) x 0.7°(V)	
FOV (degrees) of the ODEM825 (ODEM + X2.5 BE) 40-825mm		Wide FOV:14.4° (H) x 11.5°(V) Narrow FOV:0.67°(H) x 0.53°(V)	
Optical Coatings	Internal surfaces	High efficiency AR coating	Average transmission: 90%
	Front surface	DLC	
LENS		ODEM460	ODEM660
Optical Total lens track		~192mm	~260mm
Optical Back Focal Length		26 mm Nominal	
MECHANICAL			
Mechanical Back Focal Length		~ 15mm Nominal for standard MICD. (Customized lengths are available)	
Zoom mechanism		Motorized	
Focus Range		15m - Infinity	40m – Infinity
Total Weight (Nominal)		~2,400gr	~3,000 gr.
Ext. Dimensions (DiamxLength)		135 x 192mm	206 X 245mm
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		-30°C to +50°C / -40°C to +70°C	
Front lens sealing		IP67 By default	

