

MWIR Continuous zoom – Commercial off the shelf lens

ODEM x BE

MWIR 25-460mm, 30-660mm, 40- 825 mm F/4.0
 Continuous zoom Lens for 640 x 512 x 15μ cooled detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Constant F# 4.0
- Rugged design to fit various applications
- Focus is maintained throughout the entire zoom range, with extremely fast zoom and focus response

	HFOV for Wide						HFOV for Narrow					
	25mm		30mm		40mm		460mm		660mm		825mm	
	640x512	IFOV*	640x512	IFOV*	640x512	IFOV*	640x512	IFOV*	640x512	IFOV*	640x512	IFOV*
10u	14.5°	0.023	12.1°	0.019	9.15°	0.014	0.8°	0.0012	0.6°	0.008	0.44°	0.007
12u	17.4°	0.027	14.5°	0.023	10.9°	0.017	0.96°	0.0015	0.7°	0.001	0.53°	0.008
15u	21.7°	0.034	18.1°	0.029	13.7°	0.021	1.5°	0.0019	0.85°	0.001	0.7°	0.001

*IFOV is indicated in mrad

PARAMETER		VALUE
Main	Sub	
OPTICAL		
		ODEM460
		ODEM660
		ODEM825
Focal Length / F#		25-460mm F/4.0 30-660mm F/4.0 40-825mm F/4.0
Detector (FPA) type / size		Up to 640 x 512 x 15μ
Working Spectral Range		3.6 – 4.8μ
Optical Coatings	All internal surfaces	High efficiency AR coating
	Front surface	DLC coating (please note: HDAR is available upon request)
CSH		19-22mm
MECHANICAL		
Focus / Zoom mechanism		Motorized
Through zoom boresight		≤0.15 mm radius at the focal plane
NFOV boresight retention		≤0.09 mm radius at the focal plane
Focus Range		30m - Infinity 50m - Infinity 100m - Infinity
Total Weight		2.4Kg 2.8Kg 4.8Kg
Ext. Dimensions ø x length (mm)		135 x 192 188 x 220 228 x 268
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		IP67

*All values are nominal: to within ±5%

