

MWIR Continuous zoom – commercial off the shelf lens

ODEM Series

MWIR 15 - 330 mm F/4.0 Continuous zoom
Lens with DSP controller



FEATURES / APPLICATIONS / CAPABILITIES

- Highest resolution performance over entire zoom range
- Compact & Light weight design
- Rugged and robust built for harsh environmental conditions
- Focus is maintained throughout the entire zoom range, with fast zoom and focus response
- Available in several versions to support multiple applications

PARAMETER	ODEM	ODEM/p	IRIS-P	NOTES
OPTICAL				
Focal Length	15-330 mm	18-320 mm	18-330 mm	Nominal values.
F#	4.0			F# constant over zoom range
Cooled Detector - Size / Cold Shield Height (CSH)	9.6 x 7.68mm / 19-22mm	9.6 x 7.68 mm / 14.5 mm	9.6 x 7.68 mm / 19-22 mm	
Spectral Range	3 – 5 μ			
FOV (degrees) Wide/ Narrow FOV: H x V	35.7°x29° 1.7°x1.4°	29.8°x24° 1.7°x1.4°	29.8°x24.1° 1.7°x1.4°	
Optical Coatings				
All internal surfaces	High efficiency AR coating			Average transmission: 90%
Front surface	High durability AR coating			DLC is available upon
Optical Total lens track	138 mm		153 mm	Nominal
Optical Back Focal Length	~ 26 mm	14.5 mm	~ 34 mm	Nominal
MECHANICAL				
Mechanical BFL	~ 15 mm		~ 30 mm	Nominal for standard MICD.
Zoom mechanism	Motorized			
Focus Range	10m – Infinity		5m – Infinity	
Total Weight	850 grams	830 grams	900 grams	Nominal
External Dimensions Diameter, Length	96 mm ,123 mm		96 mm, 128 mm	
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	-30°C to +70°C / -40°C to +70°C			
Shock and Vibrations	Per applicable standard			
Front lens sealing	IP67			

