

MWIR Continuous zoom – commercial off the shelf lens

μRUBY

MWIR 18 - 275 mm F/5.5 Continuous zoom
 Lens with DSP controller



FEATURES / APPLICATIONS / CAPABILITIES

- X15 zoom ratio for F/5.5 cooled detectors
- **Weights only 280g.** Ultra-compact configuration
- Optimized for stabilized payloads for various applications
- Focus is maintained through the entire zoom range

PARAMETER		VALUE	NOTES
Main	Sub		

🔍 OPTICAL			
Focal Length / F#		18 - 275 mm / F 5.5	Nominal values. F# constant over zoom range
Detector (FPA) type / size		For 9.6 mm x 7.68 mm F/5.5 cooled detectors with 19 – 22 mm cold shield	
Working Spectral Range		3 – 5 μ	
FOV (degrees)		Wide FOV: 30.6°(H) x 24.5° (V) Narrow FOV:2.05° (H) x 1.6°(V)	For detector size of 9.6 x 7.68 mm
👉 Optical Coatings			
	All internal surfaces	High efficiency AR coating	Average transmission: 90%
	Front surface	High durability AR coating	DLC is available upon request
Optical Total lens track		66.5 mm	Nominal
Optical Back Focal Length		27.5 mm	Nominal
⚙️ MECHANICAL			
Mechanical Back Focal Length		Nominal 24.3 mm	Nominal
Focus / Zoom mechanism		Motorized	5m - Infinity
Total Weight		280 grams	Nominal
External Dimensions		Max Diameter: 63.5mm; Length: 73mm (Please refer to MICD for details)	
💡 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 +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	

