---- MWIR Continuous zoom – commercial off the shelf lens

## **DIAMOND**

MWIR 18 - 430 mm F/5.5 Continuous zoom Lens with DSP controller

## FEATURES / APPLICATIONS / CAPABILITIES

- The Highest zoom ratio available!
- The ultimate solution for various applications such as stabilized small payloads
- Front focal length extenders are available, to achieve more than 1400 mm FL
- Focus is maintained through the entire zoom range providing extremely fast zoom and focus response



PARAM		VALUE	NOTES
Main	Sub		
	ICAL		
Focal Length / F#		18 - 430 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: 29.8°(H) x 24.1° (V) Narrow FOV:1.28°(H) x 1.02°(V)	For detector size of $7.68 \times 9.6$ mm All values to within $\pm 5\%$
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		130 mm	Nominal
Optical Back Focal Length		24.7 mm	Nominal
🔅 MEC	CHANICAL		
Mechanical Back Focal Length		22 mm	Nominal
Zoom mechanism		Motorized	With 2 motors
Focus Range		5m – Infinity	
Total Weight		930 grams	Nominal
External Dimensions		Max Diameter: 96 mm; Length: 125.05 mm (Please refer to MICD for details)	
🗣 ELE	CTRICAL		
Power Input		12VDC, 1.0 A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
ENV	IRONMENTAL		
Operating/Storage Temperature		-30°C to +50°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	By request

