

HAWK

MWIR 18 – 330 mm Continuous zoom Lens with DSP controller

TECHNICAL SPECIFICATIONS



FEATURES / APPLICATIONS / CAPABILITIES

- Unique continuous MWIR zoom lens for short cold shield distance (14.5 mm)
- Optimized for Defense and Homeland Security application, compact and light weight
- Focus maintained over entire zoom range with fast and smooth operation
- Rugged and robust design and construction for harsh environmental demands

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL

Focal Length / F#	18-330 mm / F# 4.0	Nominal values. F# constant over zoom range
Detector (FPA) type / size	For 9.6 mm x 7.68 mm cooled detectors with 14.5 mm cold shield	
Working Spectral Range	3 - 5 μ m	
FOV (degrees)	Wide FOV:29.8°(H) x 23.8° (V) Narrow FOV:1.7°(H) x 1.4° (V)	For detector size of 7.68 x 9.6 mm

Optical Coatings

	All internal surfaces	High efficiency AR coating	
	Front surface	High durability AR coating	DLC is available upon request
Optical Total Lens Track	138 mm	Nominal	
Optical Back Focal Length	14.5 mm	Compatible with Pelican 14.5mm cold shield	

MECHANICAL

Mechanical Back Focal Length	~15 mm	Nominal for standard MICD.
Focus / Zoom mechanism	Motorized	
Focus Range	10 meters – Infinity	
Total Weight	TBD grams	Nominal
External Dimensions	Max Diameter: 96 mm; Length: 123 mm (Please refer to MICD for details)	

ELECTRICAL

Power Input	12VDC, 1.0A	Nominal
Communication Protocol	RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1

ENVIRONMENTAL

Operating Temperature	-30°C to +70°C	
Storage Temperature	-40°C to +70°C	
Shock and Vibration	Per MIL-STD-810E	

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