

MWIR HD Continuous zoom – commercial off the shelf lens

PARAGON+ Beam Expander

45 – 960mm & 57 – 1200mm MWIR F/4.7

Continuous zoom Lens for HD cameras



FEATURES / APPLICATIONS / CAPABILITIES

- Highest resolution performance over entire zoom rang
- Very high focal length zoom lens with highest zoom ratio
- Rugged design to comply with various applications
- Focus is maintained throughout the entire zoom range, with extremely fast zoom and focus response

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL			
Focal Length / F#		45-960mm, 57-1200mm	Nominal F/4.7
Detector (FPA) type / size		Supports HD 1,280 x 1,024 x 15 μm (19.2 x 15.36 mm)	
Working Spectral Range		3 – 5 μ	
FOV for PARAGON960 (with X2 BE) 45-960mm		Wide FOV: 22.5° (H) x 18.5°(V) Narrow FOV: 1.12°(H) x 0.9°(V)	For detector size of 19.2 x 15.36mm All values are nominal: to within +/- 5%
FOV for PARAGON1200 (with X2.5 BE) 57-1200mm		Wide FOV: 18° (H) x 14.8°(V) Narrow FOV: 0.9°(H) x 0.72°(V)	
Optical Coatings	Internal surfaces	High efficiency AR coating	Average transmission: 75%
	Front surface	High durability AR coating	DLC is available upon request
LENS		PARAGON980	PARAGON1200
Optical Total lens track		400mm~	432.3mm
Cold Stop distance		28 ± 1mm	
Optical Back Focal Length		36 mm Nominal	
MECHANICAL			
Mechanical Back Focal Length		32 Nominal for standard MICD.	
Zoom mechanism		Motorized	
Focus Range		50 – Infinity, 300 – Infinity (narrow)	50 – Infinity, 400 – Infinity (narrow)
Total Weight (Nominal)		~5.5 kg.	~6.7 kg.
Ext. Dimensions (DiamxLength)		135 x 192mm	273 X 396.4mm
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 +50°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	

