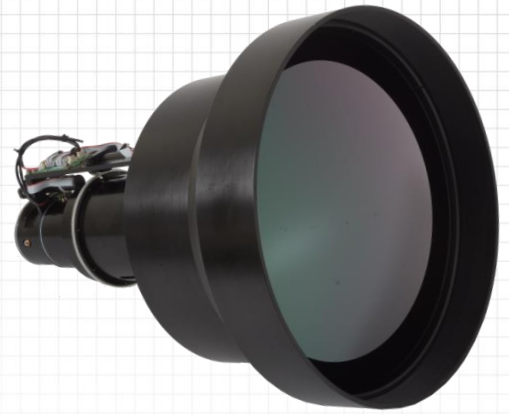


MWIR HD Continuous zoom – Commercial off the shelf lens

PARAGON1200

MWIR 57– 1200mm F/4.7 Continuous zoom Lens
for 1280 x 1024 x 15 μ cooled detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Highest resolution performance over entire zoom range
- Very high X21 zoom ratio
- Rugged design to comply with various applications
- Supports FHD 10 μ detectors and sensors with up to 24.59mm diagonal

	HFOV for Wide (57mm)				HFOV for Narrow (1200mm)			
	640 x 512	1280x1024	1920 x 1536	IFOV (mrad)	640x512	1280x1024	1920 x 1536	IFOV (mrad)
10u	6.4°	12.8°	19.1°	0.01	0.31°	0.61°	0.95°	0.0048
12u	7.7°	15.3°		0.012	0.4°	0.73°		0.0057
15u	9.6°	19.1°		0.015	0.5°	0.92°		0.0072

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL

Focal Length / F#		57-1200mm F/4.7	
Detector (FPA) type / size		Up to 1280 x 1024 x 15 μ	
Working Spectral Range		3 – 5 μ	
Optical Coatings	Internal surfaces	High Efficiency AR coating	
	Front surface	DLC coating	HDAR is available upon request
CSH		28 \pm 1mm	

MECHANICAL

Focus / Zoom mechanism		Motorized	
Through zoom boresight		\leq 0.15 mm radius at the focal plane	
NFOV boresight retention		\leq 0.075 mm radius at the focal plane	
Focus Range		50m / 400m – Infinity	For WFOV / NFOV accordingly
Total Weight		~7 kg	
Ext. Dimensions \varnothing x length (mm)		273 x 397	

ELECTRICAL

Power Input		12VDC, 3.0 A	
Communication Protocol		RS-422/232 Full Duplex	

ENVIRONMENTAL

Operating / Storage Temperature		-25°C to +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	

*All values are nominal: to within \pm 5%

