MWIR HD Continuous zoom – Commercial off the shelf lens

PARAGON

MWIR 22-480mm F/4.7 Continuous zoom Lens for HD 1280 x 1024 x 15µ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

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

optical zoom									
	HFOV for	- Wide (22mr	n)		HFOV for Narrow (480mm)				
	640 x 512	1280x1024	1920 x 1536	IFOV (mrad)	640x512	1280x1024	1920 x 1536	IFOV (mrad)	
10u	16.5°	32.4°	47.1°	0.026	0.8°	1.55°	2.3°	0.0012	
12u	19.8°	38.5°		0.031	0.92°	1.85°		0.0014	
15u	24.6°	47.1°		0.039	1.15°	2.3°		0.0018	
16u	26.2°			0.041	1.22°			0.0019	

PARAMETER		VALUE	NOTES	
Main	Sub			

	AL				
Focal Leng	th / F#	22-480 mm / F4.7			
Detector (FPA) type / size		Up to 1280 x 1024 x 15µ			
Working Spectral Range		3 – 5µ			
Optical Internal surfaces		High Efficiency AR			
Coatings	Front surface	High Durability AR	DLC is optional		
CSH		28±1mm			
O MECHANICAL					
Zoom / Focus mechanism		Motorized			
Focus Range		20m / 100m – Infinity	For WFOV / NFOV accordingly		
Through zoom boresight		<0.15 mm radius at the focal plane			
NFOV boresight retention		<0.075 mm radius at the focal plane			
Total Weight		1.5Kg			
Ext. Dimensions ø x length (mm)		120 x 225			
P ELECT	RICAL				
Power Input		12VDC, 3.0 A			
Communication Protocol		RS-422/232 Full Duplex			
	ONMENTAL				
Operating/Storage Temperature		-25°C to +55°C / -40°C to +70°C			
Shock and Vibrations		Per applicable standard			
Front lens sealing		IP66	IP67 optional by request		

*All values are nominal: to within ±5%

