MWIR Continuous zoom - Commercial off the shelf lens

DIAMOND

MWIR 18-430mm F/5.5 Continuous zoom Lens for $640 \times 512 \times 15\mu$ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- The Highest zoom ratio available
- Front beam extenders are available, to achieve more than 1400mm FL
- Focus is maintained through the entire zoom range providing extremely fast zoom and focus response



	HFOV for Wide (18mm)				HFOV for Narrow (430mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
15u	29.8°			0.048	1.3°			0.002

PARAMET	ER	VALUE	NOTES		
Main	Sub				
OPTICA	ı				
Focal Length / F#		18 - 430 mm / F 5.5			
Detector (FPA) type / size		Up to 640 x 512 x 15µ			
Working Sp	ectral Range	3 – 5µ			
Optical	All internal surfaces	High efficiency AR coating			
Coatings	Front surface	High durability AR coating	DLC is available upon request		
CSH		19-22mm			
🔅 МЕСНА	NICAL				
Focus / Zoom mechanism		Motorized	With 2 motors		
Focus Rang	je	5m / 30m – Infinity	For WOFV / NFOV accordingly		
hrough zoom boresight		<0.15 mm radius at the focal plane			
NFOV bores	sight retention	<0.09 mm radius at the focal plane			
Total Weigh	it	900gr			
Ext. Dimens	sions ø x length (mm)	96 x 125			
P ELECT	RICAL				
Power Input		12VDC, 1.0 A			
Communica	ation Protocol	RS-422/232 Full Duplex			
ENVIRO	NMENTAL				
Operating / Storage Temperature		-25°C to +55°C / -40°C to +70°C			
Shock and \	Vibrations	Per applicable standard			
Front lens s	sealing	IP66	IP67 By request		
ll values are	nominal: to within ±5%				

^{*}All values are nominal: to within ±5%

