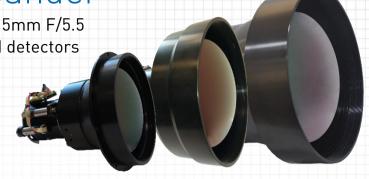
MWIR Continuous zoom - Commercial off the shelf lens

DIAMOND+ Beam Expander

MWIR 30-600, 40-860mm, 45-1075mm, 60-1415mm F/5.5 Continuous zoom Lens for 640x512x15µ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Ultra long-range zoom lens with highest optical zoom ratio
- Rugged design to comply with various applications
- Focus is maintained through the entire zoom range providing fast zoom and focus response



	HFOV for Wide				HFOV for Narrow			
	30mm	40mm	45mm	60mm	600mm	860mm	1075mm	1415mm
640x512x10u	12.1°	9.15°	8.1°	6.1°	0.61°	0.43°	0.35°	0.26°
640x512x 12u	14.5°	10.9°	9.7°	7.32°	0.73°	0.51°	0.41°	0.31°
640x512x1 5u	18.1°	13.6°	12.1°	9.15°	0.92°	0.64°	0.51°	0.4°

PARAMETER	VALUE	VALUE						
Main Sub								
◎ OPTICAL								
	DIAM600	DIAM860	DIAM1075	DIAM1415				
Focal Length / F#	30-600mm F/5.5	40-860mm F/5.5	45-1075mm F/5.5	60-1415mm F/5.5				

-25°C to +55°C / -40°C to +70°C

Per applicable standard IP67

Detector (FPA) type / size		Up to 640 x 512 x 15μ					
Working Spectral Range		3 - 5µ					
Optical All internal surfaces		High efficiency AR coating					
Coatings	Front surface	DLC coating (please note: HDAR is available upon request)					
CSH		19-22mm					
Ф МЕСНА	ANICAL						
Focus / Zoom mechanism		Motorized					
Through zoom boresight		<0.15 mm radius at the focal plane					
NFOV boresight retention		≤0.09 mm radius at the focal plane					
Focus Range		50m – Infinity	60m – Infinity	100m - Infinity	100m – Infinity		
Total Weight		2.3Kg	3Kg	4.9Kg	10kg		
Ext. Dimensions ø x length (mm)		135 x 196	218 x 223	228 x 272	292 x 508		
P ELECT	RICAL						
Power Input		12VDC, 1.0 A					
Communication Protocol		RS-422/232 Full Duplex					

Operating / Storage Temperature

6 ENVIRONMENTAL

Shock and Vibrations

Front lens sealing



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