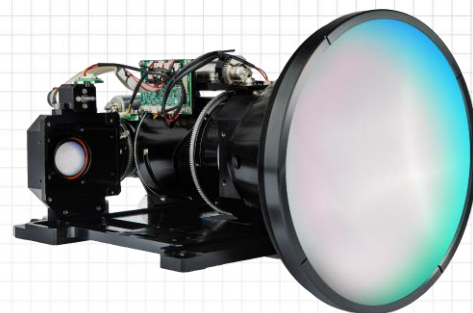


LWIR Four FOVs – Commercial off the shelf lens

URSA

LWIR 30/60/180/400mm F/2.24 Four FOVs discrete zoom lens for 640 x 512 x 15 μ cooled detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Suitable for long range surveillance systems at various applications
- Very Compact design for volume strict applications
- Longest focal length zoom lens in LW cooled category
- Includes provision for micro-scan, which provides **super-resolution** image

	HFOV for Wide (30mm)		HFOV for Middle_1 (60mm)		HFOV for Middle_2 (180mm)		HFOV for Narrow (400mm)	
	640x512	IFOV (mrad)	640x512	IFOV (mrad)	640x512	IFOV (mrad)	640x512	IFOV (mrad)
15u	19°	0.028	1.9°	0.014	3°	0.0048	1.4°	0.0021
16u								

PARAMETER		VALUE	NOTES
Main	Sub		

🔍 OPTICAL

Focal Length / F#		30/60/180/400mm / F2.24	
Detector (FPA) type / size		Up to 640 x 512 x 15 μ	
Working Spectral Range		8 – 10 μ	
Optical Coatings	All internal surfaces	High efficiency AR coating	
	Front surface	High durability AR coating	DLC available upon request
CSH		19-22mm	

⚙️ MECHANICAL

Focus / Zoom mechanism		Motorized	
Focus range		30 m / 250m – Infinity	For WOFV / NFOV accordingly
NFOV boresight retention		≤0.045 mm radius at the focal plane	
Total Weight		6.5kg	
Ext. Dimensions L x W x H (mm)		293 x 245 x 199	Please refer to MICD for details

💡 ELECTRICAL

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

🌿 ENVIRONMENTAL

Operating / Storage Temperature		-25°C to +55°C / -40°C to +70°C	
Front lens sealing		IP66	IP67 by request

*All values are nominal: to within ±5%

