

## LWIR Four FOVs – Commercial off the shelf lens

# URSA

LWIR 30/60/180/400mm F/2.24

Four FOVs discrete zoom lens for cooled LW detectors



### FEATURES / APPLICATIONS / CAPABILITIES

- Suitable for long range surveillance systems at various applications
- Very Compact mechanical design for volume strict applications
- Includes provision for micro-scan system, which provides super-resolution image

PARAMETER		VALUE	NOTES
Main	Sub		

🔍 OPTICAL			
Focal Length / F#		30/60/180/400 mm / F2.24	Nominal values
Detector (FPA) type / size		640 x 512 x 15μ	
Working Spectral Range		7 – 9μ	
FOV (degrees)		Wide: 19°(H) x 15°(V) Middle_1: 9°(H) x 7.3°(V) Middle_2: 3°(H) x 2.4°(V) Narrow: 1.4°(H) x 1. 1°(V)	
Optical Coatings			
	All internal surfaces	High efficiency AR coating	
	Front surface	High durability AR coating	DLC available upon request
⚙️ MECHANICAL			
Zoom mechanism		Motorized	
Focus range		30 m to ∞ for Wide 250 m to ∞ for Narrow	
Trough zoom boresight		≤0.15 mm radius at the focal plane	
NFOV boresight retention		≤0.045 mm radius at the focal plane	
Total Weight		~ 6kg	Nominal
Structure		Open frame configuration	
Ext. Dimensions L x W x H (mm)		293 x 245 x 199	
💡 ELECTRICAL			
Power Input		12VDC, 2.0A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Default is RS422; Baud rate 19,200, n, 8, 1
🌍 ENVIRONMENTAL			
Operating/Storage Temperature		-25°C to +55°C / -40°C to +70°C	
Front lens sealing		IP66	IP67 by request