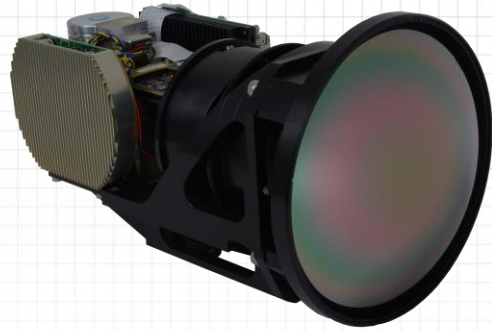


LWIR Triple FOV – Commercial off the shelf lens

TRiF

LWIR 60/110/360mm Triple FOV Lens
for 640 x 512 x 15μ cooled detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Unique (together with URSA) discrete zoom lens for LW cooled
- Optimized for relatively short total track and low weight
- Optimal for long range surveillance in cold climates

	HFOV for Wide (60mm)			HFOV for Middle (110mm)			HFOV for Narrow (360mm)		
	640x512	1024x768	IFOV (mrad)	640x512	1024x768	IFOV (mrad)	640x512	1024x768	IFOV (mrad)
15u	9.1°		0.014	5°		0.0078	1.5°		0.0024
16u									

PARAMETER		VALUE	NOTES
Main	Sub		

🕒 OPTICAL

Focal Length / F#		60/110/360 mm F/2.24	
Detector (FPA) type / size		Up to 640 x 512 x 15μ	
Working Spectral Range		8-10μ	
Optical Coatings	All internal surfaces	High efficiency AR coating	
	Front surface	High durability AR coating	DLC is available upon request
CSH		19-22mm	

⚙️ MECHANICAL

Focus / Zoom mechanism		Motorized	With single motor
Rear shutter / NUC flag		Motorized	
Focus range		50m– Infinity	
NFOV boresight retention		≤0.045 mm radius at the focal plane	
Total Weight		3.5kg	
Ext. Dimensions ø x length (mm)		174 x 192	

💡 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	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 By request

*All values are nominal: to within ±5%

