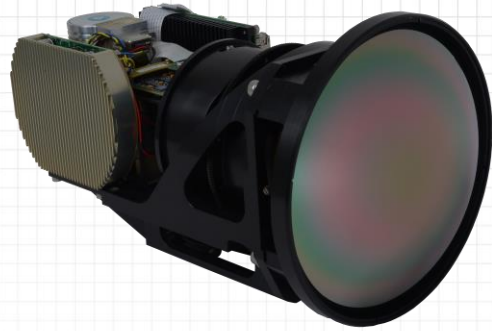


## LWIR Triple FOV – Commercial off the shelf lens

# TRiF

LWIR 60/110/360mm Triple FOV Lens  
for 640 x 512 x 15 $\mu$  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	9.15°		0.014	5°		0.0078	1.55°		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 15 $\mu$		
Working Spectral Range	8-10 $\mu$		
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	$\leq 0.045$ mm radius at the focal plane	
Total Weight	3.5kg	
Ext. Dimensions $\varnothing$ 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  $\pm 5\%$

