## LWIR Dual FOV - Commercial off the shelf lens

## TOPA7

LWIR 22/66mm F/1.25 Dual FOV Lens for  $640 \times 480 \times 17 \mu$  uncooled detectors

## FEATURES / APPLICATIONS / CAPABILITIES

- Smallest Dual FOV lens, for 4" payloads
- Suitable for various applications
- High sensitivity- LOW F# 1.25
- Rugged design for harsh environments



	HFOV for Wide (22mm)				HFOV for Narrow (66mm)			
	640x480	1024x768	1280x1024	IFOV (mrad)	640x480	1024x768	1280x1024	IFOV (mrad)
12u	19.8°			0.031	6.6°			0.01
17u	27.8°			0.044	9.4°			0.014

PARAMETER		VALUE	NOTES		
Main	Sub				
OPTICA	AL				
Focal Length / F#		22/66 mm F/1.25			
Detector (FPA) type / size		Up to 640 x 480 x 17µ			
Working Spectral Range		8-12µ			
Optical	All internal surfaces	High efficiency AR coating			
Coatings	Front surface	High durability AR coating	DLC is available upon request		
MECHA	ANICAL				
Mechanical Back Focal Length		8.9mm			
Focus / Zoom mechanism		Motorized			
Focus range		5m / 10m – Infinity	For WOFV / NFOV accordingly		
Through zoom boresight		< 0.15 mm radius at focal plane			
NFOV boresight retention		< 0.045 mm radius at focal plane			
Total Weight		350gr			
Ext. Dimensions ø x length (mm)		78 x 58	Excluding motor		
P ELECT	RICAL				
Power Input		12VDC, 1.0A			
Communic	ation Protocol	RS-422/232 Full Duplex			
<b>ENVIR</b>	ONMENTAL				
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		

<sup>\*</sup>All values are nominal: to within  $\pm 5\%$ 

