## - LWIR Continuous zoom - Commercial off the shelf lens

VALUE

## CEDAR

PARAMETER

LWIR 15-100mm F/1.4 Continuous zoom Lens for  $640 \times 480 \times 17 \mu$  uncooled detectors

## FEATURES / APPLICATIONS / CAPABILITIES

- High sensitivity (LOW F#) 1.4
- Rugged design for harsh environments
- Supports detector types with up to 13.6mm diagonal



NOTES

	HFOV for Wide (15mm)				HF0V for Narrow (100mm)			
	640x480	1024x768	1280x1024	IFOV (mrad)	640x480	1024x768	1280x1024	IFOV (mrad)
12u	28.7°	44.5°		0.046	4.4°	7.1°		0.0069
17u	39.8°			0.065	6.23°			0.0097

		"""	110120		
Main	Sub				
OPTIC	CAL				
Focal Leng	jth / F#	15-100mm / F1.4			
Detector (FPA) type / size		Up to 640 x 480 x 17µ			
Working Spectral Range		8-14µ			
Optical	All internal surfaces	High efficiency AR coating			
Coatings	Front surface	High durability AR coating	DLC is available upon request		
MECHANICAL					
Mechanical Back Focal Length		11mm			
Focus / Zoom mechanism		Motorized			
Focus range		5m / 20m – 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		1Kg			
Ext. Dimensions ø x length (mm)		115 x 119			
P ELEC	CTRICAL				
Power Inpu	ut	12VDC, 1.0A			
Communic	ation Protocol	RS-422/232 Full Duplex			
6 ENVI	RONMENTAL				
Operating ,	/ Storage Temperature	-25°C to +55°C / -50°C to +75°C			
Shock and	Vibrations	Per applicable standard			
Front lens	sealing	IP66	IP67 By default		
*^!	ure nominal: to within +5%		'		

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

