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

## CFDAR

DARAMETER

LWIR 15-100mm F/1.4 Continuous zoom Lens for 640 x 480 x 17µ 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



	HFOV	for Wide (1	5mm)		HFOV for Narrow (100mm)			
	640x480	1024x768	1280x1024	IFOV (mrad)	640x480	1024x768	1280x1024	IFOV (mrad)
12u	29.5°	47.7°		0.046	4.2°	7°		0.0069
17u	42°			0.065	6.2°			0.0097

PARAMETER		VALUE	NUTES			
Main	Sub					
OPTIC	CAL					
Focal Length / 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 Input		12VDC, 1.0A				
Communication Protocol		RS-422/232 Full Duplex				
6 ENVI	IRONMENTAL					
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			
* ^ !! !	are period, to within 150/	· · · · · · · · · · · · · · · · · · ·				

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

