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

## DEKEL

LWIR 25-150mm F/1.4 Continuous zoom Lens for 640 x 480 x 17µ uncooled detector

## FEATURES / APPLICATIONS / CAPABILITIES

- High performance lens for medium range surveillance systems at various applications
- Suitable for 6" stabilized payloads
- Optimized for relatively short total track and low weight



	HFOV for Wide (25mm)				HFOV for Narrow (105mm)			
	640x480	1024x768	1280x1024	IFOV (mrad)	640x480	1024x768	1280x1024	IFOV (mrad)
12u	17.8°	28.8°		0.028	2.9°	4.6°		0.0046
17u	24.4°			0.039	4°			0.0065

PARAMET	TER	VALUE	NOTES			
Main	Sub					
	ΛI	•				
Focal Length / F#		25-150mm / 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			
<b>O</b> MECHANICAL						
Mechanical Back Focal Length		7.32 mm				
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		1.2Kg				
Ext. Dimensions ø x length (mm)		116 x 153.7				
P ELECT	RICAL					
Power Input		12VDC, 1.0A				
Communic	ation Protocol	RS-422/232 Full Duplex				
<b>GENVIRONMENTAL</b>						
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  $\pm 5\%$ 

