- LWIR Continuous zoom – Commercial off the shelf lens

DEKEL

LWIR 25-150mm F/1.4 Continuous zoom Lens for $640 \times 480 \times 17 \mu$ 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	17.4°	27.6°		0.028	4.2°	6.7°		0.0046
17u	24.5°			0.039	5.93°			0.0065

PARAMETER		VALUE	NOTES			
Main	Sub					
◎ OPTIC	ΔΙ					
Focal Leng		25-150mm / F1.4				
Detector (I	- -PA) 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			
Ö MECHANICAL						
Mechanica	al Back Focal Length	7.32 mm				
Focus / Zo	om 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 Weig	ht	1.2Kg				
Ext. Dimer	nsions ø x length (mm)	116 x 153.7				
P ELECT	RICAL					
Power Inp	ut	12VDC, 1.0A				
Communic	cation Protocol	RS-422/232 Full Duplex				
B ENVIR	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			
k Λ Ι Ι Ι	e nominal: to within +5%					

^{*}All values are nominal: to within ±5%

