

## LWIR Continuous zoom – commercial off the shelf lens

# DEKEL

25 – 150mm F/1.4 Continuous zoom  
Lens for LWIR cameras



### 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

PARAMETER		VALUE	NOTES
Main	Sub		
<b>OPTICAL</b>			
Focal Length / F#		25-150 mm / F1.4	Nominal values. F# constant for all zoom range.
Detector (FPA) type / size		640 x 480 x 12μ 640 x 480 x 17μ	1024 x 768 x 12μ
FOV (degrees)		Wide FOV: 24.5°(H) Narrow FOV: 4.15° (H)	For detector size of 10.88 x 8.16 mm (640 x 480 x 17μ)
Optical Coatings			
	All internal surfaces	High Efficiency AR coating	Average transmission: 80%
	Front surface	High Durability AR coating	DLC is available upon request
Optical Total lens track		161mm	Nominal
<b>MECHANICAL</b>			
Mechanical Back Focal Length		7.32 mm	Nominal
Focus / Zoom mechanism		Motorized	Focus range: 5m - infinity
Thru zoom boresight			≤ 0.15 mm radius at focal plane
NFOV boresight retention			≤ 0.045 mm radius at focal plane
Total Weight		1Kg	Nominal
Ext. Dimensions ø x length (mm)		116 x 153.7	
<b>ELECTRICAL</b>			
Power Input		12VDC, 1.0A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
<b>ENVIRONMENTAL</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 accuracy is within ±5%

