

LWIR Continuous zoom – Commercial off the shelf lens

DEKEL

LWIR 25-150mm F/1.4 Continuous zoom Lens
for uncooled 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

	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	2.95°	4.7°		0.0046
17u	24.5°			0.039	4.15°			0.0065

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL

Focal Length / F#	25-150mm / F1.4		
Working Spectral Range	8-14μ		
Optical Coatings	All internal surfaces	High Efficiency AR coating	
	Front surface	High Durability AR coating	DLC is available upon request

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		

ELECTRICAL

Power Input	12VDC, 1.0A		
Communication Protocol	RS-422/232 Full Duplex		

ENVIRONMENTAL

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 ±5%

