

LWIR Continuous zoom – Commercial off the shelf lens

KEW

LWIR 25-225mm F/1.5 Continuous zoom Lens
for 640 x 480 x 17 μ uncooled detectors



FEATURES / APPLICATIONS / CAPABILITIES

- The ultimate zoom lens for medium range 24/7 surveillance systems
- Excellent MTF performances
- Optimized for relatively short total track and low weight

	HFOV for Wide (25mm)				HFOV for Narrow (225mm)			
	640x480	1024x768	1280x1024	IFOV (mrad)	640x480	1024x768	1280x1024	IFOV (mrad)
12u	17.4°			0.028	2°			0.0031
17u	24.5°			0.039	2.8°			0.0043

PARAMETER		VALUE	NOTES
Main	Sub		

🕒 OPTICAL			
Focal Length / F#		25-225mm / F1.5	
Detector (FPA) type / size		Up to 640 x 480 x 17 μ	
Working Spectral Range		8-12 μ	
Optical Coatings	All internal surfaces	High efficiency AR coating	
	Front surface	DLC coating HDAR is available upon request	
⚙️ MECHANICAL			
Mechanical Back Focal Length		12.15mm	
Focus / Zoom mechanism		Motorized	
Focus range		50m / 100m – Infinity For WOFV / NFOV accordingly	
Through zoom boresight		≤0.15mm radius at focal plane	
NFOV boresight retention		≤0.045mm radius at focal plane	
Total Weight		3Kg Nominal (Front element is sealed)	
Ext. Dimensions \varnothing x length (mm)		188 x 208	
💡 ELECTRICAL			
Power Input		12VDC, 3.0A	
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 $\pm 5\%$

