

LWIR Continuous zoom – Commercial off the shelf lens

ALDAN

LWIR 60-180mm F/2.24 Continuous zoom Lens
for 640 x 512 x 15μ cooled detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Ultra Compact continuous zoom lens
- Suitable for various applications
- Rugged design for harsh environments

	HFOV for Wide (60mm)				HFOV for Narrow (180mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
15u	9.15°			0.014	3.1°			0.0047
16u								

PARAMETER		VALUE	NOTES
Main	Sub		

🕒 OPTICAL

Focal Length / F#		60-180mm F/2.24	
Detector (FPA) type / size		Up to 640 x 512 x 15μ	
Working Spectral Range		7.5 – 9.5μ	
Optical Coatings	All internal surfaces	High efficiency AR coating	
	Front surface	High durability AR coating	DLC is available upon request
CSH		19-22mm	

⚙️ MECHANICAL

Focus / Zoom mechanism		Motorized	
Focus range		10m / 20m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight		≤0.15 mm radius at the focal plane	
NFOV boresight retention		≤0.045 mm radius at the focal plane	
Total Weight		620gr	
Ext. Dimensions ø x length (mm)		95 x 104	

💡 ELECTRICAL

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

🌍 ENVIRONMENTAL

Operating / Storage Temperature		-25°C to +55°C / -30°C to +60°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 By request

*All values are nominal: to within ±5%

