

## LWIR Continuous zoom – Commercial off the shelf lens

# PECAN

LWIR 24-105mm F/1.1-1.55 Continuous zoom Lens  
for 640 x 480 x 17μ uncooled detectors



### FEATURES / APPLICATIONS / CAPABILITIES

- Cost effective solution for HLS
- Rugged design for harsh environments
- Supports detector types with up to 13.6mm diagonal

	HFOV for Wide (24mm)				HFOV for Narrow (105mm)			
	640x480	1024x768	1280x1024	IFOV (mrad)	640x480	1024x768	1280x1024	IFOV (mrad)
12u	18.1°			0.028	4.2°			0.0065
17u	25.5°			0.04	5.95°			0.0093

PARAMETER		VALUE	NOTES
Main	Sub		

🕒 OPTICAL			
Focal Length / F#		24-105mm F1.1-1.55	
Detector (FPA) type / size		Up to 640 x 480 x 17μ	
Working Spectral Range		8-14μ	
Optical Coatings	All internal surfaces	High Efficiency AR	
	Front surface	High Durability AR	DLC is available upon request
⚙️ MECHANICAL			
Mechanical Back Focal Length		11.3mm	
Focus / Zoom mechanism		Motorized	
Focus range		5m / 20m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight		≤ 0.15 mm at the focal plane	
NFOV boresight retention		≤ 0.045 mm at the focal plane	
Total Weight		1Kg	
Ext. Dimensions ø x length (mm)		85 x 130	
💡 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 +80°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 By default

\*All values are nominal: to within ±5%

