

LWIR Continuous zoom – Commercial off the shelf lens

CONDOR

LWIR 40-300mm F/1.5 Continuous zoom Lens
for 1280 x 1024 x 12 μ HD uncooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- High performance lens for surveillance systems
- Longest focal length lens in LWIR uncooled continuous zoom category
- Perfect for 24/7 medium-long range applications



	HFOV for Wide (40mm)				HFOV for Narrow (300mm)			
	640x480	1024x768	1280x1024	IFOV [mrad]	640x480	1024x768	1280x1024	IFOV [mrad]
12u	11°	17.8°	22.5°	0.017	1.4°	2.35°	2.9°	0.0023
17u	5.7°			0.024	2.1°			0.0032

PARAMETER		VALUE	NOTES
Main	Sub		

🔍 OPTICAL			
Focal Length / F#		40-300mm / F1.5	
Detector (FPA) type / size		Up to 1280x1024x12 μ	
Working Spectral Range		8-12 μ	
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		18mm	
Focus / Zoom mechanism		Motorized	
Focus Range		30m / 250m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight		≤ 0.15mm radius at focal plane	
NFOV boresight retention		≤ 0.045 mm radius at focal plane	
Total Weight		5.9Kg	
Ext. Dimensions \varnothing x length (mm)		238 x 293	
💡 ELECTRICAL			
Power Input		12VDC, 3.0A	
Communication Protocol		Serial RS-422 or 232	
🌿 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 $\pm 5\%$

