--- LWIR Continuous zoom - Commercial off the shelf lens

• CACTUS

Cooled LWIR 15 – 300 mm F/2 Continuous zoom Lens for 640 x 512 x 15μ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- The ultimate lens for medium to long range surveillance systems in various applications.
- Excellent MTF performances



PARAMETER		VALUE	NOTES
Main	Sub		
©OPTICAL			
Focal Length / F#		15-300 mm F/2	Nominal values
Detector (FPA) type / size		640 x 512 x 15µ	Cooled LWIR detector with cold stop at 19.8mm
Cold Stop		19.8mm	
Working Spectral Range		7.8-10µ	
FOV (degrees)		Wide FOV: 35.5°(H) Narrow FOV: 1.8° (H)	All to within ±5%
Optical Coatings			
	All internal surfaces	High efficiency AR coating	Average transmission: 82%
	Front surface	High efficiency AR coating	DLC coating is available upon request
Optical Total lens track		260mm	Nominal, From 1st lens vertex to FPA
☼ MECHANICAL			
Mechanical Back Focal Length		Please refer to MICD	Nominal
Focus / Zoom mechanism		Motorized	
Thru zoom boresight		< 0.15 mm radius at focal plane	
NFOV boresight retention		≤ 0.045 mm radius at focal plane	
Total Weight		~3Kg	Nominal
Ext. Dimensions ø x length (mm)		170 x 271	Exist NUC shutter
■ ELECTRICAL			
Power Input		12VDC, 1.0A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
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Operating/Storage Temperature		-40°C to +60°C / -40°C to +75°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 By request

