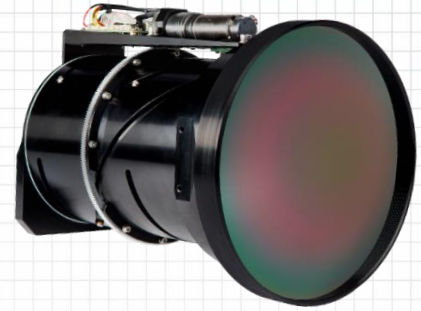


## LWIR Continuous zoom – Commercial off the shelf lens

# CACTUS

LWIR 15-300mm F/2.0 Continuous zoom Lens  
for 640 x 512 x 15 $\mu$  cooled detectors



### FEATURES / APPLICATIONS / CAPABILITIES

- Excellent MTF performance, low F#
- 20X optical zoom

	HFOV for Wide (15mm)				HFOV for Narrow (300mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
15u	35.4°			0.06	1.83°			0.0029
16u								

PARAMETER		VALUE	NOTES
Main	Sub		

🔍 OPTICAL			
Focal Length / F#		15-300mm F/2.0	
Detector (FPA) type / size		Up to 640 x 512 x 15 $\mu$	
Working Spectral Range		7.5-9.7 $\mu$	
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 / 100m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight		$\leq$ 0.15 mm radius at focal plane	
NFOV boresight retention		$\leq$ 0.045 mm radius at focal plane	
Total Weight		~3Kg	
Ext. Dimensions $\varnothing$ x length (mm)		170 x 271	Exist motorized NUC shutter
💡 ELECTRICAL			
Power Input		12VDC / 3.0A	Current depends on lens controller
Communication Protocol		RS-422/232 Full Duplex	
🌿 ENVIRONMENTAL			
Operating / Storage Temperature		-25°C to +55°C / -40°C to +75°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 By request

\*All values are nominal: to within  $\pm$ 5%