- MWIR Continuous zoom – Commercial off the shelf lens

└→ IR-BEE

MWIR 20-340mm F/5.5 Continuous zoom Lens for 640 x 512 x 15µ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Ultra Compact and light weight lens
- "ZERO" boresight errors for maximum accuracy
- Perfect solution for airborne payloads



	HFOV for Wide (20mm)				HFOV for Narrow (340mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
10u	18.1°			0.028	1.1°			0.0017
12µ	21.7°			0.034	1.3°			0.002
15u	27°			0.043	1.62°			0.0025

PARAMETER		VALUE	NOTES
Main	Sub		

	AL		
Focal Length / F#		20-340mm F/5.5	
Detector (FPA) type / size		640 x 512 x 15µ	
Working Spectral Range		3 – 5µ	
Optical	Internal surfaces	High Efficiency AR coating	
Coatings	Front surface	High Durability AR coating	DLC is optional
🔅 МЕСН	ANICAL		
Focus / Zoom mechanism		Motorized	
Focus Range		20m / 200m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight		<0.075mm radius at focal plane	
NFOV boresight retention		<0.03mm radius at focal plane	
Total Weight		265gr	
Dimensions ø x length (mm)		79 x 87	
🗣 ELECT	RICAL		
Power Input		12VDC, 1.0 A	
Communication Protocol		RS-422/232 Full Duplex	
🆒 ENVIR	ONMENTAL		
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 request

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

