- MWIR Continuous zoom - Commercial off the shelf lens

¹→ IR-FLYs

MWIR 18-250mm F/4.0 Continuous zoom Lens for 1280 x 1024 x 10μ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Ultra Compact and light weight lens
- Perfect solution for airborne payloads
- High accuracy "ZERO BORESIGHT" design for maximum accuracy



	HFOV for Wide (18mm)				HFOV for Narrow (250mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
10u	20°	30°	34°	0.032	1.5°	2.35°	2.9°	0.0023
15u	29°			0.048	2.2°			0.0034
16u	31°			0.051	2.35°			0.0036

PARAMETER		VALUE	NOTES		
Main	Sub				
OPTICA	AL				
Focal Length / F#		18-250mm F/4.0			
Detector (FPA) type / size		Up to 1280 x 1024 x 10µ			
Working Spectral Range		3 – 5μ			
Optical	All internal surfaces	High efficiency AR coating			
Coatings	Front surface	High durability AR coating	DLC is available upon request		
CSH		19-22mm			
☆ MECH	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			
Ext. Dimen	sions ø x length (mm)	78.7 x 87			
♠ ELECT	RICAL				
Power Inpu	ut	12VDC, 1.0 A			
Communic	ation Protocol	RS-422/232 Full Duplex			
6 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 $\pm 5\%$

