- MWIR Continuous zoom – Commercial off the shelf lens

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	20.1°	31.7°	39.1°	0.032	1.5°	2.35°	2.93°	0.0023
15u	29.8°			0.048	2.2°			0.0034
16u	31.7°			0.051	2.35°			0.0036

PARAMETER Main Sub		VALUE	NOTES			
	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				
O MECHANICAL						
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. Dimensions ø x length (mm)		78.7 x 87				
P 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 $\pm 5\%$

