

MWIR Continuous zoom – Commercial off the shelf lens

DORADO

MWIR 25-200mm F/4.0 Continuous zoom Lens
for 640 x 512 x 15μ cooled detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Compact and low weight configuration
- Low boresight errors for high accuracy
- Optimized for payloads demanding high boresight accuracy

	HFOV for Wide (25mm)				HFOV for Narrow (200mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
10u	14.5°			0.023	1.83°			0.0028
12u	17.4°			0.027	2.2°			0.0034
15u	21.7°			0.034	2.75°			0.0043
16u								

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL

Focal Length / F#		25-200mm F/4.0	
Detector (FPA) type / size		Up to 640 x 512 x 15μ	
Working Spectral Range		3 – 5μ	
Optical Coatin	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	With 2 motors
Focus Range		15 m / 30m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight		≤ 0.075mm radius at the focal plane	
NFOV boresight retention		≤ 0.03mm radius at the focal	
Total Weight		355gr	
Ext. Dimensions ø x length (mm)		72.5x114	

ELECTRICAL

Power Input		12VDC, 1.0 A	
Communication Protocol		RS-422/232 Full Duplex	

ENVIRONMENTAL

Operating / Storage		-25°C to +55°C / -40°C to +71°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 By request

*All values are nominal: to within ±5%



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