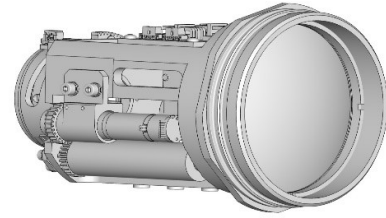


MWIR Continuous zoom – commercial off the shelf lens

# DORADO

MWIR 25 - 200 mm F/4.0 Continuous zoom  
High accuracy Lens with DSP controller



## FEATURES / APPLICATIONS / CAPABILITIES

- Ultra-compact and low weight configuration
- An ultimate solution for small volume applications
- Designed to VGA resolution FPA detectors: 640x512x15μ pitch
- Optimized for high accuracy payloads for various applications
- Focus is maintained through the entire zoom range

PARAMETER		VALUE	NOTES
Main	Sub		

🔍 OPTICAL			
<b>Focal Length / F#</b>		25 – 200mm / F 4.0	Nominal values. F# constant.
<b>Detector (FPA) type / size</b>		640 x 512 x 15μ detectors	Support regular detectors with 19 - 22mm CSH.
<b>Working Spectral Range</b>		3 – 5 μ	
<b>FOV (degrees)</b>		Wide FOV: 21.7°(H) x 17.5° (V) Narrow FOV: 2.8°(H) x 2.25°(V)	For detector size of 9.6 x 7.68 mm
🔧 Optical Coatings			
	<b>All internal surfaces</b>	High efficiency AR coating	Average transmission: 90%
	<b>Front surface</b>	High durability AR coating	DLC is available. Average transmission 84%
<b>Optical Total lens track</b>		139 mm	Nominal
<b>Optical Back Focal Length</b>		19.8 mm	Nominal
<b>Boresight Retention</b>		≤ 0.02mm radius at the focal	
<b>Through – zoom Boresight</b>		≤ 0.08mm radius at the focal plane	
⚙️ MECHANICAL			
<b>Zoom mechanism</b>		Motorized	With 2 motors
<b>Focus Range</b>		15 m / 30m – Infinity	For WOFV / NFOV accordingly
<b>Total Weight</b>		TBD	
<b>External Dimensions</b>		Max flange Ø 77 mm; Length: 114 mm (Please refer to MICD for details)	
💡 ELECTRICAL			
<b>Power Input</b>		12VDC, 1.0 A	Nominal active 0.2A in idle mode.
<b>Communication Protocol</b>		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
🌿 ENVIRONMENTAL			
<b>Operating/Storage Temperature</b>		-30°C to +60°C / -40°C to +71°C	
<b>Shock and Vibrations</b>		Per applicable standard	
<b>Front lens sealing</b>		IP67	

