

MWIR HD Continuous zoom – Commercial off the shelf lens

MIMOSA

MWIR 20-200mm F/4 Continuous zoom
 Lens for Cooled detector 640 x 512 x 15 μ

**AVAILABLE
 SOON**

FEATURES / APPLICATIONS / CAPABILITIES

- Ultra-compact configuration **Weighs ONLY 220g.**
- Optimized for high accuracy payloads for various applications
- Focus is maintained through the entire zoom range

PARAMETER		VALUE	NOTES
Main	Sub		
OPTICAL			
Focal Length / F#		20-200mm	Nominal F/4
Detector (FPA) type / size		Supports 640 x 512 x 15 μ	
Working Spectral Range		3 – 5 μ	
FOV (degrees)		Wide FOV: 27° (H) Narrow FOV: 2.75°(H)	All values are nominal: to within +/- 5%
Optical Coatings			
	Internal surfaces	High efficiency AR coating	Average transmission 78%
	Front surface	High durability AR coating	DLC is available upon request
Optical Total lens track		98mm	
MECHANICAL			
Mechanical Back Focal Length		29.4 Nominal for standard MICD.	
Zoom mechanism		Motorized	
Focus Range		5m \rightarrow ∞	
Thru zoom boresight		\leq 0.075 mm radius at the focal plane	
NFOV boresight retention		\leq 0.03 mm radius at the focal plane	
Total Weight (Nominal)		~220gr.	
Ext. Dimensions \varnothing x length (mm)		63.5 x 69	
ELECTRICAL			
Power Input		12VDC, 1.0 A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
ENVIRONMENTAL			
Operating/Storage Temperature		-25°C to +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 By request

