MWIR Continuous zoom - Commercial off the shelf lens

MIMOSA

MWIR 20-200mm F/4.0 Continuous zoom Lens for 640 x 512 x 15µ Cooled detector

FEATURES / APPLICATIONS / CAPABILITIES

- Ultra-compact configuration, Weighs ONLY 220g
- Optimized for high accuracy demanding payloads
- Focus is maintained to infinity through the entire zoom & temperature range



	HFOV for Wide (20mm)				HFOV for Narrow (200mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
10u	18.1°			0.028	1.83°			0.0028
12u	21.7°			0.034	2.2°			0.0034
15u	27°			0.043	2.75°			0.0043

PARAMETER		VALUE	NOTES				
Main Sub							
OPTICA	AL .						
Focal Length / F#		20-200mm F/4.0					
Detector (F	PA) type / size	Up to 640 x 512 x 15µ					
Working Sp	pectral Range	3.6 - 4.8µ					
Optical	Internal surfaces	High efficiency AR coating					
Coatings	Front surface	High durability AR coating	DLC is available upon request				
CSH		19-22mm					
MECHA	ANICAL						
Focus / Zoom mechanism		Motorized					
Focus Range		30m / 250m – Infinity	For WOFV / NFOV accordingly				
Through zoom boresight		<0.075 mm radius at the focal plane					
NFOV bore	sight retention	<0.03 mm radius at the focal plane					
Total Weig	ht	220gr.					
Ext. Dimen	sions ø x length (mm)	63.5 x 69					
₽ ELECTRICAL							
Power Inpu	ıt	12VDC, 1.0 A					
Communic	ation Protocol	RS-422/232 Full Duplex					
ENVIR	ONMENTAL						
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				

^{*}All values are nominal: to within $\pm 5\%$

