

MWIR HD Continuous zoom – Commercial off the shelf lens

DRAGON1200

MWIR 70 – 1200mm F/4 Continuous zoom
 Lens for detector 1920 x 1536 x 10μ

**AVAILABLE
 SOON**

FEATURES / APPLICATIONS / CAPABILITIES

- Highest resolution performance over entire zoom rang
- Very high focal length zoom lens with highest zoom ratio
- Focus is maintained throughout the entire zoom range, with extremely fast zoom and focus response

PARAMETER		VALUE	NOTES
Main	Sub		
OPTICAL			
Focal Length / F#		70-1200mm	Nominal F/4
Detector (FPA) type / size		Supports 1920 x 1536 x 10μ	
Working Spectral Range		3 – 5μ	
FOV (degrees)		Wide FOV: 15.6° (H) Narrow FOV: 0.9°(H)	For detector size of 19.2 x 15.36mm All values are nominal: to within +/- 5%
Optical Coatings			
	Internal surfaces	High efficiency AR coating	Average transmission 68%
	Front surface	High durability AR coating	DLC is available upon request
Optical Total lens track		451mm	
MECHANICAL			
Mechanical Back Focal Length		32 Nominal for standard MICD.	
Zoom mechanism		Motorized	
Focus Range		300m ->∞	
Thru zoom boresight		≤0.15 mm radius at the focal plane	
NFOV boresight retention		≤0.045 mm radius at the focal plane	
Total Weight (Nominal)		~13kg.	
Ext. Dimensions ø x length (mm)		335 x 485 (to FPA)	
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

