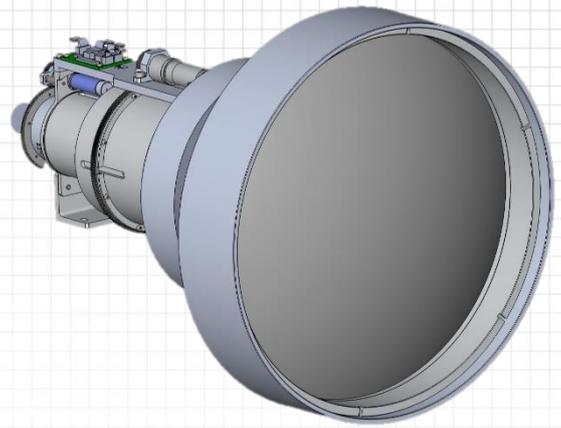


MWIR HD Continuous zoom – Commercial off the shelf lens

DRAGON1200

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



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 10 μ	
Working Spectral Range	3 – 5 μ	
Horizontal FOV Narrow x Wide	0.9° x 15°	With 1920 x 1536 x 10 μ or 1280 x 1024 x 15 μ
	0.6° x 10°	With 1280 x 1024 x 10 μ or 1280 x 720 x 10 μ
Optical Coatings		
	Internal surfaces	High efficiency AR coating
	Front surface	High durability AR coating
Optical Total lens track	480mm	Nominal

MECHANICAL

Mechanical Back Focal Length	32mm	Nominal
Zoom mechanism	Motorized	
Focus Range	30m / 250m – Infinity	For WOFV / NFOV accordingly
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 \varnothing x length (mm)	335 x 450 (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

