--- MWIR HD Continuous zoom – commercial off the shelf lens

DOVE115 & DOVE170

15-115mm & 25–170mm MWIR F/3.6 Miniature Continuous zoom Lens **for 10μ SD sensors**

FEATURES / APPLICATIONS / CAPABILITIES

- Miniature, low weight lens
- Highest resolution performance over entire zoom range
- X7.5 optical zoom
- Rugged design to comply with various applications
- Focus is maintained throughout the entire zoom range, with extremely fast zoom and focus response



PARAMETER		VALUE	NOTES
Main	Sub		
		DOVE115	DOVE170
Focal Length / F#		15-115mm F/3.6	25-170mm F/3.6
Detector (FPA) type / size		640 x 512 x 10 μm (6.4 x 5.12mm) with ~12mm CSH	
Working Spectral Range		3 – 5 µ	
FOV		Wide: 24.5°(H) x 20°(V) Narrow: 3.2°(H) x 2.5°(V)	Wide: 16.3°(H) x 13°(V) Narrow: 2.15°(H) x 1.7°(V)
		For detector size of 6.4 x 5.12mm	
		All values are nominal: to within +/- 5% accuracy High efficiency AR coating High efficiency AR coating	
Optical Coatings	Internal surfaces		
•	Front surface	HDAR or DLC	HDAR or DLC
Optical Total lens track		85mm	119mm
Cold Stop distance		12 ± 1mm	
Optical Back Focal Length		19mm Nominal	
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Mechanical Back Focal Length		18.25mm Nominal for standard MICD.	
Zoom, Focus mechanism		Motorized	
Thru Focus / zoom boresight		< 6 pixels diameter around optical axis	
Boresight retention		< 2 pixels diameter	
Focus Range		10m – Infinity	15m – Infinity
Total Weight (Nominal)		180gr	270gr
Dimensions (Ø x Length)		45 x 65mm	63 x 110mm
P ELECTR	ICAL		
Power Input		12VDC, 1.0 A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
6 ENVIROI	NMENTAL		
Operating/Storage Temperature		-30°C to +50°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66 By request	IP66 By default
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