## --- 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

PARAMETER

- Rugged design to comply with various applications
- Focus is maintained throughout the entire zoom range, with extremely fast zoom and focus response



PARAIVIETER		VALUE	NOTES
Main 5	Sub		
OPTICAL		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	
Optical Coatings	Internal surfaces	High efficiency AR coating	High efficiency AR coating
	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	
MECHAN	IICAL		
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 101mm
▼ ELECTRICAL			
Power Input		12VDC, 1.0 A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
<b>6</b> ENVIRON			
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

