

MWIR Continuous zoom – Commercial off the shelf lens

DOVE SERIES

MWIR 15-115mm, 25-170mm F/3.6 Continuous zoom Lens for 640 x 480 x 10μ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Miniature, low weight lens
- Perfect for handheld or airborne payloads
- Rugged design to comply with various applications



	HFOV for Wide				HFOV for Narrow			
	15mm		25mm		115mm		170mm	
	640x480	IFOV*	640x480	IFOV*	640x480	IFOV*	640x480	IFOV*
10u	24.1°	0.038	14.6°	0.023	3.2°	0.0049	2.16°	0.0034
12u								
15u								

*IFOV is indicated in mrad

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL

LENS		DOVE115	DOVE170	
Focal Length / F#		15-115mm F/3.6	25-170mm F/3.6	
Detector (FPA) type / size		Up to 640 x 480 x 10μ		
Working Spectral Range		3.6 – 4.2μ		
Optical Coatings	Internal surfaces	High efficiency AR coating		
	Front surface	High durability AR coating		
CSH		12mm		

MECHANICAL

Focus / Zoom mechanism	Motorized		
Through zoom boresight	≤0.075mm radius at focal plane		
NFOV boresight retention	≤0.03mm radius at focal plane		
Focus Range	50m/100m - Infinity	50m/100m – Infinity	For WOFV / NFOV accordingly
Total Weight	180gr	380gr	
Ext. Dimensions ø x length (mm)	41 x 66	110 x 78	

ELECTRICAL

Power Input	12VDC, 1.0 A		
Communication Protocol	RS-422/232 Full Duplex		

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	

*All values are nominal: to within ±5%

