

## MWIR Continuous zoom – Commercial off the shelf lens

# MOSQUITO

MWIR 15-230mm F/3.6 Continuous zoom Lens  
for 640 x 512 x 10 $\mu$  cooled detectors



### FEATURES / APPLICATIONS / CAPABILITIES

- Ultra Compact and light weight lens
- "ZERO BORESIGHT" design for high accuracy demanding applications
- Focus is maintained throughout the entire zoom range, with extremely fast zoom and focus response

	HFOV for Wide (15mm)				HFOV for Narrow (230mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
10u	24.1°			0.038	1.6°			0.0025
12u								
15u								
16u								

PARAMETER		VALUE	NOTES
Main	Sub		
<b>OPTICAL</b>			
Focal Length / F#		15-230mm F/3.6	
Detector (FPA) type / size		Up to 640 x 512 x 10 $\mu$	
Working Spectral Band		3 – 5 $\mu$	
Optical Coatings	All internal surfaces	High efficiency AR coating	
	Front surface	High durability AR coating	DLC is available upon request
CSH		12 $\pm$ 1mm	
<b>MECHANICAL</b>			
Focus / Zoom mechanism		Motorized	
Focus Range		15m / 30m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight		$\leq$ 0.075mm radius at the focal plane	
NFOV boresight retention		$\leq$ 0.03mm radius at the focal plane	
Total Weight		280gr	
Ext. Dimensions $\varnothing$ x length (mm)		78 X 88	
<b>ELECTRICAL</b>			
Power Input		12VDC, 1.0 A	
Communication Protocol		RS-422/232 Full Duplex	
<b>ENVIRONMENTAL</b>			
Operating / Storage Temperature		-25°C to +50°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 By request

\*All values are nominal: to within  $\pm$ 5%

