

## LWIR Continuous zoom – commercial off the shelf lens

# YARKON

24 – 90 mm F/0.9 LWIR Continuous zoom Lens

### FEATURES / APPLICATIONS / CAPABILITIES

- Suitable for various applications
- Cost effective solution for HLS
- Rugged design for harsh environments



PARAMETER		VALUE	NOTES
Main	Sub		
<b>OPTICAL</b>			
Focal Length / F#		24 - 90mm F/0.9	Nominal values
Detector (FPA) type / size		Up to 1024 x 768 x 12 $\mu$	12.288 x 9.216 mm
Working Spectral Range		8 – 14 $\mu$	
FOV (degrees)		Wide: 28.7°(H) x 21.7° (V) Narrow: 7.8° (H) x 5.8° (V)	
Optical Coatings			
	All internal surfaces	High efficiency AR coating	
	Front surface	High durability AR coating	DLC is available upon request
<b>MECHANICAL</b>			
Zoom mechanism		Motorized	
Focus range		30 m to $\infty$ for Wide 50 m to $\infty$ for Narrow	
Thru zoom boresight		$\leq 0.15$ mm radius at the focal plane	
NFOV boresight retention		$\leq 0.045$ mm radius at the focal plane	
Total Weight		1.2Kg	Nominal
Ext. Dimensions $\varnothing$ x length (mm)		113 x 120 (Please refer to MICD)	
<b>ELECTRICAL</b>			
Power Input		12VDC, 1.0A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
<b>ENVIRONMENTAL</b>			
Operating/Storage Temperature		-25°C to +55°C / -50°C to +75°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 By request