-- MWIR Continuous zoom - Commercial off the shelf lens

*mRUBY

MWIR 18-275mm F/5.5 Continuous zoom Lens for $640 \times 512 \times 15 \mu$ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Ultra-compact configuration, Weights ONLY 265gr
- Optimized for stabilized payloads for various applications
- Focus is maintained through the entire zoom range



	HFOV for Wide (18mm)				HFOV for Narrow (275mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
10u	20.1°			0.032	1.33°			0.0021
12u	24.1°			0.038	1.6°			0.0025
15u	29.8°			0.048	2°			0.0031
NAMETER					NOT			

PARAMETER		VALUE	NOTES		
Main	Sub				
◎ OPTICA	4L				
Focal Length / F#		18-275mm F/5.5			
Detector (FPA) type / size		Up to 640 x 512 x 15µ			
Working Spectral Range		3.6 - 4.8µ			
Optical Coatings	Internal surfaces	High efficiency AR coating			
	Front surface	High durability AR coating	DLC is available upon request		
CSH		19-22mm			
Ж МЕСН	ANICAL				
Focus / Zo	om mechanism	Motorized			
Focus rang	је	5m /30m – Infinity	For WOFV / NFOV accordingly		
Through zoom boresight		<0.15mm Radius at focal plane			
NFOV bore	sight retention	<0.09mm Radius at focal plane			
Total Weig	ht	265gr			
Ext. Dimensions ø x length (mm)		63.5 x 72			
■ ELECTRICAL					
Power Input		12VDC, 1.0 A			
Communic	ation Protocol	RS-422/232 Full Duplex			
6 ENVIR	ONMENTAL				
Operating / Storage Temperature		-25°C to +55°C / -40°C to +70°C			
Shock and	Vibrations	Per applicable standard			
Front lens	sealing	IP66	IP67 By request		
مر مردادید محم	nominal: to within +5%				

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

