MWIR Continuous zoom - Commercial off the shelf lens

* ZENITH

MWIR 18-400mm F/3.4-4.0 Continuous zoom Lens for 1280 x 1024 x 10µ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Very high zoom ratio X22 for HD 10μ sensors
- Great MTF performance
- Optional front focal length extender X2
- Activel

ely Athermalized to maintain focus to infinity through temperature changes										
	HFOV for Wide (18mm)				HFOV for Narrow (400mm)					
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)		
10u	20.2°	31.7°	39°	0.032	0.9°	1.5°	1.8°	0.0014		
15u	29.9°			0.048	1.4°			0.0021		

PARAMETER		VALUE	NOTES			
Main	Sub					
OPTICAL	L					
Focal Lengt	h / F#	18-400mm F/3.4-4.0	F# determined by the detector. ≤ 340mm F/3.4, ≤360mm F/3.6, ≤400mm F/4.0			
Detector (FF	PA) type / size	Up to 1280 x 1024 x 10µ				
Working Spe	ectral Range	3 – 5µ				
Optical	All internal surfaces	High Efficiency AR coating				
Coatings	Front surface	High Durability AR coating	DLC is available upon request			
CSH		19-22mm				
Ф МЕСНАІ	NICAL					
Focus / Zoom mechanism		Motorized				
Focus Range		10m / 30m – Infinity	For WOFV / NFOV accordingly			
Trough zoom boresight		<0.15mm radius at focal plane				
NFOV bores	ight retention	<0.045mm radius at focal plane				
Total Weight	t	1.35Kg				
Ext. Dimens	ions ø x length (mm)	129 x 152.5				
P ELECTR	RICAL					
Power Input		12VDC, 3.0A				
Communica	tion Protocol	RS-422/232 Full Duplex				
6 ENVIRO	NMENTAL					
Operating / S	Storage Temperature	-25°C to +55°C / -40°C to +70°C				
Shock and V	ibrations (Per applicable standard				
Front lens s	ealing	IP66	IP67 By request			

