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 10 μ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Very high zoom ratio X22 for HD 10µ sensors
- Great MTF performance
- Optional front focal length extender X2
- Actively 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	20.1°	31.7°	39.1°	0.032	0.92°	1.5°	1.83°	0.0014
15u	29.8°			0.048	1.4°			0.0021

PARAMET	ER	VALUE	NOTES			
Main Sub						
OPTICA	I					
Focal Length / 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 (FI	PA) type / size	Up to 1280 x 1024 x 10µ				
Working Sp	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 МЕСНА	NICAL					
Focus / Zoom mechanism		Motorized				
Focus Range		10m / 30m – Infinity	For WOFV / NFOV accordingly			
Trough zoom boresight		<0.15mm radius at focal plane				
NFOV boresight retention		≤0.045mm radius at focal plane				
Total Weight		1.35Kg				
Ext. Dimens	sions ø x length (mm)	129 x 152.5				
P ELECT	RICAL					
Power Inpu	t	12VDC, 3.0A				
Communica	ation Protocol	RS-422/232 Full Duplex				
% ENVIRO	INMENTAL					
Operating /	Storage Temperature	-25°C to +55°C / -40°C to +70°C				
Shock and \	/ibrations	Per applicable standard				
Front lens s	sealing	IP66	IP67 By request			

