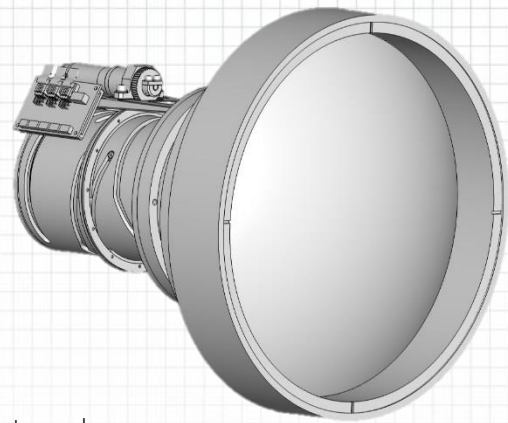


MWIR Continuous zoom – commercial off the shelf lens

NEPTUNE

MWIR 40 - 1000mm F/4.0 Continuous zoom
Lens for 10 μ HD sensors



FEATURES / APPLICATIONS / CAPABILITIES

- X25 optical zoom lens for HD 10 μ sensors
- Compatible with F#4.0 detectors
- Focus is maintained through the entire zoom range providing extremely fast zoom and focus response
- Actively athermalized to maintain focus to infinity through temperature changes

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL

Focal Length / F#		40 - 1000 mm / F 4.0	
Detector (FPA) type / size		For 1,280 x 1,024 x 10 μ F/4.0 cooled detectors with 19-20.5 mm cold stop	
Working Spectral Range		3 – 5 μ	
FOV Horizontal (degrees)		19° x 0.75°	All values to within \pm 5%
Optical Coatings	All internal surfaces	High Efficiency AR coating	Average transmission: 70%
	Front surface	High Durability AR coating	DLC is available upon request
Optical Total lens track		325 mm	Nominal

MECHANICAL

Mechanical Back Focal Length		24 mm	Nominal
Mechanical air gap to detector cover glass		3 mm	Optional motorized NUC flag (shutter)
Zoom / Focus mechanism		Motorized	
Focus Range		30 m to ∞ for Wide 250 m to ∞ for Narrow	
Thru zoom boresight		\leq 0.15mm radius at the focal plane	
NFOV boresight retention		\leq 0.04 mm at the focal plane	
Total Weight		Approx 8 kg	
Ext. Dimensions ϕ x length (mm)		285 x 300 (Please refer to MICD for details)	

ELECTRICAL

Power Input		12VDC, 3.0A	Nominal
Communication Protocol		RS-422 or 232	

ENVIRONMENTAL

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