

MWIR HD Continuous zoom – commercial off the shelf lens

GARNET

MWIR HD 25 - 400 mm F/3.0 - 4.0 Continuous zoom Lens with DSP controller for HD detectors

**NEW &
UNIQUE
RELEASE**

FEATURES / APPLICATIONS / CAPABILITIES

- True high definition resolution
- Highest resolution performance over entire zoom range
- Rugged design to comply with different applications
- Focus is maintained throughout the entire zoom range, with fast zoom and focus response

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL			
Focal Length / F#		25-400 mm / F# 3.0 - 4.0	Nominal values. F# 3.0 for up to 300mm and then goes down to 4.0 for zoom range 300 – 400mm monotonically.
Detector (FPA) type / size		Supports HD 1,280 x 1,024 x 15 µm & 1920 x 1536 x10 µm (19.2 x 15.36 mm)	
Working Spectral Range		3 – 5 µ	
FOV (degrees)		Wide FOV: 42°(H) x 34° (V) Narrow FOV:2.8 °(H) 2.22° (V)	For detector size of 19.2 x 15.36 mm
Optical Coatings			
	All internal surfaces	High efficiency AR coating	Average transmission: 78%
	Front surface	High durability AR coating	DLC is available upon request
Optical Total lens track		215 mm	From Lens vertex to detector cover glass
Cold Stop distance		28 +/- 1 mm	
Optical Back Focal Length		~ 36 mm	From Last lens to detector FPA
MECHANICAL			
Zoom / Focus mechanism		Motorized	
Focus Range		20m – Infinity/ 50m – Infinity	At WFOV and NFOV respectively
Total Weight		1,250 grams	Preliminary value
External Dimensions		Max Diameter: 115 mm; Length: 215 mm (Please refer to MICD for details)	
ELECTRICAL			
Power Input		12VDC, 1.0 A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
ENVIRONMENTAL			
Operating/Storage Temperature		-20°C to +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	

