

LWIR Continuous zoom – commercial off the shelf lens

AMBER

Cooled LWIR 50 – 600 mm Continuous zoom Lens with DSP controller

FEATURES / APPLICATIONS / CAPABILITIES

- Suitable for various applications
- High sensitivity (LOW F#) as low as 2.5
- Rugged design for harsh environments

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL			
Focal Length / F#		50 – 600mm F/2.5 - 3.5	50-400mm F/2.5, 400-500 F/3, 500-600 F/3.5
Detector (FPA) type / size		640 x 512 pixles x 16 microns 640 x 512 pixles x 15 microns	Cooled detector with cold shield position at 19-22.4mm nominal.
Optical Spectral Range		7.5 – 10 microns	
FOV (degrees)		Wide FOV: 11.6°(H) x 9.4° (V) Narrow FOV: 1° (H) x 0.8° (V)	For detector size of 640 x 512 x 16 microns
Optical Coatings			
	All internal surfaces	High efficiency AR coating	More than 86% transmittance
	Front surface	High durability AR coating	DLC is available upon request
Optical Total lens track		210mm	Front element vertex to FPA
MECHANICAL			
Mechanical Back Focal Length		minimum 31mm	
Zoom mechanism/ Focus		Motorized	
Total Weight		~3500 grams	Nominal
External Dimensions		175mm Diameter x 188 mm length	
ELECTRICAL			
Power Input		12VDC, 0.5 A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
ENVIRONMENTAL			
Operating/Storage Temperature		-20°C to +50°C / -30°C to +60°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	

