

LWIR Continuous zoom – commercial off the shelf lens

TOPAZc

Ultra Compact 18 – 60 mm LWIR Continuous zoom Lens



FEATURES / APPLICATIONS / CAPABILITIES

- Ultra Compact continuous zoom lens, Complies with 4" payloads
- Suitable for various applications
- High sensitivity (LOW F#) as low as 1.4
- Rugged design for harsh environments

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL			
Focal Length / F#		18-60 mm / F1.4	Nominal values.
Detector (FPA) type / size		640 x 480 pixels x 17 microns	Effective detector size of 10.88 x 8.16 mm
		384 x 288 pixels x 25 microns	Effective detector size of 9.6 x 7.2 mm
FOV (degrees)		Wide: 33.6°(H) x 25.5° (V) Narrow: 10.3° (H) x 7.8° (V)	640 x 480 pixels x 17 microns
		Wide: 29.9°(H) x 22.6° (V) Narrow: 9.2° (H) x 6.9° (V)	384 x 288 pixels x 25 microns
Optical Coatings			
All internal surfaces		High efficiency AR coating	Average transmission: 92%
Front surface		Hi durability AR coating	DLC is available upon request
Optical Total lens track		69 mm	Nominal from 1 st surface vertex to detector FPA
MECHANICAL			
Mechanical Back Focal Length		5.77 mm	Nominal
Zoom mechanism/ Focus		Motorized	5m - Infinity
Total Weight		258 gram	Nominal
External Dimensions		Max Diameter: 70 mm; Length: 60 mm, Please refer to MICD	
ELECTRICAL			
Power Input		12VDC, 1.0A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
ENVIRONMENTAL			
Operating/Storage Temperature		-30°C to +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	

