

LWIR Dual/Triple FOV – commercial off the shelf lens

TOPAZ

Compact 22/66 mm LWIR Dual FOV
Lens for 25 μ / 17 μ detector



FEATURES / APPLICATIONS / CAPABILITIES

- Smallest Dual FOV lens, Complies with 4" payloads
- Suitable for various applications
- High sensitivity (LOW F#) as low as 1.25
- Rugged design for harsh environments

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL			
Focal Length / F#		22/66 mm F/1.25	Nominal values.
Detector (FPA) type / size		640 x 480 pixels x 17 microns	Effective detector size 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 FOV: 27.8°(H) x 20.0°(V) Narrow FOV: 9.5° (H) x 7.1° (V)	640 x 480 pixels x 17 microns
		Wide FOV: 24.6°(H) x 18.5° (V) Narrow FOV: 8.3° (H) x 6.2° (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		57 mm	Nominal
MECHANICAL			
Mechanical Back Focal Length		9.27 mm	Nominal
Zoom mechanism/ Focus		Motorized	5m - Infinity
Total Weight		350 gram	Nominal
External Dimensions		Front Diameter: 68 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 +50°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	

