

--- LWIR Dual/Triple FOV – commercial off the shelf lens

ROTEM

LWIR 70/220 mm F/1.1 & / F1.45 Dual FOV
 Lens with DSP controller for 25 / 17μ detectors



FEATURES / APPLICATIONS / CAPABILITIES

- The ultimate lens for medium to long range surveillance systems in various applications
- Excellent MTF performance
- Supports multiple detector types: 640 x 480 x 25μ pitch. 640 x 480 x 17μ pitch and HD 1,024 x 768 x 17μ pitch

PARAMETER		VALUE	NOTES
Main	Sub		

🔍 OPTICAL			
Focal Length / F#		70/220mm, F/1.1 & / F1.45	Nominal values.
Detector (FPA) type / size		640 x 480 pixels x 25 microns	
		1,024 x 768 pixels x 17 microns	
		640 x 480 pixels x 17 microns	
FOV (degrees)		Wide: 13.1°(H) x 9.8° (V) Narrow: 4.17°(H) x 3.12° (V)	For detector size of 16 x 12 mm (640 x 480 x 25μ)
		Wide: 14.2°(H) x 10.7° (V) Narrow: 4.6°(H) x 3.4° (V)	For detector size of 16 x 12 mm (1,024 x 768 x 17μ)
		Wide: 9.0(H) x 6.72° (V) Narrow: 2.83°(H) x 2.12° (V)	For detector size of 10.88 x 8.16 mm (640 x 480 x 17μ)
🔧 MECHANICAL			
Mechanical Back Focal Length		12.1 mm	Nominal
Focus / Zoom mechanism		Motorized	Focus range: 5m - Infinity
Total Weight		4,150 grams	Nominal
External Dimensions		Max Diameter: 194 mm; Length: 228 mm (excluding motor and electronic board)	
💡 ELECTRICAL			
Power Input		12VDC, 2.0A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
🌿 ENVIRONMENTAL			
Operating/Storage Temperature		-32°C to +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	By request

