

LWIR Triple FOV – commercial off the shelf lens

TRiF

LWIR 40/110/380 mm Triple FOV
 Lens with DSP controller for cooled LWIR detectors



FEATURES / APPLICATIONS / CAPABILITIES

- The ultimate lens for long range surveillance systems at various applications
- Optimized for relatively short total track and low weight

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL

Focal Length / F#	40/110/380 mm / F2.24	Nominal values.
Detector (FPA) type / size	640 x 512 pixles x 15 microns	Max FPA effective area is: 9.6 mm W x 7.68 mm H (12.3 mm diagonal)
FOV (degrees)	Wide: 11.1°(H) x 13.9° (V) Narrow: 1.2° (H) x 1.52° (V)	For detector size of 640 x 512 pixles x 15μ
Optical Coatings		
	All internal surfaces	High efficiency AR coating
	Front surface	Hi durability AR coating
Optical Total lens track	193 mm	Front element vertex to FPA, Nominal Value

MECHANICAL

Mechanical Back Focal Length	23.5 mm	Request MICD for details. Other distances available
Zoom mechanism / Focus	Motorized	With single motor
Total Weight	2,915 gram	Nominal
Structure	Environmentally sealed configuration	
External Dimensions	174mm Diameter x 193 mm length	

ELECTRICAL

Power Input	12VDC, 0.5A	Nominal
Communication Protocol	RS-422/232 Full Duplex	Default is RS422; Baud rate 19,200, n, 8, 1

ENVIRONMENTAL

Operating/Storage Temperature	-30°C to +60°C / -40°C to +70°C	
Shock and Vibrations	Per applicable standard	
Sealing	IP67	

