

LWIR Tripple FOV – Commercial off the shelf lens

HERMON

LWIR 30/86/190 mm F1.27 Tripple FOV Lens
for 640 x 480 x 17 μ uncooled detectors

Features:

- Rugged design
- Supports detector types with up to 13.6mm diagonal



	HFOV for Wide (30mm)		HFOV for Narrow (190mm)	
	640x480	IFOV (mrad)	640x480	IFOV (mrad)
17u	21°	0.57	3.3°	0.09

Optical		
Focal Length / F#	30/86/190 mm F1.27	
Detector (FPA) type / size	Up to 640 x 480 x 17 μ	
Working Spectral Range	8-12 μ	
Optical Coating	All internal surfaces	High efficiency AR coating
	Front surface	DLC coating / HDAR is available upon request
Mechanical		
Mechanical Back Focal Length	12 mm (Please refer to the MICD)	
Focus mechanism	Motorized with single motor	
Focus range	<5 pixels radius Typical value	
NFOV boresight retention	Included through encoder of motor and opto-switch	
Total Weight	3.2 Kg	
Structure	Sealed configuration (Open frame / no bottom plate upon request)	
Ext. Dimensions ϕ x length (mm)	250 x 170mm (Please refer to the MICD)	
Electrical		
Power Input	12VDC, 1A	
Communication Protocol	RS-422/232 Full Duplex	
Environmental		
Operating Temperature	-25 $^{\circ}$ C to +55 $^{\circ}$ C	
Storage Temperature	-40 $^{\circ}$ C to +70 $^{\circ}$ C	
Shock and Vibrations	Per applicable standard	
Front lens sealing	IP66 (IP67 available upon request)	

*IFOV is indicated in mrad

**All values are nominal: to within \pm 5%