

OPTIR OBJECTIVE LENS

FL 50mm F/1.1 Fixed Focus

Optix's athermalized IR objective Lens has been developed for an easy fit with wide range of uncooled camera cores for LWIR Spectral Band (8-12 μ m). This lens fits the latest 17 μ m and 25 μ m pitch detectors with diagonal up to 14 mm. The lens body is made of black-matt anodised aluminium alloy type 6068 -T6.

All the internal mechanical surfaces are non-reflective.

TECHNICAL SPECIFICATION

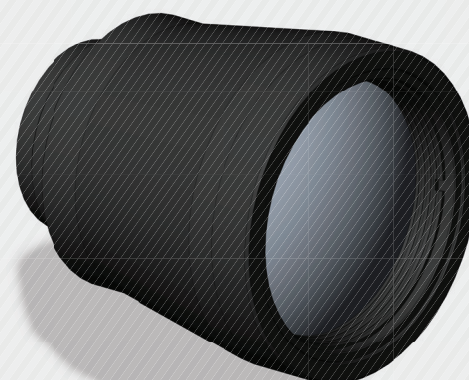
Focal Length	50 mm
F/#	F/1.1
FOV	
(for 640x480, 17 μ m detector)	12.4°x9.3°
Maximum Image Circle	14 mm
Waveband	8-12 μ m
Material	Germanium
Back Focal Length	
(including 1mm Ge window)	17 mm
Flange Back Distance	
(including 1mm Ge window)	18.3 mm
Weight	190 g

ENVIRONMENTAL SPECIFICATION

Operating Temperature	-30°C to +50°C
Storage Temperature	-40°C to +80°C
Mechanical Impact	MIL-STD-810F
Sealing	IP 67

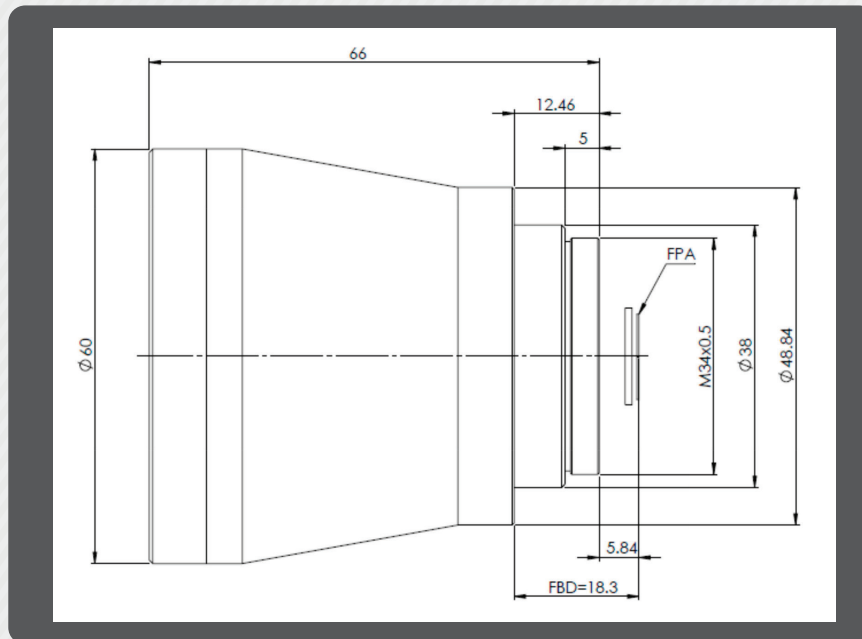
COATINGS

Front Surface	Hard Carbon Coating @ 8-12 μ m
Other Surfaces	High Efficiency AR Coating @ 8-12 μ m

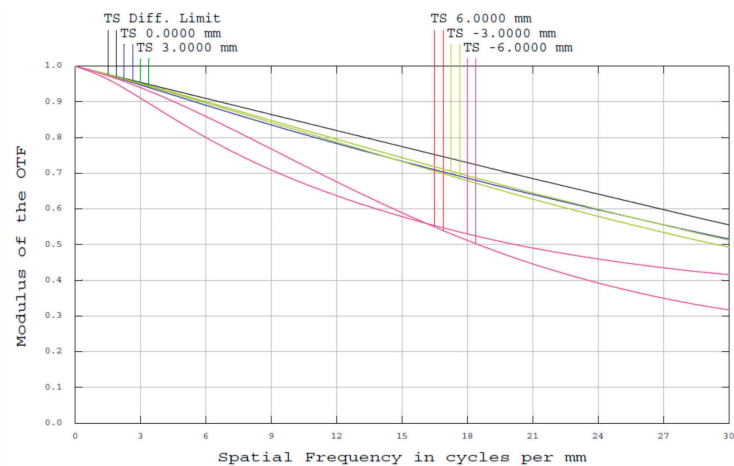


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Dimensions and Interface



Optical Quality



Diffraction MTF

9/18/2014
Data for 10.6000 μm .
Surface: Image

50_1.1.ZMX
Configuration 1 of 7



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