

OTL

L-F1.2 | 30-150 mm LWIR ZOOM LENS

F/1.2 • Electric Focusing

8-12 μm Long-Wave Infrared

640 $\times$ 512 detector format (12 μm pixel size)



ILLUSTRATIVE RENDER

F/1.2 APERTURE

F-number 1.2

30-150 mm ZOOM

$\pm 5\%$ focal length tolerance

LWIR BAND

8-12 μm spectral range

ELECTRIC FOCUS

3 m to infinity

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OTL- L-F1.2 30–150 mm LWIR Zoom Lens

F/1.2 | Electric Focusing | 640 × 512 (12 μm) | Technical Datasheet

PRODUCT OVERVIEW

The supplied specification describes an LWIR zoom lens with a 30–150 mm focal-length range, F/1.2 aperture, electric focusing, and a spectral range of 8–12 μm.

The source lists a 640 × 512 detector with a 12 μm pixel size, average transmission above 84%, and an available DLC external coating.

OPTICAL SPECIFICATIONS

Property	Value	Remarks
Focal length	30–150 mm ±5%	
F-number	1.2	
Spectral range	8–12 μm	
Field of view (FOV)	(H)20.6° × (V)16.5° / (H)4° × (V)3.2°	Order retained as shown in source
Average transmission (8–12 μm)	>84%	
Detector type / size	640 × 512 (12 μm)	
External coating	DLC coating available	

MECHANICAL SPECIFICATIONS

Property	Value	Remarks
Focus mechanism	Electric focusing	
Focus range	3 m to infinity	Source wording: 3M to infinity
Back working distance	10.41 mm	
Dimensions	Ø160 mm / L224.59 mm	
Weight	2250 g ±5%	
Mount type	M34 × 0.75	Source notation: M34*0.75

ENVIRONMENTAL SPECIFICATIONS

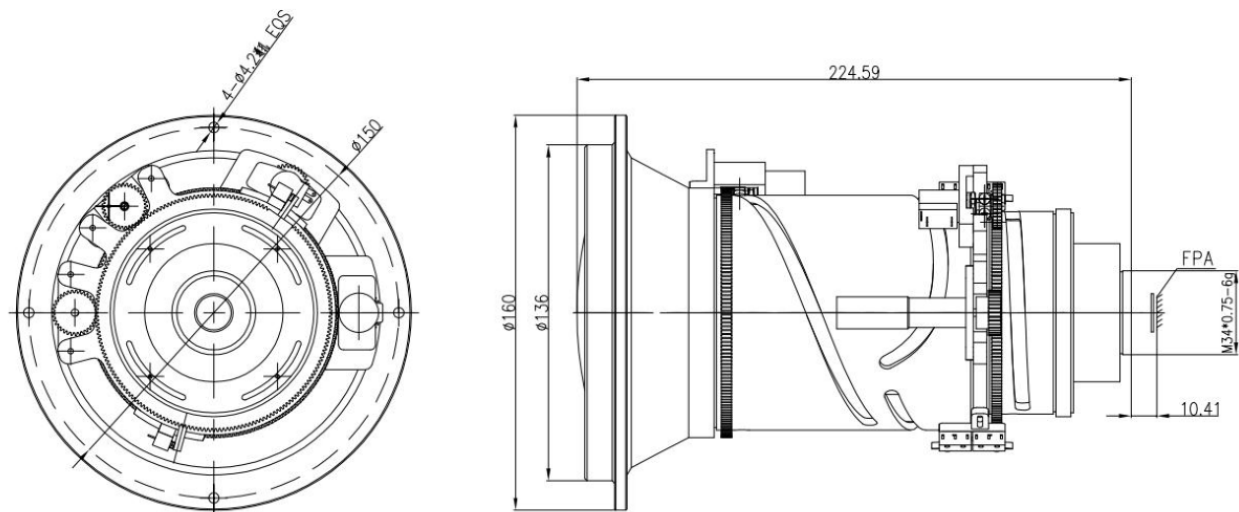
Property	Value	Remarks
Operating temperature	–40°C to +60°C	
Storage temperature	–50°C to +85°C	
Front lens sealing	IP67	

Presentation note: the source PDF contains engineering drawings but no product photograph. The lens render on the cover is illustrative; use the source drawing for mechanical verification.

Dimensions & Mechanical Drawing

OTL- L-F1.2 30–150 mm LWIR Zoom Lens | Original source drawing

This image preserves the complete front and side views, dimension callouts, and FPA annotation from the provided PDF.

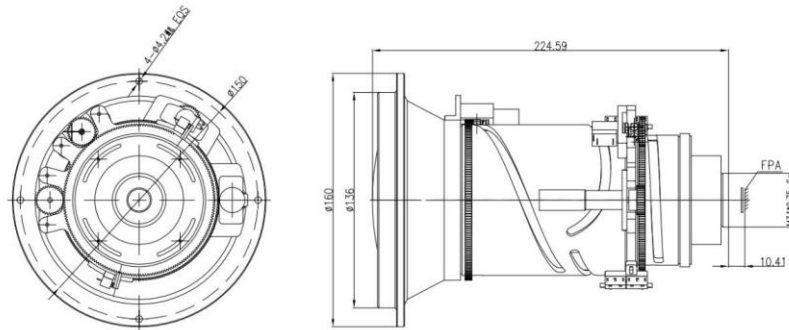


Original Source Reference

Original one-page PDF for cross-checking

The original page is retained as a visual reference beside the editable specification tables.

L- F1.2 - 30-150mm Electric focusing



Property	Value	Remarks
Optical		
Focal length	30-150mm±5%	
F/#	1.2	
Spectral Range (μm)	8-12μm	
FOV(°)	(H)20.6°×(V)16.5°/(H)4°×(V)3.2°	
Average Transmission(8~12μm)	>84%	
Detector Type/size(μ m)	640×512(12μm)	
External Coating	DLC coating available	
Mechanical components		
Focus Mechanism	Electric focusing	
Focus Range	3M to infinity	
Back Working Distance	10.41mm	
Dimensions	Φ 160mm/L224.59mm	
Weights	2250g ±5%	
Mount Type	M34*0.75	
Environmental		
Operating Temperature	-40°C~+60°C	
Storage Temperature	-50°C~+85°C	
Front lens Sealing	IP67	



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