

OTL

L-F1.0 | 30-150 mm LWIR ZOOM LENS

F/1.0-1.2 • Electric Focusing

8-12 μm Long-Wave Infrared

1280 $\times$ 1024 Detector | 12 μm Pixel Size



F/1.0-1.2 APERTURE

F-number range

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-F1.0 30–150 mm LWIR Zoom Lens

F/1.0–1.2 | Electric Focusing | 1280 × 1024 (12 μm) | Technical Datasheet

PRODUCT OVERVIEW

This long-wave infrared continuous zoom lens specification lists a 30–150 mm focal-length range, F-number of 1.0–1.2, and spectral range of 8–12 μm.

The source lists a 1280 × 1024 detector format with 12 μm pixel size, average transmission above 84%, and optional DLC external coating.

OPTICAL SPECIFICATIONS

Property	Value	Remarks
Focal length	30–150 mm ±5%	
F-number	1.0–1.2	
Spectral range	8–12 μm	
Field of view (FOV)	(H)28.7° × (V)23.2° to (H)5.9° × (V)4.7°	Source endpoints
Average transmission (8–12 μm)	>84%	
Detector type / size	1280 × 1024 (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	14.84 mm	
Dimensions	Ø153 mm / L220.5 mm	
Weight	2910 g ±5%	
Mount type	Flangeless	Source wording

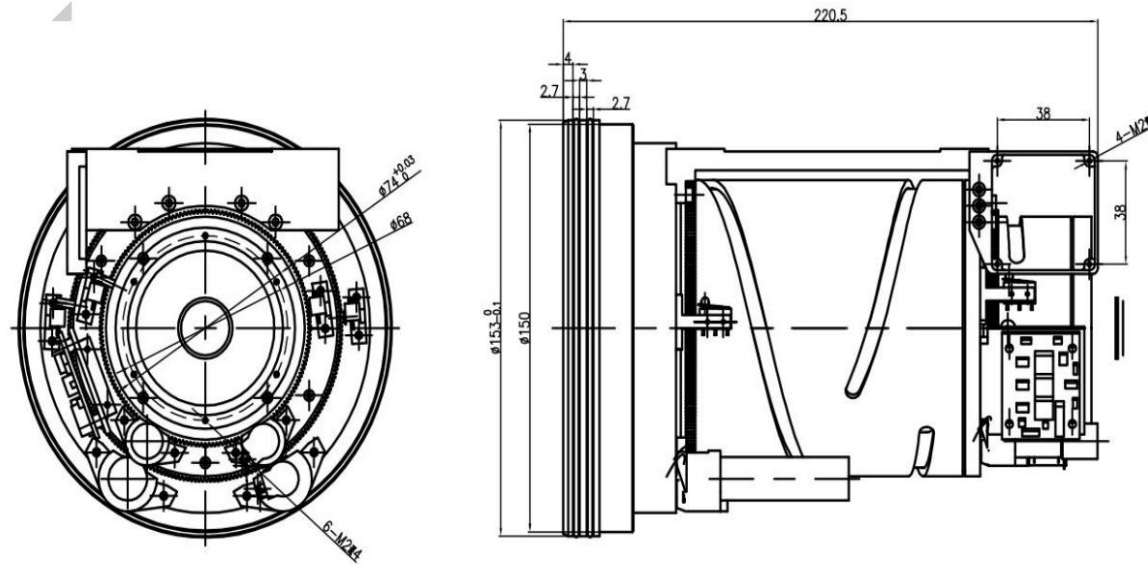
ENVIRONMENTAL SPECIFICATIONS

Property	Value	Remarks
Operating temperature	–40°C to +60°C	
Storage temperature	–40°C to +80°C	
Front lens sealing	IP67	

Dimensions & Mechanical Drawing

OTL- L-F1.0 30–150 mm LWIR Zoom Lens | Source page 1

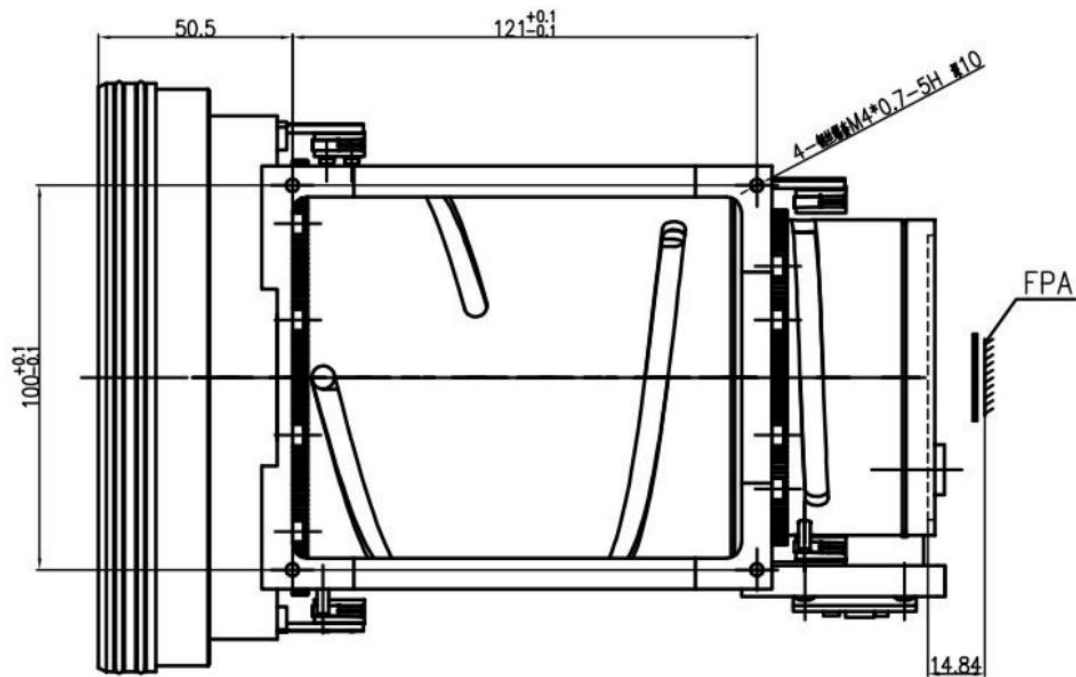
Front and side views with original dimensional callouts, retained without redrawing.



Mechanical Drawing — Additional View

Original lower drawing view from source page 1

The additional orthographic view and its dimension callouts are reproduced below in the original proportions.



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