

349-000

25 mm f/1.4 SWIR Fixed Focus Lens



The **349-000** Lens has been designed specifically for SWIR waveband of 0.9 – 1.7 μm . Most off the shelf lenses aimed at the SWIR market are actually just designed for the visible spectrum but have AR coating for the SWIR bandwidth. This will result in a significant drop in resolution and poor colour correction.

Resolve Optics Ltd has carefully selected the glass types used in the design of our SWIR lenses to ensure that the performance of the lens at 0.9 to 1.7 μm is no longer the restricting factor to providing the best possible image to your camera.

In keeping with Resolve Optics tradition of designing unique lenses we are able to provide lenses to meet your exact specification. If you can not find a lens, within our standard range that meets your requirements, please contact us to discuss the possibility of developing a lens for you.

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Focal Length Range	25 mm	
Aperture	f/1.4	
Image Format	9.6 mm x 7.68 mm (12.3 mm dia) 1" (16 mm dia) 22 dia 12.8 mm x 12.8 mm (Star250 CCD)	
Field of View	12.3 mm dia - 22° Horz x 17.6° Vert 16 mm dia - 29° Horz x 22° Vert 22 mm dia - 40° Horz x 29° Vert	
Iris	Manual	
Vignetting in format corners at full aperture (f/)	Less than <20%	
Spectral Waveband	0.9 to 1.7 μ m	
Coating	SWIR anti-reflection coating	
Image Resolution	> than 60% @ 20 Cycles across the field.	
Geometric Distortion	Less than <2%	
Camera Fittings	C-mount	
	Diameter/thread 1" x 32 UNS-2A	Nominal Register 17.53 mm
Lens Mount	Not to exceed 30mm O/D Black Anodised finished with laser engraved Details	
Temperature Ranges	Operating 0° C to 40° C	
	Storage -10° C to 60° C	

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