

# SWIR 12.5mm Lens

With one of the highest resolution short-wave infrared lenses in the industry, our SWIR offers unmatched performance for all night and infrared applications. Our in-stock lenses operate at 0.7-1.9 um wavelength industry standard with less than 2% distortion. These lenses have been specifically designed to match InGaAs FPA formats. Custom solutions are also available depending on the customer's specifications.

## KEY FEATURES

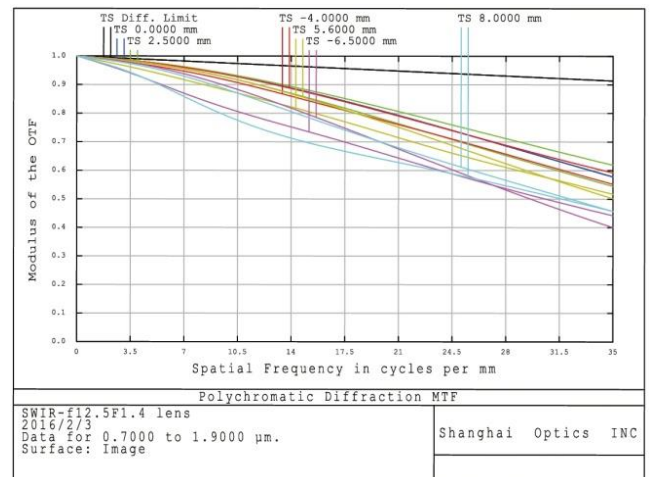
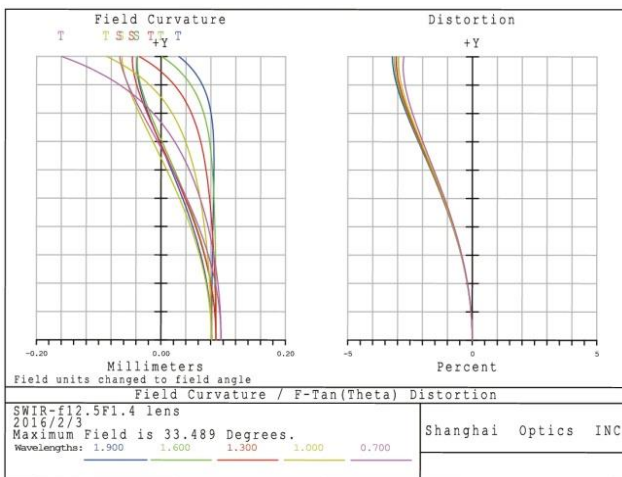
- High Precision Focusing Locking Mechanism
- Excellent Infrared Coating Techniques
- Full Spectrum Aberration Correction
- Ultra-Broadband Antireflection Coatings
- Outstanding Spectral/Spatial Resolution
- Low Levels of Scattered or Stray Light



## Optical Specifications:

- MTF: Center >0.2; Edge View >0.15
- Overall transmittance: Max – 86%, Min – 70% @ 700-1700nm
- F#: 1.4 – 16
- Distortion: <2%

Specification	Value
Focal Length	F = 12.5mm
Maximum Diameter (Ratio)	F = 1.4:1 ~ 16
Picture Size	12.8 x 9.6mm
Angle	Vertical 42.5 degree Horizontal 55.6 degree Diagonal 67.7 degree
Distortion (TV)	-1.58%
Minimum Focus Distance	0.3m
Flange Back	17.526mm in air
Back Focus	12.6mm in air
Filter Screw Size	M35.5 x 0.5
Effective Diameter	Front 38.1 mm Rear 17.5 mm
Mount	C-Mount
Exit Pupil	-45.9mm Diameter
Temperature Range	-10 ~ +45 degree C
Strong Temperature Range	-40 ~ +60 degree C
	<b>1/2"</b> <b>1/3"</b>
Picture Size	8.8 x 6.6mm                      6.4 x 4.8mm
Vertical	29.5 degree                      21.6 degree
Angle   Horizontal	39.1 degree                      28.7 degree
Diagonal	48.3 degree                      35.7 degree
Distortion (TV)	-1%                                  -0.60%



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