

LENS OB-SWIR35/1.4 – P/N C0411

General Description

This family of high resolution SWIR lenses image from 0.9 – 2.3 μm making them especially well-suited for PCB inspection, special laser applications, surveillance and alignment and tracking. A high F/N and excellent transmission characteristics allow superior imaging in these wavelengths of interest.



Optical and mechanical parameters

Focal length	35 mm
Image format (diagonal)	32.8 mm
F.O.V. (diagonal)	50.2 degrees
Max aperture	F/N = 1.4
Object format	N.A.
Min working distance	8 m
Zoom value	N.A.
Focus	Manual
Iris	Max F/N = 1.4 Min F/N = 22

N. of elements	10
Dimensions	Dia 100 x 135 mm
Weight	1.2 Kg
Options	
Motorized focus	Upon request
Motorized iris	Upon request
Motorized zoom	N.A.
Other mount type	Upon request
Customization	Upon request

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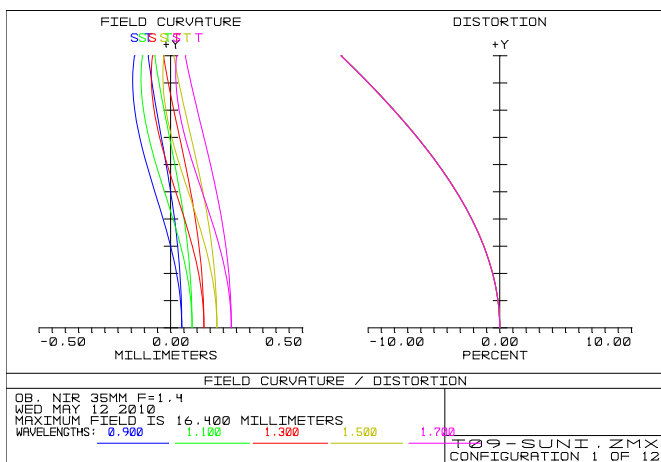
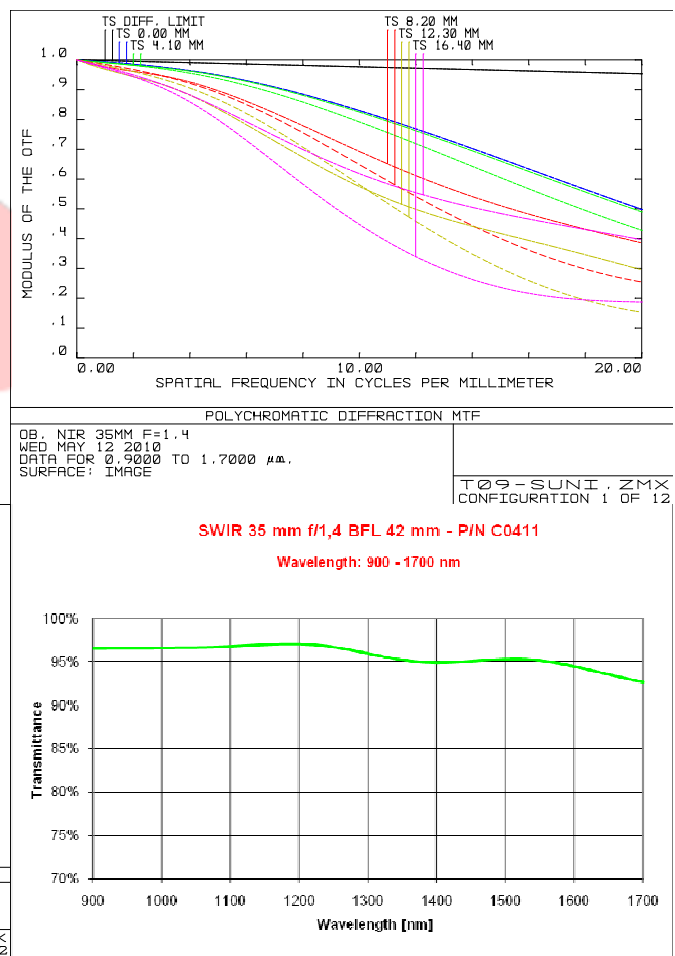
P/N	wavelength range	mount type	note
C0411.001	900-1700 nm	Canon FD	Without iris diaphragm
C0411.051		Canon FD	With iris diaphragm

The lenses can be used with C-Mount Adapter C0999_050_000 but the image will be vignetted.

Specification are subject to change without notice

MTF, Field Curvature, Distortion and Transmission from 900 to 1700 nm

The calculated MTF values are displayed below and are verified at the maximum F/N and the best focus plane. The colored lines represent the F.O.V. starting from the center (0%) to the corner (100%).



Optical parameters for wavelength range 0.9 – 1.7 μm

Resolution	MTF > 15%@20lp/mm
Distortion	< 12%
Average axial chromatic aberration	<0.05 mm

Glass Transmission without coating	> 92%
Antireflection Coating	R < 0.5%
Vignetting	<22%

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