Apochromatic Lens OB V-SWIR 16/1.6 – P/N C1326

General Description

A new high resolution V-SWIR apochromatic lenses image from 0.4 – 1.7 μm making them especially well-suited for PCB inspection, special laser applications, surveillance & defense, alignment and tracking.
A high F/N and excellent transmission characteristics allow superior imaging in these wavelengths of interest.

Optical and mechanical parameters

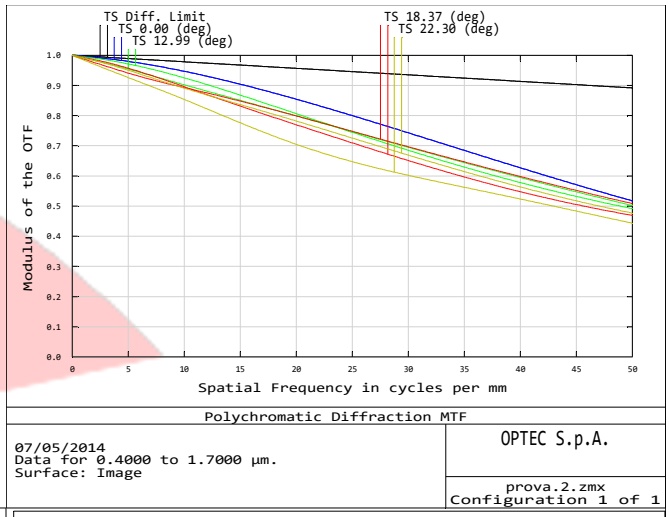
Focal length	16 mm
Image format (diagonal)	12.3 mm
F.O.V. (diagonal)	±21 degrees
Max aperture	F/N = 1.6
Object format	N.A.
Min working distance	1000 mm
Zoom value	N.A.
Focus	Manual
Iris	Max F/N = 1.6 Min F/N = 11

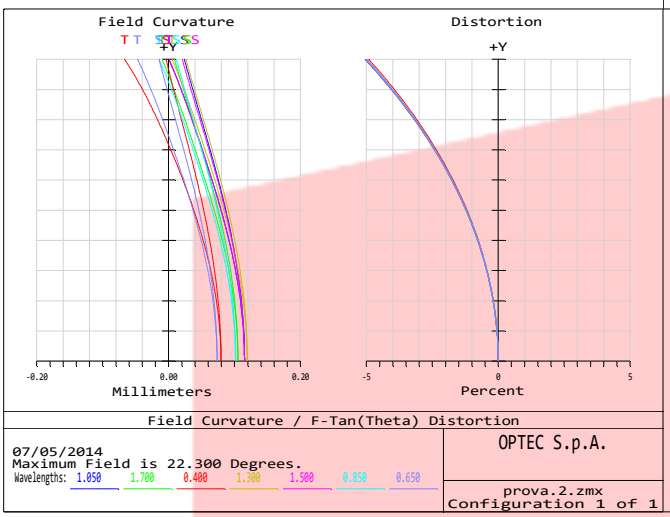
N. of elements	9
Dimensions	Dia 40 x 105 mm
Weight	0.400 Kg
Options	
Motorized focus	Upon request
Motorized iris	Upon request
Motorized zoom	N.A
Other mount type	Upon request
Customization	Upon request

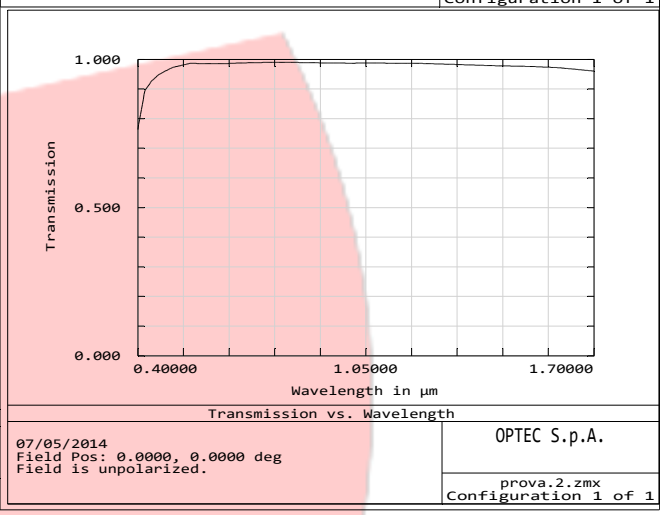
P/N	*wavelength range*	*mount type*	*Note*
C1326.001	400-1700 nm	C-Mount	-

MTF, Field Curvature, Distortion and Transmission from 400 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 0.4 – 1.7 µm

Resolution	MTF > 40%@50lp/mm
Distortion	< 5%
Average axial chromatic aberration	0.018 mm

Glass Transmission without coating	> 80%
Antireflection Coating	R ≤ 1%
Vignetting	< 1%

Outline Dimensions & Technical Notes

All the dimensions are reported to help the customer, mainly to define the interface with the cameras. More details are available upon request and technical drawings are open for the customers and their needs.