

Apochromatic Lens OB V-SWIR F100/2.0 – P/N C1855

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	100 mm
Image format (diagonal)	16.6 mm
F.O.V. (diagonal)	9.4 degrees
Max aperture	F/N = 2
Object format	N.A.
Min working distance	10 m
Zoom value	N.A.
Focus	Manual
Iris	Max F/N = 2 Min F/N = 8 (11 Upon request)

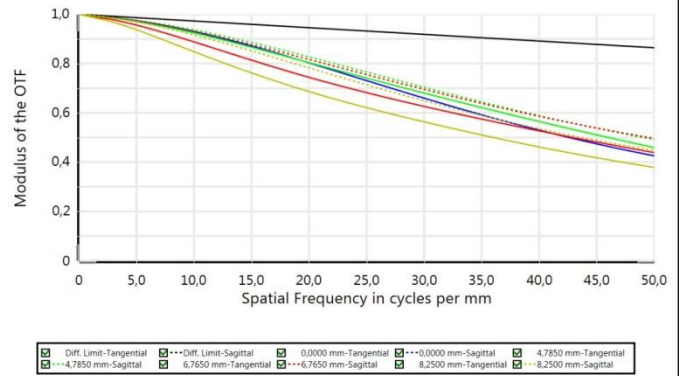
N. of elements	6
Dimensions	Dia 86 x 131 mm
Weight	1.2 Kg
<i>Options</i>	
Motorized focus	Upon request
Motorized iris	Upon request
Motorized zoom	N.A.
Other mount type	Upon request
Customization	Upon request

<i>P/N</i>	<i>wavelength range</i>	<i>mount type</i>	<i>note</i>
C1855.002	400-1700 nm	Nikon	With iris diaphragm
C1855.003	400-1700 nm	M42 Screw	
C1855.004	400-1700 nm	C-Mount	

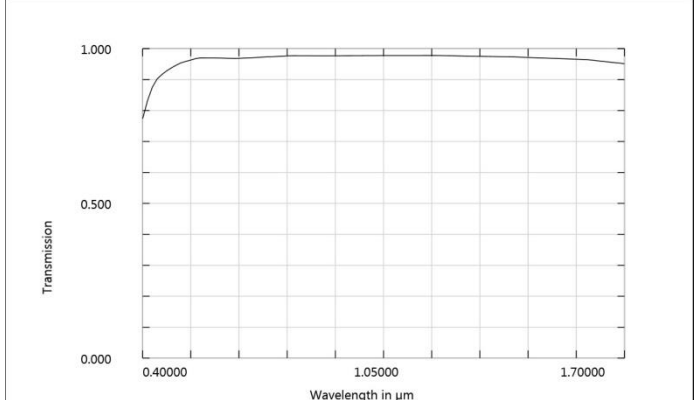
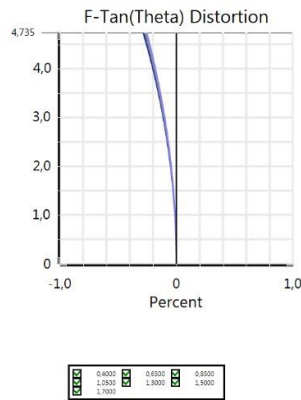
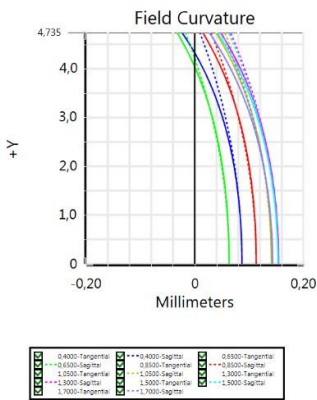
Specification are subject to change without notice

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%).



Polychromatic Diffraction MTF		OPTEC S.p.A.
20/01/2017 Data for 0.4000 to 1.7000 μm. Surface: Image		C1602.000.000.zmx Configuration 1 of 1
Legend items refer to Field positions		

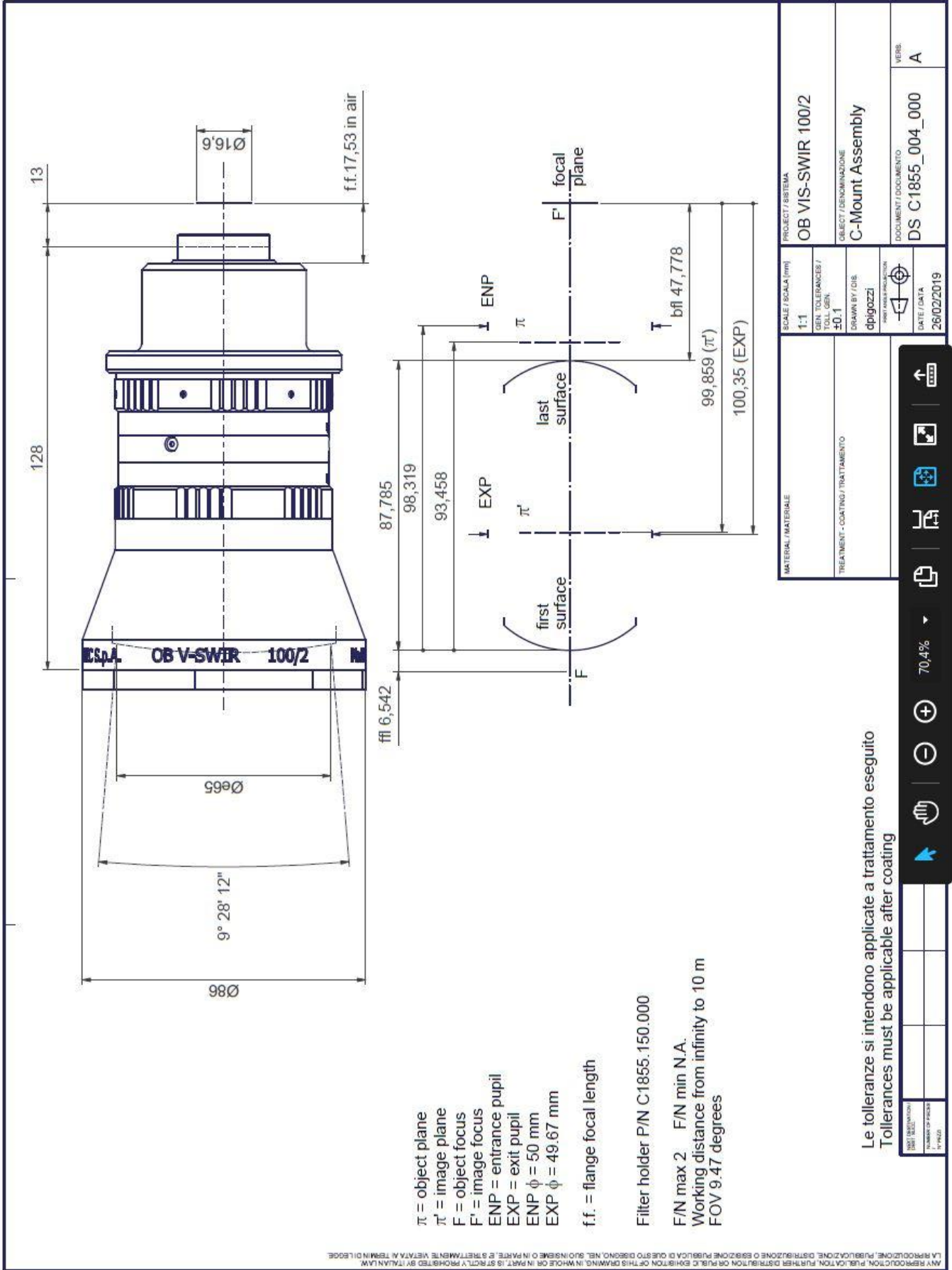


Field Curvature / F-Tan(Theta) Distortion		Transmission vs. Wavelength	
20/01/2017 Maximum Field is 4.735 Degrees. Legend items refer to Wavelengths		20/01/2017 Field Pos: 0.0000, 0.0000 DATA 3	
OPTEC S.p.A.		OPTEC S.p.A. Optical & Optoelectronic Systems	
C1602.000.000.zmx Configuration 1 of 1		C1602.000.000.zmx Configuration 1 of 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. The main parameters are reported in the front table and here below.

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