

LENS OB-SPACE – F68.3/2.8

GENERAL DESCRIPTION

THIS NEW GENERATION OF HIGH PERFORMING LENSES ARE REDESIGNING THE WORLD OF SPACE READY OPTICS AT A GLOBAL LEVEL, ENSURING DETAILS NEVER SEEN BEFORE, BOTH LOOKING AT INFINITY AND AT CLOSER WORKING DISTANCES.

INTERNAL RESEARCH HAS BROUGHT IN OUR PRODUCT PORTFOLIO SPACE COMPLIANT MATERIAL AND A NEW LIST OF RAD-HARD GLASSES, ALLOWING TO OUR OPTICAL DESIGNERS NEW DEGREES OF FREEDOM IN OBTAINING BLEEDING EDGE PERFORMING SYSTEMS.

ALL OUR LENSES ARE ASSEMBLED IN ISO5 ENVIRONMENT.

LET US BE YOUR EYES IN THE SPACE!!!

<i>OPTICAL AND MECHANICAL PARAMETERS</i>			
FOCAL LENGTH@587NM	68.3	OPTICAL LAYOUT	DIOPTRIC
F/N	2.8	FOCUS	FIXED
IMAGE FORMAT	6MM	N. OF ELEMENTS	5
F.O.V.	±2.515°	WAVELENGTH RANGE	400-650NM
BACK FOCAL LENGTH	12MM	AR COATING	R<0.3%@400-700NM
RESOLUTION	MTF>40%@133LP/MM	FLANGE FOCAL LENGTH	CUSTOMIZED
DISTORTION	<0.5%	DIMENSIONS	57x34x34 MM
VIGNETTING	NEGLIGIBLE	WEIGHT	0,041 KG
WORKING DISTANCE RANGE	INFINITY - 200M	QUALIFICATION LEVEL	NASA GEVS
AVERAGE TRANSMISSION	>92%	ATHERMALIZATION	0°C / +20°C
RAD HARD	30KRAD	MOTORIZED FOCUS	UPON REQUEST
SUN EXCLUSION ANGLE	±45°	OTHER MOUNT TYPE	UPON REQUEST
STRAY LIGHT	4.74*10 ⁻⁹	CAMERA INTERFACE	CUSTOM DESIGN
		CUSTOMIZATION	UPON REQUEST

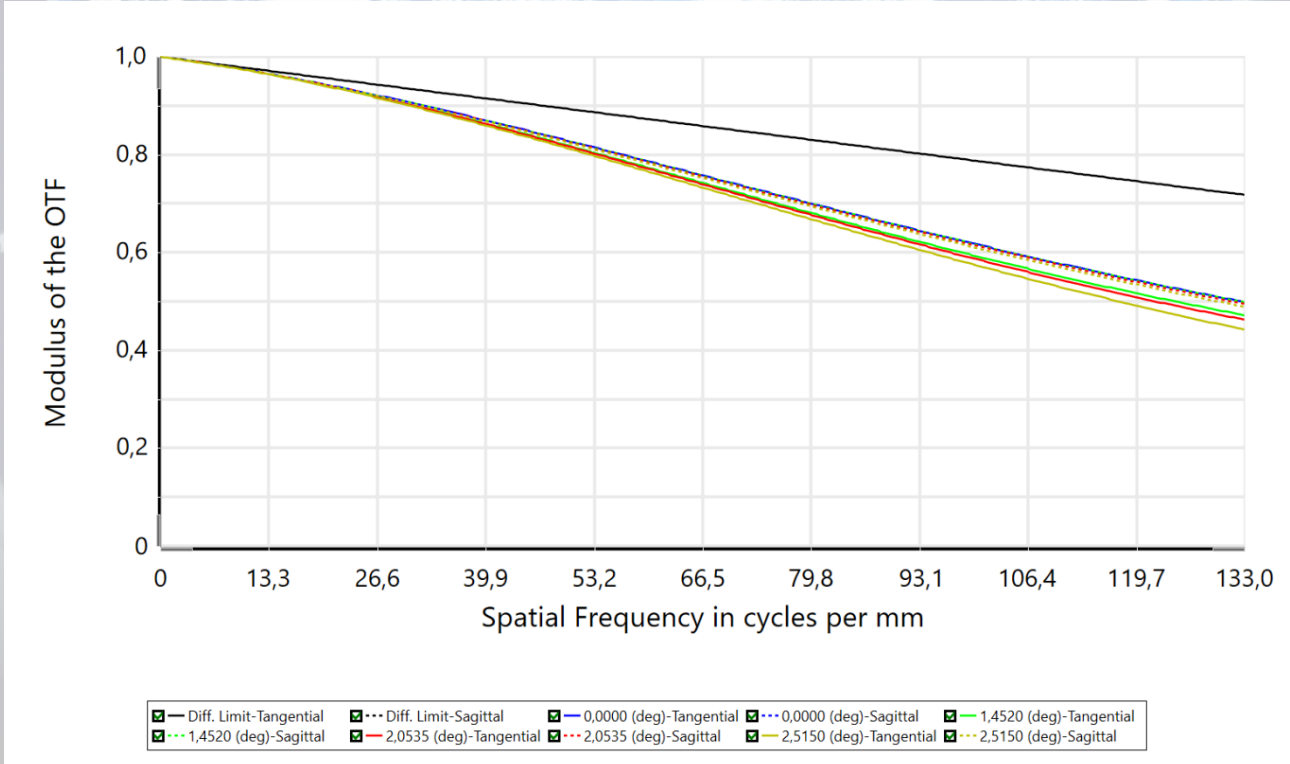
$$\text{Ground resolution} = \frac{WD \cdot \text{pixel_size}}{\text{Focal length}}$$

$$\text{Area framed on the ground} = \frac{WD \cdot \text{sensor_linear_dimension}}{\text{Focal length}}$$

Where WD is the quote.

Specification are subject to change without notice

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

20/06/2019
Data for 0,4861 to 0,6563 μm .
Surface: Image

Legend items refer to Field positions

OPTEC S.p.A.
Optical & Optoelectronic Systems

C1920_001_001 with filter - set-up point 10°C.zmx
Configuration 1 of 3

MORE DETAILS ARE AVAILABLE UPON REQUEST AND TECHNICAL DRAWINGS ARE OPEN FOR THE CUSTOMERS AND THEIR NEEDS.

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