

LENS OB-SPACE – F393/5.2

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@560NM	393 MM	OPTICAL LAYOUT	CATADIOPTRIC
F/N	5.2	FOCUS	MOTORIZED FOR WD
IMAGE FORMAT	28.2 MM	N. OF ELEMENTS	5
F.O.V.	±2.05°	WAVELENGTH RANGE	450 ÷ 700NM
BACK FOCAL LENGTH	26.1	AR COATING	R<0.3%@450-700NM
RESOLUTION	MTF<15%@120LP/MM	FLANGE FOCAL LENGTH	CUSTOMIZED
DISTORTION	<1%	DIMENSIONS	150X125X95 MM
VIGNETTING	<10%	WEIGHT	1,289 KG
WORKING DISTANCE RANGE	INFINITY - 50M	QUALIFICATION LEVEL	NASA GEVS
AVERAGE TRANSMISSION	>90%	ATHERMALIZATION	-30°C / +75°C
RAD HARD	30KRAD	MOTORIZED FOCUS	YES
SUN EXCLUSION ANGLE	UPON REQUEST	OTHER MOUNT TYPE	UPON REQUEST
STRAY LIGHT	1*10 ⁻⁴	CAMERA INTERFACE	CUSTOM DESIGN
		CUSTOMIZATION	UPON REQUEST

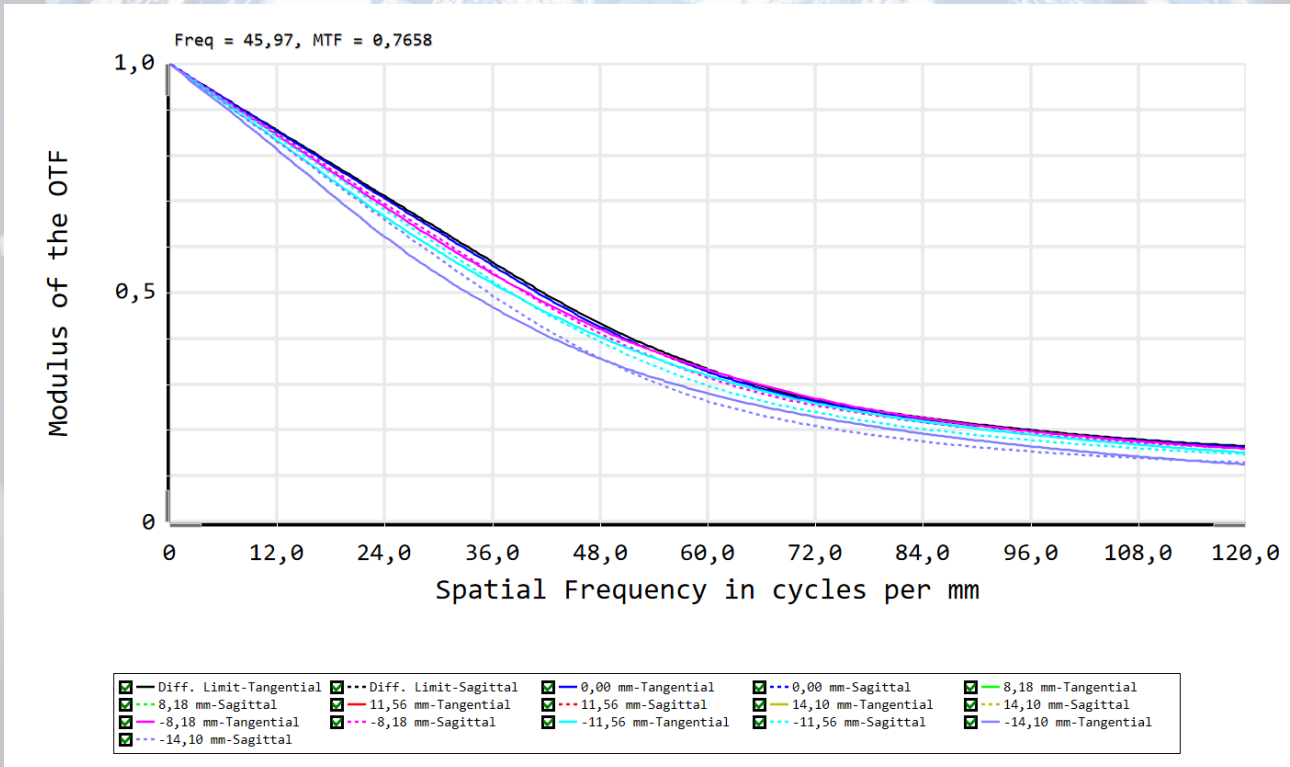
$$\text{Ground resolution} = \frac{WD \cdot \text{pixel_size}}{\text{Focal length}}$$

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

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

Lens has no title.
06/08/2019
Data for 0,4500 to 0,7500 μm .
Surface: Image

Legend items refer to Field positions

Optec S.p.A.
Optical & Optoelectronic Systems

C1619.001.002.zmx
Configuration 1 of 6

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

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