

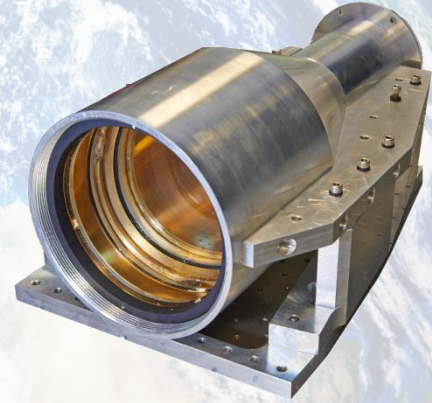
# LENS OB-SPACE – F360/2.3

## 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!!!

OPTICAL AND MECHANICAL PARAMETERS			
FOCAL LENGTH@587NM	360 MM ± 2%	OPTICAL LAYOUT	DIOPTRIC
F/N	2.3	FOCUS	MOTORIZED FOR THERMAL ADJUSTMENT
IMAGE FORMAT	12 MM DIAGONAL	N. OF ELEMENTS	11 WITH 1 DOUBLET
F.O.V.	± 0.95 DEGREES	WAVELENGTH RANGE	400 ÷ 1000NM
BACK FOCAL LENGTH	102MM (PRISM IN BK7) + 55.57MM	AR COATING	R ≤ 0.7% @400-1000NM
RESOLUTION	MTF>40%@300LP/MM	FLANGE FOCAL LENGTH	CUSTOMIZED
DISTORTION	<0.05%	DIMENSIONS	625x280x227 MM
VIGNETTING	≤10%	WEIGHT	29,96 KG
WORKING DISTANCE RANGE	INFINITY - 20KM W/O REFOCUS INFINITY - 200M WITH REFOCUS	QUALIFICATION LEVEL	NASA GEVS
AVERAGE TRANSMISSION	<72% (INCLUDING PRISM)	ATHERMALIZATION	0°C/+40°C
RAD HARD	UPON REQUEST	MOTORIZED FOCUS	YES
SUN EXCLUSION ANGLE	UPON REQUEST	OTHER MOUNT TYPE	UPON REQUEST
STRAY LIGHT	UPON REQUEST	CAMERA INTERFACE	CUSTOM DESIGN
		CUSTOMIZATION	UPON REQUEST

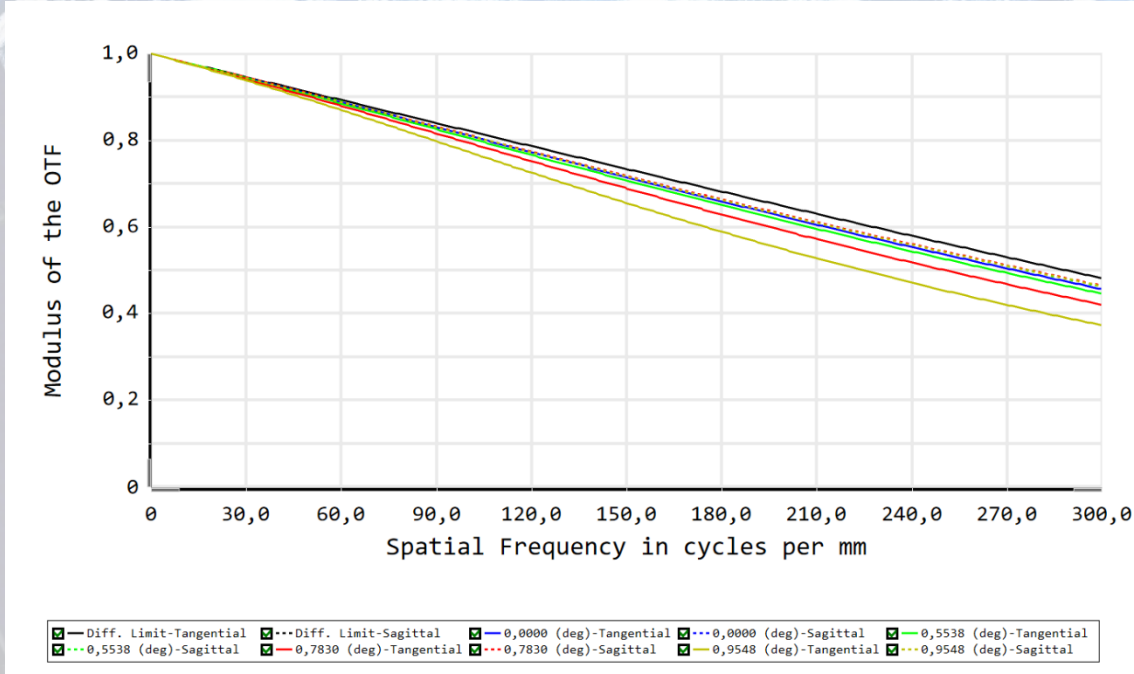
$$\text{Ground resolution} = \frac{WD \cdot \text{pixel\_size}}{\text{Focal length}}$$

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

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	
06/08/2019 Data for 0,4300 to 0,8500 $\mu\text{m}$ . Surface: Image	Optec S.p.A. Optical & Optoelectronic Systems
Legend items refer to Field positions	def.fn2.3.ott P2.vuoto.zmx Configuration 1 of 5

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

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