LENS OB-SPACE – F100/4

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!!!

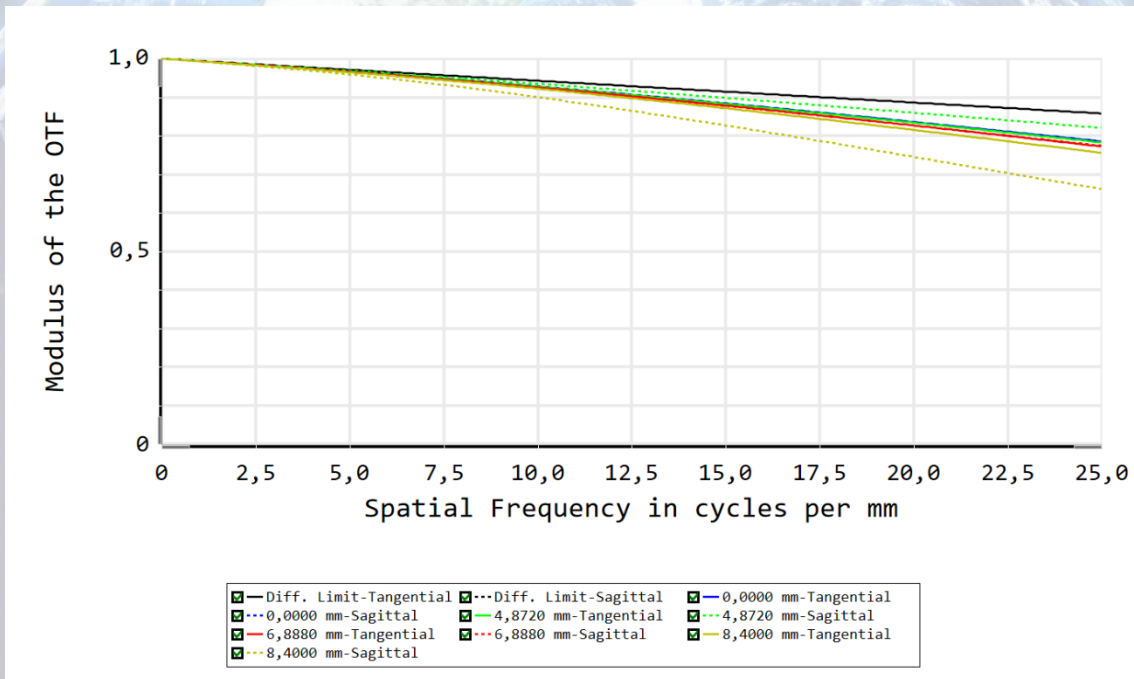| OPTICAL AND MECHANICAL PARAMETERS			
FOCAL LENGTH@1050NM	100	OPTICAL LAYOUT	DIOPTRIC
F/N	4	FOCUS	FIXED
IMAGE FORMAT	16.8MM	N. OF ELEMENTS	6
		WAVELENGTH RANGE	400-1700NM
F.O.V.	±4.8°	AR COATING	R<1.2%@400-1700NM
BACK FOCAL LENGTH	81.74	FLANGE FOCAL LENGTH	CUSTOMIZED
RESOLUTION	MTF>70%@25LP/MM	DIMENSIONS	155 X 68 X 68 MM
DISTORTION	<0.5%	WEIGHT	UPON REQUEST
VIGNETTING	<1%	QUALIFICATION LEVEL	NASA GEVS
WORKING DISTANCE RANGE	INFINITY - 170M	ATHERMALIZATION	UPON REQUEST
AVERAGE TRANSMISSION	>88%	MOTORIZED FOCUS	UPON REQUEST
RAD HARD	UPON REQUEST	OTHER MOUNT TYPE	UPON REQUEST
SUN EXCLUSION ANGLE	UPON REQUEST	CAMERA INTERFACE	CUSTOM DESIGN
STRAY LIGHT	UPON REQUEST	CUSTOMIZATION	UPON REQUEST

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

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

Where WD is the quote.

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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%).

Legend		
☑ — Diff. Limit-Tangential	☑ ··· Diff. Limit-Sagittal	☑ — 0,0000 mm-Tangential
☑ ··· 0,0000 mm-Sagittal	☑ — 4,8720 mm-Tangential	☑ ··· 4,8720 mm-Sagittal
☑ — 6,8880 mm-Tangential	☑ ··· 6,8880 mm-Sagittal	☑ — 8,4000 mm-Tangential
☑ ··· 8,4000 mm-Sagittal		

Polychromatic Diffraction MTF

06/08/2019
Data for 0,4000 to 1,7000 μm.
Surface: Image

Legend items refer to Field positions

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prova.3.b.zmx
Configuration 1 of 1

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

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