LENS OB-SPACE – F13/5.6

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@650NM	13 MM ± 2%	OPTICAL LAYOUT	DIOPTRIC
F/N	5.6	FOCUS	FIXED
IMAGE FORMAT	21.72 MM (DIAGONAL)	N. OF ELEMENTS	9 WITH 1 DOUBLET
		WAVELENGTH RANGE	FROM 500NM TO 800NM
F.O.V.	± 45°	AR COATING	R<0.7% @500-1000NM
BACK FOCAL LENGTH	14.92818	FLANGE FOCAL LENGTH	CUSTOMIZED
RESOLUTION	MTF>60%@40LP/MM	DIMENSIONS	59x52x52 MM
DISTORTION	<16%	WEIGHT	0,156 KG
VIGNETTING	<10%	QUALIFICATION LEVEL	NASA GEVS
WORKING DISTANCE RANGE	INFINITY - 600MM	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

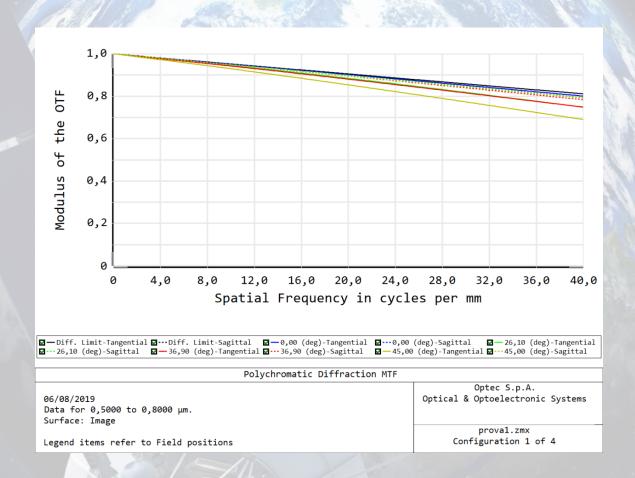$$Ground\ resolution = \frac{WD \cdot pixel\_size}{Focal\ length}$$

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

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%).

☑—Diff. Limit-Tangential ☑···Diff. Limit-Sagittal ☑—0,00 (deg)-Tangential ☑···0,00 (deg)-Sagittal ☑—26,10 (deg)-Tangential	
☑···26,10 (deg)-Sagittal ☑—36,90 (deg)-Tangential ☑···36,90 (deg)-Sagittal ☑—45,00 (deg)-Tangential ☑···45,00 (deg)-Sagittal	

Polychromatic Diffraction MTF	
06/08/2019 Data for 0,5000 to 0,8000 µm. Surface: Image	Optec S.p.A. Optical & Optoelectronic Systems
Legend items refer to Field positions	prova1.zmx Configuration 1 of 4

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

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