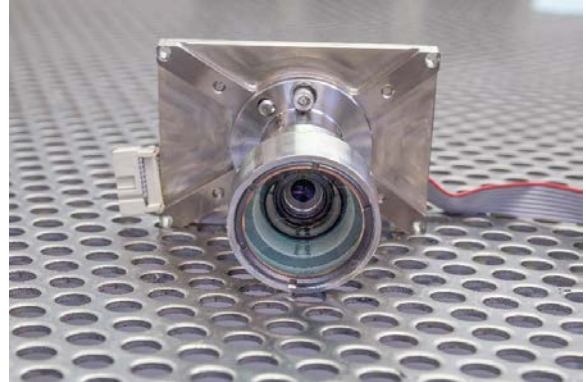


LENS OB-SPACE – F28/1.08

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@520NM	28.0 MM	OPTICAL LAYOUT	DIOPTRIC
F/N	1.08	FOCUS	FIXED
IMAGE FORMAT	16MM	N. OF ELEMENTS	8
F.O.V.	± 11.2°	WAVELENGTH RANGE	430 ÷ 750NM
BACK FOCAL LENGTH	3.25	AR COATING	R<1%@430-1000NM
RESOLUTION	MTF>45%@35LP/MM	FLANGE FOCAL LENGTH	CUSTOMIZED
DISTORTION	NEGLIGIBLE	DIMENSIONS	Ø35 x 65 MM
VIGNETTING	NEGLIGIBLE	WEIGHT	0,065 KG
WORKING DISTANCE RANGE	INFINITY - 130M	QUALIFICATION LEVEL	NASA GEVS
AVERAGE TRANSMISSION	>84%	ATHERMALIZATION	-40°C / +70°C
RAD HARD	30KRAD	MOTORIZED FOCUS	UPON REQUEST
SUN EXCLUSION ANGLE	±60° WITH BAFFLE	OTHER MOUNT TYPE	UPON REQUEST
STRAY LIGHT	1*10 ⁻¹⁵	CAMERA INTERFACE	CUSTOM DESIGN
		CUSTOMIZATION	UPON REQUEST

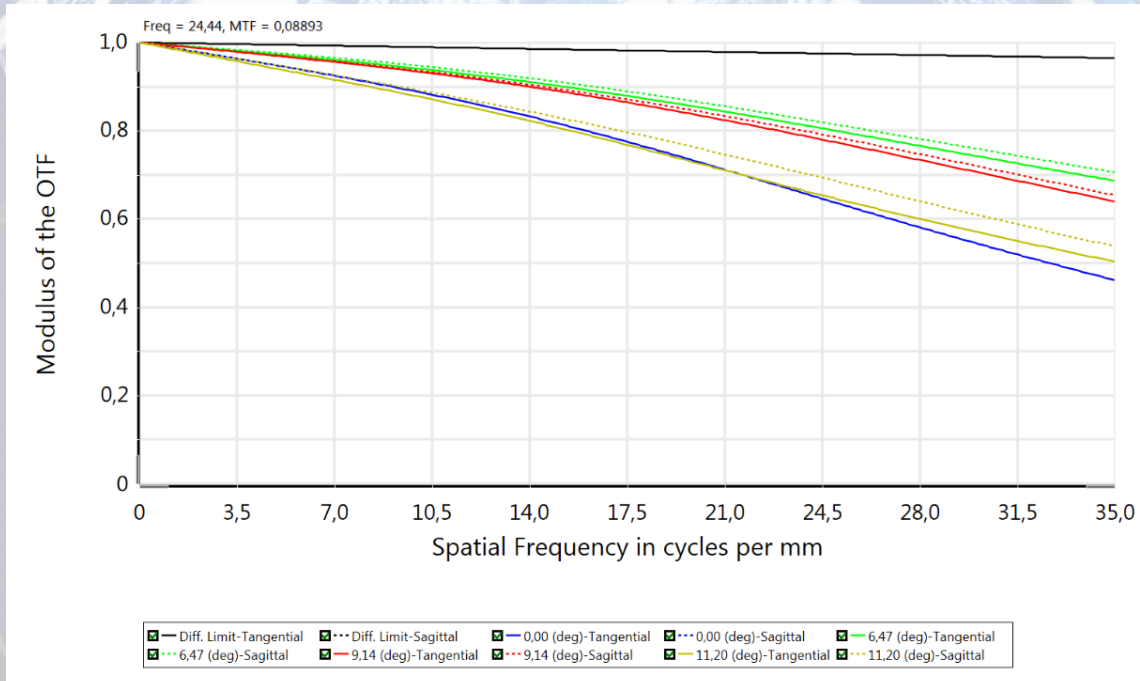
$$\text{Ground resolution} = \frac{WD \cdot \text{pixel_size}}{\text{Focal length}}$$

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

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

OB 24,8 F1 VIS
06/02/2020
Data for 0,4300 to 1,0000 μm .
Surface: Image

Legend items refer to Field positions

OPTEC S.p.A.
Optical & Optoelectronic Systems

C1732.000.000.zmx
Configuration 1 of 3

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

Specification are subject to change without notice