LENS OB-SPACE - F856.1/4.8

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.

O PTICAL AND MECHANICAL PARAMETERS			
FOCAL LENGTH@550NM	856.1MM	OPTICAL LAYOUT	CATADIOPTRIC
F/N	4.8	Focus	Fixed
Image Format	37.56мм	N. OF ELEMENTS	6
		WAVELENGTH RANGE	450-950nm
F.O.V.	±1.25°	AR COATING	R<0.3%@450-1000nm
BACK FOCAL LENGTH	20мм	FLANGE FOCAL LENGTH	CUSTOMIZED
RESOLUTION	MTF>20% @100LP/MM	DIMENSIONS	UPON REQUEST
DISTORTION	<1%	WEIGHT	UPON REQUEST
VIGNETTING	<1%	QUALIFICATION LEVEL	NASA GEVS
WORKING DISTANCE RANGE	Infinity – 20km	ATHERMALIZATION	-20°C/+60°C
AVERAGE TRANSMISSION	>90%	MOTORIZED FOCUS	UPON REQUEST
Rad Hard	30Krad	OTHER MOUNT TYPE	UPON REQUEST
SUN EXCLUSION ANGLE	UPON REQUEST	CAMERA INTERFACE	CUSTOM DESIGN
STRAY LIGHT	UPON REQUEST	CUSTOMIZATION	UPON REQUEST

LET US BE YOUR EYES IN THE SPACE!!!

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

Area framed on the ground =

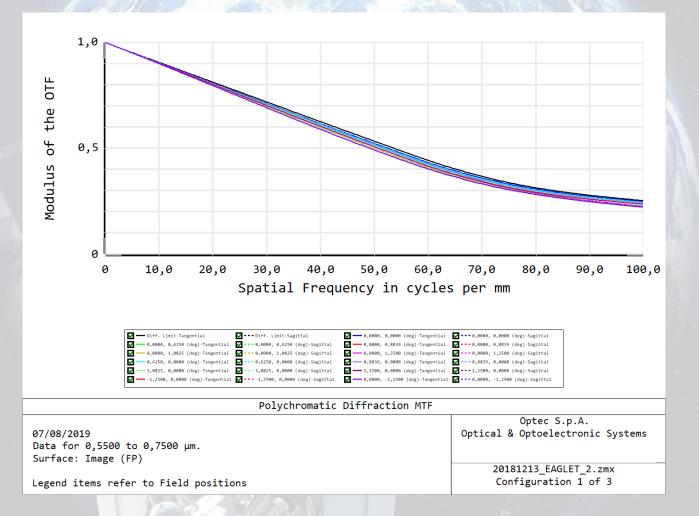
WD · sensor_linear_dimension Focal length

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%).



More details are available upon request and technical drawings are open for the customers and their needs.



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