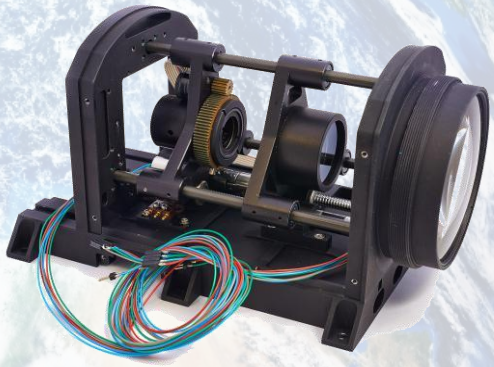
LENS OB-SPACE – F17-65/4

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@487NM	FROM 17 TO 65 MM (+2%)		OPTICAL LAYOUT	DIOPTRIC
F/N	4		FOCUS	MOTORIZED
IMAGE FORMAT	1'' (16MM DIAGONAL)		N. OF ELEMENTS	12 WITH 1 DOUBLET
			WAVELENGTH RANGE	FROM 430NM TO 680NM
F.O.V.	FROM ±25° @17MM TO ±7° @65MM		AR COATING	R<0.5%@430-670NM
BACK FOCAL LENGTH	26.87MM		FLANGE FOCAL LENGTH	CUSTOMIZED
RESOLUTION	MTF>70%@30LP/MM @65MM MTF>50%@30LP/MM @17MM		DIMENSIONS	222X129X128 MM
DISTORTION	<6%		WEIGHT	2,305 KG
VIGNETTING	<10%		QUALIFICATION LEVEL	NASA GEVS
WORKING DISTANCE RANGE	FROM 5M @17MM TO 65M @65MM		ATHERMALIZATION	UPON REQUEST
AVERAGETRANSMISSION	>90%		MOTORIZED FOCUS	YES
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

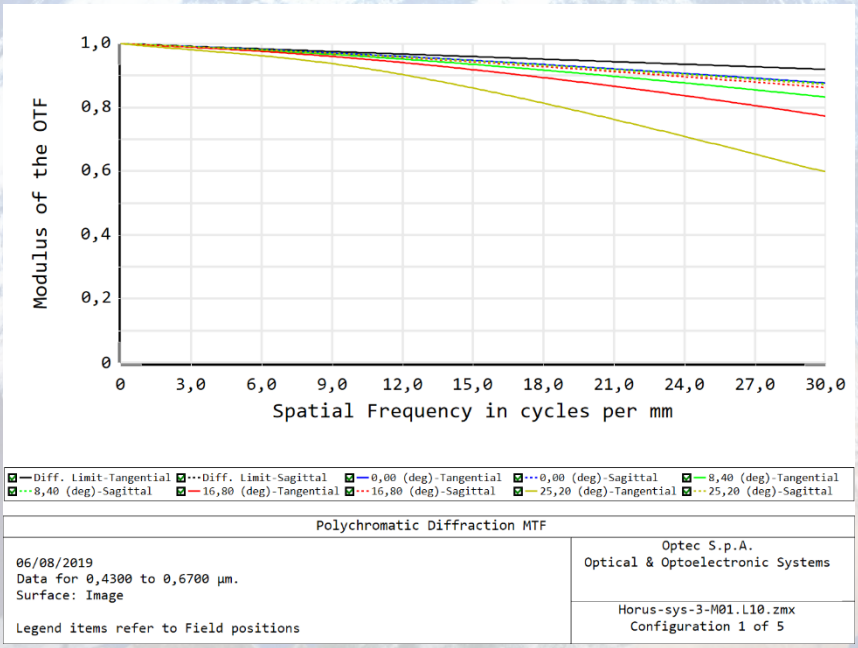
$$Ground\ resolution = \frac{WD \cdot pixel\_size}{Focal\ length}$$

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

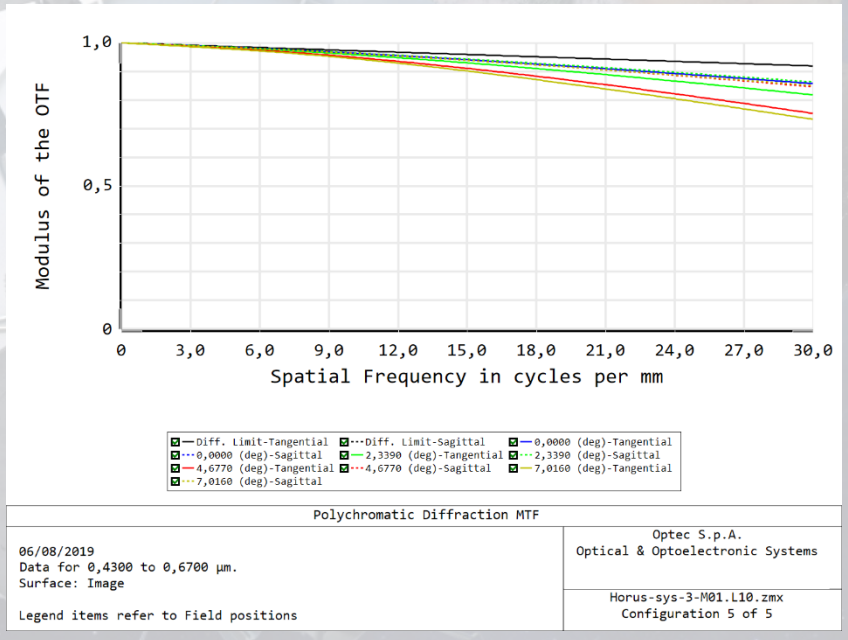
Where WD is the quote.

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%).

PERFORMANCE @ FOCAL LENGTH = 65MM



PERFORMANCE @ FOCAL LENGTH = 17MM



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