

LENS OB-SPACE – F150/2.8

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.



LET US BE YOUR EYES IN THE SPACE!!!

| OPTICAL AND MECHANICAL PARAMETERS | | | |
|-----------------------------------|--|---------------------|----------------------|
| FOCAL LENGTH@670 | 150 MM ± 2% | OPTICAL LAYOUT | DIOPTRIC |
| F/N | 2.8 | FOCUS | FIXED |
| IMAGE FORMAT | 23.4 MM | N. OF ELEMENTS | 9 WITH 3 DOUBLETS |
| F.O.V. | ± 4.46 DEGREES | WAVELENGTH RANGE | 400 ÷ 950NM |
| BACK FOCAL LENGTH | 123MM (PRISM) + 40.62MM | AR COATING | R ≤ 0.7% @400-1000NM |
| RESOLUTION | MTF>55%@70LP/MM | FLANGE FOCAL LENGTH | CUSTOMIZED |
| DISTORTION | <0.2% | DIMENSIONS | 346x192x285 MM |
| VIGNETTING | ≤2.5% | WEIGHT | 4.65 KG |
| WORKING DISTANCE RANGE | INFINITY - 1.5KM W/O REFOCUS INFINITY - 7.5M WITH REFOCUS | QUALIFICATION LEVEL | NASA GEVS |
| AVERAGE TRANSMISSION | >87% (INCLUDING PRISM) | ATHERMALIZATION | UPON REQUEST |
| RAD HARD | UPON REQUEST | MOTORIZED FOCUS | UPON REQUEST |
| SUN EXCLUSION ANGLE | UPON REQUEST | OTHER MOUNT TYPE | UPON REQUEST |
| STRAY LIGHT | UPON REQUEST | CAMERA INTERFACE | CUSTOM DESIGN |
| | | CUSTOMIZATION | UPON REQUEST |

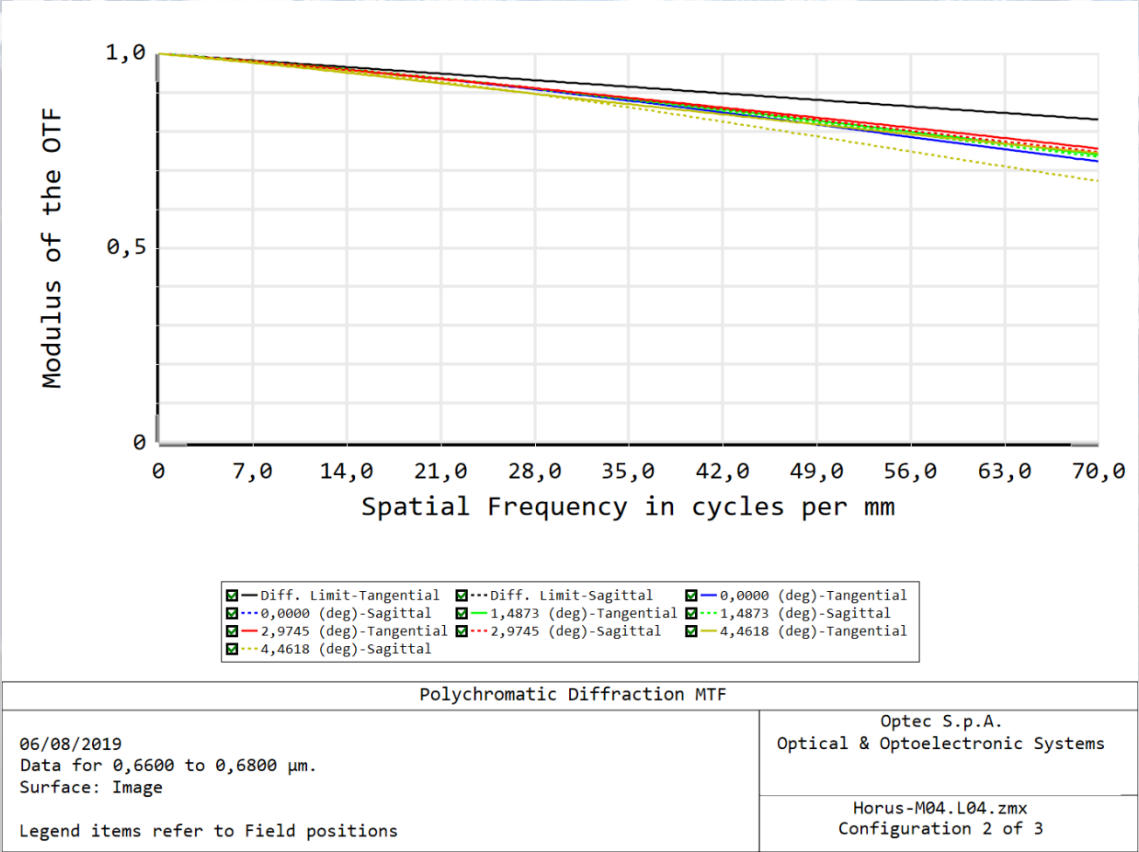
$$\text{Ground resolution} = \frac{WD \cdot \text{pixel_size}}{\text{Focal length}}$$

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

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%).



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

Specification are subject to change without notice