

TECHSPEC[®] Finite Conjugate, DUV Coated, 15X/0.28NA HP ReflX



High Performance ReflX™ Objectives

Stock #59-885 2 In Stock

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1

+

€2.560⁰⁰

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Volume Pricing	
Qty 1+	€2.560,00 each
Qty 2+	€2.260,00 each
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Product Downloads

General

Microscope Objective

Type:

Finite Conjugate

Style:

Edmund Optics®

Manufacturer:

Note:
Entrance Pupil Position specification is measured in

mm from flange	
Physical & Mechanical Properties	
150	Field of View (mm):
8.8	Diameter of Small Mirror (mm):
8.5	Aperture Diameter (mm):
150	Flange Distance (mm):
Optical Properties	
40.0	Entrance Pupil Position (mm):
0.43mm	Horizontal Field of View, 1/2" Sensor:
0.59mm	Horizontal Field of View, 2/3" Sensor:
12.97	Focal Length FL (mm):
DUV Enhanced Aluminum (150-11000nm)	Coating:
15X	Magnification:
0.28	Numerical Aperture NA:
27.00	Obscuration (%):
$\lambda/14$	Transmitted Wavefront, RMS:
23.75	Working Distance (mm):
R _{avg} >83% @ 150 - 1000nm (typical) R _{avg} >94% @ 1000 - 11000nm (typical)	Coating Specification:
150 - 11000	Wavelength Range (nm):
Threading & Mounting	
RMS	Mount:
Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- Diffraction Limited Performance: Transmitted Wavefront of $\lambda/14$ RMS
 - Streamlined Tapered Design for Added Clearance at 45° AOI
 - Curved Spider Legs to Reduce Diffraction Effects
 - **TECHSPEC® ReflX™ Objectives** Available
- Our TECHSPEC® High Performance ReflX™ is built on the same design as our **standard ReflX™** with the added benefits of a $\lambda/4$ peak-to-valley (P-V) transmitted wavefront and a tapered mechanical design, which permits use at angles of incidence (AOI) up to 45°. Manufacturing reflective objectives that achieve $\lambda/4$ P-V transmitted wavefront requires mirror surfaces to be highly accurate. Our precision manufacturing facilities employ a QED Q22-MRF system and QED SSI Sub-Aperture Stitching Interferometer to polish and test our mirrors to surface accuracies of better than $\lambda/20$ P-V.
- The objectives feature an infinite conjugate design for a 200mm secondary tube lens. For broadband imaging applications, the Mitutoyo MT-L Tube lens, **#56-073**, is recommended. The infinite design allows for the introduction of filters and beamsplitters, making these objectives ideal for biotech and fluorescence applications as well. For focusing applications, the beam should fill the stated entrance pupil diameter of the objective. In either case, it should be noted that the light is obscured, creating an irradiance profile with less energy in the central portion of the beam.
- Many applications that use reflective objectives require them aligned at angles of incidence up to 45°. To accommodate these steep angles, the HP ReflX™ has a tapered design that provides >6mm clearance from the object plane. To eliminate the diffraction effects in the image plane caused by straight-legged spider mounts, the HP ReflX® uses a curved leg design. All internal surfaces have been specially treated to eliminate stray light. Each objective is manufactured in the U.S.A, and assembled, tested, and certified on our Zygo GPI-XP interferometer. A certificate of compliance is included with each objective.
- For customized versions, including laser coatings and different back tube lengths, please contact our **Applications Engineering Department**.

Technical Information

DUV ENHANCED ALUMINUM PERFORMANCE CURVE
FOR REFERENCE ONLY

