

TECHSPEC® ReflX™ OBJECTIVES

#39-143 • 18.88mm WD

20X/0.33NA PROTECTED GOLD

- Industry Leading 24 to 31mm Working Distance
- EO Designed and Manufactured for Focusing or Imaging Applications
- Actively Aligned for Optimal Performance
- Ultra-Wide Spectral Band from 190nm to 11µm with No Chromatic Aberration



Reflective objectives are commonly used in applications requiring superior image quality or focusing performance over a broad spectral range. The Schwarzschild-style objective exhibits near-diffraction limited performance over the full reflecting range of the chosen coating. By eliminating the problems of chromatic aberration and material absorption associated with standard microscope objectives, these components are ideal for applications requiring high throughput and excellent resolution in the UV or IR, including FTIR spectroscopy, ellipsometry, photolithography, and semiconductor inspection.

The ReflX™ objective design features a number of advantages over common Schwarzschild objectives. The rugged design allows these objectives to be integrated into equipment with moderate heat and vibration without sacrificing performance. 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.

Style:	Infinity Corrected
Magnification:	20X
Numerical Aperture:	0.33
Working Distance:	18.88mm
Focal Length:	10.06mm
FOV, 2/3" Sensor:	0.44 x 0.33mm
FOV, 1/2" Sensor:	0.32 x 0.24mm
Transmitted Wavefront, RMS:	$\lambda/10$
Obscuration (%):	30.19
Entrance Pupil Diameter:	7mm
Aperture Diameter:	7.9mm
Small Mirror Diameter:	8.4mm
Reflection (%):	96
Coating:	Protected Gold
Coating Specification:	$R_{avg} > 96\%$ @ 700 - 11000nm
Mounting Threads:	RMS
Type:	Microscope Objective
Wavelength Range (µm):	0.7 - 11
Wavelength Range (nm):	700 - 11000
Manufacturer:	EO

