

Color Corrected F-Theta Lens, 163mm, 1030nm



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1

+

€5.350⁰⁰

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Product Downloads

General	
Col	Type:
14mm (max input aperture diameter)	Note:

Edmund Optics®	Manufacturer:
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Physical & Mechanical Properties	
118.0 +0/-0.2	Maximum Diameter (mm):

1970	Weight (g):
±7.1	X/Y Mirror Angle (°):
260 @ 1030nm	Flange Distance (mm):
14	Input Beam Diameter, 1/e ² (mm):
89	Maximum Length (mm):

Optical Properties	
163.00	Focal Length FL (mm):
Optical Glass	Substrate: ☐
20	Scan Angle (°):
80x80	Scan Field (mm):
F-Theta Only: 6.7	Telecentricity (°):
>95	Transmission (%):
185.00 @ 1030nm (with cover glass)	Working Distance (mm):
1000 - 1060	Wavelength Range (nm):
113	Scan Field Diameter (mm):
22	Focus Size Diameter, 1/e ² (µm):

Threading & Mounting	
M79x1.0	Mounting Threads:

Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- Ideal for Broad Spectral Laser Scanning Applications
- Diffraction Limited Across the Scan Field with Low Wavefront Error
- Long Working Distance and Large Scan Area

Color Corrected F-Theta Lenses are designed for use with material processing lasers that typically have relatively large chromatic bandwidths. Similar to an achromatic lens, these F-theta lenses ensure that each wavelength across a given broadband range is focused on the same focal plane and maintains the same scanning geometry, as opposed to a standard monochromatic F-theta lens. When used with [galvanometers](#), [beam expanders](#), and [laser sources](#), these lenses provide flat fields at the image plane of scanning systems. Color Corrected F-Theta Lenses are ideal for a range of material processing and medical applications such as laser cutting, welding, drilling, confocal microscopy, and ophthalmology.