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



Stock #26-809 **3 In Stock**

S\$7,490⁰⁰

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General

Col **Type:**

14mm (max input aperture diameter) **Note:**

Edmund Optics® **Manufacturer:**

Physical & Mechanical Properties

118.0 +0/-0.2 **Maximum Diameter (mm):**

Weight (g):

1970

XY Mirror Angle (°):
±7.1

Flange Distance (mm):
260 @ 1030nm

Input Beam Diameter, 1/e² (mm):
14

Maximum Length (mm):
89

Optical Properties

Focal Length FL (mm):
163.00

Substrate: □
Optical Glass

Scan Angle (°):
20

Scan Field (mm):
80x80

Telecentricity (°):
F-Theta Only: 6.7

Transmission (%):
>95

Working Distance (mm):
185.00 @ 1030nm (with cover glass)

Wavelength Range (nm):
1000 - 1060

Scan Field Diameter (mm):
113

Focus Size Diameter, 1/e² (μm):
22

Threading & Mounting

Mounting Threads:
M79x1.0

Regulatory Compliance

Certificate of Conformance:
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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.