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

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

- 1 + **S$7,490**.00

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General

Type:
Col

Note:
14mm (max input aperture diameter)

Manufacturer:
Edmund Optics®

Physical & Mechanical Properties

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

Weight (g):

1970

X/Y 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:
View

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.

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