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

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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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