

165mm FL, 1064nm Edmund Optics® F-Theta Lens



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1
+
£540^{.00}

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General

F-Theta Lens Type:

Physical & Mechanical Properties

109 Maximum Diameter (mm):

219.1 Flange Distance (mm):

12 Input Beam Diameter, 1/e² (mm):

54.0 **Maximum Length (mm):**

Optical Properties

165.10 **Focal Length FL (mm):**

±28.50 **Scan Angle (°):**

116.2 x 116.2 **Scan Field (mm):**

Not Specified **Telecentricity (°):**

≥95 **Transmission (%):**

188.1 **Working Distance (mm):**

1064 **Design Wavelength DWL (nm):**

1064 **Wavelength Range (nm):**

26 **Focus Size Diameter, 1/e² (µm):**

Threading & Mounting

M85 x 1.0 **Mounting Threads:**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- Ideal for Laser Scanning Applications
- Diffraction Limited Across the Scan Field with Low Wavefront Error
- Long Working Distances and Large Scan Areas
- [Galvanometers](#), [Beam Expanders](#), and [Laser Sources](#) Also Available

Edmund Optics® F-Theta Lenses are designed to provide flat fields at the image plane of scanning systems and are used in conjunction with [galvanometers](#), [beam expanders](#), and [laser sources](#). These F-Theta Lenses feature compact form factors, offer a wide range of focal lengths up to 273mm, and large scan fields up to 164mm (X) x 164mm (Y). Optimized for common fiber laser sources and Nd:YAG fundamental or second harmonic, these lenses are available in design wavelengths of 532nm and 1064nm with common mounting threads for easy integration into galvo systems. Edmund Optics® F-Theta Lenses are a cost-effective solution for laser scanning and laser processing applications including laser marking, engraving, cutting, drilling, and 3D modeling.