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Sill Optics 163mm FL, 102 x 102mm Scan Area, 532 + 1064nm F-Theta Scanning Lens, S4LFT1163-081

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General

Model Number:
S4LFT1163-081

Type:
F-Theta Lens

Physical & Mechanical Properties

Maximum Diameter (mm):
106.00

Flange Distance (mm):
214.5 (@1064) 215.4 (@532)

Input Beam Diameter, 1/e^2 (mm):
12.00

Maximum Length (mm):
82.50

Weight (kg):
1.30

Optical Properties

Focal Length FL (mm):
163.00

Scan Angle (°):
±25.30

Scan Field (mm):
102.0 x 102.0

Telecentricity (°):
12.7

Transmission (%):
>96

Working Distance (mm):
159.90

Design Wavelength DWL (nm):
532

Wavelength Range (nm):
532, 1064

Coating Specification:
532nm R < 0.25% + 1064nm R < 0.20%

Focus Size Diameter, 1/e^2 (µm):
20.08 (@1064) 13.25 (@532)

Damage Threshold, Pulsed:
2.5 J/cm^2 per 1ns pulse at 50Hz

Damage Threshold, CW:
2.5 MW/cm^2

Threading & Mounting

Mounting Threads:
M85 x 1.0

Regulatory Compliance

Certificate of Conformance:
View

Product Details

- Multispectral Design Wavelength of 532nm and 1064nm
- Large Scan Field of 102mm x 102mm and a Focal Length of 163mm
- High Damage Thresholds and Low Telecentricity Errors
- **Galvanometers**, **Beam Expanders**, and **Laser Sources** Also Available

Sill Optics Multispectral F-Theta Lenses are high quality lenses that are ideal agricultural inspection, confocal microscopy, and environmental research applications. This F-Theta Lens offers a focal length of 163mm, and a large scan field of 102mm (X) x 102mm (Y). Corrected for Nd:YAG fundamental wavelength of 1064nm and the second harmonic wavelength for 532nm, this lens features a common mounting thread for easy integration into galvo systems. Sill Optics Multispectral F-Theta Lenses feature a high damage threshold of 2.5 J/cm² (1ns, 50Hz) for pulsed lasers and 2.5 MW/cm² for continuous wave (CW) lasers.

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