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160mm, 900-1100nm JENar™ Silverline™ F-Theta Scanning Lens

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General

Model Number:
601787

Type:
JENar Silverline F-Theta

Protective Window:
#17-694: One Included

Manufacturer:
Jenoptik

Physical & Mechanical Properties

Maximum Diameter (mm):
119.8 +0/-0.2

Weight (g):
1080

X/Y Mirror Angle (°):
±7.1

Flange Distance (mm):
266.00 @ 900nm
267.90 @ 1100nm

Input Beam Diameter, 1/e² (mm):
14

Maximum Length (mm):
100

Optical Properties

Focal Length FL (mm):
160.00

Substrate:
Fused Silica (Corning 7980)

Scan Angle (°):
±20

Scan Field (mm):
78 x 78

Telecentricity (°):
F-Theta Only: 5.20
With Scanner: 5.40

Working Distance (mm):
182.00 @ 900nm
183.90 @ 1100nm

Wavelength Range (nm):
900 - 1100

Scan Field Diameter (mm):
110

Focus Size Diameter, 1/e² (µm):
19.0 @ 900nm
23.0 @ 1100nm

GDD Specification (fs²):
759

Threading & Mounting

Mounting Threads:
M85 x 1

Regulatory Compliance

Certificate of Conformance:
View

Product Details

- Low-Absorption Fused Silica Substrates for High-Power Laser Applications
- Large Scan Fields Up to 328mm x 328mm
- High Damage Thresholds and Low Telecentricity Errors
- **Jenoptik JENar™ F-Theta Scanning Lenses** Also Available

Jenoptik JENar™ Silverline™ F-Theta Scanning Lenses provide flat field at the image plane and feature low-absorption fused silica substrates, making them suitable for high-power laser applications. These F-Theta lenses offer high damage thresholds to handle beam powers of up to four kilowatts without active cooling and are available in various wavelengths ranging from 266nm to 1100nm. With large processing areas up to 328mm x 328mm, low telecentricity errors, and diffraction-limited image quality, these lenses allow for high spot consistency and increased throughput over the entire scanning range. With their patented stackable mounting technology, these lenses compensate for thermal stresses and improve the stability of the optical components, ensuring high-precision adjustment and position control in OEM systems. Jenoptik JENar™ Silverline™ F-Theta Scanning Lenses were specially developed for applications requiring high-power and short-pulse Nd:YAG, Yb:doped, and fiber laser sources and are used in conjunction with **galvanometers** and **beam expanders**.

Contact us if your application requires **Jenoptik JENar™ F-Theta Scanning Lenses** or Jenoptik JENar™ Silverline™ F-Theta Scanning Lenses not shown on our website.

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