103mm, 355nm JENar™ Silverline™ F-Theta Scanning Lens

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SPECIFICATIONS

General

Model Number:
017700-402-26

Type:
JENar Silverline F-Theta

Note:
Damage Warning: Not recommended for picosecond and femtosecond laser pulses.

Protective Window:
#17-690: One Included

Manufacturer:
Jenoptik

Physical & Mechanical Properties

Maximum Diameter (mm):
99.8 +0/-0.1

Weight (g):
700

X/Y Mirror Angle (°):
±7.2

Flange Distance (mm):
176.95

Input Beam Diameter, $1/e^2$ (mm):
9

Maximum Length (mm):
66.5

Optical Properties

Focal Length FL (mm):
103.00

Substrate:
Fused Silica (Corning 7980)

Scan Angle (°):
±20.1

Scan Field (mm):
50 x 50

Telecentricity (°):
F-Theta Only: 2.40
With Scanner: 2.80

Working Distance (mm):
134.85

Wavelength Range (nm):
355

Damage Threshold, By Design:
1.0 J/cm^2 * (τ/[ns])$^{0.40}$
1.0 MW/cm^2

Scan Field Diameter (mm):
71

Focus Size Diameter, $1/e^2$ (µm):
8

GDD Specification (fs^2):
5670

Damage Threshold, Pulsed:
1.0 J/cm^2 * (τ/[ns])$^{0.40}$

Damage Threshold, CW:
1.0 MW/cm^2

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.