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170mm, 355nm JENar™ Silverline™ F-Theta Scanning Lens

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1

+

€6.150⁰⁰

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General	
586840	Model Number:
JENar Silverline F-Theta	Type:
Note: Damage Warning: Not recommended for picosecond and femtosecond laser pulses.	
#17-698 : One Included	Protective Window:

Jenoptik	Manufacturer:
Physical & Mechanical Properties	
146 +0/-0.2	Maximum Diameter (mm):
1850	Weight (g):
±8.9	X/Y Mirror Angle (°):
315.8	Flange Distance (mm):
10	Input Beam Diameter, 1/e ² (mm):
106.6	Maximum Length (mm):
Optical Properties	
170.00	Focal Length FL (mm):
Fused Silica (Corning 7980)	Substrate: ☐
±25	Scan Angle (°):
100 x 100	Scan Field (mm):
F-Theta Only: 4.80 With Scanner: 4.80	Telecentricity (°):
235.8	Working Distance (mm):
355	Wavelength Range (nm):
1.0 J/cm ² * (τ/[ns]) ^{0.40} 1.0 MW/cm ²	Damage Threshold, By Design: ☐
140	Scan Field Diameter (mm):
11	Focus Size Diameter, 1/e ² (μm):
8490	GDD Specification (fs ²):
1.0 J/cm ² * (τ/[ns]) ^{0.40}	Damage Threshold, Pulsed:
1.0 MW/cm ²	Damage Threshold, CW:
Threading & Mounting	
M85 x 1	Mounting Threads:
Regulatory Compliance	
View	Certificate of Conformance:

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.