

255mm, 900-1100nm JENar™ Silverline™ F-Theta Scanning Lens

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£6,890¹⁹

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SPECIFICATIONS

General

601804

Model Number:

JENar Silverline F-Theta

Type:

Protective Window:	
#17-694:	One Included
Manufacturer:	
Jenoptik	
Physical & Mechanical Properties	
Maximum Diameter (mm):	
119.8 +0/-0.2	
Weight (g):	
1200	
X/Y Mirror Angle (°):	
±6.4	
Flange Distance (mm):	
386.10 @ 900nm 388.80 @ 1100nm	
Input Beam Diameter, 1/e ² (mm):	
20	
Maximum Length (mm):	
97.3	
Optical Properties	
Focal Length FL (mm):	
255.00	
Substrate:	
Fused Silica (Corning 7980)	
Scan Angle (°):	
±18	
Scan Field (mm):	
114 x 114	
Telecentricity (°):	
F-Theta Only: 7.20 With Scanner: 7.40	
Working Distance (mm):	
301.50 @ 900nm 304.20 @ 1100nm	
Wavelength Range (nm):	
900 - 1100	
Scan Field Diameter (mm):	
160	
Focus Size Diameter, 1/e ² (μm):	
21.0 @ 900nm 26.0 @ 1100nm	
GDD Specification (fs ²):	
904	
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.