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

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Stock **#17-021** 1 In Stock

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1

+

C\$13,216⁰⁰

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General	
601787	Model Number:
JENar Silverline F-Theta	Type:
#17-694: One Included	Protective Window:
Jenoptik	Manufacturer:
Physical & Mechanical Properties	

119.8 +0/-0.2	Maximum Diameter (mm):
1080	Weight (g):
±7.1	X/Y Mirror Angle (°):
266.00 @ 900nm 267.90 @ 1100nm	Flange Distance (mm):

14	Input Beam Diameter, 1/e ² (mm):
100	Maximum Length (mm):

Optical Properties

160.00	Focal Length FL (mm):
Fused Silica (Corning 7980)	Substrate: ☐

±20	Scan Angle (°):
78 x 78	Scan Field (mm):

F-Theta Only: 5.20 With Scanner: 5.40	Telecentricity (°):
182.00 @ 900nm 183.90 @ 1100nm	Working Distance (mm):

900 - 1100	Wavelength Range (nm):
110	Scan Field Diameter (mm):

19.0 @ 900nm 23.0 @ 1100nm	Focus Size Diameter, 1/e ² (µm):
759	GDD Specification (fs ²):

Threading & Mounting

M85 x 1	Mounting Threads:
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Regulatory Compliance

View	Certificate of Conformance:
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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.