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255mm, 515-540nm JENar™ F-Theta Scanning Lens

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⊖ 1 ⊕ **SS\$2,961⁰⁰**

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General

017700-205-26 **Model Number:**

JENar F-Theta **Type:**

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

Protective Window:
[#17-685](#): One Included

Manufacturer:

Physical & Mechanical Properties

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

1213 **Weight (g):**

347 **Flange Distance (mm):**

20 **Input Beam Diameter, 1/e² (mm):**

73.8 **Maximum Length (mm):**

Optical Properties

255.00 **Focal Length FL (mm):**

52.1 **Scan Angle (°):**

165 x 165 **Scan Field (mm):**

F-Theta Only: 14.2 With Scanner: 14.2 **Telecentricity (°):**

294 **Working Distance (mm):**

515 - 540 **Wavelength Range (nm):**

Damage Threshold, By Design:
 $2.5 \text{ J/cm}^2 * (\tau/[\text{ns}])^{0.35}$
 2.5 MW/cm^2

233 **Scan Field Diameter (mm):**

12 **Focus Size Diameter, 1/e² (μm):**

7690 **GDD Specification (fs²):**

Damage Threshold, Pulsed:
 $2.5 \text{ J/cm}^2 * (\tau/[\text{ns}])^{0.35}$

Damage Threshold, CW:
 2.5 MW/cm^2

Threading & Mounting

M85 x 1 **Mounting Threads:**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- Ideal for High-Precision Material Processing and Laser Scanning Applications
- Large Scan Fields Up to 320mm x 320mm
- Wide Range of Focal Lengths from 108mm - 330mm
- [Jenoptik JENar™ Silverline™ F-Theta Scanning Lenses](#) Also Available

Jenoptik JENar™ F-Theta Scanning Lenses are designed to provide flat field at the image plane of scanning systems and are used in conjunction with [galvanometers](#), [beam expanders](#), and [laser sources](#). These F-Theta lenses feature a wide range of focal lengths and large scan fields. Optimized for common Nd:YAG, Yb:doped, and fiber laser sources, these lenses are available in wavelength ranges of 355nm, 515-540nm, and 1030-1080nm. 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™ F-Theta Scanning Lenses are ideal for high-precision laser material processing and laser scanning applications.

[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.