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255mm, 1030-1080nm JENar™ F-Theta Scanning Lens

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⊖ 1 ⊕ €1.155⁰⁰

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General

017700-017-26 **Model Number:**

JENar F-Theta **Type:**

#17-684: One Included **Protective Window:**

Jenoptik **Manufacturer:**

Physical & Mechanical Properties

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

1400 **Weight (g):**

336 **Flange Distance (mm):**

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

65.3 **Maximum Length (mm):**

Optical Properties

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

53.2 **Scan Angle (°):**

169 x 169 **Scan Field (mm):**

F-Theta Only: 14.3
With Scanner: 15 **Telecentricity (°):**

291 **Working Distance (mm):**

1030 - 1080 **Wavelength Range (nm):**

Damage Threshold, By Design:
5.0 J/cm² * (τ/[ns])^{0.30}
5.0 MW/cm²

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

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

3670 **GDD Specification (fs²):**

5.0 J/cm² * (τ/[ns])^{0.30} **Damage Threshold, Pulsed:**

5.0 MW/cm² **Damage Threshold, CW:**

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.