

108mm, 515-540nm JENar™ F-Theta Scanning Lens

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General

017700-203-26 **Model Number:**

JENar F-Theta **Type:**

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

#17-699: One Included **Protective Window:**

Jenoptik **Manufacturer:**

Physical & Mechanical Properties

104.8 +0/-0.1 **Maximum Diameter (mm):**

900 **Weight (g):**

170.9 **Flange Distance (mm):**

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

55.2 **Maximum Length (mm):**

Optical Properties

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

40 **Scan Angle (°):**

53 x 53 **Scan Field (mm):**

F-Theta Only: 4.8
With Scanner: 5.6 **Telecentricity (°):**

130.2 **Working Distance (mm):**

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

Damage Threshold, By Design:
2.5 J/cm² * (τ/[ns])^{0.35}
2.5 MW/cm²

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

7 **Focus Size Diameter, 1/e² (μm):**

14700 **GDD Specification (fs²):**

2.5 J/cm² * (τ/[ns])^{0.35} **Damage Threshold, Pulsed:**

2.5 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.