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

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⊖ 1 ⊕ €1.710<sup>00</sup>

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## Product Downloads

### 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:

Jenoptik

## Physical & Mechanical Properties

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

1213      **Weight (g):**

347      **Flange Distance (mm):**

20      **Input Beam Diameter, 1/e<sup>2</sup> (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):**

2.5 J/cm<sup>2</sup> \* (τ/[ns])<sup>0.35</sup>  
2.5 MW/cm<sup>2</sup>      **Damage Threshold, By Design:** □

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

12      **Focus Size Diameter, 1/e<sup>2</sup> (μm):**

7690      **GDD Specification (fs<sup>2</sup>):**

2.5 J/cm<sup>2</sup> \* (τ/[ns])<sup>0.35</sup>      **Damage Threshold, Pulsed:**

2.5 MW/cm<sup>2</sup>      **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.