



JENar[®] 255-532-233

F-Theta lens for larger beam diameters and scan fields



The precision and reliability requirements in laser material processing are becoming more and more demanding. Reap the benefits of Jenoptik's development know-how and proven technologies in the production of optical components, lenses and modules for laser material processing.

Jenoptik's newly developed F-Theta lens JENar[®] for 532 nm is designed and optimized for large beam diameters of up to 20 mm (for $1/e^2$ truncated Gaussian beam). So by the established focal length of 255 mm the lens obtains a spot size of 12 μm . The scan field size can be enlarged up to a diameter of 233 mm without vignetting. The lens is corrected to avoid focused back reflections within the lens and close to the recommended galvo mirror positions.

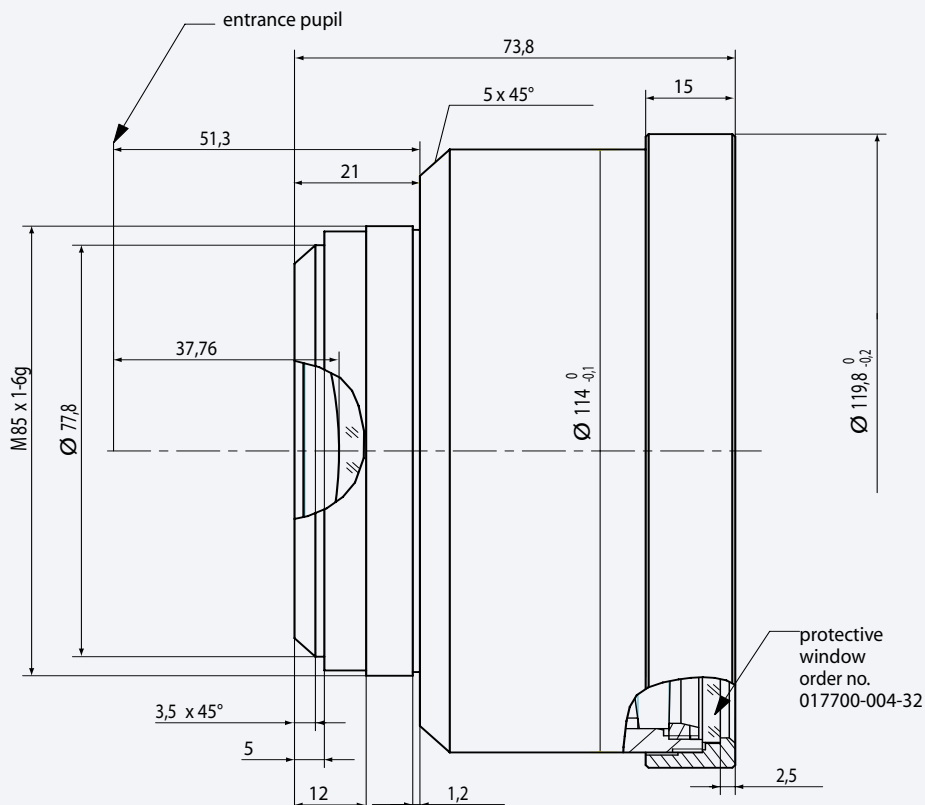
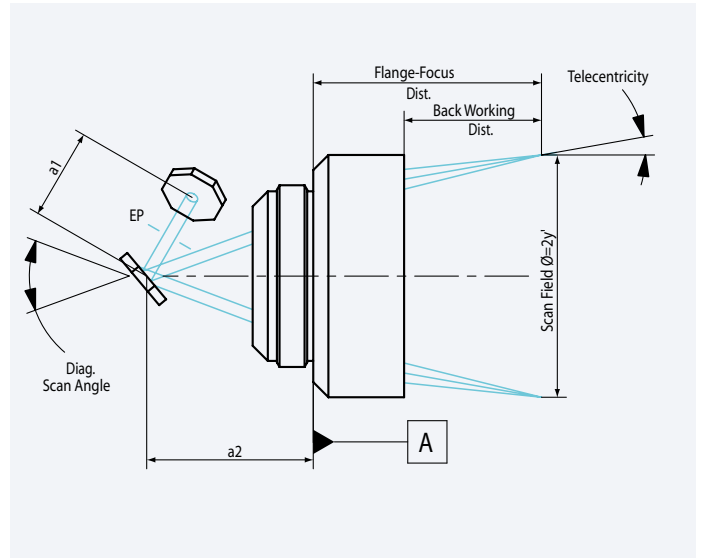
Against the background of steadily rising laser power the lenses are manufactured out of high-resistant materials to minimize lens damages.

In order to support our customers, we also provide STEP files on request. This enables a quick and comfortable mechanical integration of the F-Theta lens JENar[®] in any systems.

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Specifications

Focal length:	255 mm
Wavelength:	532 nm
Scan field Ø:	233 mm
Diagonal scan angle:	52.1°
Back working distance:	294 mm
Flange focus distance:	347 mm
Entrance pupil Ø:	30 mm
Input beam Ø 1/e ² :	20 mm
Focus size Ø 1/e ² :	12 µm
a1	25 mm
a2	39 mm
Telecentricity:	14.6°
Weight:	1.5 kg
Order number:	017700-205-26



It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.



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