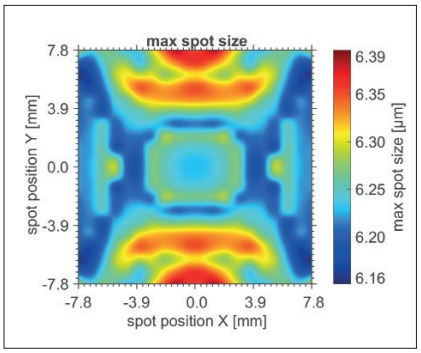
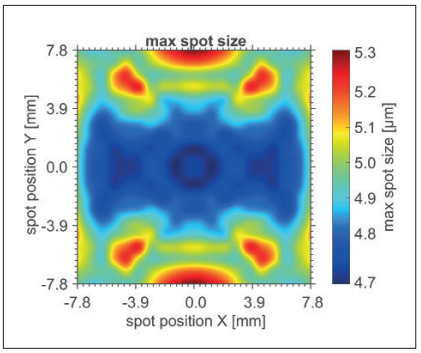
F-Theta JENar™ Silverline™ Lens
High Power Lens – JENar™ 55-355-21

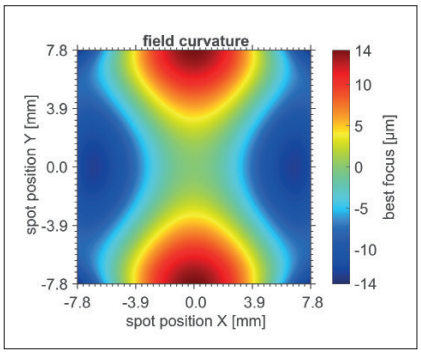
Parameters	JENar™ 55-355-21 Fused silica lens with different settings	
Focal length:	55.8 mm	55.8 mm
Wavelength:	355 nm	355 nm
Scan field (X x Y); Ø:	**(15.6 mm x 15.6 mm); 21.8 mm**	**(11.7 mm x 11.7 mm); 16.5 mm**[1)]
Diagonal scan angle:	**± 11.3°**	**± 8.5°**
X/Y mirror angle:	**± 4°**	**± 3°**
Back working distance:	60.4 mm	60.4 mm
Flange focus distance:	95.3 mm	95.3 mm
Input beam Ø 1/e²:	**6 mm**	**8 mm**
Focus size Ø 1/e²:	**6 µm**	**4.5 µm**
a1 | a2:	13 mm | 46.5 mm	13 mm | 46.5 mm
Telecentricity (only F-Theta | with scanner):	**0.83° | 1.56°**	**0.54° | 1.13°**
Group delay dispersion (GDD)*:	4021 fs²	4021 fs²
LIDT coating pulsed; CW*:	1.0 J/cm² * (τ/[ns]) ^ 0.40; 1.0 MW/cm²	1.0 J/cm² * (τ/[ns]) ^ 0.40; 1.0 MW/cm²
LIDT system pulsed; CW*:	1.0 J/cm² * (τ/[ns]) ^ 0.40; 1.0 MW/cm²	1.0 J/cm² * (τ/[ns]) ^ 0.40; 1.0 MW/cm²
Weight:	0.57 kg	0.57 kg
Order Number:	605678	

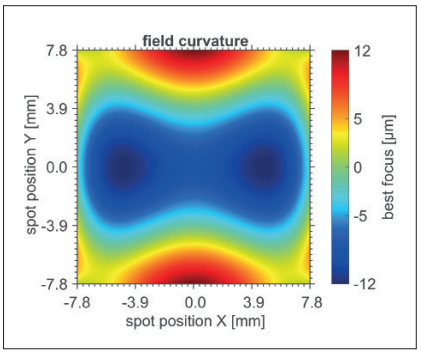
[1)] 21.8 mm scanfield possible without vignetting

Lens	Spot properties JENar™ 55-355-21 | 6 mm	JENar™ 55-355-21 | 8 mm









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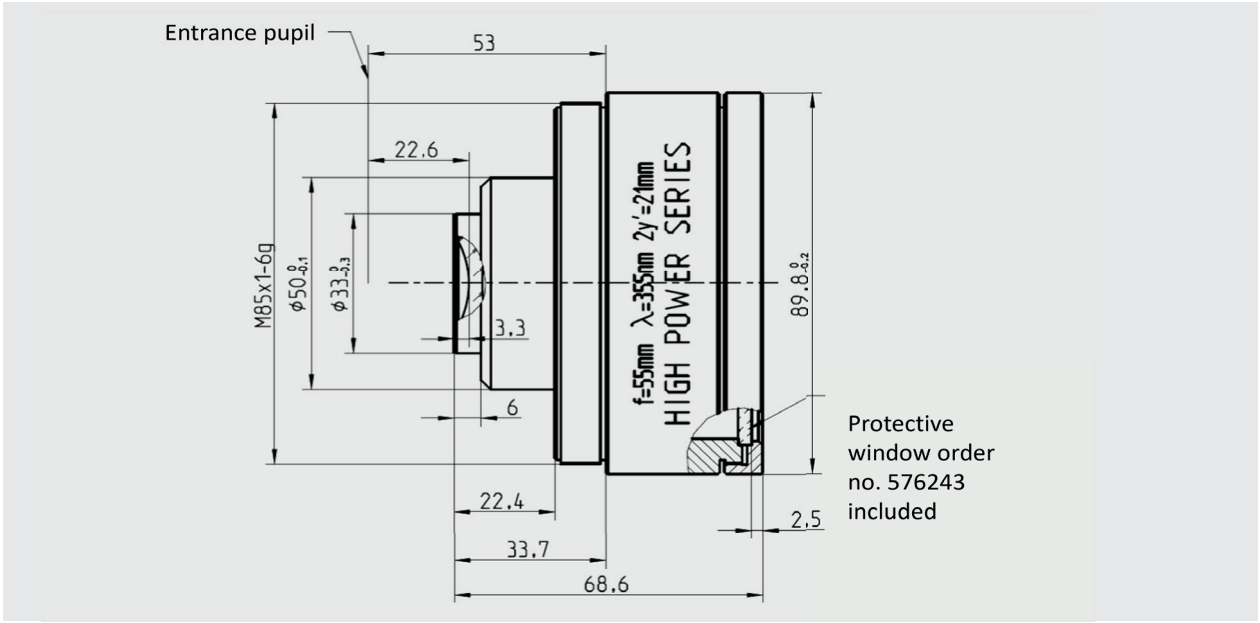
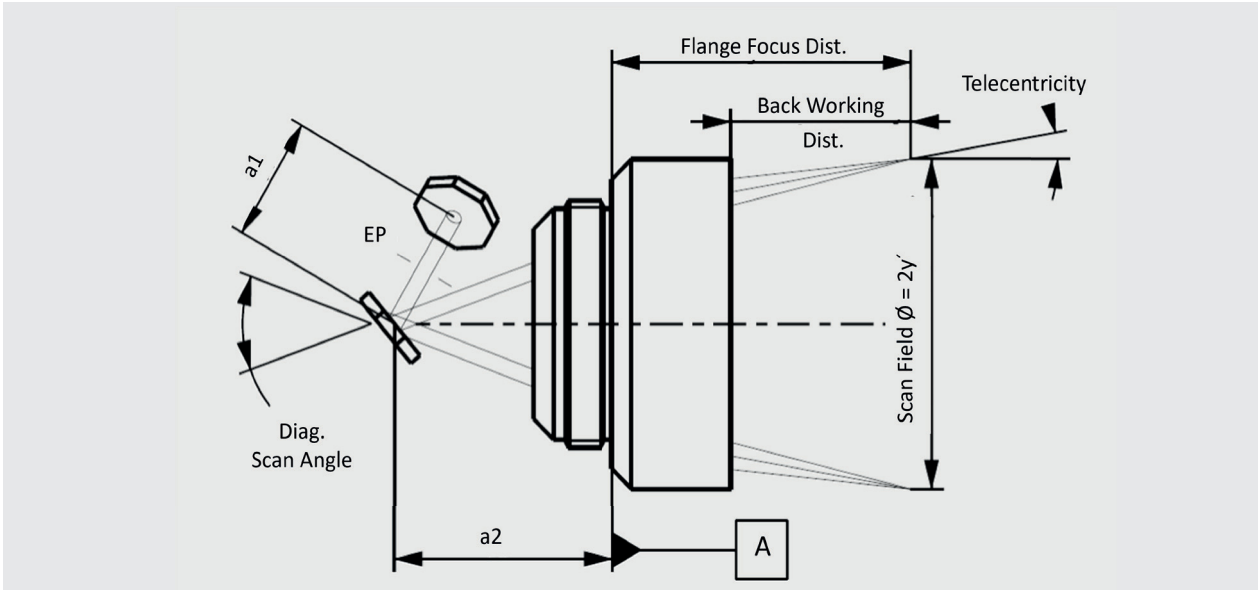
Specifications
JENar™ 55-355-21



Definition of geometrical parameters



JENar®: Registered in EU, CN, JP, SG, US | Silverline®: Registered in DE, JP, SG, IN
605678: Utility patent DE 20 2018 100 369 I Utility patent in CN, pending in JP, KR

The data given are nominal values for the specified application parameters. Jenoptik provides Zemax® BlackBox files for simulating application results for customized parameters (e.g. wavelength, scanner geometry, beam diameter, …).
Back working distance, Flange focus distance, and focal length vary by ± 1.5 % due to manufacturing variances.

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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