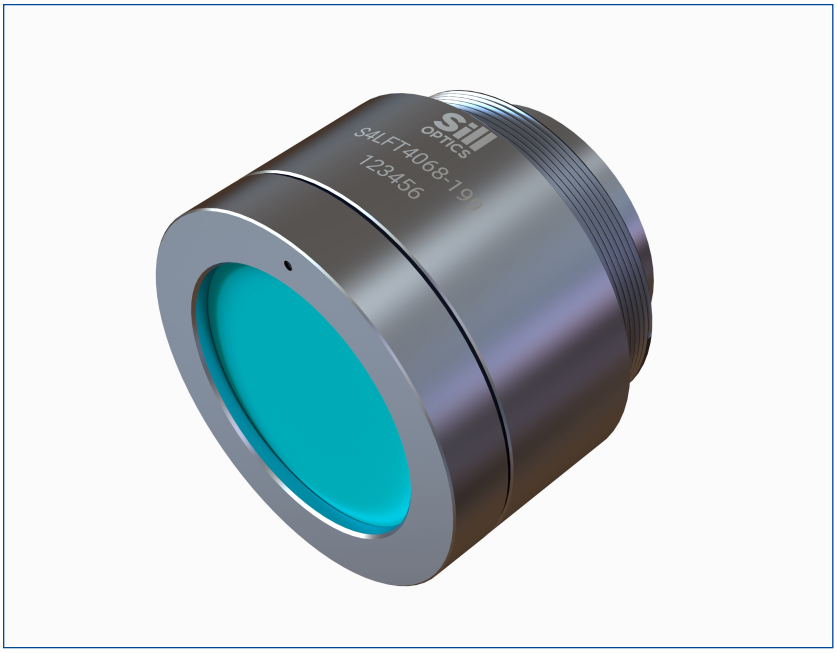
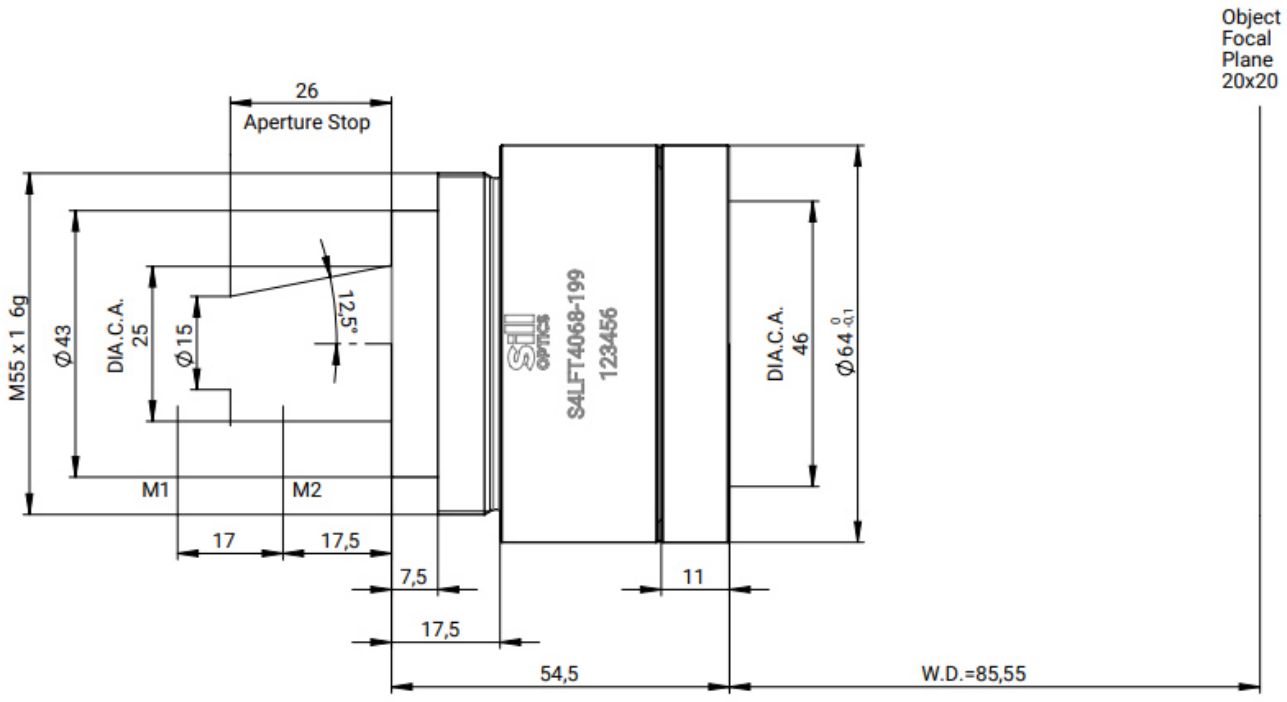
DATA SHEET

S4LFT4068-199

telecentric F-Theta
UV fused silica
266 nm



outline drawing



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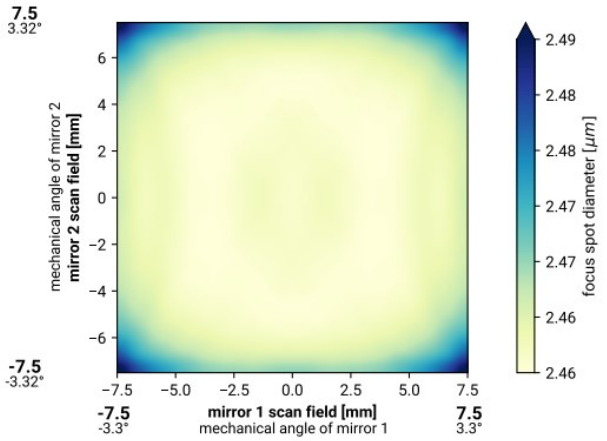
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DATA SHEET

specifications

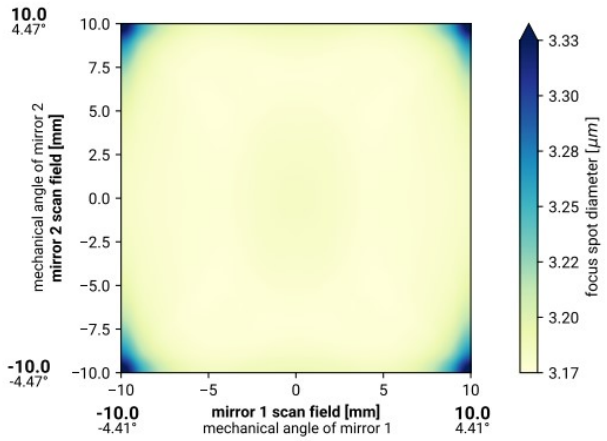
article number	S4LFT4068-199
design wavelength [nm]	266
effective focal length [mm]	65.5
working distance [mm]	85.6
max. entrance beam-Ø [mm]	14.0
aperture stop distance [mm]	26.0
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	20 x 20 17.5 / 34.5
max. telecentricity error [°]	1.3
total transmission [%]	> 97
absorption [ppm]	not specified
lens material	UV fused silica
LIDT (coating)	0.5 J/cm² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	0.7
cover glass	S4LPG4068-199
cleanliness	not specified

spot for 15x15 mm²



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 10.0 mm diameter at $1/e^2$, clipped at 14.0 mm field size and mirror distances as given above for a two mirror scan system

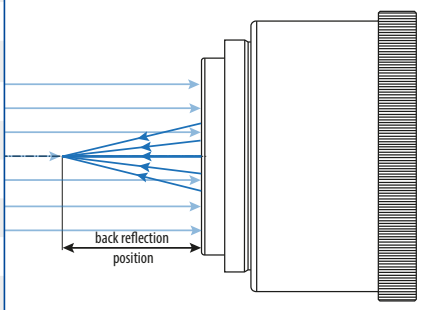
spot for 20x20 mm²



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 7.0 mm diameter at $1/e^2$, clipped at 14.0 mm field size and mirror distances as given above for a two mirror scan system

back reflection positions

back reflections [mm] for 266 nm
25.5
0.3
0.1
1.5



remarks

The stated values are based on a vignetting of less than 1 %.

Effective focal length and working distance have a tolerance of +/- 1.5 %.

Absorption tolerance +/- 25 %. Absorption may increase. Correct cleaning establishes original condition.

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