

DATA SHEET

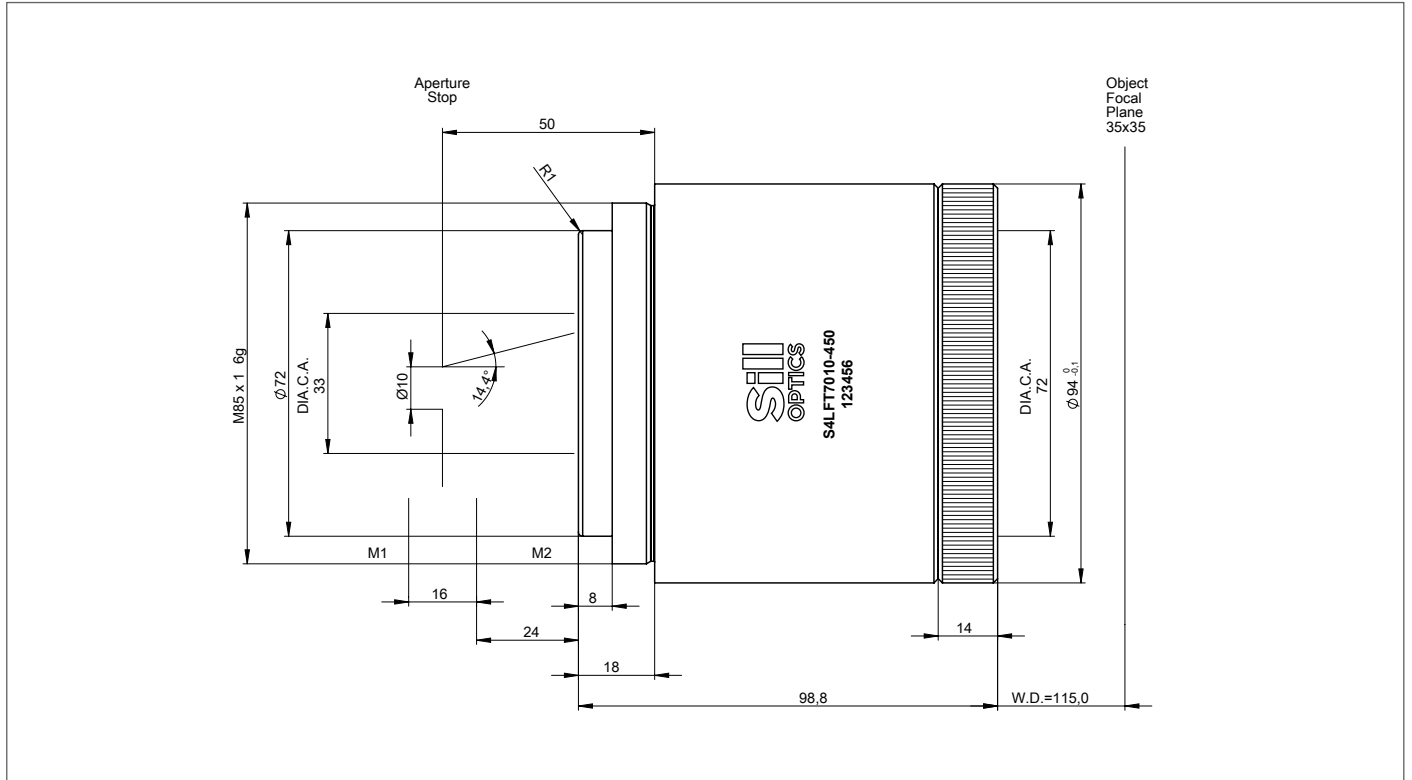
S4LFT7010-450

F-THETA
COLOR CORRECTED
1000 - 1100nm



ILLUSTRATION ONLY

OUTLINE DRAWING



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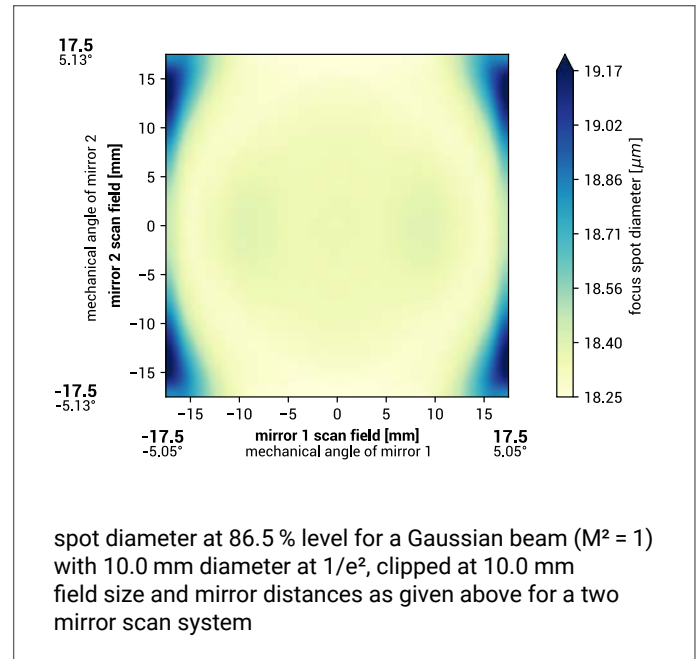
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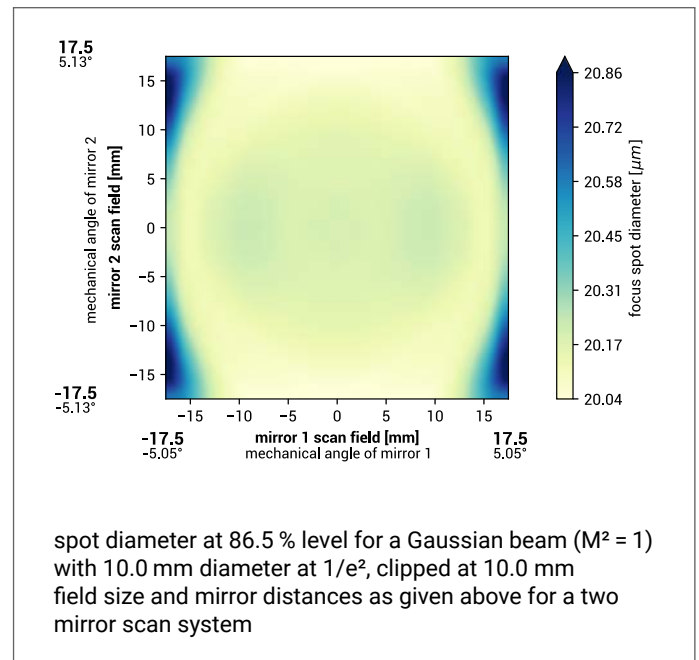
SPECIFICATIONS

article number	S4LFT7010-450	
design wavelength [nm]	1000	1100
effective focal length [mm]	100.2	100.2
max. entrance beam-Ø [mm]	10.0	
aperture stop distance [mm]	32.0	
working distance [mm]	115.0	115.0
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	35 x 35 24.0 / 40.0	
max. telecentricity error [°]	1.5	1.5
lateral color shift [µm]	< 0.01	
chromatic focal shift [mm]	0.04	
total transmission [%]	> 96	> 96
lens material	optical glass	
LIDT (coating)	1.0 J/cm ² per 1ns pulse at 50Hz	
SP and USP usable	yes	
weight [kg]	1.1	
cover glass	S4LPG0005-450	
absorption [ppm]	not specified	
cleanliness	not specified	

SPOT FOR 1000nm



SPOT FOR 1100nm



BACK REFLECTION POSITION

back reflections [mm]		Diagram
for 1000 nm	for 1100 nm	
0.2	0.2	
11.8	11.8	
0.0	0.0	
0.0	0.0	
0.0	0.0	
0.0	0.0	
0.0	0.0	
0.0	0.0	
0.0	0.0	
0.0	0.0	
0.0	0.0	
0.0	0.0	

REMARKS

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

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

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

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