

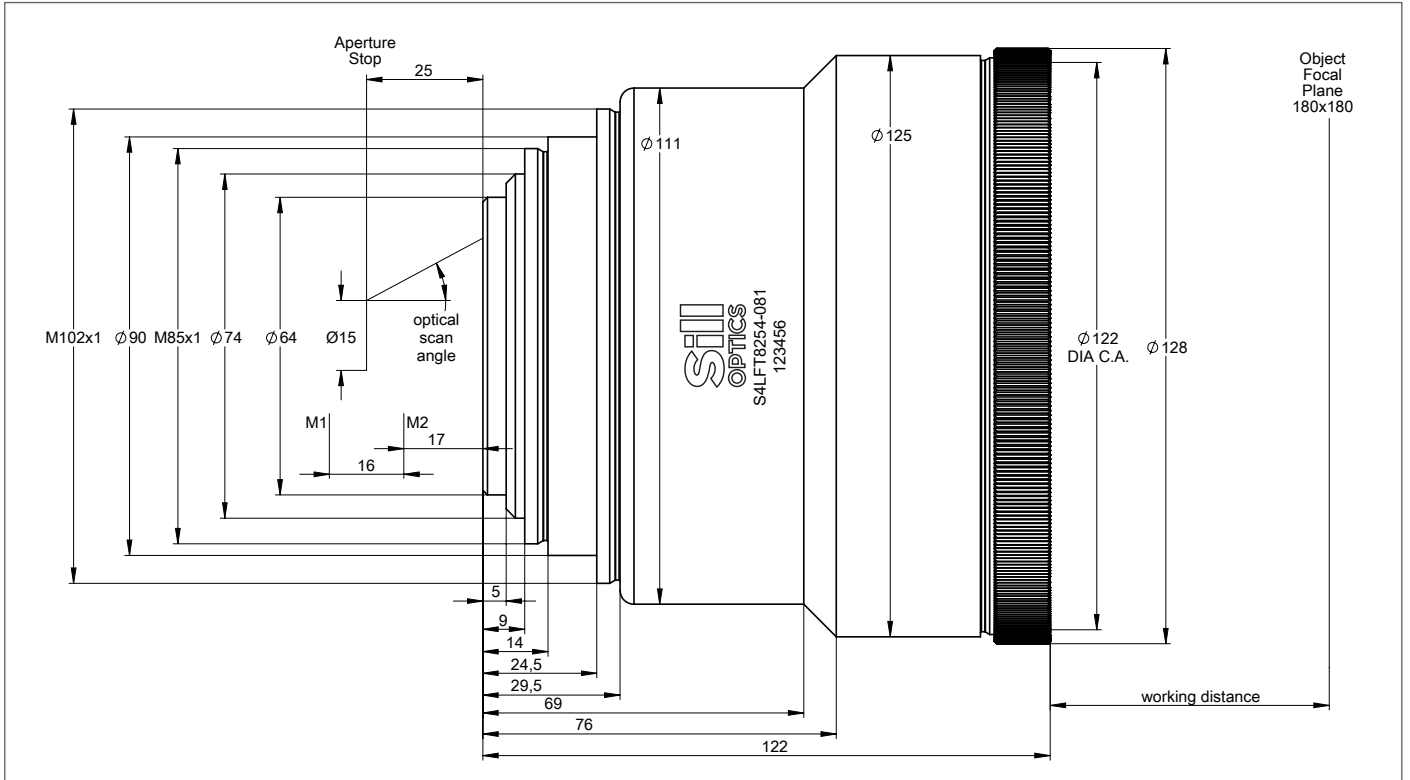
DATA SHEET

S4LFT8254-O81

F-THETA
MULTI-SPECTRAL
532 + 1064 nm



OUTLINE DRAWING



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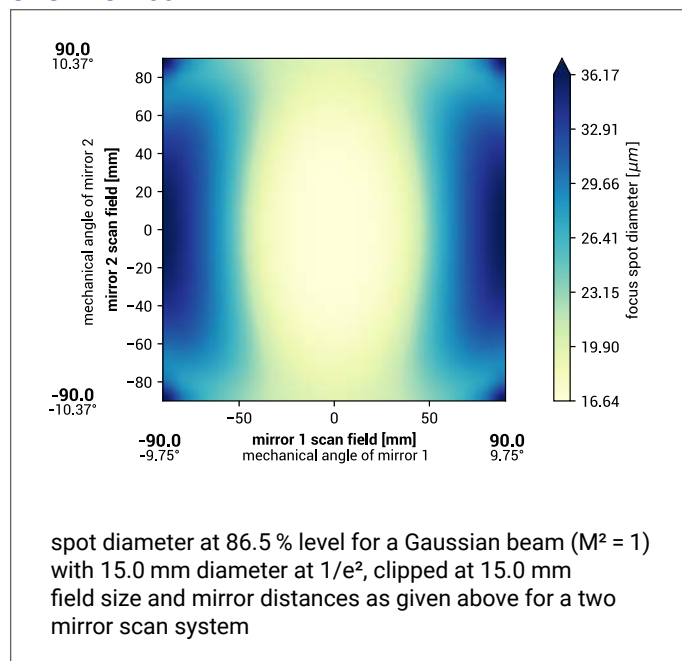
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DATA SHEET

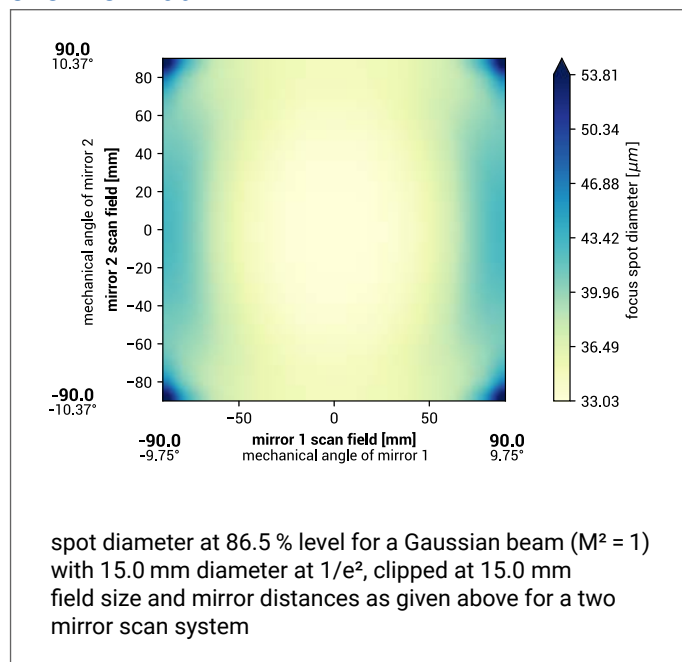
SPECIFICATIONS

article number	S4LFT8254-081	
design wavelength [nm]	532	1064
effective focal length [mm]	254.0	253.9
max. entrance beam-Ø [mm]	15.0	
aperture stop distance [mm]	25.0	
working distance [mm]	211.6	211.4
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	180 x 180 17.0 / 33.0	
max. telecentricity error [°]	19.7	19.6
lateral color shift [µm]		
chromatic focal shift [mm]		
total transmission [%]	> 94	> 95
lens material	optical glass	
LIDT (coating)	2.5 J/cm ² per 1ns pulse at 50Hz	
SP and USP usable	no	
weight [kg]	2.2	
cover glass	S4LPG0300-081	
absorption [ppm]	not specified	
cleanliness	not specified	

SPOT FOR 532nm



SPOT FOR 1064 nm



BACK REFLECTION POSITION

back reflections [mm]		
for 532 nm	for 1064 nm	
0.4	0.6	
1.2	1.1	
12.5	10.5	
21.5	20.7	
24.4	25.5	
35.3	33.7	
57.8	56.9	
59.6	57.3	
60.8	58.8	
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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