

S4LFT565O-292

F-THETA

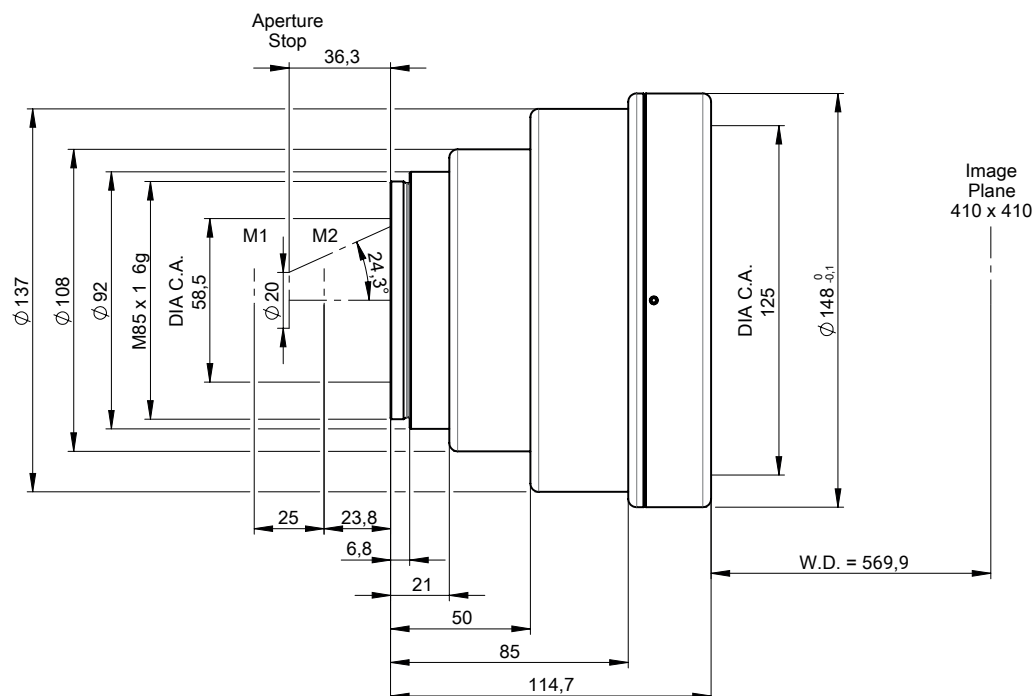
STANDARD - FUSED SILICA

515 - 545 nm



ILLUSTRATION ONLY - THE COLOR OF THE LENSES CAN DIFFER

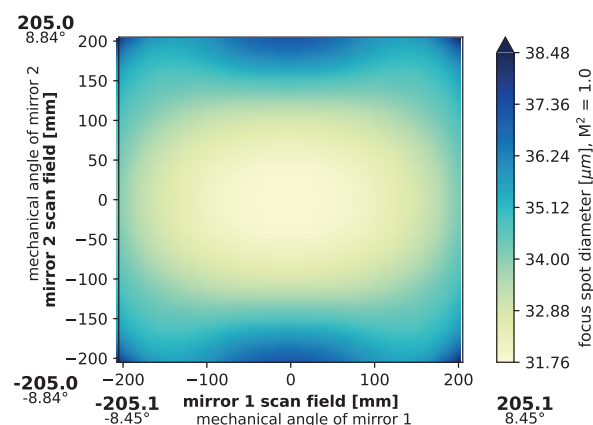
OUTLINE DRAWING



SPECIFICATIONS

article number	S4LFT5650-292
design wavelength [nm]	532
effective focal length [mm]	650.0
working distance [mm]	569.9
max. entrance beam-Ø [mm]	20.0
aperture stop distance [mm]	36.3
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	410 x 410 23.8 / 48.8
max. telecentricity error [°]	22.70
total transmission [%]	> 98
absorption [ppm]	not specified
lens material	fused silica
LIDT (coating)	2.5 J/cm ² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	2.21
cover glass	S4LPG2175-292
cleanliness	not specified

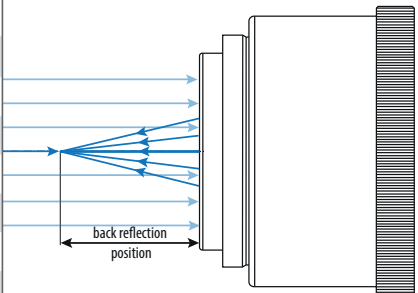
SPOT



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 20.00 mm diameter at $1/e^2$, clipped at 20.00 mm field size and mirror distances as given above for a two mirror scan system

BACK REFLECTION POSITIONS

back reflections [mm] for 532	
3.7	
9.0	
11.6	
37.9	
272.6	
274.4	
0.00	
0.00	
0.00	
0.00	



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.