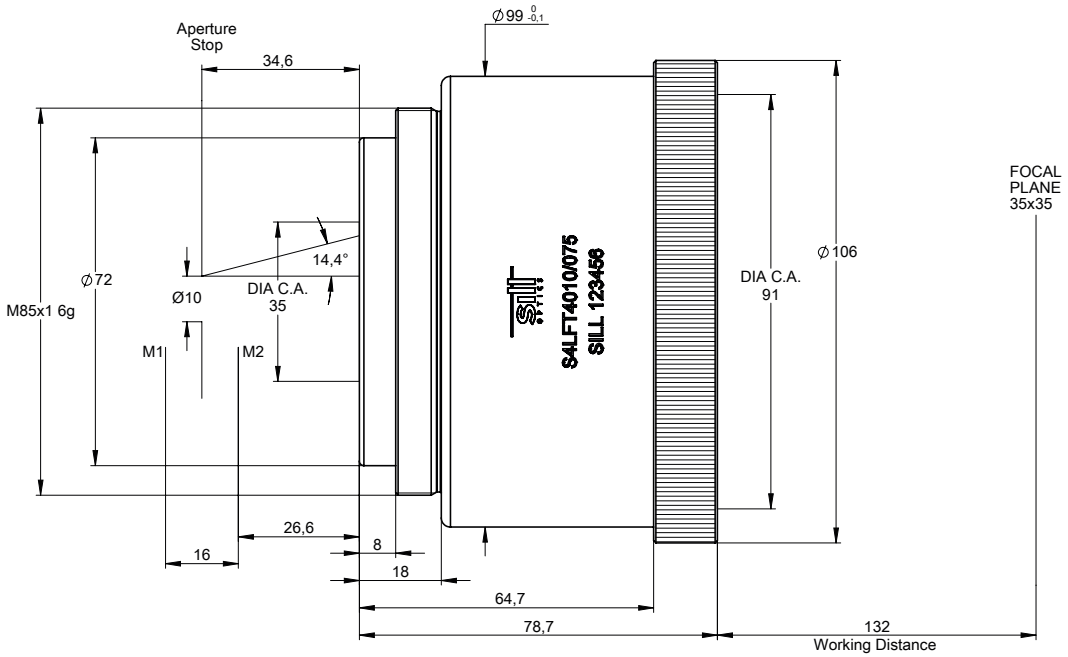
DATA SHEET

新特光电 Sintec Optronics

S4LFT4010/075

F-Theta
telecentric - fused silica
355 nm

outline drawing



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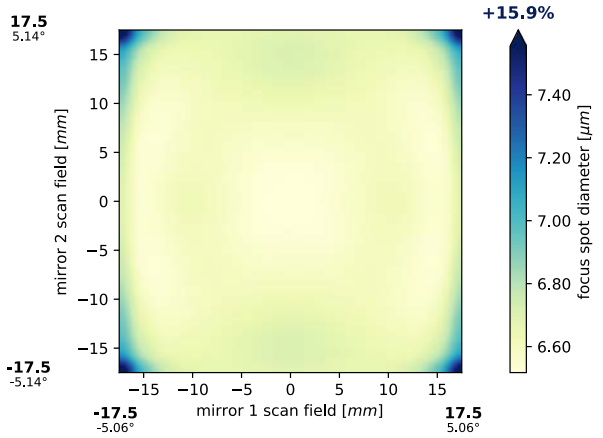
新特光电 Sintec Optronics

specifications

article number	S4LFT4010/075
design wavelength [nm]	355
effective focal length [mm]	100.2
max. entrance beam-Ø [mm]	10.0
optical scan angle [±°]	14.4
scan length [mm] (1 mirror system)	49.5
aperture stop distance [mm]	34.6
working distance [mm]	132.0
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	35 x 35 26.6 / 42.6
max. telecentricity error [°]	1.2
total transmission [%]	> 97
lens material	fused silica
LIDT (coating)	1.0 J/cm² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	1.2
cover glass	S4LPG2250/075
absorption [ppm]	not specified
cleanliness	not specified

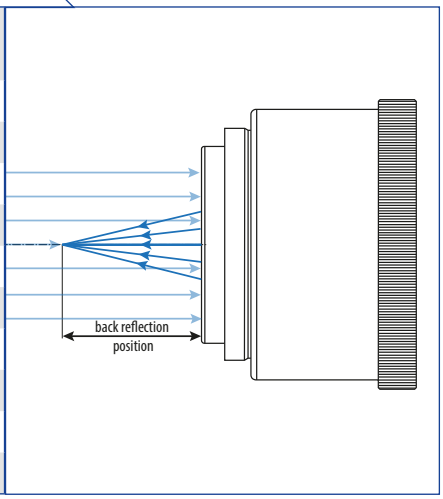
spot



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

back reflection position

back reflection [mm] for 355
0.31
1.04
2.32
3.21
10.67
13.09
88.13
0.00
0.00
0.00



notes

The values given assume a vignetting of less than 1 %

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

Absorption tolerance +/- 25 %. Absorption may degrade over time, correct cleaning is able to reset to factory condition.