DATA SHEET

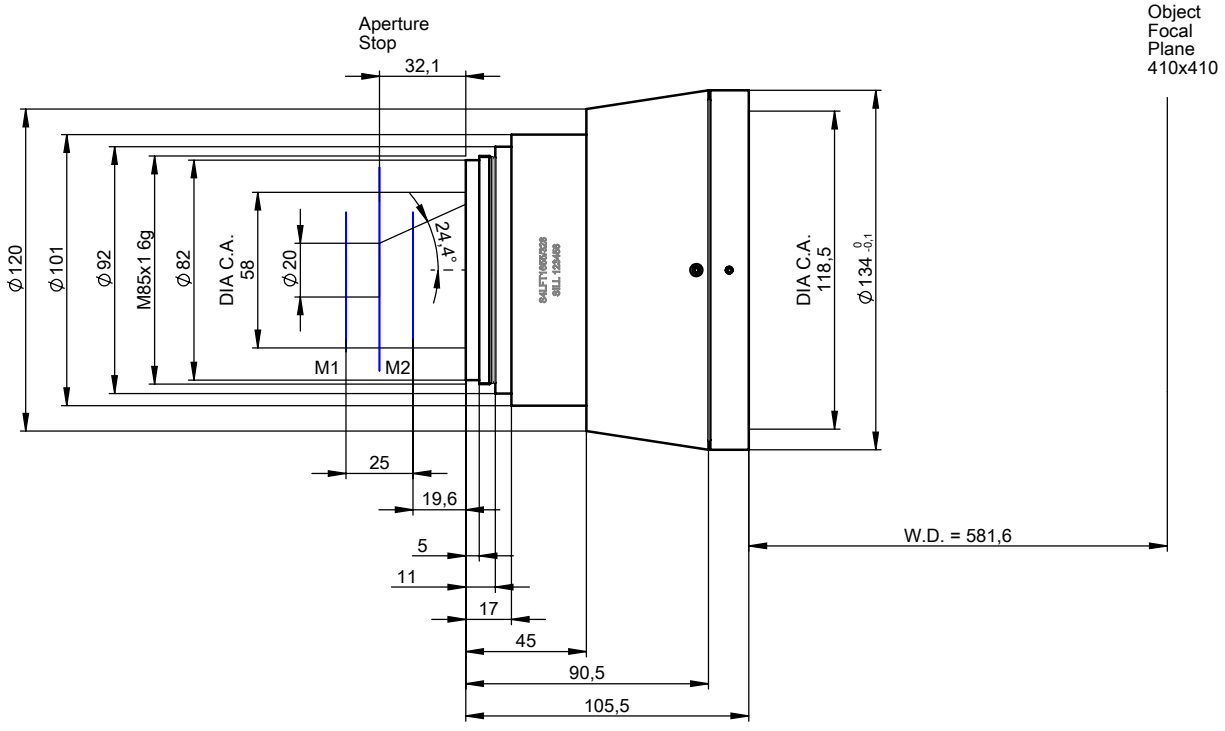
新特光电 Sintec Optronics

S4LFT1655/328

F-Theta
standard - fused silica
1030 - 1090 nm

illustration only

outline drawing



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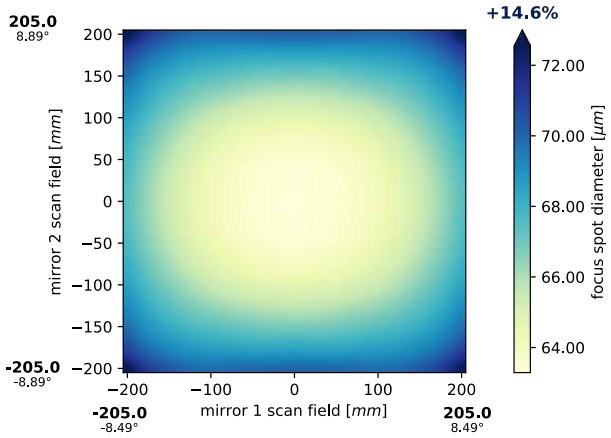
新特光电 Sintec Optronics

specifications

article number	S4LFT1655/328
design wavelength [nm]	1064
effective focal length [mm]	649.4
max. entrance beam-Ø [mm]	20.0
optical scan angle [±°]	24.4
scan length [mm] (1 mirror system)	580.0
aperture stop distance [mm]	32.1
working distance [mm]	581.6
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	410 x 410 19.6 / 44.6
max. telecentricity error [°]	22.5
total transmission [%]	> 98
lens material	fused silica
LIDT (coating)	5.0 J/cm² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	1.6
cover glass	S4LPG1305/526
absorption [ppm]	not specified
cleanliness	not specified

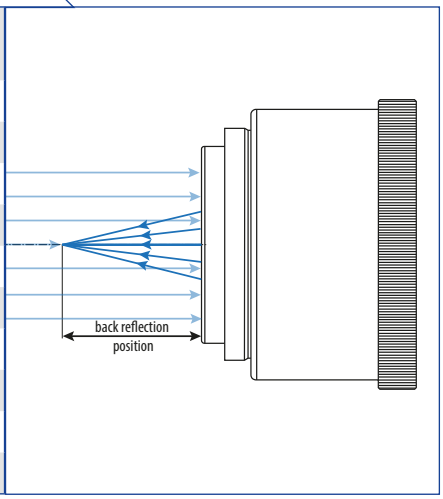
spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$)
with 20.0 mm diameter at $1/e^2$, clipped at 20.0 mm
field size and mirror distances as given above for a two mirror scan system

back reflection position

back reflection [mm] for 1064
3.14
7.04
7.67
31.56
271.95
273.23
579.66
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.