DATA SHEET

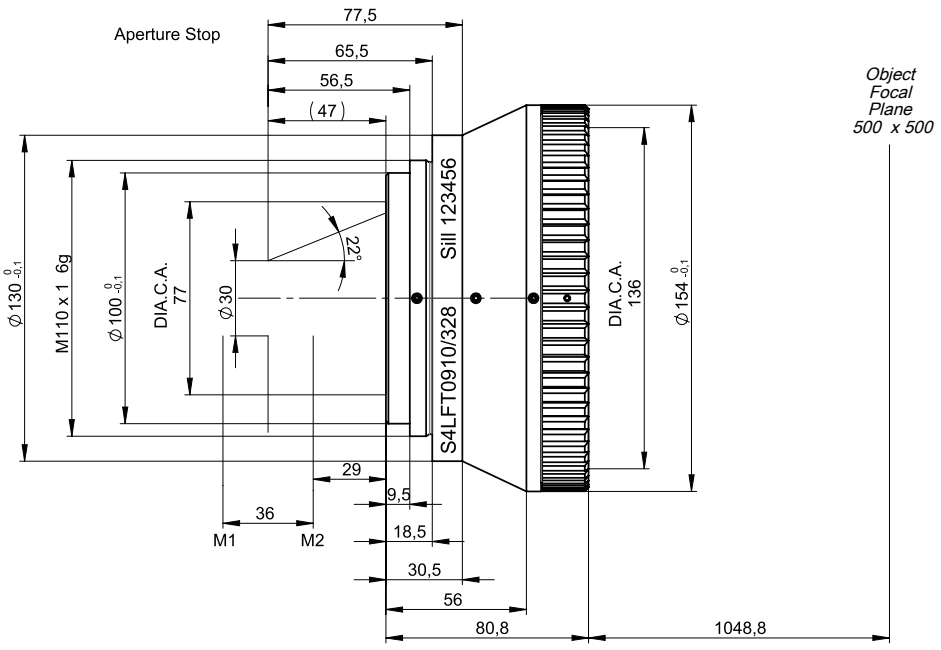
新特光电 Sintec Optronics

S4LFT0910/328

F-Theta
standard - fused silica
1030 - 1090 nm

illustration only

outline drawing



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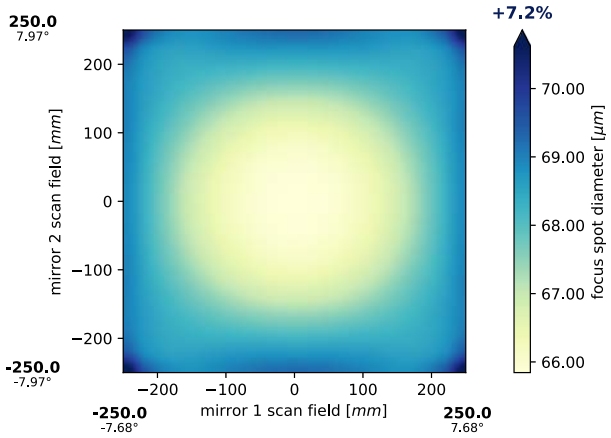
新特光电 Sintec Optronics

specifications

article number	S4LFT0910/328
design wavelength [nm]	1064
effective focal length [mm]	910.0
max. entrance beam-Ø [mm]	30.0
optical scan angle [±°]	22.0
scan length [mm] (1 mirror system)	707.3
aperture stop distance [mm]	46.0
working distance [mm]	1048.8
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	500 x 500 29.0 / 65.0
max. telecentricity error [°]	16.2
total transmission [%]	> 97
lens material	fused silica
LIDT (coating)	5.0 J/cm²
SP and USP usable	yes
weight [kg]	1.8
cover glass	S4LPG2175/328
absorption [ppm]	83
cleanliness	not specified

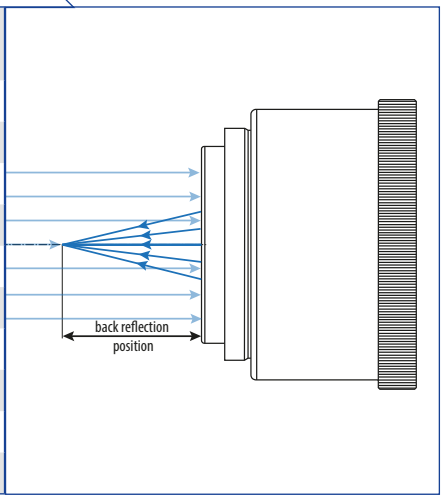
spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$)
with 20.0 mm diameter at $1/e^2$, clipped at 30.0 mm
field size and mirror distances as given above for a two mirror scan system

back reflection position

back reflection [mm] for 1064
1.98
11.27
11.56
295.76
338.95
339.98
0.00
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.