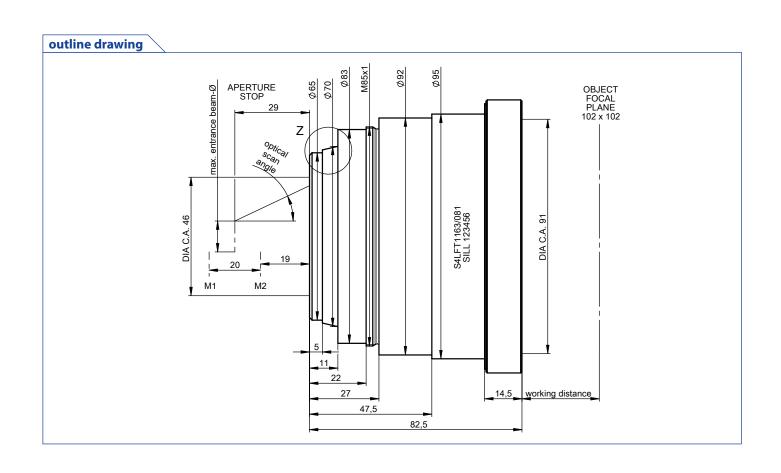
DATA SHEET (分新特光电 Sintec Optronics

S4LFT1163/081

F-Theta multi-spectral 532 + 1064 nm





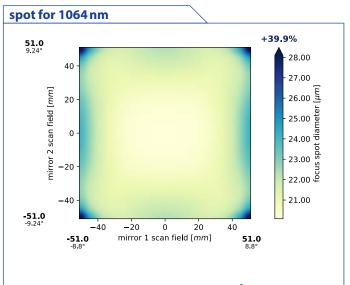
DATA SHEET (分新特光电 Sinter Optronics

specifications			
article number	CALET116	S4LFT1163/081	
	- 1 111		
design wavelength [nm]	532	1064	
effective focal length [mm]	163.1	163.1	
max. entrance beam-Ø [mm]	12.0	12.0	
optical scan angle [±°]	25.3	25.3	
scan length [mm] (1 mirror system)	144.	144.3	
aperture stop distance [mm]	29.0	29.0	
working distance [mm]	159.9	159.0	
scan area for a 2 mirror system with mirror distance from lens housing for	102 x	102 x 102	
mirror 2 / mirror 1	19.0 / 3	19.0 / 39.0	
max. telecentricity error [°]	12.7	12.7	
lateral color shift [µm]	181	181	
chromatic focal shift [mm]	0.87	0.87	
total transmission [%]	> 96	> 96	
lens material	optical	optical glass	
LIDT (coating)		2.5 J/cm² per 1ns pulse at 50Hz	
SP and USP usable	no	no	
weight [kg]	1.3	1.3	
cover glass	S4LPG009	S4LPG0090/081	
absorption [ppm]	not spec	not specified	
cleanliness	not specified		

spot for 53	2 nm	
51.0 9.24°		+80.1%
9.24°		
40	-	
_		- 22.00 —
E 20		m/i
) p		20.00 =
- fie		20.00 8
can		t dis
r 2 s		18.00 o
mirror 2 scan field [<i>mm</i>] 0 0 0 0	-	- 22.00 - 20.00 - 18.00 tigameter (17.00 - 16.00 cons
Ε		أو 16.00 أ
-40		
-51.0		- 14.00
-9.24°	-40 -20 0	20 40
-5	1.0 mirror 1 scan field [.79°	[mm] 51.0 8.79°
-0	./9	0.79

spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 12.0 mm diameter at $1/e^2$, clipped at 12.0 mm field size and mirror distances as given above for a two mirror scan system

back reflection [mm] for 532 nm for 1064 nm 6.60 6.60 15.77 16.05 30.98 31.54 32.02 31.86 32.85 32.54 98.73 85.94 362.30 245.76 0.00 0.00 0.00 0.00



spot diameter at 86.5 % level for a Gaussian beam ($M^2=1$) with 12.0 mm diameter at $1/e^2$, clipped at 12.0 mm field size and mirror distances as given above for a two mirror scan system

remarks

0.00

back reflection position

The stated values are based on a vignetting of less than 1 %.

0.00

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

Absorption tolerance +/- 25 %. Absorption may increase. Correct cleaning establishes original condition.