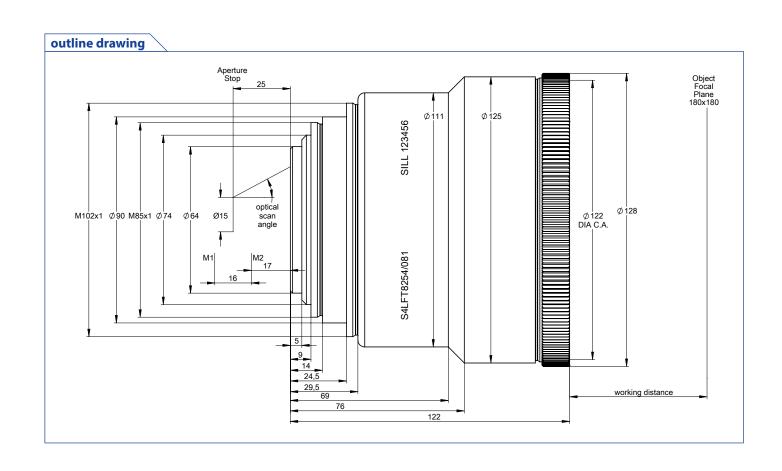
DATA SHEET (分新特光电 Sintec Optronics

S4LFT8254/081

F-Theta multi-spectral 532 + 1064 nm





DATA SHEET (分新特光电 Sintec Optronics

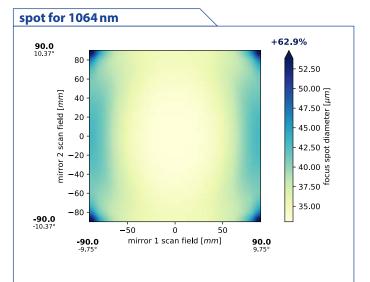
specifications			
article number	S4LFT82	S4LFT8254/081	
design wavelength [nm]	532	1064	
effective focal length [mm]	254.0	253.9	
max. entrance beam-Ø [mm]	15.	15.0	
optical scan angle [±°]	28.2	28.2	
scan length [mm] (1 mirror system)	254	254.6	
aperture stop distance [mm]	25.	25.0	
working distance [mm]	211.6	211.4	
scan area for a 2 mirror system with mirror distance from lens housing for	180 x	180 x 180	
mirror 2 / mirror 1	17.0 /	17.0 / 33.0	
max. telecentricity error [°]	19.7	19.6	
lateral color shift [µm]			
chromatic focal shift [mm]			
total transmission [%]	> 9	> 94	
lens material	optical	optical glass	
LIDT (coating)	· · · · · · · · · · · · · · · · · · ·	2.5 J/cm² per 1ns pulse at 50Hz	
SP and USP usable	no	no	
weight [kg]	2.2	2.2	
cover glass	S4LPG03	S4LPG0300/081	
absorption [ppm]	not spe	not specified	
cleanliness	not spe	not specified	

pot for 532 nm	1	
90.0		+117.3%
10.37° 80 -		- 35.00
60 -		
<u>ٿ</u> 40 -		- 32.50
<u>의</u> 20 -		- 30.00 -
an fie		- 27.50 <u>E</u>
° −20 -		- 30.00 - 27.50 ed diameter - 25.00 diam
mirror 2 scan field [<i>mm</i>] - 05 – 0 – 0 – 0 – 0 – 0 – 0 – 0 – 0 – 0		- 22.50 PJ
-60 -		20.00
-90.0		- 17.50
-10.37° -90.0 -9.75°	-50 0 50 mirror 1 scan field [<i>mm</i>]	90.0 9.75°

spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 15.0 mm diameter at $1/e^2$, clipped at 15.0 mm field size and mirror distances as given above for a two mirror scan system

back reflection position

back reflection [mm]		
for 532 nm	for 1064 nm	
0.44	0.60	
1.23	1.08	
12.46	10.46	
21.52	20.70	
24.41	25.46	
35.34	33.71	back reflection
57.79	56.92	position
59.63	57.30	
60.75	58.77	
0.00	0.00	



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 15.0 mm diameter at $1/e^2$, clipped at 15.0 mm field size and mirror distances as given above for a two mirror scan system

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.