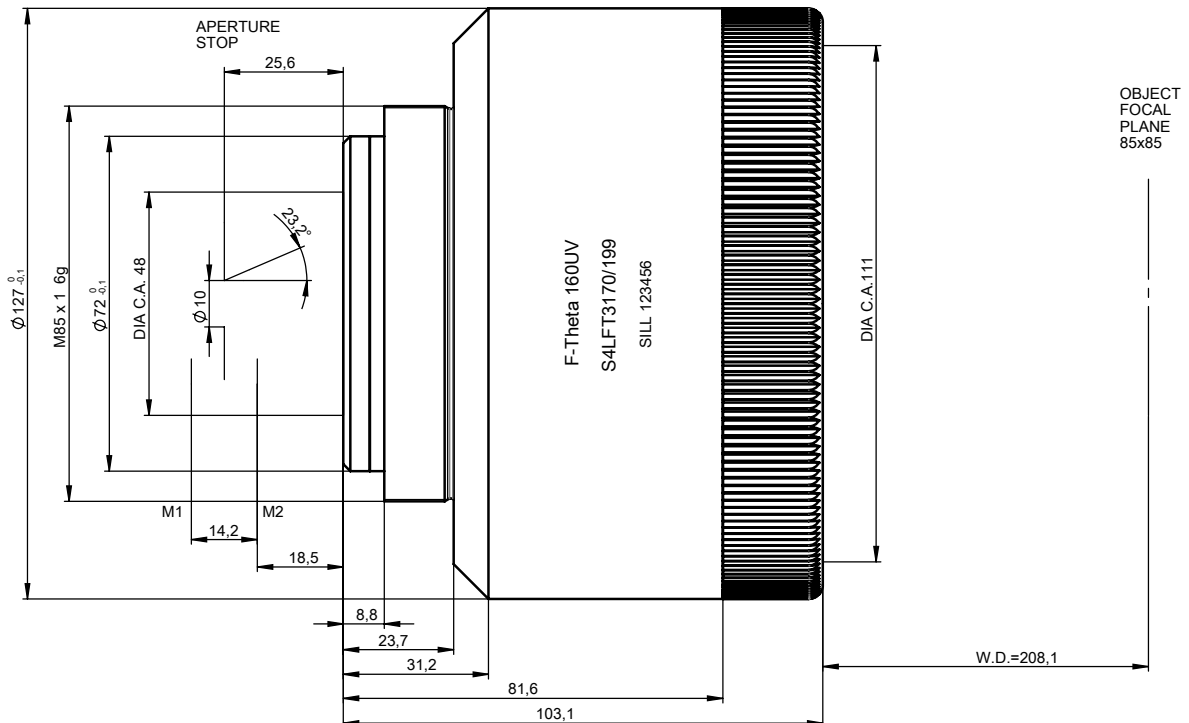


## S4LFT3170/199

F-Theta  
telecentric - fused silica  
266 nm



### outline drawing



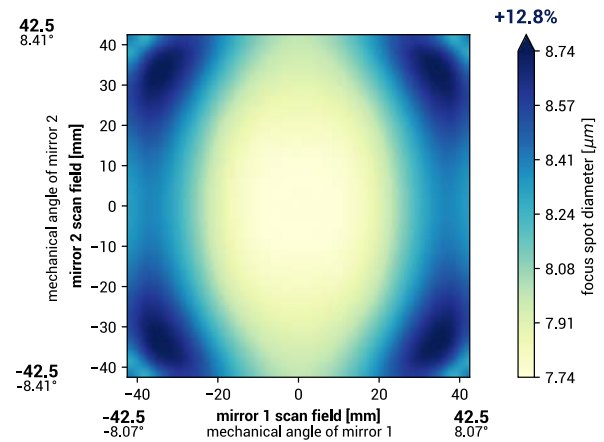
# DATA SHEET



## specifications

article number	S4LFT3170/199
design wavelength [nm]	266
effective focal length [mm]	153.8
working distance [mm]	208.1
max. entrance beam-Ø [mm]	10.0
aperture stop distance [mm]	25.6
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	85 x 85 18.5 / 32.7
max. telecentricity error [°]	3.8
total transmission [%]	> 98
absorption [ppm]	not specified
lens material	fused silica
LIDT (coating)	0.5 J/cm <sup>2</sup> per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	not yet weighed
cover glass	S4LPG4160/199
cleanliness	not specified

## spot



spot diameter at 86.5 % level for a Gaussian beam ( $M^2 = 1$ ) with 8.0 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 positions

back reflections [mm] for 266	
1.19	
1.71	
230.89	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	

## remarks

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

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

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