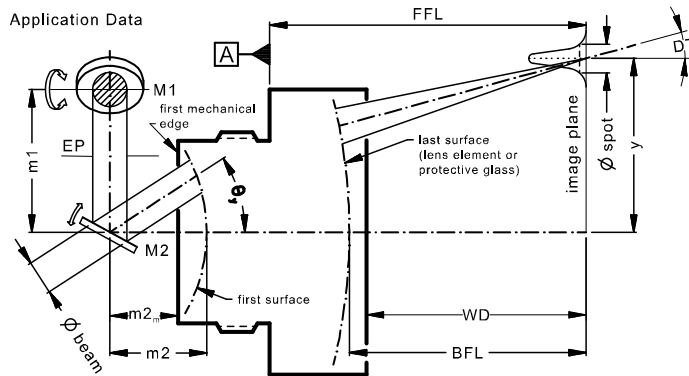


# LINOS F-Theta-Ronar Lens

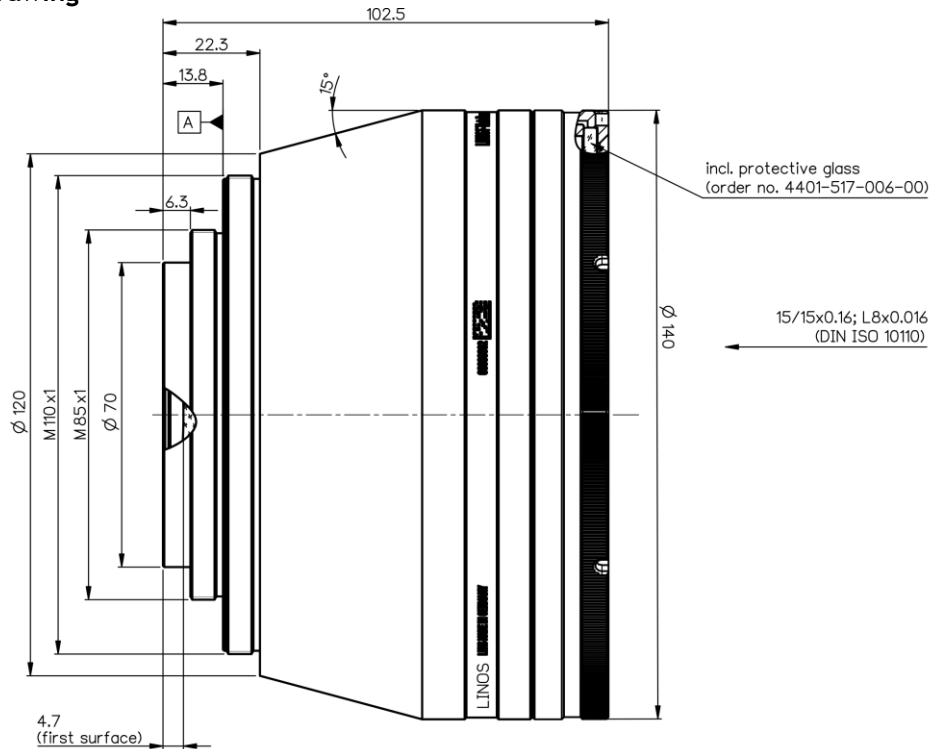
$f = 265\text{mm}$ , 515-540nm, fused silica, low absorption



Part number	4401-605-000-26			
Design wavelength	$\lambda$	(nm)	532	
Effective focal length	EFL	(mm)	265.1	
Back focal length	BFL	(mm)	349.4	
Working distance	WD	(mm)	346.9	
Flange focal length	FFL	(mm)	435.4	
Beam diameter 1/e <sup>2</sup> truncated	$\varnothing_{\text{beam}}$	(mm)	14.0	20.0
Recommended mirror distance m1	m1	(mm)	17.0	25.0
Recommended mirror distance m2	m2	(mm)	27.0	32.0
Recommended mirror distance m2 <sub>mechanical</sub>	m2 <sub>m</sub>	(mm)	22.3	27.3
Scan angle	$\pm\theta_{x,y}$	(°)	16.7	14.7
Scan area (edge length of scan field)	2x * 2y	(mm <sup>2</sup> )	150 x 150	133 x 133
Spot diameter	$\varnothing_{\text{spot}}$	( $\mu\text{m}$ )	18	13
Telecentric error (maximum deviation)	DT	(°)	9.3	7.7
Total transmission @ 515 - 540nm	T	(%)	> 96	
Group delay dispersion at $\lambda$	GDD	(fs <sup>2</sup> )	4902	
LIDT coating @ 532nm, 8ns, 100kHz		(J/cm <sup>2</sup> )	20	
LIDT coating @ 515nm, 204fs, 50kHz		(J/cm <sup>2</sup> )	0.6	
Focused back reflex positions from first surface		(mm)	10.35; 17.12; 20.72; 21.73; 51.23; 51.81; 62.39	
Weight		(g)	2331	
Protective glass	PG		4401-517-006-00	

Optical parameters calculated for a 1-mirror system  
 Subject to technical change

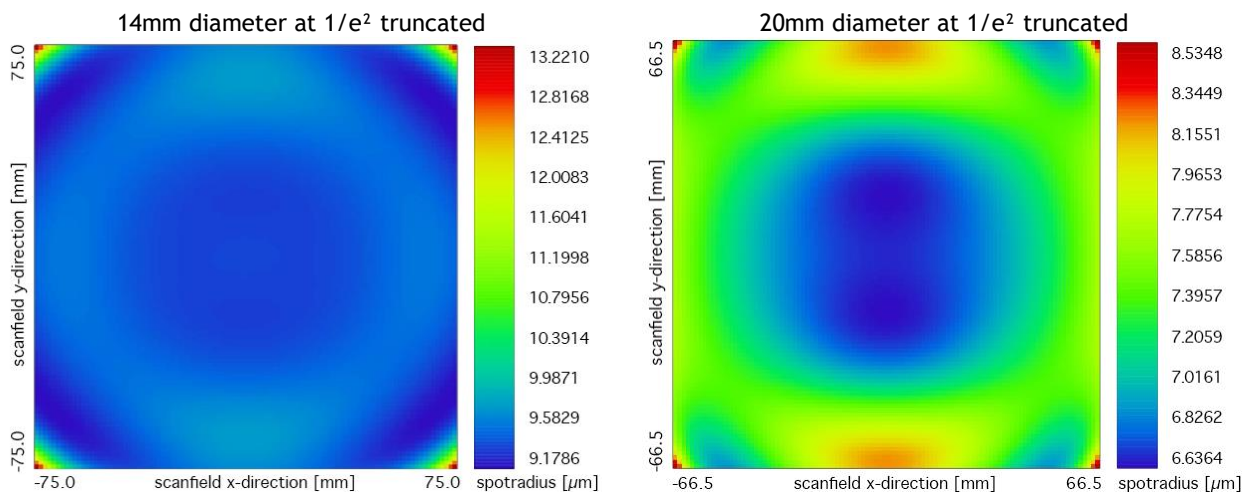
## Mechanical drawing



Dimensions without tolerances are nominal values and illustration not to scale

## Spot variation over scanfield

Spot radius in  $\mu\text{m}$  at  $1/e^2$  level for a Gaussian laser beam ( $M^2=1$ )  
field size and mirror distances as given above for a 2 mirror scan system



## Notes:



For technical explanations, see our homepage.

In a 1-mirror system, the entrance pupil (EP) is the position of the scan mirror. In a 2-mirror system, it is the point where the scan mirrors should be placed around symmetrically to reach specified performance.