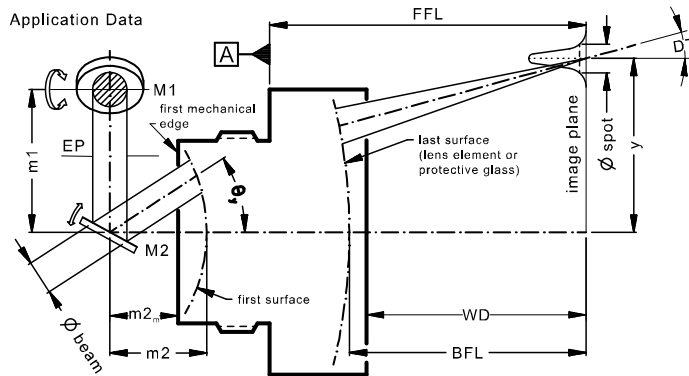


# LINOS F-Theta-Ronar Lens

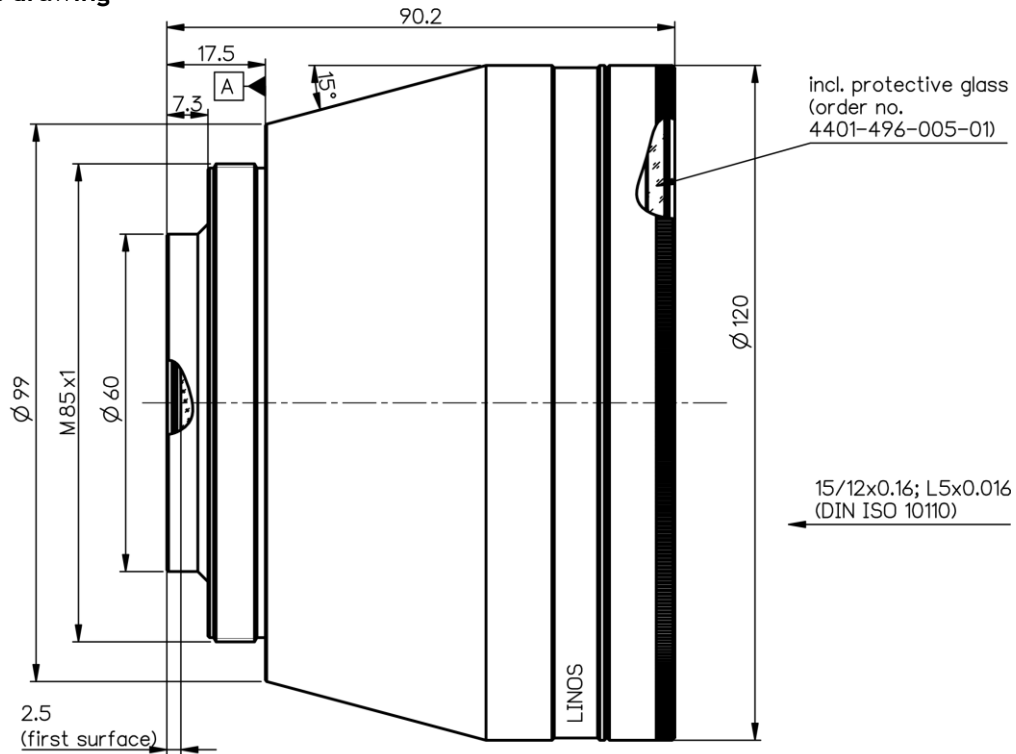
$f = 160\text{mm}$ , 515-540nm, fused silica, low absorption



Part number	4401-587-000-26			
Design wavelength	$\lambda$	(nm)	532	
Effective focal length	EFL	(mm)	159.9	
Back focal length	BFL	(mm)	217.6	
Working distance	WD	(mm)	215.8	
Flange focal length	FFL	(mm)	288.5	
Beam diameter $1/e^2$ truncated	$\varnothing_{\text{beam}}$	(mm)	10.0	14.0
Recommended mirror distance m1	m1	(mm)	13.0	17.0
Recommended mirror distance m2	m2	(mm)	18.5	22.5
Recommended mirror distance $m2_{\text{mechanical}}$	$m2_m$	(mm)	16.0	20.0
Scan angle	$\pm\theta_{x,y}$	( $^\circ$ )	16.8	15.2
Scan area (edge length of scan field)	$2x * 2y$	( $\text{mm}^2$ )	91 x 91	83 x 83
Spot diameter	$\varnothing_{\text{spot}}$	( $\mu\text{m}$ )	16	12
Telecentric error (maximum deviation)	DT	( $^\circ$ )	5.9	4.7
Total transmission @ 515 - 540nm	T	(%)	> 96	
Group delay dispersion at $\lambda$	GDD	( $\text{fs}^2$ )	4201	
LIDT coating @ 532nm, 8ns, 100Hz		( $\text{J}/\text{cm}^2$ )	20	
LIDT coating @ 515nm, 204fs, 50kHz		( $\text{J}/\text{cm}^2$ )	0.6	
Focused back reflex positions from first surface		(mm)	13.8; 14.3: 199.7	
Weight		(g)	1429	
Protective glass	PG		4401-496-005-01	

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

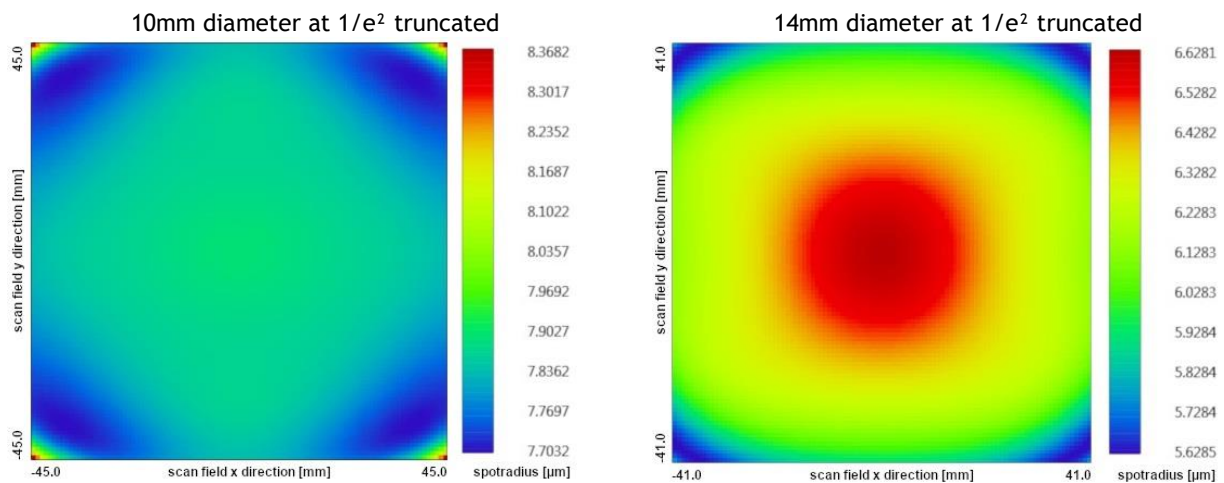
## Mechanical drawing



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.