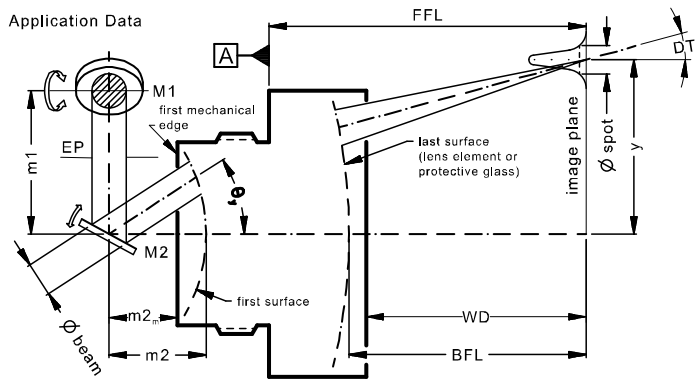
LINOS F-Theta-Ronar Lens

f = 255mm, 340-360nm, fused silica



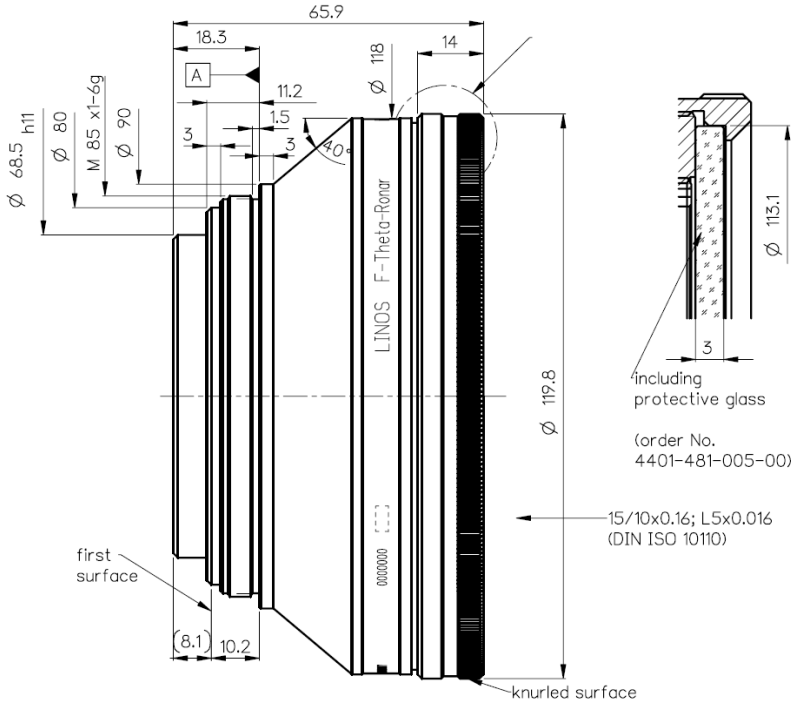
Part number	4401-481-000-21		
Design wavelength	λ	(nm)	355
Effective focal length	EFL	(mm)	254.7
Back focal length	BFL	(mm)	321.0
Working distance	WD	(mm)	318.1
Flange focal length	FFL	(mm)	365.7
Beam diameter $1/e^2$ truncated	Øbeam	(mm)	10.0
Recommended mirror distance m1	m1	(mm)	13.0
Recommended mirror distance m2	m2	(mm)	30.0
Recommended mirror distance $m2_{mechanical}$	$m2_m$	(mm)	21.9
Scan angle	±θ	(°)	19.3
Scan area (edge length of scan field)	2x * 2y	(mm^2)	170 x 170
Spot diameter	Øspot	(µm)	17
Telecentric error (maximum deviation)	DT	(°)	13.6
Total transmission @ 340 - 360nm	T	(%)	> 96
Group delay dispersion at λ	GDD	(fs^2)	5807
LIDT coating @ 355nm, 6ns, 100Hz		(J/cm^2)	4
Focused back reflex positions from first surface		(mm)	4.5; 11.8; 23.7; 36.3; 71.9; 72.5
Weight		(g)	1000
Protective glass	PG		4401-481-005-00

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

Qioptiq Photonics GmbH & Co. KG
Königsallee 23
D - 37081 Göttingen

Tel: +49 (0) 551 6935-0
lmp@excelitas.com
www.qioptiq-shop.com

Mechanical drawing

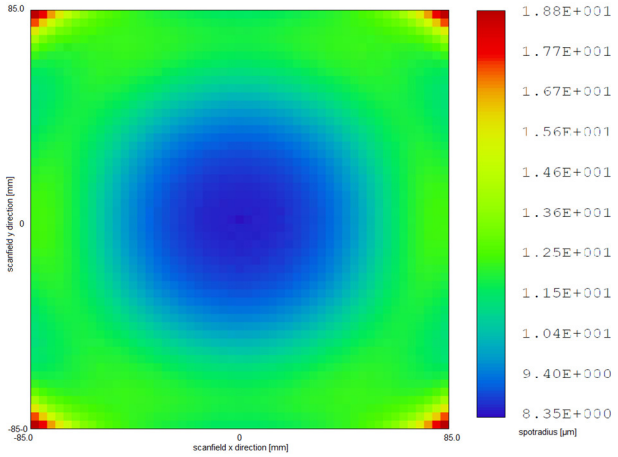


Dimensions without tolerances are nominal values and illustration not to scale

Spot variation over scanfield

Spot radius in µm at 1/e² level for a Gaussian laser beam (M^2=1)
field size and mirror distances as given above for a 2 mirror scan system

10mm diameter at 1/e² truncated



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.

Tel: +49 (0) 551 6935-0
lmp@excelitas.com
www.qioptiq-shop.com