

LINOS F-Theta-Ronar Lenses 515-540/532 nm



LINOS F-Theta-Ronar telecentric lens for 515-540 nm, focal length 100 mm

- Fused-silica and optical-glass designs
- Telecentric versions available
- Focal lengths ranging from 100 mm to 420 mm, tolerance $\pm 1\%$
- Screw thread M85x1 except 4401-605-000-26 M85x1/ M110x1
- Transmission $\geq 96\%$ with good performance in VIS-range
- Laser damage threshold coating for fused-silica lenses up to 20 J/cm^2 at 532 nm, 8 ns, 100 Hz and up to 0.6 J/cm^2 at 515 nm, 204 fs, 50 kHz
- Laser damage threshold coating for optical-glass lenses up to 10 J/cm^2 at 532 nm, 6 ns, 100 Hz
- Low absorption coating for fused-silica lenses $\leq 30 \text{ ppm}$ at 532 nm
- Includes interchangeable protective glasses
- Dust-tight on the output side inclusive protective glass according to the criteria of IP6X
- All lenses can be used with enlarged beam diameters and various mirror distances. Scan fields and spot size diameters will change accordingly. Please contact us to discuss your specific requirements.

16

LINOS F-Theta-Ronar 515-540 nm, Fused-Silica, Low Absorption

Nominal focal length (mm)	Scan field (mm ²)	Max. scan angle $\pm\Theta_{x,y}$ (°)	Beam diameter truncated at $1/e^2$ (mm)	Spot diameter at $1/e^2$ (μm)	Mirror distances m1/m2 (mm)	Working distance (mm)	Protective glass	Part No.
75 telecentric	24 x 24	± 9.5	14	5	17/24	85.8	PG28	4401-599-000-26
100 telecentric	43 x 43	± 12.2	14	9	17/28	138.5	PG13	4401-547-000-26
114 telecentric	65 x 65	± 17.0	10	11	13/28	144.5	PG13	4401-608-000-26
160	83 x 83	± 15.2	14	12	17/23	215.8	PG13	4401-587-000-26
167 telecentric	86 x 86	± 15.4	14	12	17/33	215.5	PG21	4401-517-000-26
250 telecentric	69 x 69	± 8.0	14	17	17/40	374.6	PG21	4401-616-000-26
255	183 x 183	± 20.9	10	25	13/25	318.1	PG13	4401-496-000-26
265	133 x 133	± 14.7	20	13	25/32	346.9	PG21	4401-605-000-26
420	251 x 251	± 17.1	14	29	17/24	498.6	PG13	4401-590-000-26

LINOS F-Theta-Ronar 532 nm, Optical-Glass

Nominal focal length (mm)	Scan field (mm ²)	Max. scan angle $\pm\Theta_{x,y}$ (°)	Beam diameter truncated at $1/e^2$ (mm)	Spot diameter at $1/e^2$ (μm)	Mirror distances m1/m2 (mm)	Working distance (mm)	Protective glass	Part No.
100	58 x 58	± 17.7	6	15	16/12	90.8	PG8	4401-304-000-21
100 telecentric	53 x 53	± 15.7	14	7	17/36	126.6	PG7	4401-461-000-21
160	98 x 98	± 17.7	10	16	16/12	176.1	PG8	4401-305-000-21
250	154 x 154	± 17.7	20	12	22/24	288.5	PG7	4401-289-000-20
330	204 x 204	± 17.7	14	23	18/24	389.0	PG7	4401-485-000-21
420	275 x 275	± 18.7	15	27	17/28	494.6	PG7	4401-489-000-21