

# LINOS F-Theta-Ronar Lenses 340-360 nm



LINOS F-Theta-Ronar telecentric lens for 355 nm, focal length 167 mm

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- Fused-silica designs
- Telecentric versions available
- Focal lengths ranging from 70 mm to 255 mm, tolerance  $\pm 1\%$
- Screw thread M85x1
- 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.
- Transmission  $\geq 96\%$  with good performance in VIS-range
- Angle-optimized coatings
- Laser damage threshold coating up to  $4 \text{ J/cm}^2$  at 355 nm, 6 ns, 100 Hz
- Includes interchangeable fused-silica protective glasses
- Dust-tight on the output side inclusive protective glass according to the criteria of IP6X

## LINOS F-Theta-Ronar 340-360 nm, Fused-Silica

Nominal focal length (mm)	Scan field (mm <sup>2</sup> )	Max. scan angle $\pm\Theta_{x,y}$ (°)	Beam diameter truncated at $1/e^2$ (mm)	Spot diameter at $1/e^2$ ( $\mu\text{m}$ )	Mirror distances m1/m2 (mm)	Working distance (mm)	Protective glass	Part No.
70 telecentric	28 x 28	$\pm 11.3$	10	5	13/19	92.5	PG4	4401-576-000-21
100 telecentric	46 x 46	$\pm 12.7$	10	7	13/29	136.7	PG11	4401-509-000-21
160	98 x 98	$\pm 17.7$	7	15	9/16	197.4	PG4	4401-399-000-21
167 telecentric	65 x 65	$\pm 11.3$	10	13	13/48	255.0	PG15	4401-511-000-21
255	170 x 170	$\pm 19.3$	10	17	13/30	318.1	PG11	4401-481-000-21

## High quality

### Fused-silica lenses

Qioptiq has developed a range of sophisticated F-Theta-Ronar scan lenses made of specially selected fused-silica for high-power and short-pulse laser material processing. Fused-silica lenses provide minimized thermal focus shift and higher resistance when working at high power density. A specially developed coating achieves very low reflection and absorption values.