

Prototype Optics in One Week

What can you get done in a week?

Custom optics of the highest quality that meet the following tolerances and conditions.

Can we do more?

Yes we can. We can do larger sizes and tighter tolerances, just let us know what you are looking for and contact sales@optimaxsi.com.

Attribute	Commercial	Precision	High Precision
Glass Material (n_d, v_d)	$\pm 0.001, \pm 0.8\%$	$\pm 0.0005, \pm 0.5\%$	Melt Rebalanced & Controlled
Diameter (mm)	+0.000/-0.100	+0.000/-0.025	+0.000/-0.010
Center Thickness (mm)	± 0.150	± 0.050	± 0.020
Sag (mm)	± 0.050	± 0.025	± 0.010
Clear Aperture	80%	90%	90%
Radius (larger of two)	$\pm 0.2\%$ or 5 fr	$\pm 0.1\%$ or 3 fr	$\pm 0.025\%$ or 1 fr
Irregularity - Interferometer (waves, PV)	1	0.25	0.05
Irregularity - Profilometer (microns, PV)	± 2	± 0.5	N/A
Irregularity - CMM (microns, PV)	± 5	± 1	N/A
Wedge Lens (ETD, mm)	0.050	0.010	0.005
Scratch Dig (ISO 10110-7:2017)*	80-50	60-40	10-5
Surface Roughness (\AA RMS)	20	10	5
AR Coating (R_{Ave})	$\text{MgF}_2 R < 1.5\%$	V-coat $R < 0.2\%$	Custom Design

*Default Reference Artifact EO N53-197

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