

# 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. Contact [sales@optimaxsi.com](mailto:sales@optimaxsi.com) for more information.

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)	$\pm 0.150$	$\pm 0.050$	$\pm 0.020$
Sag (mm)	$\pm 0.050$	$\pm 0.025$	$\pm 0.010$
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)	$\pm 2$	$\pm 0.5$	N/A
Irregularity - CMM (microns, PV)	$\pm 5$	$\pm 1$	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 ( $\text{\AA}$ RMS)	20	10	5
AR Coating ( $R_{Ave}$ )	$MgF_2 R < 1.5\%$	V-coat $R < 0.2\%$	Custom Design

\*Default Reference Artifact EO N53-197

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