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**Our World is Flat**  
Custom flat optics for precision applications

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### Wafer-Scale Micro-Optics Fulfill Promise

Early inventions in the field of planar diffractive and refractive micro-optics date back more than a century.

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### Tiny Camera Takes a Wide View

A new imager achieves the optical performance of a traditional wide-angle or fish-eye lens – and in high resolution – but in a device less than one-tenth the volume. Such a system could enable high-resolution imaging in unmanned aerial microvehicles, or smartphone photos more comparable to those from a full-size single-lens reflex (SLR) camera.

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### FEATURED VIDEO



#### Take the Sydor Optics Tour

Manufacturing precision, flat-surfaced, parallel and wedged optics and specializing in double-sided grinding and polishing for over 40 years. Products include: beamsplitters, color filters, debris shields, glass wafers, grating substrates, light pipes, light-weighted substrates, mirrors, optical flats, wedges, and windows in addition to laser optics and laser machining.

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### Cost effectively achieving exceptional transmitted wavefront and parallelism on flat optics

Because it can process multiple parts simultaneously, the double-side process is the most cost-effective way to achieve flat, parallel parts that require exceptional transmitted wavefront and very low wedge (<1 arc s). The process is ideal for OEMs, coating companies, instrument manufacturers and wafer-based processing labs to create optics in sizes to 740 mm in diameter and 0.150 mm thickness, in quantities to over 10,000 pieces per month.

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### Faster Mold Coating Tests Make Glass Processing More Efficient

Bypassing the time-consuming wear stages of heating and cooling allows quick testing of mold coating lifetimes while increasing efficiency for precision glass molding.

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### Transparent Ceramics Find Wide Use in Optics

Polycrystalline ceramics with the cubic spinel structure enable multiple defense applications, including night-vision goggles and IR optics for military systems such as domes, lenses, reconnaissance and sensor windows - they also have applications in nonmilitary arenas such as semiconductor processing, oil and gas drilling, medical optics and lasers.

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### Our World is Flat

Are flat optics critical to your delivery of world-class technology? Welcome to our world.

- Double-side grinding and polishing
- Pitch polishing
- Ultrasonic cleaning
- CNC machining
- Laser machining

**SYDOR** OPTICS

For more information visit [sydor.com](http://sydor.com) or call 585.271.7300.

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