



NEWSLETTER – Q1 2018

COME VISIT US!

BiOS:

January 27-28, 2018

Booth 8321

Moscone Ctr W. Hall

Photonics-West:

Jan 30-Feb 1, 2018

Booth 123

Moscone Ctr S. Hall

With the beginning of 2018, **Holo/Or** invites you to meet us at the upcoming **Photonics West** and **BiOS** exhibitions in California.

We will be introducing several new products, including: *DOE tuner module* for fine-tuning of the output spot, a new *Diffraction Axicon* element which is insensitive to misalignments and *transmissive imaging masks* for use with high-power laser systems.

Feel free to consult our experienced application engineers, who can help you find the best solution for your beam shaping needs.

What's New?

Large wafer manufacturing capability

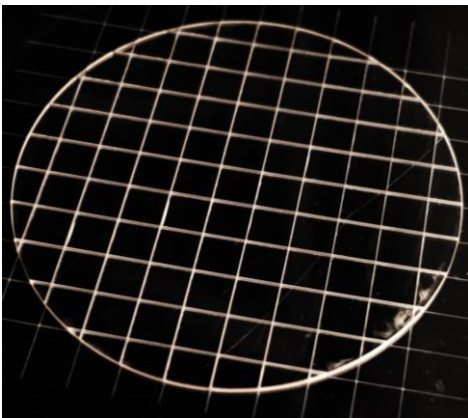
As part of our continuing efforts to improve the quality of our products, **Holo/Or** has upgraded its production facilities. This process included refurbishing as well as the installation of new machines.

We now have the capability of manufacturing our DOEs on 150mm wafers, thus increasing our volume capacity and further reducing costs for large quantities.

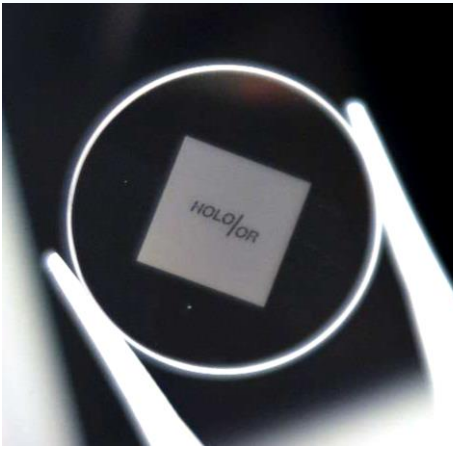
New Products

Polymer-on Glass DOE

For many applications, the extremely high laser damage threshold of Fused silica DOE is overkill, resulting in high costs without offsetting returns. For mid-power range applications, Holo/Or has developed a new polymer-on-glass DOE production capability. We can now offer lower cost DOE at volumes of 100-10000 units at wavelengths from 450-1080nm, with short lead times. These are based on glass-like polymers with relatively high laser damage thresholds and excellent temperature and environmental stability.



A 150mm Fused Silica wafer cut into 69 14mmX14mm parts



Transmissive mask for high-power laser systems

Top-Hat beam shaper elements with large angles

Many applications such as wafer inspection, spectrometry and cytometry, require projection of a large angle square, round or line shape with flat-top energy. **Holo/Or** has extended this product category, offering large Top hat beam shapers with angles of up to 10°. These products are available for all wavelengths and can be customized for desired beam and aperture sizes. [Visit our Top Hat page](#)

Contact Us



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Applications

Multi-line product family for machine vision

Machine vision has become a common technique for 3D object detection, which requires scanning of a surface by a laser beam.

Using a Multi-Line element is an efficient and rapid way of surface recognition by projecting many lines on the scanning surface simultaneously.

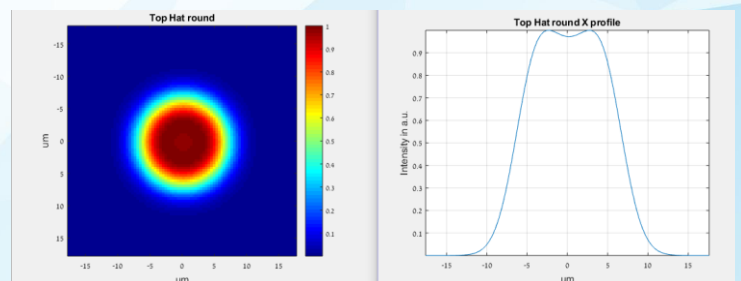
Holo/Or is offering a new product family of [Multi-Line beam shapers](#), with up to 81 lines in semi standard elements.



Technical Tips

Free simulation tool – P-Code for Top-Hat Simulations

Holo/Or offers a beam-shaper integration tool for MATLAB (P-code). This free of charge service provides intensity distribution for any beam shaper, including the effects of tolerances. The designer is free to choose the wavelength, input diameter, spot size and working distance of their preference and can check the effects of parameters variations on the output. Click [here](#) to download it directly or contact us for more information.



Output images from our free P-Code tool