NEWSLETTER - Q1 2019

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Announcements

HOLO/OR IS EXCITED AND PROUD TO BE CELEBRATING OUR 30 YEAR ANNIVERSARY!

We wish to thank all our partners for the long lasting relationships we've built together. We couldn't have done this without you.

Thank you for challenging us every day. You oblige and enable us to continue innovation and development, in order to provide you with the best possible solutions.

At the dawn of the new year, we invite you to meet us at the upcoming SPIE Photonics West and BiOS exhibitions in California.

During these upcoming exhibitions, **Holo/Or** will be introducing several new products, including:

- **Germanium broadband beam shapers** for the 2-12um range;
- and our new series of low-cost **Mid-Power Broadband Diffusers** for light projection and aesthetic applications.

Our experienced application engineers will available for a free consultation on your project, and will help you find the best solution for your beam shaping needs.
Sign Up to schedule a meeting!

SPIE. PHOTONICS WEST BIOS

COME VISIT US!

BIOS Exhibition:
February 2-3, 2019
Booth #8343
Moscone Centre,
San Francisco

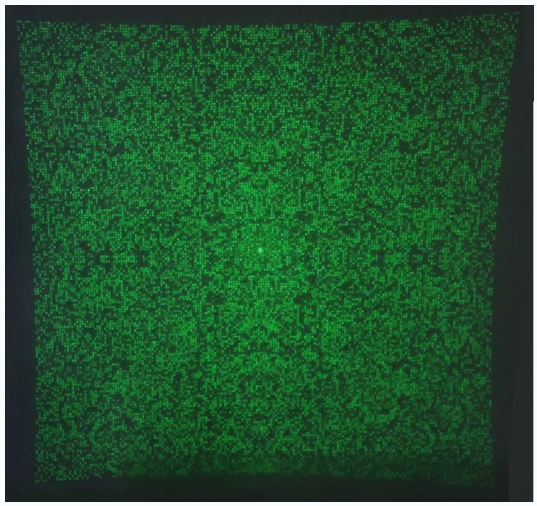
Photonics-West exhibition:
February 5-7, 2019
Booth #343
Moscone Centre,
San Francisco

What's New?

Structured light DOE

Holo/Or is happy to launch a brand new product line.
By upgrading our production facilities, **Holo/Or** now offers **high-angle, high-quality, high-efficiency** Beam Shapers and Beam Splitters DOE, specialy designed to cover a large field of view, for applications ranging from 10s of KW to a few mW.

Our DOE are made of either UV-grade Fused Silica, polymer on glass or plastic.
Typical applications include structured light 3D sensing, heat treatments and light projection.



Specification Range:

Material		UV grade fused silica, Polycarbonate (plastic) or Polymer on Glass
Full angle @850nm		Up to 80°x80°
Possible patterns	Multispot (Dot/line Generator)	Random spots, spots array (1xM), spot matrix (MxN), multi lines, grid
	Diffuser (Homogenizer)	Circle, Square, Rectangle, Line, Custom
Zero Order		Angle dependent, can be optimized for eye-safety
Wavelengths		266-2200nm

Read more here!

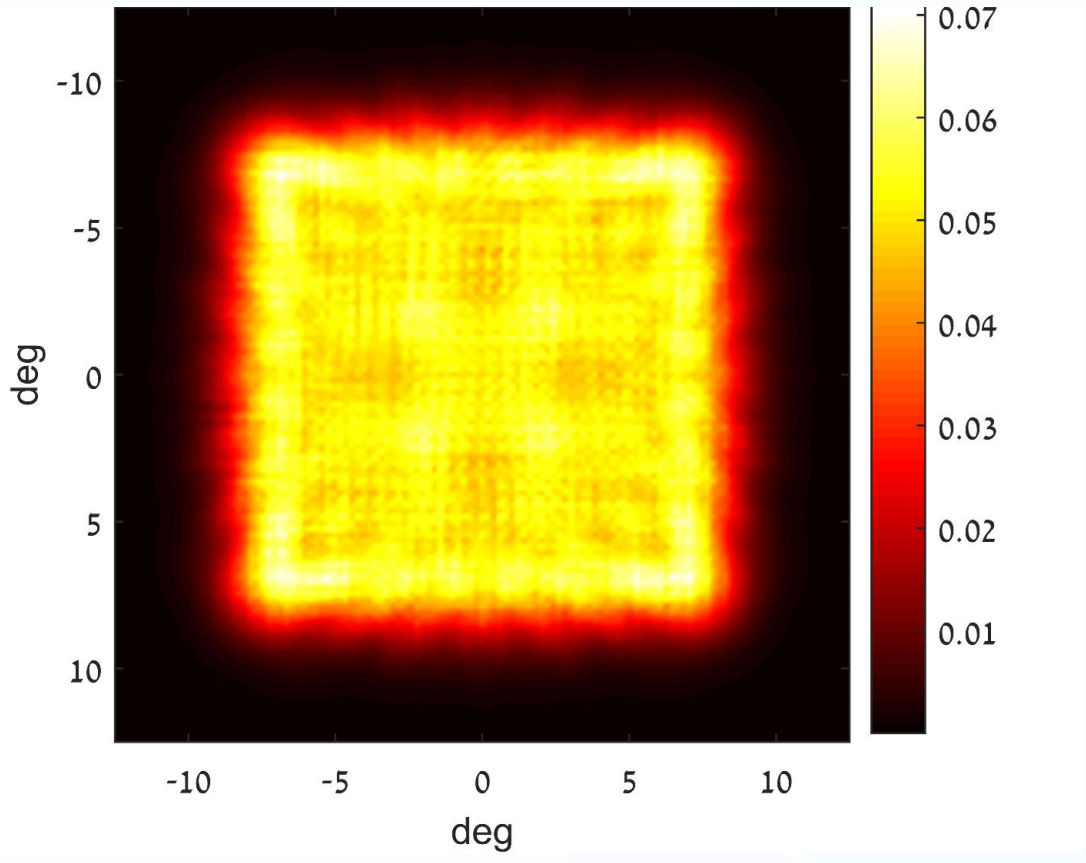
New Products

Medium Power Low-Cost Broadband Diffuser (BD)

BD are special beam shaping flat-top diffusers, dedicated to applications where more than a single wavelength is used in same optical path.

Holo/Or designs & manufactures low-cost BD diffusers suitable for mid-power applications (under 2 [J/cm^2] for nano-second pulses).

These BD elements have **excellent thermal & environmental properties**, similar to our etched fused silica products, and the same **high-end optical performance**, at a significantly reduced cost. Read more.



Output intensity for a square BD element, 10X10 degrees

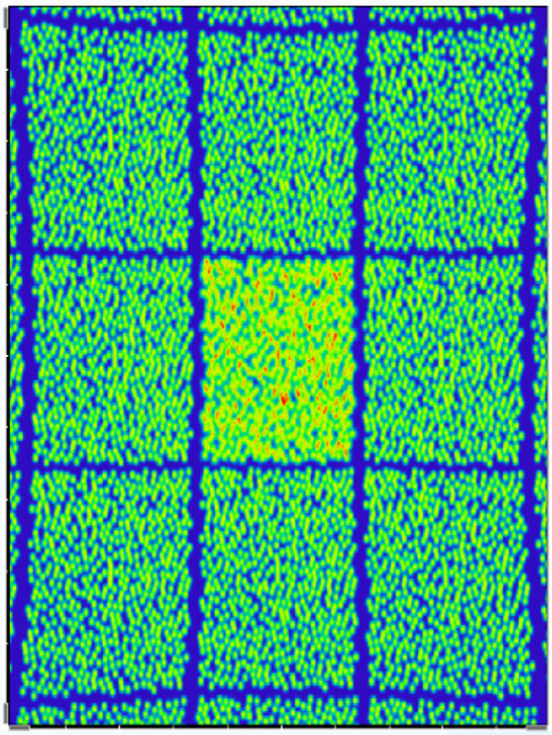
Germanium Beam Shapers for mid to far IR broadband applications

Germanium (Ge) broadband beam shapers, can shape single mode lasers at wavelengths in the Mid-IR spectrum to achieve **uniform illumination profiles** in various shapes including: square, round, line or rectangular.
Ideal for **MIR/FIR spectroscopy** and other projection applications where broad-band MIR sources are used, our **single window beam shapers offer diffraction limited shaping performance** in the entire 2-12 um spectral range. Read more.
Contact Us for more details

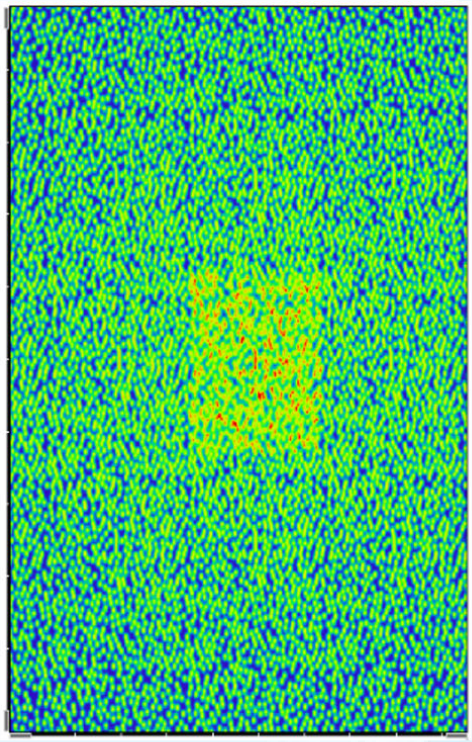
Applications

Using Multispot DOE to replicate VCSEL patterns for 3D sensing, Volume Mapping and Machine Vision applications

Many of the latest 3D Mapping and sensing application are using VCSEL chips with custom emitter arrangement as sources for structured light sensing technologies.
These applications benefit from the high spots density over the entire FOV.



Incorrect VCSEL stitching with gaps



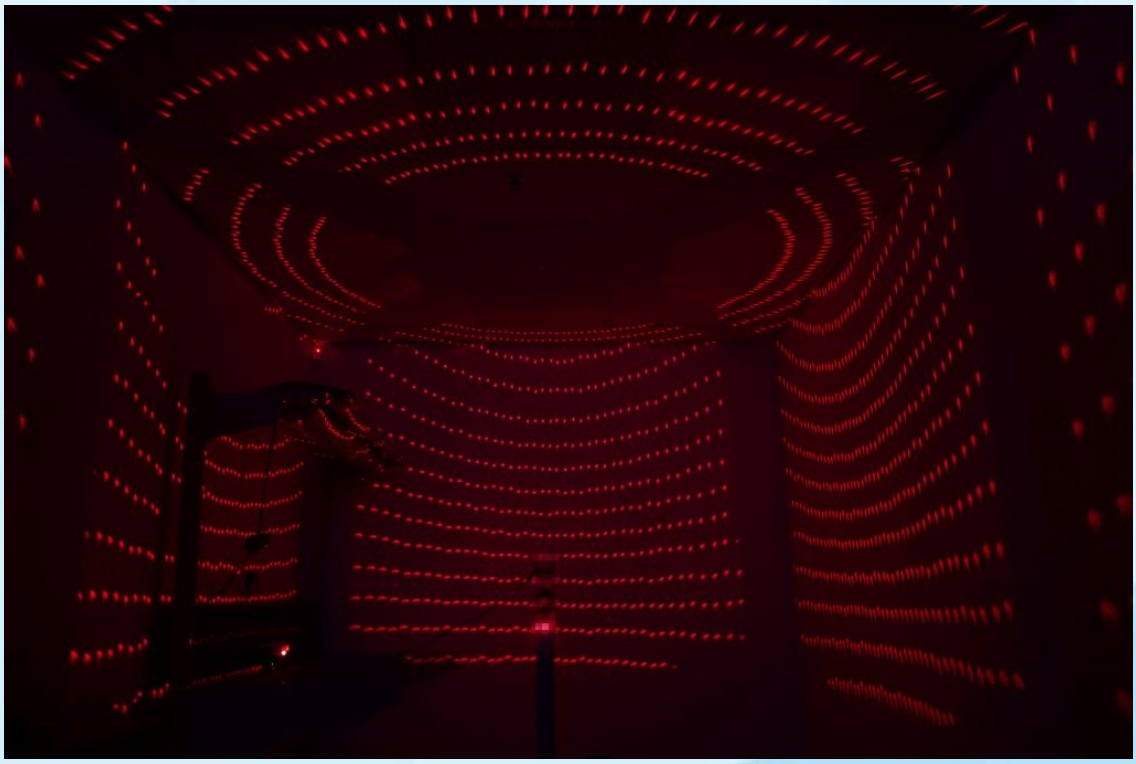
Correct VCSEL stitching without overlaps or gaps

Designing specially tailored DOE, we at **Holo/Or** can tile the FOV with a VCSEL pattern by replicating it without any overlaps or gaps, resulting in **a pattern containing thousands of spots at either a random or**

custom distribution. Read more here.
Contact us for more details

Full surround Projection Module

360 degrees of pattern projection projection are now at your fingertips with **Holo/Or**'s latest projection module.
Our module can project dots or lines pattern at 360x70 degrees Field of view, with **No Zero Order at all!**
Completely eye-safe, high thermal resistance, and providing a full mapping all around, our module is a perfect match for autonomous vehicles, enclosed space mapping and other structured light applications.
Read More Here



Contact Us

HOLO/OR A VISION OF EXCELLENCE

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