

# Shack-Hartmann Arrays – Tech Brief



## Microlens arrays are the key element in Shack Hartmann Sensors

The quality of a Shack Hartmann Sensor is directly related to the excellence of the microlens arrays. SÜSS MicroOptics is the leading supplier worldwide of microlens arrays for Shack Hartmann Sensors, with the highest ranking in lens array uniformity and beam-pointing accuracy.

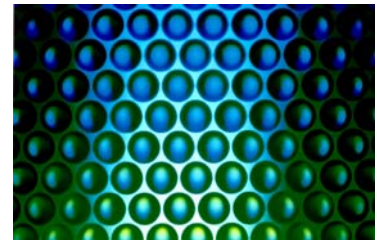
### Microlens Array Features

- 2D Microlens Arrays
- Highest quality and precision
- Bulk material: Fused Silica, Silicon, Borofloat
- Wavelength range: DUV (193nm) to IR (5um)
- Lens profiles: Plano-convex, bi-convex, spheres, aspheres
- Additional features: Apertures, pinholes, alignment marks
- Circular and square lens shape



### A large selection of standard arrays available off-the-shelf

- Pitches 100um, 110um, 130um, 150um, 250um, 650um on stock
- Array sizes available from 5x5mm<sup>2</sup> to 120x120mm<sup>2</sup>
- Focal lengths from some microns to >100mm



### Tailor-made customized arrays

Customized Shack-Hartmann Arrays (pitch or lens diameter variations, focal point shaping) or modification of our standard Shack-Hartmann Arrays (AR-coatings, apertures, pinholes etc.) with short delivery time.

### Our references

SÜSS MicroOptics is the preferred supplier for more than 20 companies using our Shack-Hartmann Arrays for very challenging applications in metrology, ophthalmology, adaptive optics and laser tracking. Our wafer-based manufacturing technology (8") results in precisely controlled lens profiles and high lens uniformity, enabling us to provide outstanding quality for very competitive prices.

Simply send us your requirements, and we will find the appropriate solution.

### Our MicroOptics Set the Standards: Shouldn't your sensors do the same?

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