

## **Custom Optics for Next-Gen Products**

Himax IGI's NanoSculpt™ technology enables innovative multi-dimensional optics. Break through current design rules to offer your customers leading-edge products.

Micro-Lens

Collimation and Focusing

Mixed Structures & Sizes

- &

100% Fill

Aspherical & Anamorphic Lens

Micro-Mirror

Hexagonal & Square Packing

Vary Rotation by Position in Pattern

Arrays

Parabolic Designs

Freeform & Random Diffusers

Gratings

Linear

Blazed

Slanted

Diffractive

Waveguides

Refractive

Multi-Level Diffractive Optic Elements

Facial Recognition

AR/VR

Other Applications

Masters, stamps, molds, and shims for R&D, prototypes, and all levels of manufacturing.

Photoresist Masters
Nickel Shims
Silicon Etched Masters & Parts
Soft Molds

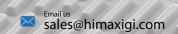
Wafer-Level Optics from design to assembly &

Continuous Pattern Areas up to 700mm





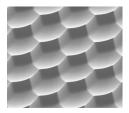




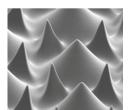




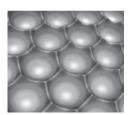
## NanoSculpt™ Capabilities



**Rotated Lens** 



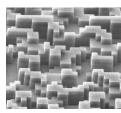
Mixed Features



100% Fill



Random Diffuser



Multi-Layer DOE

## Industries We Serve

Display Semiconductor Defense Solar Lidar Optical Assembly Life Sciences Bio-Technology

Masters, stamps, molds, and shims for R&D, prototypes, and all levels of manufacturing.

Photoresist Masters
Nickel Shims
Silicon Etched Masters & Parts
Soft Molds

Substrate Size

Minimum Structure Size

Structure Height

Surface Roughness

Nominal Shape Tolerance

Patterned Area

Nano-Structure Mastering

200 mm

5 nm

up to 5 um

<5 nm

Structure Dependent

Structure Dependent

Micro-Structure Mastering

up to 800mm x 960mm

0.8 um

up to 100 um

<20 nm

<250 nm

up to 600mm x 800mm

Disclaimer of Warranties; As Is

The information provided in this document is provided "As Is" and Himax IGI Precision Ltd. disclaims all representations or warranties of any kind, express or implied, relating to this document and the concepts or products described herein, including without limitation, the implied warranties of merchantability, fitness for a particular purpose, non-infringement, title, or any warranties arising out of course of dealing, course of performance, or usage of trade. Users of this document shall confirm suitability of the concepts in any products or applications in which this information is adopted for use and are solely responsible for all legal, regulatory, and safety-related requirements concerning their products and applications and any use of the concepts or products described herein in any such product or applications.





