

High volume production for Augmented Reality

Enabling cost-effective mass manufacturing of AR waveguides



Achieving high-volume at low cost

Cost-effective manufacturing of AR waveguides with multiple waveguides on one large substrate, up to Gen5 (1100*1300 mm²) with short cycle time.

Robust manufacturing process

High fidelity replication of complex textures using our proprietary flex stamp with ensured dimensional stability (<20 picometer variation in track-pitch).

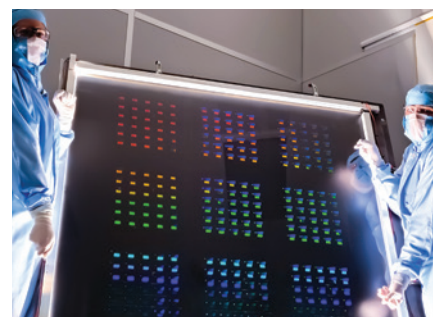
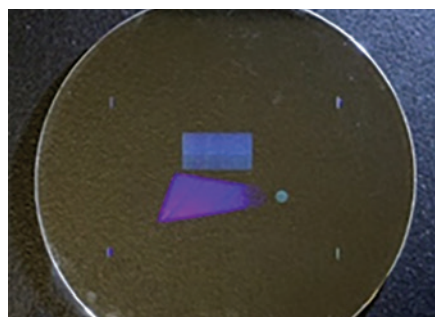
Design freedom for variety of gratings

Binary, blazed & slanted gratings can be precisely imprinted on large areas through our nanoimprinting technology with high outcoupling efficiency.

High refractive index materials

We offer solvent-free imprint materials with refractive index of 1.7 to 1.9 to enable large fields of view.

Based on the results of work conducted with partners & published at SPIE AR/VR/MR 2022 & 2023



Any optics, any display, any size

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MORPHOTONICS
Nanoimprint technologies