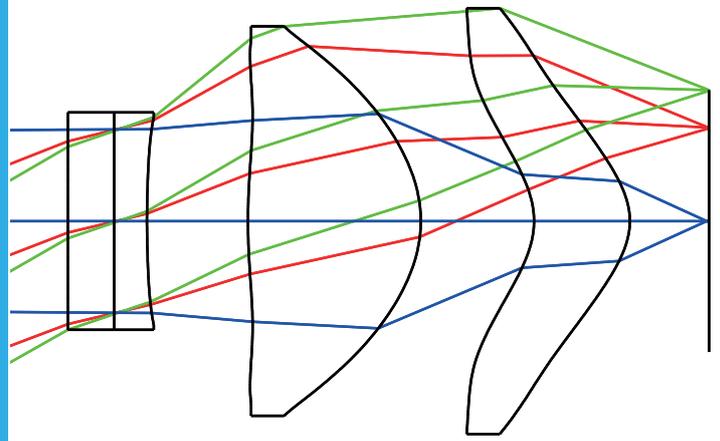


printoptix

OPTICAL DESIGN & SIMULATION

We develop powerful ray-optical and wave-optical designs to reach your most demanding specifications



Utilizing all modes of light manipulation

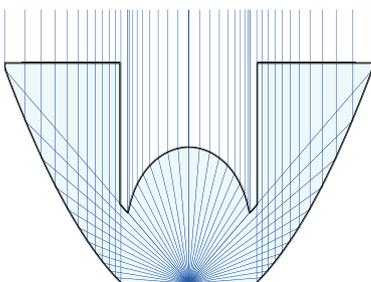
We design complex systems leveraging refraction, diffraction, reflection, absorption, polarization, or any combination of them in hybrid optical systems.

Using the appropriate methods for the problem

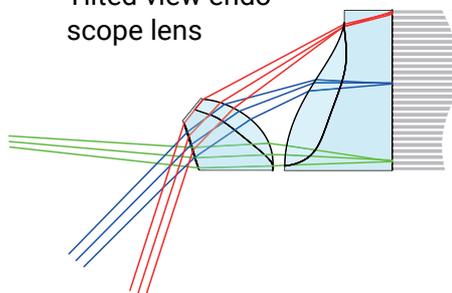
- Sequential or non-sequential raytracing
- Angular spectrum propagation
- Scalar 3D wave propagation
- Rigorous simulation (FDTD, FEM)

Design examples

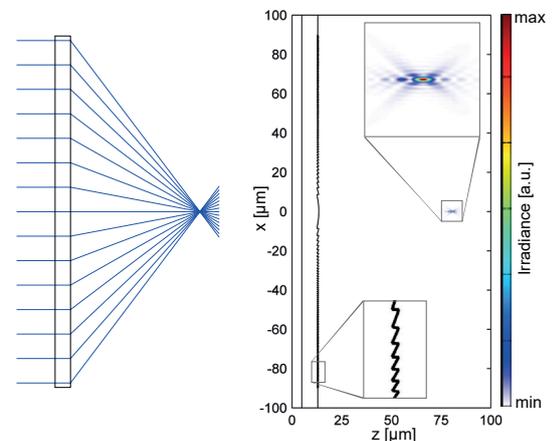
TIR concentrator



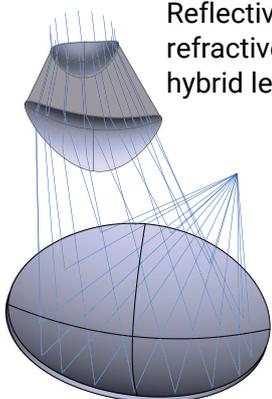
Tilted view endoscope lens



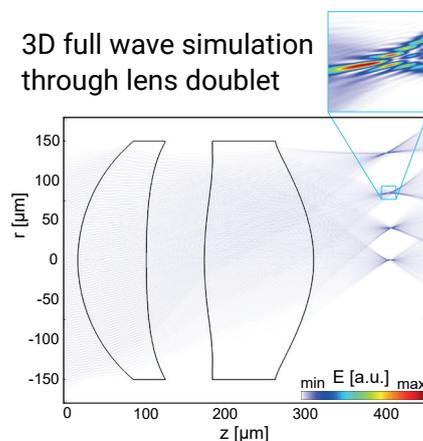
Flat lens / metalens



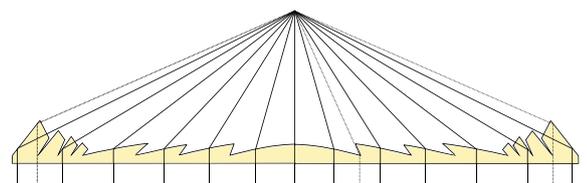
Reflective-refractive hybrid lens



3D full wave simulation through lens doublet



Fresnel-TIR hybrid lens



RAPID PROTOTYPING

From the idea to a working prototype within days



Fast iteration cycles

Test your designs quickly and profit from our direct manufacturing method without post-processing or tooling.

Direct measurement and in-house testing

We characterize your prototypes with our in-house tools to save time and effort on your end.

Key Features



Possibility to get your parts fabricated, tested, and shipped within days.



PhD level expert support with deep optical and technological knowledge.



Special process tweaks to make the impossible possible.



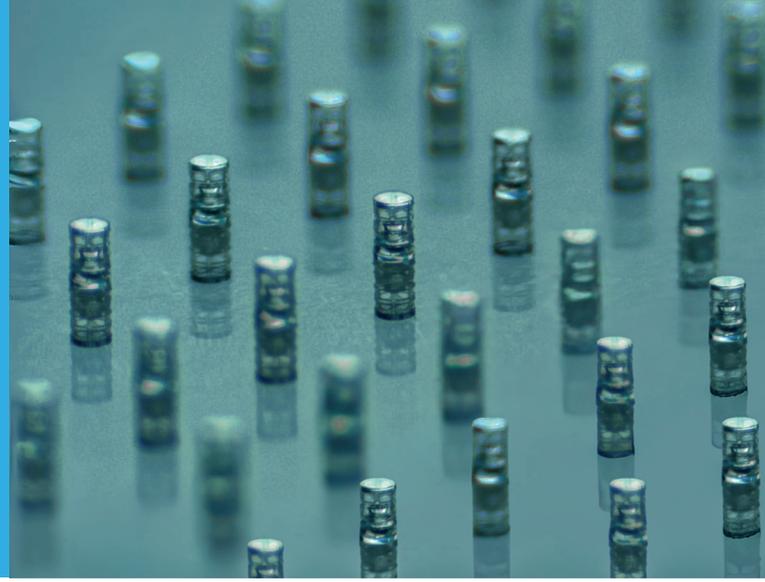
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SERIES PRODUCTION

Complex micro-optical components from lot size 1 to millions of parts



Throughput optimizations

We optimize fabrication speed and efficiency of all parts through extensive process know-how and proprietary process tweaks.

Fabrication and quality control

Fabrication takes place in an environment-controlled ISO5 clean room. Parts are being qualified through shape, surface, and optical performance measurements.

Key Features



Thousands to millions of 3D-printed parts.



Aligned and fully automated fabrication on the wafer scale up to 150 x 150 mm².



Sophisticated quality control adapted to your requirements.



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