

## **SMART Manufacturing of polymer optics**

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Addoptics is a optics manufacturer that reduces the delivery time for custom optics in small series from 6 weeks to 6 days by means of an unique concept using innovative 3D printing technology. Addoptics provides custom optics to industries such as lighting, automotive, and machine vision.

The manufacturing of prototype and low quantities of optics remains troublesome. The state-of-art solutions require compromises, and can become very costly. The typical solution is to either use sub-optimal catalog parts limiting the performance or go straight to volume-production via the injection molding of optics with high risk due to long lead-times and significant upfront investments.

Addoptics introduces the SMART manufacturing of optics. A custom developed fabrication process combining high precision 3D inkjet printing and a casting process.

The Addoptics process, can convert a digital design (CAD) into a physical prototype within 6 days. Offering the flexibility of 3D printing, that allows for the creation of high complex or even computer generated elements, and the quality of conventional casting, using very clear, temperature resistant & UV-stable materials. Together these technologies allow for a fast and scalable solution for the production of custom and especially freeform optics.