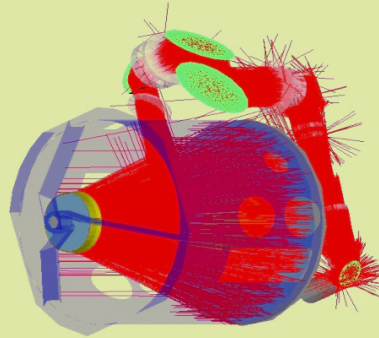
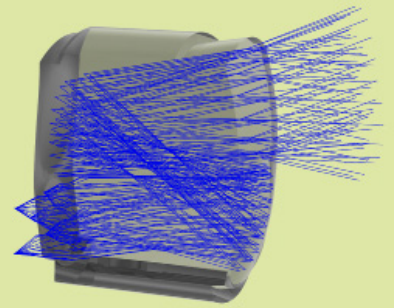


1



2



3

- 1 *OLED ocular with integrated eye tracking system.*
- 2 *Analysis of scatter and stray light at a Cassegrain telescope.*
- 3 *Monolithic freeform objective in IR.*

DESIGN OF OPTICAL COMPONENTS AND SYSTEMS

Fraunhofer Institute for Applied Optics and Precision Engineering IOF

Albert-Einstein-Straße 7
07745 Jena

Director
Prof. Dr. Andreas Tünnermann

Head of Business Unit Photonic Sensors and Measuring Systems
Prof. Dr. Gunther Notni

Contact
Uwe Lippmann
Phone +49 3641 807-249
uwe.lippmann@iof.fraunhofer.de

www.iof.fraunhofer.com

Optical design – our competences

- Conception of complex and specially adapted optical systems and system developments
- Design and assessment
- Simulation of optical functions
- Raytracing
- Spectral regions: EUV – VIS – IR – THz
- Propagation of ultrashort pulses
- Analysis of scatter and stray light
- Tolerancing
- Freeform design for nonrotational symmetric systems

Optical design software

Design, simulation and analysis of optical components and systems utilizing the software programs:

- ZEMAX, OSLO, ASAP, FRED
- Extension of functionality with custom-made modules if required

Applications

- Projection lenses
- Camera lenses
- Illumination systems
- Head-up systems
- Head-mounted displays
- Sensors
- Ophthalmological devices
- Physiological optics
- Telescopes
- Measuring systems
- Optical systems with microdisplays, sensor devices

and much more ...

Our Offer

- Feasibility study
- Prototype assembly, production
- Functional test and assessment
- System integration