

FRAUNHOFER INSTITUTE FOR APPLIED OPTICS AND PRECISION ENGINEERING IOF



- 1 Monolithic freeform lens design for night vision devices.
- 2 Manufactured demonstrator.

OPTICAL SYSTEM DEVELOPMENT FROM THE IDEA TO PROTOTYPE

The Fraunhofer IOF offers you the entire development of optical systems from one source. You have a contact person who will accompany you from your idea to the prototype or to system integration. The Fraunhofer IOF coordinates and ensures the processing of all individual areas through its excellent experts.

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System conception	 Development of optimized solutions meeting the economic boundary conditions
Optical design	Imaging and non-imaging opticsStandard and diffractive optical components
System analysis	Simulation of optical components and assembliesStray light analysis
Tolerancing	Component tolerancesAlignment tolerances
Mechanical	■ Functional modules
construction	Adjustment strategies, tools, and machines
Mechanical	■ Thermal analysis
simulation	■ Stress and deformation analysis
Prototype manufactu-	■ Assembly and test
ring, assembly, and test	Measurement of key parameters
System integration	Support with integration in final productTransfer to production