





Optics & Photonics from Jena
Location for the advanced.

OPTICS & PHOTONICS FROM JENA

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Optics and Photonics from the City of Light Jena











The City of Light Jena is an internationally respected centre for optics and photonics. Global players such as ZEISS, Jenoptik and SCHOTT and renowned research institutions of the Leibniz Association as well as the Fraunhofer and Max Planck Societies are based here. Over 100 companies and facilities with more than 1,000 scientists and developers work in the field of optical technologies, creating individual solutions for demanding clients. The knowledge of Jena's experts is in demand around the world.

The great traditional location in Europe ...

Jena's most renowned success story began more than 150 years ago. Carl Zeiss, Ernst Abbe and later also Otto Schott – Jena's Big Three – revolutionized the scientifically-based manufacturing process for microscopes. With that the foundation was laid for the internationally renowned corporations ZEISS, Jenoptik and SCHOTT that are successfully operating to this day. They also strengthened another one of Jena's most important traditions: the close connection between university, non-university research facilities and local industry.

The title City of Light is synonymous for everything Jena radiates beyond its city limits: the first-class scientific facilities, the world-renowned high-tech companies as well as young innovative ventures whose very means of success has been light itself; Using light not only as a tool but also as an object for research.

Today the optics and photonics industry in the Jena region includes over 100 companies and numerous university and non-university research facilities with more than 7,000 employees. The export quota is above 65 percent. Many companies and facilities are members of the trade association OptoNet, the photonics network of Thuringia with its headquarters in Jena.

In Jena, photonic fundamental research is concentrated at the Abbe Center of Photonics (ACP) at the Friedrich Schiller University, the Leibniz Institute of Photonic Technology (IPHT) and the Helmholtz Institute Jena (HIJ). Besides the academic education of young-career scientists, current research efforts address ACP's key areas ultra optics, strong field physics and biophotonics. The Fraunhofer Institute of Applied Optics and Precision Engineering IOF and the Leibniz Institute of Photonic Technology (IPHT)

pursue holistic solutions with light to address the important future challenges in the global sectors of energy, mobility, environment, security, health, communication and information technologies. The University of Applied Sciences Jena focuses on application-oriented research in applied optics as well as laser technology and offers study programmes in these areas.

Solutions for highest demands ...

The high-quality products, goods and services from Jena are appreciated worldwide. The range of services includes:

- Optic:
- Refractive and diffractive optics, aspheres and freeformes, prisms, micro-optical systems, glass fibres, cylinder and flat optics, high performance coatings, optics made from glass or plastics, optical gratings
- Photonics
- Laser technology, solid state lasers such as fibre or disc lasers, diode lasers, high-power diode lasers, gas laser, short pulse laser, ultra-short pulse laser, biophotonics, measuring technology
- Application fields
- Life sciences (microscopy, biophotonics), medical engineering (ophthalmology), laser material processing, lighting technology, image processing, measuring and sensor technology, industrial measuring technology, traffic safety, security technology
- Technical glass
 Technical glass for fire-resis
- Technical glass for fire-resistant glazes, safety and security glass, silica glass and calcium fluoride, bullet-proof glazing

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Biophotonics, Microscopy and Ophthalmology Precision, Micro, Nano and Surface Technology

Meet the experts of the optics and photonics industry in the City of Light Jena.