



# your partner

for perfect light

The demands on lighting solutions are continually becoming more specialised and increasingly complex. This requires a partner that is well connected within the industry and in academia.

A partner, who

- is able to handle new technologies.
- reconciles requirements with standards.
- contributes through innovation.
- can speed up design cycles.
- has experience nationally and internationally.
- offers optics design, measuring technology and measuring instruments from a single source.

With its business segments optics design, measuring services and measuring systems sales, opsira is just such a partner. For more than 20 years opsira has stood for quality, innovation and flexibility. Our customers gladly call on the professional expertise of our team of physicists, engineers and technicians. We manufacture and sell our own integrating spheres and detectors, and perform measurements in our six laboratories. As the inventor of the robotic measuring system robogonio, we not only facilitate innovation, but have introduced an innovative product to the market with this robotic system.

**opsira**



## Short Design Cycles and Decision Making Processes

from idea to product with opsira

### lighting

Nearly all notable luminaire manufacturers entrust their development processes to us. Be it for designing optical systems, the selection of light sources, diffuser and reflector materials, or in measuring technology. We have been involved in projects for general, shop, workspace and machine lighting for many years. Stage and film lighting are also part of our portfolio – along with receiving the international Scientific and Engineering Award. For us, the size of the object is irrelevant. We develop miniature optics for coupling with endoscopes as well as reflectors for floodlights with 18 kW capacity. And robogonio handles not only a wide variety of measurements, but also especially difficult ones.

### automotive

Whether head-up display, laser light, fibre optics or interior lighting: Manufacturers and suppliers receive our support during the development and testing of lighting solutions. We operate worldwide as service providers and suppliers. Thus, our robogonio is in use in India and in the US, among other countries. Automated measuring technology for testing complete vehicle fronts or brake lights extending over the entire vehicle rear are among the challenges we face – and likewise robotic measurements of fibre optics and interior operating elements. The robogonio shows its strengths with large and heavy test pieces in particular, where conventional measurement technology reaches its limits.



## Solutions for the Technology of Tomorrow

opsira for your future-oriented requirements

### signal lights

Many manufactures of signal lights trust opsira. For many years now we have been developing robust and standards-compliant illumination systems as well as test units for production control. For airports, railway and traffic light infrastructure we design systems that withstand tough conditions, in particular the most adverse weather conditions. We also design test benches for production control. These test benches are installed in the production halls and are equipped with software clients. Even non-experts can operate them safely and error-free. A precise and robust measuring technology is the basis for all of our test benches and they are usually in operation for decades.

### medical technology

The history of opsira began more than 20 years ago with designing an OR luminaire. Since then, the development and testing of lighting systems, which are subject to stringent standards, are part of our core competencies. End of line test systems are also part of our portfolio. We develop and install them. Subsequently, we maintain and calibrate the test systems. Five of the seven internationally well-recognised manufacturers of medical luminaires trust opsira. Whether we are talking about luminaire fields, colour mixing, focussing at different heights or avoiding certain wavelengths: opsira is always the right partner. Thus, also for horticulture systems, where reflectors and wavelengths are important.



**KUKA**

Official System  
Partner

opsira's official system partnership with KUKA provides  
for support and investment security worldwide

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