PRESS INFORMATION

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Innovative Design of Optical Systems Boosts Industrial Metrology
SwissOptic publishes article on the development and manufacture of customized high-performance optical systems

Image sensors are subject to constant development. As a result, it is now possible to capture images with a resolution of more than 100 megapixels, to produce a few hundred images per second, and to obtain good image signals even in low light conditions. But excellent image sensors alone are not enough to meet the requirements of industrial, image-based measurement systems, 3-D scanners, or machine vision systems. It is necessary that the optical front-end also keeps pace with this development and provides a correspondingly higher performance.

High-resolution sensors require diffraction-limited optics. Standard optics can no longer meet those needs in all applications. Custom optical systems are needed to provide the sensors with enough information to truly benefit from their performance enhancement.

The article "Innovative Design of Optical Systems Boosts Industrial Metrology", published in the current issue of EuroPhotonics magazine (Autumn 2019 edition), explains how to design, manufacture and assemble such a custom high-performance optical system. The following process steps and the specific challenges of each phase are described in detail:

- Optics and mechanics design
- Precision optics manufacturing
- Metrology
- Assembly of the systems

The full article can be found on the EuroPhotonics website:

For further information of the expertise of SwissOptic AG please click here:
https://www.swissoptic.ag/
If you wish a personal contact with the experts of SwissOptic AG, please write a short notice to marketing@berlinerglas.de, and we will provide the contact details.
About the Berliner Glas Group:
The Berliner Glas Group is one of the world’s leading providers of optical key components, assemblies and systems, high-quality technical glass as well as glass touch assemblies. With more than 1,500 employees, the BERLINER GLAS GROUP develops, produces and integrates optics, mechanics and electronics into innovative system solutions for its customers. As OEM partners from concept to volume production, the Berliner Glas Group companies serve innovative customers in various market segments – semiconductor industry, laser and space technology, medical technology, metrology and the display industry.

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