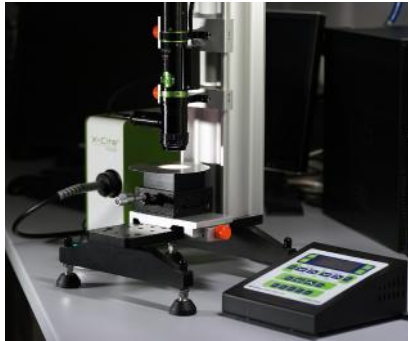


Excelitas Technologies® Introduces Optem® FUSION® Lens System now Enhanced for Shortwave Infrared (SWIR) Sensors

Expanding Machine Vision Capabilities for Industry 4.0 Manufacturing



WALTHAM, Mass., October 30, 2018 – [Excelitas Technologies® Corp.](#), a global technology leader delivering innovative, customized photonic solutions, introduces newly expanded capabilities of its Optem® FUSION® Micro-Inspection Lens System, redesigned to meet the growing need for shortwave infrared (SWIR) sensors that enable the machine vision requirements essential to Industry 4.0 manufacturing. The lens system now provides true polychromatic imaging performance across the key Visible (400nm - 700nm), NIR (700nm - 1100nm) and SWIR (900nm - 1700nm) wavebands.

Spawning from the Qioptiq® optical heritage, Excelitas' new Optem FUSION SWIR lens system leverages field-proven mechanics, flexible optics and modular interchangeability to provide a singular optical platform that addresses the many diverse needs of applications across a wide range of industries – eliminating the complexities, long development cycles and high costs that can be associated with custom imaging solutions.

To provide high performance and versatile SWIR imaging across a large variety of magnifications and working distances, Excelitas adapted and carefully optimized SWIR-compatible components across a select range of its prominent Optem FUSION lens system including:

- Lower objective lenses, with numerous magnifications and working distances
- 7:1 zoom module
- Fixed-magnification system
- Camera tube lenses with a range of magnifications for various sensor sizes and mount types
- Beam splitter for critical coaxial illumination support

Optem FUSION SWIR features various camera tube lenses and supports all SWIR cameras currently available on the market. It can also be adapted to exotic cameras, due to the large number of standard camera adapters available. Zoom and focus operations can be motorized to enable fully automated inspection solutions.

By combining the field-proven visible range performance of Optem FUSION with new capabilities for reaching additional wavebands, the new SWIR lens system enables unique applications involving multiple modalities. The ability to configure a system with simultaneous visible, NIR or SWIR channels provides access to additional information and capabilities that were previously not possible, including hyperspectral imaging and image fusion. Due to the universal concept of the Optem FUSION micro-imaging lens system, optical solutions spanning 400nm to 1700nm with optimized image sensors are now possible for the first time under a single platform, opening entirely new approaches to machine vision demanded by Industry 4.0.

“Machine vision plays a fundamental role in automation systems for Industry 4.0, which will increasingly rely on information from sensors and visual systems to identify product defects, understand the root of their deficiencies and enable real-time effective intervention and



correction,” said Michael Bulk, Application Engineer at Excelitas. “Pushing the classic inspection window beyond the visible wavelength range enables the development of exciting new techniques and applications including new alignment techniques and material identification.”

For more information, visit <http://www.qioptiq.com/optem-fusion-lens>.

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About Excelitas Technologies

Excelitas Technologies® Corp. is a global technology leader focused on delivering innovative, high-performance, market-driven photonic solutions to meet the lighting, detection and optical technology needs of global customers. From biomedical technology to research laboratory, safety and security, consumer products, semiconductor, energy and environment, industrial sensing & imaging, defense and aerospace, Excelitas Technologies is committed to enabling our customers’ success in their end-markets. Excelitas Technologies acquired Qioptiq in 2013 and now has approximately 6,500 employees in North America, Europe and Asia, serving customers across the world. Connect with Excelitas on [Facebook](#), [LinkedIn](#) and [Twitter](#).

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