

Excelitas Technologies Expands Qioptiq mag.x system 125 with Built-in Autofocus

System Simplifies Focusing of Industrial Microscopes in Automated Environments



WALTHAM, Mass, September 30, 2020 – [Excelitas Technologies® Corp.](#), a global technology leader delivering innovative, customized photonic solutions, is expanding its modular, high-performance Qioptiq® [mag.x system 125](#) with the addition of built-in autofocus components. The autofocus capability creates an automated, industrial microscope system for display, PCB, OLED/TFT, wafer and glass inspection, as well as for high-precision, non-contact measuring applications in the machine vision, semiconductor and quality control industries.

The mag.x system 125 is specially developed for use with large sensors (up to 57 mm diagonal) to enable sub-micrometer resolution over large object fields. This unmatched optical performance is achieved with high numerical aperture lenses that feature an exceptionally large exit pupil.

Focusing in an automated environment is simplified by the mag.x system 125 modular, integrated new autofocus solution. Two actuators enable highly-precise focusing in a fraction of a second. The AF base unit couples the laser from an autofocus sensor into the beam path. The autofocus sensor and the actuator constitute a closed-loop system that ensures optimum focus in the object plane. Since no stitching is needed, high-resolution sensors can be used to create significantly shorter tact times without compromising the resolution of the inspection system.

Ina Neumann, Excelitas' Application Engineer, said, "Exact focusing is essential when using very high-resolution microscopy. The new integrated autofocus function offered in our mag.x system 125 provides the precision that is needed in a continuous workflow of an automated environment with a high degree of detailed accuracy. This enhancement is a welcome expansion of the mag.x system 125 product line's capabilities that we're proud to offer our customers."

Excelitas is planning webinars about the correct application of mag.x system 125 and its new autofocus capability. Watch for updates on our website's [events page](#).

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About Excelitas Technologies

Excelitas Technologies® Corp. is a photonics technology leader focused on delivering innovative, high-performance, market-driven solutions to meet the lighting, optronics, detection and optical technology needs of our OEM customers. Serving a vast array of applications across biomedical, scientific, safety, security, consumer products, semiconductor, industrial manufacturing, defense and aerospace sectors, Excelitas stands committed to enabling our



customers' success in their end-markets. Our photonics team consists of 7,000 professionals working across North America, Europe and Asia, to serve customers worldwide. Connect with Excelitas on [Facebook](#), [LinkedIn](#) and [Twitter](#).

Visit <http://www.excelitas.com> for more information.

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