



FOR IMMEDIATE RELEASE:

Excelitas Technologies Launches LINOS Reduced Outgassing UV F-Theta Ronar Lens for the 340 nm-360 nm Wavelength Range

Optimized design delivers minimized outgassing and low spot size variation over the scan field for laser material processing applications



Pittsburgh, Pa., January 13, 2025 – [Excelitas Technologies® Corp.](#), the leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor, aerospace and defense end markets, introduces the [LINOS® Reduced Outgassing UV F-Theta Ronar Lens for the medium focal length range of 252 mm](#). Engineered to complement Excelitas' [LINOS UV Beam Expanders](#), the new LINOS F-Theta lens delivers superior durability compared to conventional products, supporting the higher UV pulse energies and shorter laser pulses required for laser material

processing applications across the semiconductor, wafer processing, electronic display and solar cell fabrication industries.

The lens achieves exceptional durability through a significant reduction in auxiliary materials and a clean assembly process. Its unique UV design incorporates a high-grade fused-silica lens with a high-end broadband lens coating, ensuring excellent optical performance, while minimizing back reflections. Low-outgassing properties are further supported by optimized packaging and dust cap materials. Additionally, Excelitas has refined its production, coating, logistic, warehouse and assembly processes to minimize contamination and protect components throughout the workflow process.

Key specifications and features include:

- **Reduced outgassing:** Advanced design and production methods to deliver low outgassing performance
- **Optimized design:** UV wavelengths and high-end broadband coating between 340 nm and 360 nm
- **Precise scanning performance:** Low spot size variation over the scan field with a maximum scan field of 142 mm² x 142 mm² at 10 mm scanner aperture and a minimum spot size of 11µm at 15 mm scanner aperture
- **Improved handling:** Ability to handle high power and short pulses
- **Long-term optical stability:** Manufactured with cutting-edge technologies to ensure durability and reliability
- **Back reflection optimization:** Minimizes scanner mirror damage and extends lifespan
- **M85x1 mechanical interface:** Facilitates easy integration into a variety of systems

“With its innovative reduced-outgassing design and low spot size variation across the scan field, the LINOS Reduced Outgassing UV F-Theta Ronar Lens redefines optical performance and



reliability in laser material processing. We are excited to add this solution to our LINOS F-Theta-Ronar portfolio,” said Matthias Koppitz, Product Manager at Excelitas.

Excelitas will debut the LINOS Reduced Outgassing UV F-Theta Ronar Lens from January 28-30, 2025 at [SPIE Photonics West](#) in San Francisco, CA in Booth #641. For more information, visit <https://www.excelitas.com/product/linos-uv-f-theta-ronar-lenses-340-360-nm>.

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About Excelitas Technologies

Excelitas is the leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor, aerospace and defense end markets. Headquartered in Pittsburgh, PA, USA, Excelitas is an essential partner in the design, development and manufacture of photonic technologies, offering leading-edge innovation in sensing, detection, imaging, optics and specialty illumination for customers worldwide.

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