



## Excelitas Technologies Expands LINOS F-Theta-Ronar Lens Offering

*New 70mm Telecentric F-Theta-Ronar Lens for 1030-1080nm improves performance in high-power precision laser machining*



WALTHAM, Mass., February 17, 2016 – Qioptiq, an [Excelitas Technologies<sup>®</sup>](#) Company and global technology leader in delivering innovative optical and photonic solutions, introduces the new [LINOS 70mm Telecentric F-Theta-Ronar Lens](#) (part #4401-551-000-21) for 1030-1080nm. This new lens is designed to offer added precision and reliability in high-power laser machining applications.

The new LINOS 70mm Telecentric F-Theta-Ronar Lens features highest-grade fused-silica engineered into precision optomechanics to minimize focus-shift and provide extremely uniform spot quality over the entire scan field due to its telecentric design. The optical design minimizes back reflections of the input beam, significantly reducing the risk of damage to galvo mirrors in the machining system. Optics are treated with a broadband and angle-optimized low-absorption coating, making it suitable for use with a wide variety of lasers and to help ensure long-term optical stability, even under unfavorable ambient conditions.

This new 70mm Telecentric Lens operates at wavelengths from 1030 to 1080nm, with transmission >96%. It handles laser beam diameters up to 14mm, target spot sizes up to 10 $\mu$ m and a scan field of 30x30mm<sup>2</sup>. The lens is designed for use in micro-machining and short pulse (ps/fs) applications, as well as flat panel display, semiconductor and electronics applications. Replaceable quartz protective windows are also available to extend service life.

“The Telecentric LINOS F-Theta Ronar product line meets the most stringent demands in precision laser marking, soldering, microscopic welding and drilling. With a Telecentric design, our F-Theta-Ronar lenses permit extremely small focus diameters, are practically distortion-free, and are ideal for large beam diameters and scanning angles,” said Ian Alcock, Vice President of Excelitas Optics & Laser Technology business unit. “They are well suited for very small, highly precise structures, right down to the micrometer range. The new LINOS 70mm Telecentric F-Theta-Ronar further expands our range of scan lenses to meet growing precision demands from our customers.”

Excelitas’ new LINOS 70mm Telecentric F-Theta-Ronar Lens will be featured at [SPIE Photonics West](#), February 16-18, 2016 in San Francisco, CA (Booth #1323). For more information, visit [our events page](#).

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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, 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 5,500 employees in North America, Europe and Asia, serving customers across the world. Connect with Excelitas on [Facebook](#), [LinkedIn](#) and [Twitter](#).

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