

Qioptiq Introduces F-Theta-Ronar 160mm Lens

New Lens Delivers Short Focal Length with High Precision and Small Spot Size for High-Power Applications



WALTHAM, Mass., February 6, 2019 – [Qioptiq](#), an [Excelitas Technologies®](#) Company and global technology leader in delivering innovative optical and photonic solutions, introduces its [F-Theta-Ronar 160mm Lens](#) with a focal length of 160mm at 515nm-540nm and 163mm at 1030nm-1080nm. The lens is ideal for use in laser materials processing industries such as energy storage and additive manufacturing for applications including 3D printing, welding and cutting.

The new F-Theta-Ronar 160mm Lens offers the shortest focal length of all Qioptiq low-absorption F-Theta lenses. Its larger entrance apertures of 10/14mm for the 160mm lens and 14/20mm for the 163mm lens are well suited for high-power applications requiring higher precision and smaller spot size. The high-end angle corrected coating provides reduced thermal focus shift and constant transmission over the scan field.

F-Theta-Ronar 160mm is designed for scanning areas up to 91x91mm² with wavelengths of 515nm-540nm (for green) and 85x85mm² with 1030nm-1080nm wavelengths (for IR). Its complete fused-silica design is optimized for an entrance beam diameter of 10/14mm for green and 14/20mm for IR, resulting in a spot size between 12 and 23µm. The lens also includes interchangeable protective glass.

“As the latest addition to Qioptiq’s LINOS F-Theta-Ronar Lens product line, the F-Theta-Ronar 160mm Lens represents our commitment to meeting customers’ growing needs for precision lenses with increasingly exacting capabilities for high-power laser applications,” said Matthias Koppitz, Application Engineer at Qioptiq. “We are continually adding new lenses to meet those requirements, and we are confident that it will deliver the reliable operation that customers have come to expect from our popular F-Theta-Ronar products.”

Excelitas’ new F-Theta-Ronar 160mm Lens provides reliable operation with consistent and proven high quality in serial production, special assembly techniques and competitive pricing. Technical support is available in live time.

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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 and Lumen Dynamics in 2013 and now has approximately 6,700 employees in North America,



Europe and Asia, serving customers across the world. Connect with Excelitas on [Facebook](#), [LinkedIn](#) and [Twitter](#).

About Qioptiq

Qioptiq designs and manufactures photonic products and solutions that serve a wide range of markets and applications in the areas of medical and life sciences, industrial manufacturing, defense and aerospace, and research and development. Qioptiq benefits from having integrated the knowledge and experience of Avimo, Gsänger, LINOS, Optem, Pilkington, Point Source, Rodenstock, Spindler & Hoyer and others. Connect with Qioptiq on [LinkedIn](#) and [Twitter](#).

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

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