Excelitas Technologies Introduces LINOS F-Theta-Ronar 114mm and 118mm Lenses for Additive Manufacturing Applications

WALTHAM, Mass., November 5, 2019 – Qioptiq, an Excelitas Technologies Company, introduces two new **LINOS® F-Theta-Ronar lenses** for high-power applications in additive manufacturing, energy storage and micro/macro machining.

The **LINOS F-Theta-Ronar 114mm lens** offers a focal length of 114 mm at 515nm-540nm wavelength for scanning areas up to 65mm² (for green). The **F-Theta-Ronar 118mm lens** delivers a focal length of 118mm at 1030nm-1080nm for scanning areas 67mm² (for IR). Both new fused silica F-Theta-Ronar lenses offer low absorption, short focal lengths and large entrance apertures, enabling high-precision, optimized spot quality and smaller spot sizes over the scan field for high-power or short-pulse applications.

The New F-Theta-Ronar 114mm and 118mm lenses also feature a high-end coating that is laser-damage threshold (LIDT) tested for ns at 1064nm and 532nm and fs at 1030nm and 515nm with angle correction, allowing reduced thermal focus shift and constant transmission over the scan field in high-power applications.

Additional product features include:

- Optimized for entrance beam diameter 10/14mm for green and 15mm for IR resulting in a minimum spot size between 8 and 17µm
- Screw thread M85x1
- Transmission over scan field ≥ 96 % at 515-540nm and 1030-1080nm
- Includes interchangeable fused silica coated protective glass
- LIDT coating:
  a) 40 J/cm² at 1064 nm, 12 ns, 100 Hz and 0.9 J/cm² at 1030nm, 291 fs, 5 kHz
  b) 20 J/cm² at 532 nm, 8 ns, 100 Hz and 0.6 J/cm² at 515nm, 204 fs, 50 kHz

“We are excited to introduce the new LINOS F-Theta-Ronar 114mm and 118mm lenses, which present an ideal solution for a variety of 3D printing, welding, cutting and structuring applications,” said Matthias Koppitz, Application Engineer at Excelitas. “Both lens offerings deliver the reliable operation, consistent high quality in serial production and competitive pricing that our customers have come to expect from our popular line of LINOS F-Theta-Ronar lenses.”

The LINOS F-Theta-Ronar 114mm and 118mm lenses will be on display at Formnext 2019, November 19 – 22, 2019 in Frankfurt, Germany. Visit Excelitas in Hall 12.0, booth B27 to learn more.

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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, optronics, detection and optical technology needs of global customers. Serving a vast array of applications across biomedical, scientific, safety, security, consumer products, semiconductor, industrial manufacturing, defense and aerospace sectors, Excelitas Technologies stands committed to enabling our customers' success in their end-markets. Excelitas Technologies 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.

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