

Qioptiq Introduces Integrated Closed-Loop Modulation (CLM) for iFLEX-iRIS™ and iFLEX-Gemini™ Laser Systems

New CLM Feature Delivers Ultra-Stable Performance with Very Low Periodic Noise for Biomedical and Metrology Applications

WALTHAM, Mass., June 14, 2017 – [Qioptiq](#), an [Excelitas Technologies®](#) Company and global technology leader in delivering innovative optical and photonic solutions, introduces its new integrated Closed-Loop Modulation (CLM) feature for the [iFLEX-iRIS™](#) and [iFLEX-Gemini™](#) Laser Systems. The innovative CLM feature provides modulation capabilities without the need for recalibration, combined with ultra-low noise and high power stability performance over the laser lifetime. It is ideally suited for biomedical imaging and metrology applications where repeatable performance and low signal-to-noise ratio are required.

Unlike traditional open-loop laser modulation, iFLEX CLM maintains consistent output during both Continuous-Wave (CW) and modulated operation. The innovative CLM feature enables analog, digital and dual-mode modulation for reliable stability throughout 0.1%–100% power and maximum repeatability for ultra-stable performance.

“Qioptiq’s new integrated closed-loop modulation feature meets a growing market need for an ultra-low noise, modulated laser system that delivers measurement repeatability over time,” said Ian Alcock, Vice President Optics and Lasers at Qioptiq. “By eliminating the need for recalibration, customers can achieve more reliable data comparisons and consistent instrument performance for a wide range of biomedical imaging and metrology applications.”

The iFLEX-iRIS laser series consists of a range of solid-state, high-performance lasers with low amplitude noise. All wavelengths from UV to NIR are offered in the same small size with the same control inputs, with all TEC and smart control electronics inside the laser. Precision control electronics make these lasers ultra-low noise and ideally suited for flow cytometry, confocal microscopy, medical imaging, DNA sequencing, metrology and ophthalmology applications. The new CLM capability delivers excellent power stability during modulation and over the laser lifetime, plus precision adjustment at all output power levels, with no need for laser calibration reset.

iFLEX-Gemini consists of 2x iFLEX-iRIS lasers combined into one laser engine with co-axial combined output beam. It is also offered with SM PM fiber output. The addition of CLM on the diode wavelengths allows dual mode modulation and low periodic noise and micro-USB communication features. iFLEX-Gemini lasers are an ideal replacement option for several gas-ion lasers like Ar-ion laser. Applications include: microscopy, flow cytometry, imaging, metrology, optogenetics, spectroscopy and materials science.

The iFLEX CLM feature for the iFLEX-iRIS and iFLEX-Gemini will be on display at [Laser World of Photonics](#) Booth B1 #103, June 26 – 29, 2017 in Munich, Germany. For more information, visit <http://www.qioptiq.com/iflex-iris-miniaturized>.



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 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](#).

About Qioptiq

Qioptiq, an Excelitas Technologies Company, 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. In October 2013, Qioptiq was acquired by Excelitas Technologies Corp., a global technology leader focused on delivering innovative, customized solutions to meet the lighting, detection and other high-performance technology needs of OEM customers. The combined companies have approximately 5,500 employees in North America, Europe and Asia, serving customers across the world. Visit <http://www.qioptiq.com> and <http://www.excelitas.com> for more information. Connect with Qioptiq on [LinkedIn](#) and [Twitter](#).

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Contacts:

Scott Orr
Senior Director of Global Marketing - Commercial
scott.orr@excelitas.com
781.996.5925

Cheryl Reynhout or Jill Anderson
On Behalf of Excelitas Technologies Corp.
SVM Public Relations
excelitas@svmmarcom.com
401.490.9700