



Excelitas Technologies Introduces its Newest “White” ACULED® for Medical OEM Applications

ACULED delivers the balanced combination of CCT, high CRI, high R9, and the light output needed for surgical, examination, and dental operatory lighting

WALTHAM, Mass. and PFAFFENHOFEN, Germany, April 12, 2012, [Excelitas Technologies](#), a global technology leader focused on delivering innovative, customized optoelectronics to OEMs seeking high-performance technology solutions, announced the introduction of its newest model in the [ACULED® Family of Chip-On-Board LED packages](#), one expressly designed to meet the rigorous performance requirements of medical applications such as surgical operating room lights, examination lights, and dental operatory lights.

Excelitas’ newest ACULED® model contains 4 separately addressable LED chips to provide widely tunable color temperatures (CCT) from 3500° to 5500°K, while maintaining the high Color Rendering Index (CRI), high R9 value, and light output (luminous flux) required in the operating room. With the new ACULED model, CRIs over 95 are achievable along with R9 values of well above 90. CRI is a quantitative measure of the ability of a light source to reproduce colors in comparison to a reference light source, evaluated on a 100-point scale. The R9 value indicates how well the light shows deep, saturated shades of red. The color red is clearly critical in medical applications such as surgery.

Additional benefits of the ACULED platform include excellent heat transfer from the chips to substrate and heat sink, and its compact design with chips that are extremely closely spaced, allowing for improved color mixing and compact optics.

Excelitas offers a standard 4-chip COB package (ACULED Model R3C6) that comes with Warm-white, Cool-white, Red, and Cyan LED dice. In addition, Excelitas offers a variety of design-your-own (DYO) chip combinations, one of the hallmarks of the flexible ACULED platform. All ACULED models are manufactured in Excelitas Technologies’ Pfaffenhofen, Germany facility, which is ISO 9001-certified.

“Excelitas’ newest ACULED for high CRI medical applications is an important addition to our growing portfolio of solid state lighting products that are specifically designed for integration into OEM medical applications such as surgical operating room lights,” said Joel Falcone, senior vice president and general manager of Excelitas Technologies’ global lighting business.

“LEDs are rapidly becoming the standard for surgical operating room lighting versus halogen and Xenon technologies and, through its flexible ACULED platform, Excelitas is excited to be able to provide medical



OEMs with attractive options for a surgical lighting system that can effectively balance color temperature with CRI and light brightness,” Mr. Falcone added.

The new ACULED Model R3C6 for medical applications will be demonstrated at Excelitas’ Booth in Hall 1, D15/D16, 2F at the 67th China International Medical Equipment Fair (CMEF) in Shenzhen, China on April 17 - April 20, 2012.

More information on the ACULED Family can be found on the Excelitas website.

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About Excelitas Technologies

Excelitas Technologies is a global technology leader focused on delivering innovative, customized solutions to meet the lighting, detection and other high-performance technology needs of OEM customers. From medical lighting to analytical instrumentation, clinical diagnostics, industrial, safety and security, and aerospace and defense applications, Excelitas Technologies is committed to enabling our customers' success in their end-markets. Excelitas Technologies has approximately 3,000 employees in North America, Europe and Asia, serving customers across the world.

Contacts:

Francine S. Bernitz
Director of Marketing, Excelitas Technologies
francine.bernitz@excelitas.com
781.522.5914

Danielle Wuschke
Fleishman-Hillard, on behalf of Excelitas Technologies
danielle.wuschke@fleishman.com
617.692.0509