EXALOS Selected to Present its Latest Superluminescent Light Emitting Diode Technology in the Innovation Zone at Display Week 2018

Schlieren, Switzerland, April 24th, 2018. EXALOS, the world’s leading developer of visible Superluminescent Light Emitting Diodes (SLEDs), has been selected to present its latest technology in the Innovation Zone (I-Zone) at Display Week 2018, the annual symposium and tradeshow of the Society for Information Display, held at the Los Angeles Convention Center, Los Angeles, CA, from May 20th to 25th, 2018.

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Exalos will exhibit its first prototype cyano-green (490-500 nm) SLED and latest red (635 nm) and blue (450 nm) devices. A table-top demonstration will also show the significantly reduced speckle noise of these sources, when compared to laser diode sources, in a MEMS-based projection system. Further, a technical paper entitled, “RGB superluminescent diodes for AR micro-displays” authored by M. Rossetti, A. Castiglia, M. Malinverni, C. Mounir, N. Matuschek, M. Duelk, and C. Vélez, will be presented by Dr. Marco Rossetti at 12.30 pm on Tuesday May 22nd, 2018, in room 515A as part of the “AR-VR 1: Display Systems” Symposium.

With the current wave of excitement surrounding the potential of augmented and virtual reality (AR/VR) applications, there is significant interest in high luminance displays for near-to-eye and pico-projector systems that are compact and offer a wide color gamut with high overall efficiency. While LDs and LEDs have been the preferred illumination sources for such displays, their shortcomings have been well documented. LDs have a narrowband output which can comprise image quality through unwanted coherent artifacts and speckle. LEDs, on the other hand, are broad area emitters which result in low efficiency when coupling into waveguide architectures. SLEDs, however, are directional light sources offering efficient coupling to micro-optical elements and a broader spectral bandwidth that leads to strongly reduced speckle noise and improved image quality when used as illumination sources in holographic and MEMS-based scanning micro-displays. In addition, visible SLEDs can also provide benefits in applications such as broad area illumination, sensing, microscopy, spectroscopy, or machine vision.

The I-Zone, which is sponsored by E-inK, showcases cutting-edge demos and prototypes that will become the display products of tomorrow. Participation in the prestigious event requires rigorous peer review and is restricted to innovative technologies under development at small companies, startups, universities, government labs, independent research labs, etc. Since its inception six years ago, the I-Zone has become one of the most popular destinations at Display Week.

Please stop by table 5 in Section 347 of the I-zone to discuss how these sources can benefit your application and see the latest RGB SLED prototypes in operation with a demonstration of their reduced speckle noise in projection applications.

For more information about our SLEDs please visit our website at www.exalos.com or email us at sales@exalos.com.

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About EXALOS
EXALOS AG, an ISO 9001:2000 certified company, develops and sells visible, near-IR SLEDs, laser diodes and laser swept sources, with wavelengths ranging from 400 nm to 1650 nm, for medical imaging, novel displays, machine vision, fiber optic gyroscope, broad area illumination, test equipment and sensor industries. EXALOS has its headquarters in Schlieren, Switzerland.