

glō orders G5+ MOCVD system for micro-LED production

AIX G5+ recognized as the tool of record for micro-LED applications

Herzogenrath/Germany, September 19, 2017 – AIXTRON SE (FSE: AIXA), a worldwide leading provider of deposition equipment to the semiconductor industry, announced today that it has received an order for an AIX G5+ platform from Swedish-American company glō-USA, Inc. The group focuses on the commercialization of micro-LED (mLED) products based on their proprietary defect-free GaN nanowires technology. Such 3D structures enable the growth of mLEDs while maintaining the reliability of an inorganic material system. AIXTRON's AIX G5+ Planetary Reactor® system was selected in the scope of glō's strategic expansion and will be delivered with an 8x150 mm configuration in the course of Q4/2017.

Micro-LED technology is on the roadmap of all tier one display manufacturers as a challenger to the existing display technology for next gen consumer products. Micro-LED displays consist of micron-sized LED arrays forming individual sub-pixel elements. Compared to the existing LCD and OLED technologies, mLED displays offer lowest power consumption while exhibiting superior pixel density, contrast ratio and brightness and therefore, opening new horizons for consumer mobile products as well as premium TV displays.

Fariba Danesh, CEO of glō, comments: "Based on more than 10 years of experience and know-how in the area of nanotechnology, we have developed a game-changing three color micro-LED display technology. Our three color pixels are made solely with GaN semiconductor material. We are now focused on taking this exciting technology to a volume production stage. Beyond the epitaxial structure, the manufacturing of mLEDs require scalable processes, very tight uniformity and particle control of the epitaxial wafers to enable the highest yield and therewith cost-efficient transfer to our mLED partners. AIXTRON's AIX G5+ MOCVD system provides all these requirements while maintaining low fab economics due to a batch reactor configuration. Therefore, we look forward to a close collaboration with AIXTRON on these promising applications."

"We are proud of the trust given by glō and are confident our technology will support their needs in the best way possible. Our AIX G5+ is being recognized as the tool of record for mLED related applications as it is the sole technology on the market providing on-wafer uniformity control, low particle levels, and unique advanced features such as wafer-level temperature control with Auto-Feed Forward (AFF) and therefore supporting the demanding micro LED requirements.", says Dr. Bernd Schulte, President of AIXTRON SE.

For further information please contact

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PRESS RELEASE



About AIXTRON

AIXTRON SE is a leading provider of deposition equipment to the semiconductor industry. The Company was founded in 1983 and is headquartered in Herzogenrath (near Aachen), Germany, with subsidiaries and sales offices in Asia, United States and in Europe. AIXTRON's technology solutions are used by a diverse range of customers worldwide to build advanced components for electronic and opto-electronic applications based on compound, silicon, or organic semiconductor materials. Such components are used in a broad range of innovative applications, technologies and industries. These include LED applications, display technologies, data storage, data transmission, energy management and conversion, communication, signaling and lighting as well as a range of other leading-edge technologies.

Our registered trademarks: AIXACT[®], AIXTRON[®], Atomic Level SolutionS[®], Close Coupled Showerhead[®], CRIUS[®], Gas Foil Rotation[®], Optacap[™], OVPD[®], Planetary Reactor[®], PVPD[®], TriJet[®]

For further information on AIXTRON (FSE: AIXA, ISIN DE000A0WMPJ6) please visit our website at: www.aixtron.com.

About glō

glō is built on ten years of research which started at Lund University's Nanometer Structure Consortium by Professor Lars Samuelson. In 2010, glō established a R&D and product development pilot line in the USA in Sunnyvale, California. Led by a highly experienced management team, the company focuses on delivering micro LED products in 2018.

For further information <http://www.glo.se/>

Forward-Looking Statements

This document may contain forward-looking statements regarding the business, results of operations, financial condition and earnings outlook of AIXTRON. These statements may be identified by words such as "may", "will", "expect", "anticipate", "contemplate", "intend", "plan", "believe", "continue" and "estimate" and variations of such words or similar expressions. These forward-looking statements are based on our current assessments, expectations and assumptions, of which many are beyond control of AIXTRON, and are subject to risks and uncertainties. You should not place undue reliance on these forward-looking statements. Should these risks or uncertainties materialize, or should underlying expectations not occur or assumptions prove incorrect, actual results, performance or achievements of AIXTRON may materially vary from those described explicitly or implicitly in the relevant forward-looking statement. This could result from a variety of factors, such as actual customer orders received by AIXTRON, the level of demand for deposition technology in the market, the timing of final acceptance of products by customers, the condition of financial markets and access to financing for AIXTRON, general conditions in the market for deposition plants and macroeconomic conditions, cancellations, rescheduling or delays in product shipments, production capacity constraints, extended sales and qualification cycles, difficulties in the production process, the general development in the semi-conductor industry, increased competition, fluctuations in exchange rates, availability of public funding, fluctuations and/or changes in interest rates, delays in developing and marketing new products, a deterioration of the general economic situation and any other factors discussed in any reports or other announcements, in particular in the chapter Risks in the Annual Report, filed by AIXTRON. Any forward-looking statements contained in this document are based on current expectations and projections of the executive board based on information available the date hereof. AIXTRON undertakes no obligation to revise or update any forward-looking statements as a result of new information, future events or otherwise, unless expressly required to do so by law.

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