

AOI orders MOCVD technology from AIXTRON

Photonics manufacturer expands production into growing laser business with multiple AIX 2800G4 systems

Herzogenrath/Germany, 2 April, 2019 – AIXTRON SE (FSE: AIXA), a worldwide leading provider of deposition equipment to the semiconductor industry, today announced the delivery of multiple AIX 2800G4 systems to US-based photonic maker Applied Optoelectronics, Inc. (AOI) which focuses on the design, development, and manufacturing of advanced optical devices, packaged optical components, optical subsystems, laser transmitters, and fiber optic transceivers. The delivered tools feature a 12x4-inch configuration.

The AIX 2800G4 platform has established itself as the market-leading tool for high-volume production of vertical-cavity surface-emitting lasers (VCSEL) for 3D sensors and other diode lasers due to the matchless performance of the Planetary Reactor® concept with respect to thickness and wavelength uniformity control of epitaxial layers. The system provides incomparably high efficiency in handling the expensive chemicals used for MOCVD processes while delivering maximum production yield of premium level laser devices. In addition to the excellent reproducibility of each individual system, customers also appreciate the very good repeatability amongst systems.

Dr. Klaus Anselm, Vice President of Semiconductor Products at AOI, comments: "Following our good experience with AIXTRON systems in the past, we will also utilize the proven Planetary® technology from Germany for our production expansion. The AIX 2800G4 has convinced us in all test phases, so that we are now looking forward to use the system for launching volume production of our next generation of optoelectronic components."

"We are very pleased that AOI has added our market-leading AIX 2800G4 tool to its existing manufacturing equipment. A system that has acquired a reputation over the past few years as the tool of record for the production of high-quality laser devices in the semiconductor industry. We are looking forward to the collaboration with AOI," says Dr. Bernd Schulte, President of AIXTRON SE.

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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 or organic semiconductor materials. Such components are used in a broad range of innovative applications, technologies and industries. These include Laser and LED applications, display technologies, data transmission, SiC and GaN power management and conversion, communication, signaling and lighting as well as a range of other leading-edge technologies.

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

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

About Applied Optoelectronics

Applied Optoelectronics, Inc. (AOI) is a leading developer and manufacturer of advanced optical products, including components, modules and equipment. AOI's products are the building blocks for broadband fiber access networks around the world, where they are used in the internet datacenter, CATV broadband, fiber-to-the-home and telecom markets. AOI supplies optical networking lasers, components and equipment to tier-1 customers in all four of these markets. In addition to its corporate headquarters, wafer fab and advanced engineering and production facilities in Sugar Land, TX, AOI has engineering and manufacturing facilities in Taipei, Taiwan and Ningbo, China.

For additional information, visit www.ao-inc.com.

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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