Leica Microsystems and TrueVision® 3D Surgical Introduce Digital 3D-Integrated Ophthalmic Microscope

New platform is designed for intelligent 3D guidance software for astigmatic correction and advanced intra-ocular lens (IOL) placement

Chicago, IL (PRWEB) November 08, 2012 -- Leica Microsystems and TrueVision® 3D Surgical announced today that key components of the TrueVision® 3D intelligent digital visualization and guidance platform have been integrated with select future models of Leica Microsystems’ ophthalmic surgical microscopes and will be marketed under the Leica brand.

By combining world-class Leica Microsystems optics and illumination with state-of-the-art TrueVision digital stereoscopic imaging, the two companies have partnered to debut a new class of surgical stereo microscope. Leica Microsystems and TrueVision will present the integrated TrueVision 3D/Leica microscope system at the 116th Annual Meeting of the American Academy of Ophthalmology at McCormick Place in Chicago, November 10-13, 2012, Booth 1576 and Booth 2739. It is the launch of a collaboration, which is expected to establish integrated 3D visualization and guidance as the standard of care in microsurgery.

The 3D digital integrated microscope can also run TrueVision’s Refractive Cataract Toolset® application. The toolset generates precise guidance templates in real-time using pre-operative data and advanced algorithms. Surgeons view the 3D live image on the microscope’s 3D HD flat panel display with computer generated overlays for dynamic guidance with eye tracking during the surgery.

“The TrueVision 3D visualization and computer-guided software platform integration with Leica surgical microscopes is a ground breaking tool for ophthalmologists,” says James Katz, MD, a board-certified ophthalmologist and TrueVision 3D/Leica user from the Midwest Center for Sight near Chicago. “This unprecedented pairing allows the surgeon to apply pre-operative diagnostic data at the point of surgery for limbal relaxing incision placement and toric IOL alignment in the live field of view on the 3D screen.”

“TrueVision is going beyond their surgical education roots, and is now making visualization and guidance very helpful as a tool to perform better surgery; particularly in complex surgeries. For example, in gonioscopic approaches, we are able to see a larger viewing area in terms of access to the canal or to the angle due to the stereoscopic immersive view of the surgical field on the 3D high-definition displays in the OR,” states Ike K. Ahmed, MD, FRCSC, assistant professor at the University of Toronto.

The TrueVision digital 3D system is completely integrated with the Leica M844 and M822 ophthalmic surgical microscopes when equipped with the Leica M40 stand. The system features a patented 10-megapixel HD 3D camera in the optics carrier, 64-bit image processing unit contained within the chassis, and dual passive stereo LED-based LCD displays ranging in size from 23 to 32 inches with articulating arms mounted on the microscope base. The 3D-enabled surgical microscopes are capable of displaying the surgical field of view with 3D guidance and digital overlays on secondary 2D or 3D displays in the operating room.

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Leica Microsystems is a world leader in microscopes and scientific instruments. Founded as a family business in the nineteenth century, the company’s history was marked by unparalleled innovation on its way to
becoming a global enterprise. Its historically close cooperation with the scientific community is the key to Leica Microsystems’ tradition of innovation, which draws on users’ ideas and creates solutions tailored to their requirements. At the global level, Leica Microsystems is organized in three divisions, all of which are among the leaders in their respective fields: the Life Science Division, Industry Division and Medical Division. The company is represented in over 100 countries with 6 manufacturing facilities in 5 countries, sales and service organizations in 20 countries, and an international network of dealers. The company is headquartered in Wetzlar, Germany. Visit www.leica-microsystems.com for more information.

TrueVision® 3D Surgical is the world leader in digital 3D visualization and guidance for microsurgery. Santa Barbara, California-based TrueVision® has developed and patented an intelligent, real-time, 3D surgical visualization and computer-aided guidance platform. The system enables surgeons to record surgery in 3D and to stream live video of the surgical field, making it an unparalleled teaching tool. The company is focused on developing a suite of 3D guidance applications for microsurgery to improve surgical efficiencies and patient outcomes. The system is in use at hundreds of hospitals and institutions around the world. Visit www.truevisionsys.com for more information.
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