



Press Release

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New opportunities in x-ray based surgical navigation with Ziehm NaviPort 3D

Ziehm Imaging and BrainLAB improve intra-operative imaging with navigation for more gentle, less invasive surgery

Nuremberg / Munich, Germany, 6th October 2008 — Ziehm Imaging and BrainLAB have developed the Ziehm NaviPort 3D interface, representing an important step forward in x-ray based navigation for spinal and trauma surgery. The two German medical device manufacturers have been working together on the integration of 3D C-arms and surgical navigation for optimized intra-operative imaging. The new interface brings together the mobile 3D C-arms from Ziehm Imaging and the computer-assisted Fluoro-3D-navigation from BrainLAB. Thanks to this, surgical operations can become more precise and faster. Patients benefit from less invasive treatment and a reduced exposure dose. This solution is extremely versatile within a clinical environment. Its operative range includes orthopaedic, trauma, spinal and craniomaxillofacial surgery. The NaviPort 3D is immediately available.

With the introduction of Ziehm NaviPort 3D, Ziehm Imaging has brought forth a connection to the BrainLAB navigation systems with automatic registration for image converter-supported surgery. Physicians are able to effectively combine the innovative C-arm Ziehm Vision Vario 3D (Image intensifier version) with mobile navigation systems from BrainLAB and thereby benefit from better orientation during surgery.

The combination of the two technologies replaces the need for a post-operative CT scan, and therefore also reduces the exposure dose. By using the BrainLAB navigation software, surgeons can create extensive intra-operative 3D images. The picture quality and resolution of the x-ray is able to change according to varying indications. The surgeons receive improved picture information, which allows them to operate in the least invasive way possible.



The BrainLAB navigation software permits the automatic recognition of the intra-operatively obtained pictures. Surgeons can use this information immediately for the navigation-assisted surgery, without needing additional manual steps. With the help of the BrainLAB software, the surgeon can follow the movements of the instruments in relation to the patient's anatomy in real-time.

"Ziehm Imaging sees huge potential in this clinical cooperation: Through the combination of the Navigations platform from BrainLAB and our 3D C-arms, we are offering our customers an advanced solution for more efficiency in the operating room, a lower x-ray exposure dose and the more precise insertion of implants. Surgeons and patients world-wide will benefit from the integration of our two technologies", says Martin Herzmann, Director Global Marketing at Ziehm Imaging.

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About Ziehm Imaging

Ziehm imaging specializes in the development, manufacturing and worldwide marketing of mobile x-ray-based imaging solutions. The company has been market leader in Germany for more than seven years as well as in many other European countries for two years. Today, Ziehm Imaging is a global systems provider, employing over 250 people worldwide. Extensive in-house development know-how is reflected in the Ziehm Imaging C-arms' high medical imaging performance, intelligent generator technology, significant dose savings and seamless digital network integration. Building on competence and creativity, as well as continuous dialog and close cooperation with renowned universities, research centres and hospitals, Ziehm Imaging has developed groundbreaking technologies that have made the company a global trendsetter in intelligent interventional imaging. Ziehm Imaging products are known for their outstanding versatility and their easy handling for a wide variety of medical applications. In addition, they offer seamless integration into existing IT environments for digital image data acquisition, image evaluation and image management. Please see www.ziehm.com for more information.