
#RSNA14: Ziehm Imaging Presents Flat-Panel 3D C-Arm



At this year's RSNA annual meeting in Chicago, USA, innovation leader Ziehm Imaging introduces Ziehm Vision RFD 3D. The world's only 3D C-arm with flat-panel technology that provides a 16 cm edge length per scan volume combines 2D and 3D functionality to offer maximum intraoperative control. Available with 30 cm x 30 cm and 20 cm x 20 cm flat-panels, the new Ziehm flagship system is ideally suited for orthopaedics, traumatology and spine surgery, but also for demanding cardio-vascular hybrid applications.

Redefined Imaging

Based on know-how and innovations originally developed for demanding hybrid applications, Ziehm Imaging has designed a completely new 3D C-arm: Ziehm Vision RFD 3D. Validated in leading clinical centres in the US and Germany, it is the only 3D C-arm that combines 25 kW generator with iterative reconstruction algorithm and patented SmartScan rotation to offer 180° image information of any anatomical structure.

With up to seven vertebrae in one scan volume, it offers the largest 3D image volume in the market. For 2D imaging in daily routine the small footprint of less than 0.8 m² sets the benchmark in space requirements. 30 percent smaller than fixed C-arms and 60 percent lighter than mobile CTs, the system can easily be positioned during all kinds of procedures and effortlessly be moved from one OR to another.

Turning ORs into Hybrid Rooms

Fully motorised in four axes, Ziehm Vision RFD 3D is ideally suited for hybrid room applications. The C-arm features a joystick module with a function for defining an isocenter around which the system moves concentrically. Distance control, an assistance system supporting non-contact collision protection, allows for enhanced patient safety: The C-arm movement slows down in the proximity of the patient and stops before entering a defined safety zone.

The 25 kW generator is one of the most powerful in the market of mobile imaging and delivers crystal-clear images. The liquid cooling system (Advanced Active Cooling) keeps the generator at a consistent operating temperature and ensures reliable imaging without interruption even during lengthy procedures.

The specially developed algorithm ZIR (Ziehm Iterative Reconstruction) optimally minimises fan and metal artifacts in 3D reconstructions, leading to significantly more distinguishable anatomy.

About Ziehm Imaging

Founded in 1972, Ziehm Imaging has stood for the development, manufacturing and worldwide marketing of mobile X-ray-based imaging solutions for more than 40 years. Employing more than 380 people worldwide, the company is the recognised innovation leader in the mobile C-arm industry and a market leader in Germany and other European countries. The Nuremberg-based manufacturer has received several awards for its groundbreaking technologies and achievements, including the Frost & Sullivan award (various years), the iF design award 2011, the Top100 award for innovative mid-size companies 2012, the Stevie Awards 2013 and 2014 and the IAIR Global Awards 2014 as "Best Company for Innovation & Leadership".

Source and image credit: Ziehm Imaging

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