

Ziehm Quantum.

Where Superb Imaging and Integration Unite.

Manufacturing complies with DIN EN ISO 9001:2000 and ISO 13485:2003.

Ziehm Imaging is constantly improving its products and reserves the right to change these specifications without notice.

Ziehm Imaging GmbH

Donaustrasse 31
90451 Nuremberg
Germany
Phone: +49.9 11.21 72 0
Fax: +49.9 11.21 72 39 0
info@ziehm-eu.com

Ziehm Refurbished Systems GmbH

Isarstrasse 40
90451 Nuremberg
Germany
Phone: +49.9 11.6 42 07 0
Fax: +49.9 11.6 42 07 39
info@ziehm-eu.com

Ziehm Imaging Inc.

4181 Latham Street
Riverside, CA 92501
USA
Phone: +1.951.781.2020
Fax: +1.951.781.6457
mail@ziehm.com

Ziehm Imaging Pte. Ltd.

152 Beach Road #12-03A
Gateway East
Singapore 189721
Singapore
Phone: +65.6 39.1 86 00
Fax: +65.6 39.6 30 09
colin.loo@ziehm-eu.com

Ziehm Imaging Srl.

Sede Legale
Via della Previdenza Sociale 11
42100 Reggio Emilia
Italy
Phone: +39.05 22.61 08 94
Fax: +39.05 22.61 24 77
sergio.roncaldi@ziehm-eu.com

Ziehm Imaging Oy.

Leonorankuja 21
04420 Järvenpää
Finland
Phone: +358.40 7 77 00 44
Fax: +358.92 92 38 26
sakari.korja@ziehm-eu.com

Ziehm Imaging OOO

17, Maxim Gorky Street
620000 Yekaterinburg
Russia
Phone: +7.3 43.3 71 01 94
Fax: +7.3 43.3 71 44 85
info@ziehm-eu.com



Ziehm Quantum.

The Ziehm Quantum™ is at the forefront of innovative, mobile, surgical C-Arm design. Eliminating the need for a monitor cart in the surgical room, the Ziehm Quantum™ is truly the world's first full featured, self contained mobile surgical C-Arm. Its small foot print and lightweight design coupled with the advanced features of a state of the art 16-bit image processing system, makes the Ziehm Quantum™ the most compact and versatile mobile C-Arm available today.

Full Featured, Self Contained.



Developed with the understanding and necessities of the clinical environment, the unique features and innovative design of the Ziehm Quantum™ place it in a class of its own. With its superior imaging performance, light weight and fully integrated design, the selection process is simple.

Offering outstanding functionality in terms of image quality, user interface and dose savings, the Ziehm Quantum™ is designed for use in a wide range of fluoroscopic imaging procedures.

Working with the Ziehm Quantum™ provides fast and cost effective results in a wide variety of medical procedures. The Ziehm Quantum™ provides high image quality, functionality, mobility, and network connectivity to keep pace with the clinical requirements of today's modern medical practice.

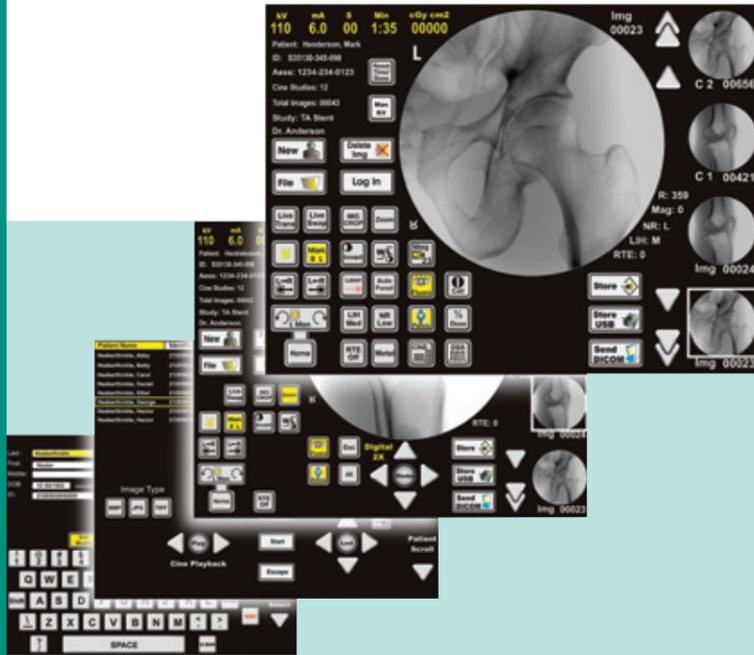


■ The ZIEHM QUANTUM™ is designed for surgical and interventional procedures requiring fluoroscopic imaging.

Quantum

Designed with You... The User in Mind.

Every detail on the Ziehm Quantum™ reflects a thorough understanding of the required workflow in a clinical environment and the applications in which a mobile C-Arm will be used.



Quantum

The DeskView™ is a unique one-touch control panel that provides a high level of automation. Allowing the user to concentrate on positioning, the Ziehm Quantum™ image control system takes care of automated imaging parameters.

Following image acquisition, a variety of sophisticated post-processing functions can be performed without having to leave the procedure room. Once acquired, the images can easily and quickly be transferred to a remote location for further evaluation or processing.



Exceptional Ease of Use.



Perfect Clinical Mobility

Featuring one of the largest "C"s available, the Ziehm Quantum™ retains its small footprint and narrow profile, making it the ideal choice for any surgical environment.

Compact and lightweight, the Ziehm Quantum™ offers a pleasant work experience by reducing the possibility of stress-related injury that may be experienced by operating other larger and heavier C-Arms.

Unsurpassed Positioning Capability

The Ziehm Quantum™ features one of the largest "C" dimensions available with the ability to effortlessly move the C-Arm from one position to another.

All C-Arm movements are counterbalanced, providing stability even when the locks are disengaged, allowing for a fast and simple change of projection during intra-operative examinations.

The 45° forward orbital rotation and 20 cm vertical lift extension allow the Ziehm Quantum's C-Arm to adapt to the extreme positioning angles required in many procedures.

■ A large C-Arm opening is essential for trouble-free positioning. The Ziehm Quantum™ provides this.



Benefit from Superior Imaging Technology

Image quality is clearly the most important feature of any mobile C-Arm. The Ziehm Quantum™ features a 1K² x 12-bit highline video/image display, digital image rotation, large storage capacity, and integrated 18.1" high resolution TFT monitors which are capable of displaying 768 shades of gray. The Ziehm Quantum™ provides superior resolution and detailed visualization in all applications.

Quantum



■ **Pain Management Procedure:** High quality imaging in this dense body region using the Ziehm 'Spine' Anatomical Program.



■ **Fixation of Fractured Fibula:** Excellent bone detail using the Ziehm 'Extremities' Anatomical Program.



■ **Hip Pinning Procedure:** Use of the Ziehm 'Metal' program results in minimized image blooming where metal structures are present.

Choose Your Anatomical Program

The Anatomical Programs found in every Ziehm Quantum™ C-Arm optimize image quality for each body region using the lowest possible dose. Choose between the 'Bone/Extremities', 'Pelvic/Spine', and 'Heart/Thorax' Anatomical Programs to ensure superb image quality in each type of procedure. In addition, unique 'Metal' and 'LPD' (Large Patient Diameter Key) image programs further enhance image quality in otherwise difficult imaging conditions.

Considerate Use of Radiation

Wherever you look on the Ziehm Quantum™, you will find features that can significantly reduce the radiation dose delivered to the patient, the physician and personnel within the operating room. Ziehm Imaging™ has been the industry's low dose leader ever since Ziehm pioneered the integration of high frequency generators into mobile fluoroscopic C-Arms. In addition, the following features ensure that the Ziehm Quantum™ is one of the most patient-friendly mobile fluoroscopy systems available.

- Digital image rotation and reversal without radiation
- Anatomical Programs
- Pulsed fluoroscopy with last image hold
- Patient dose recording
- Half-dose mode
- Laser cross-hair positioning and centering
- Large Patient Diameter Key

Ziehm Quantum™ –Integration with Image Guided Surgery (CAS)

In CAS, the x-ray image becomes a road map of the patient's anatomy that is correlated to the real-time position of the surgical instrument. The surgeon follows the instruments movements without requiring continuous x-ray imaging of the patient. This technology has its biggest impact in brain and spinal surgery as well as orthopedics. Proven compatibility with CAS systems is essential for success. CAS and mobile C-Arm systems can be chosen independently in order to best benefit individual requirements.

The Ziehm Quantum has been integrated with leading fluoroscopic CAS systems, such as: Medtronic, Brainlab and Z-Kat.

Digital Network Integration

The Ziehm Quantum is equipped with DICOM 3.0 connectivity by providing Work List, Print and Storage Class image send capabilities to your hospital network.

Image Storage and Hardcopy

Once acquired, images can be stored on different media such as Hard Disk, USB memory and optional DVD, providing the medical team with a convenient and portable record of patient data gathered from any imaging procedure.

