



Ziehm 8000
Proven Mobile
C-arm Quality



Ziehm 8000 – Superiority in the

"I like my Ziehm 8000. It moves the way I want and makes the images we need."

The Ziehm 8000 is a state of the art mobile C-arm with a global reputation for mobility and simplicity of use while offering advanced features in fluoroscopic imaging, the highest image quality and high reliability.



The Clinical Environment

Ziehm C-arms - Leading the Way

For more than 30 years, Ziehm C-arms have lead the way in mobile C-arm technology. It may be surprising to learn that it was Ziehm mobile C-arms that were the first to employ a High Frequency X-ray Generator, Digital Subtraction Angiography (DSA), 30cm (12") image intensifier, anatomical programming and DICOM 3.0 connectivity. Those that have experienced Ziehm C-arms however, have come to expect the very latest innovations, the highest image quality and user and patient benefits - and all of these can be found in the Ziehm 8000, from Instrumentarium Imaging.

Clinical Mobility

The Ziehm 8000 has one of the smallest footprints of any mobile C-arm available and yet features one of the largest dimension C-arms. The small footprint, reduced weight and large C-arm make the Ziehm 8000 the perfect choice for intra-operative fluoroscopy and digital radiography. Effortless movements and the unique single-lever rear-wheel steering and braking control enable precise positioning anywhere around the operating table.

45° Orbital Rotation

All C-arm movements are fully counterbalanced in all positions, making the C-arm stable even with locks disengaged, allowing a fast change of projection during intra-operative examinations. With its 45° forward orbital rotation, the Ziehm 8000 C-arm is even capable of the extreme positioning angles required in pain management procedures and spinal orthopaedics. Robust cable deflectors ensure low-lying movable obstacles do not obstruct your way.

Understanding of the clinical environment and practices shows in every detail of the Ziehm 8000. The location of handles and controls, size and shape of the mobile stand and monitor cart are carefully designed to make your life easy.





Image Quality - Every Day, Every

Stress-free Operation

In the stressful environment of intra-operative fluoroscopy, Instrumentarium Imaging understands the need for simplicity of use whilst combining the sophisticated features demanded in today's operating room. This means fast, high quality, trouble-free imaging, first time and every time. That's why the Ziehm 8000 is designed with you, the user in mind. Clear one-touch controls and a high level of automation allow you to concentrate on positioning, while the Ziehm 8000's computer system takes care of all imaging parameters, providing you with perfect results.

All Controls at Your Fingertips

Any controls that you might need during the procedure are provided on the C-arm control panel exactly where you need them, so eliminating the inconvenience of walking to the monitor cart to carry out functions such as printing, monitor adjustments, image orientation and image storage.

Anatomical Programs

The Ziehm 8000's anatomical program ensures optimum image quality, whatever the body region under examination. In addition, the



Hand surgery table offers immediate intra-operative imaging during surgery.



A large C-arm opening is essential in surgical imaging.



Extensive vertical travel despite the small footprint.



Single handle control for steering and wheel brakes.

Every Procedure

unique 'Metal' and 'Soft' imaging programs further enhance image quality in those difficult imaging situations where other mobile fluoroscopy systems struggle to cope. Non-interlaced totally flicker-free monitors with anti-reflective coating and automatic ambient light adjustment ensure the best possible image display.

When it comes to image quality, every day, every procedure, the Ziehm 8000 is the answer. Following image acquisition, a wide range of sophisticated post-processing functions can be carried out using simple one-touch and menu-

driven options. At the monitor cart, guiding on-screen prompts allow the maximum use of the systems features without the need for extensive training and referral to manuals. And you may even use the monitor cart on its own, as a stand-alone image workstation, without the need for the mobile C-arm.

Considerate Use of Radiation

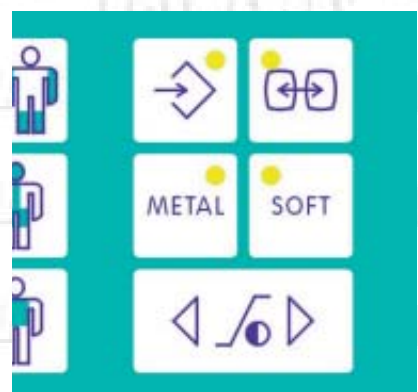
The Ziehm 8000 is not only designed with the user in mind, but a great deal of time and research effort is invested in producing a mobile C-arm that is considerate to your patient.

Everywhere you look on the Ziehm 8000, you will find features that are provided to significantly reduce the radiation dose delivered to the patient.

The use of low attenuation composite material, the half-dose imaging mode, dual laser positioners on the tube and image intensifier, pulsed fluoroscopy with last image hold, digital image orientation and rotation without radiation, iris and slot collimation without radiation and patient dose recording, make the Ziehm 8000 one of the most patient-friendly mobile fluoroscopy systems available.



The Extremity organ program prevents the blooming of the image.



The Soft program enhances details in soft tissue imaging.



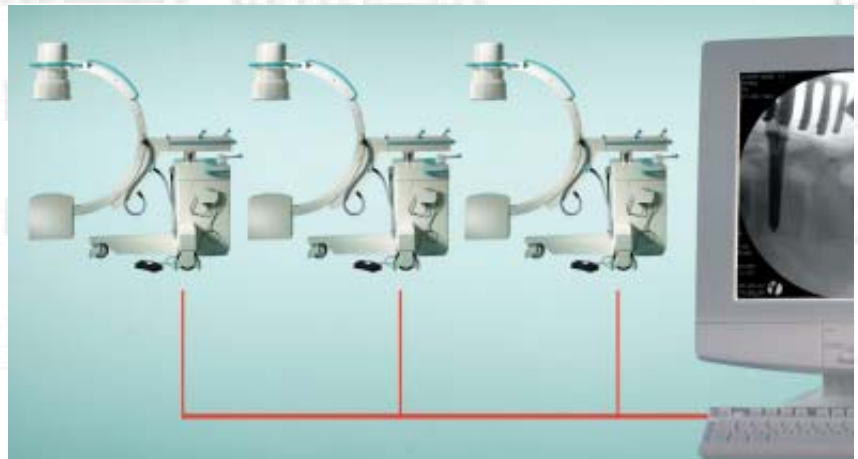
Ziehm 8000 – Designed to Integrate

Image-guided Surgery (CAS)

The Ziehm 8000 is designed to integrate with the latest computer-aided surgical navigation technologies (CAS). Image-guided navigation systems in combination with the Ziehm 8000 form a surgical environment with 3D mapping and real time image-guidance, allowing the surgeon to operate with precision and accuracy whilst the patient and operating team benefit from even greater radiation dose reduction. The Ziehm 8000 is proven for use with all leading fluoroscopic CAS systems, such as Medtronic-Sofarmor-Danek, Brainlab or Medivision.

HIS / RIS / PACS Connectivity

The Ziehm 8000 connects to the hospital network using DICOM 3.0 communications protocols. The specific DICOM class modules can be selected to fulfil requirements from basic 'Storage' to 'Query' and 'Work List'. The quality of the transmitted images is not sacrificed, since it is based on Primary digital image capture, rather than additional video capture techniques. The vast experience in mobile C-arm network connectivity and constant research and development, guarantee a working solution to meet most medical networking requirements.



Ziehm 8000 connects to the HIS/RIS network in the hospital.

Upgrade With the Latest Technologies

Image Storage and Hardcopy

The Ziehm 8000 is equipped with a hard disk drive for mass image storage and images can be selected individually for storage to hard disk or you can choose to have the system automatically save them for you. Each patient's images are stored and retrieved from individual patient folders and a user-friendly search facility allows fast recall by using either patient name, patient ID number or examination name. Alternatively, images can simply be selected from the on-screen 16 image mosaic, with display of individual patient data.

A standard 3.5" disk drive allows image transfer to a PC format for presentations, reports or other documentation. The Ziehm 8000's 3.5" magneto-optical disk drive allows an alternative storage medium for up to 1000 images per

disk, for secure, long-term archiving. The monitor cart can accommodate a range of high quality video printers and multi-format cameras and the sophistication of the Ziehm 8000 will even allow automatic start/stop of video recording with fluoroscopy when equipped with the optional video recorder.

Upgradeability for the Vascular Surgery

The Ziehm 8000 offers a comprehensive range of system options and configurations to meet the most surgical imaging requirement. The system is upgradeable from a simple orthopaedic or pain management configuration to the basics of Vascular capabilities.

Configuration possibilities include:

- A full range of image intensifier sizes including 15 cm, 23 cm and 30 cm
- Tube and II laser cross-hair positioners
- Automated DSA & CINE
- Extended vertical and orbital C-arm travel



16 image mosaic is used to search the cases stored in the image memory.



The monitor cart can contain a variety of hard copy devices.



A 30 cm image intensifier is an option for applications requiring a large field of view.



Manufacturing complies with DIN EN ISO 9001:2000 and DIN EN ISO 46001.

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