

# Ziehm is the technology leader in mobile C-arms

For over 45 years, Ziehm Imaging is a German engineering company whose sole business is building C-arms with sales and service engineers throughout the United States.



## IMAGING SOLUTIONS



Since 1972, Ziehm Imaging has been a company of firsts. Our visionary thinking has made us the mobile C-arm expert worldwide. We are committed to our mission of setting new technology standards. As an innovation leader, we were the first company to:

- Show Digital Subtraction Angiography (DSA) on a mobile C-arm
- Introduce a touchscreen user interface
- Incorporate a flat-panel detector on a mobile C-arm worldwide
- Launch a 3D C-arm with flat-panel detector on the market
- Introduce a mobile full-size C-arm with a CMOS detector



## NATIONWIDE SERVICE

The Customer Advantage:

- Nationwide coverage
- Fast, flexible & reliable service
- 24 hour delivery for parts inventoried in the US
- Comprehensive service covers the lifespan of your product












<sup>1</sup> CMOSline represents a system configuration that is based on a Ziehm Imaging CMOS flat-panel detector.  
<sup>2</sup> In clinical practice, the use of SmartDose may reduce patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task.  
<sup>3</sup> The technology Beam Filtration reduces dose exposure for Ziehm Imaging flat-detector systems in comparison with conventional filtration techniques. Data on File. Results may vary.

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CMOSLINE

		Company founded; Automatic X-ray film exposure developed	<b>1972</b>
<b>1983</b>		First C-arm with high frequency monoblock generator	
		First DSA on a mobile C-arm	<b>1988</b>
<b>1994</b>		First mobile C-arm as a compact unit	
		Introduction of the touchscreen user interface	<b>2000</b>
<b>2006</b>		First mobile C-arm with flat-panel detector worldwide	
		First 3D C-arm with flat-panel technology	<b>2007</b>
<b>2013</b>		First mobile C-arm offering motorization of all 4 axes	
		First FD 3D system (30/30) with 180° image information	<b>2015</b>
<b>2017</b>		First product range with CMOS detector (CMOSline)	
		Articulating Monitor Arm available for all Ziehm Vision systems	<b>2019</b>

**SmartDose Concept**  
 Best image quality. Minimized dose.



# THE RIGHT DOSE

As the "grande dame" of medical imaging, the X-ray, which revolutionized medicine, is still as relevant as ever. As an internationally recognized innovator in the area of medical imaging, Ziehm Imaging achieves reliable results with the best image quality at the lowest possible dose, which is our primary goal.



Compared to systems with comparable image quality such as the **Medtronic O-arm**, the **Ziehm Vision RFD 3D** has superior OR usability and superior radiation dose control. The excellent Image Quality results in increased patient safety. The ideal usability gives improved surgeon efficiency. The dosage control benefits patients, surgeons and staff alike.



- S. Raymond Golish MD PhD MBA  
Chief of Surgery & Medical Director of Spinal Surgery Jupiter Medical Center



## SmartDose

Best image quality. Minimized dose.

### Comprehensive concept for dose reduction

Our latest improvements in SmartDose<sup>2</sup> help to display even the smallest details of complex anatomical areas and reduce dose with intelligent pulse regulation and optimized anatomical programs.

With significant dose savings, Ziehm Imaging sets the benchmark in user-friendly adjustment of dose exposure, and the SmartDose concept has been incorporated in the current generation of mobile C-arms.



**ANATOMICAL PROGRAMS**  
With automatic optimization of dose and image quality for best results



**REMOVABLE GRID**  
Reduces dose in pediatric and other dose-sensitive procedures



**PREMAG**  
Exposure-free magnification of X-ray images



**LOW DOSE MODE**  
In all anatomical programs for particularly dose-sensitive procedures, e.g. in pediatrics<sup>3</sup>



**HIGH-SPEED ADR**  
Intelligent, fast regulation of pulse rate to lower the dose level



**BEAM FILTRATION<sup>3</sup>**  
Reduced skin entrance dose without compromising on image quality



**REDUCTION OF PULSE FREQUENCY**  
Manually or fully automatically to lower the accumulated dose



**AUTOMATIC ADJUSTMENT**  
For large patients without additional increase in dose



**VIRTUAL COLLIMATORS**  
Exposure-free positioning of collimators



**LASER POSITIONING DEVICE**  
Integrated in flat-panel and generator housing for accurate and dose-free positioning of C-arm



**ZAI ALGORITHM & FILTERS**  
Displays fast-moving objects like guide wires and even the smallest vessels in razor-sharp image quality



**OBJECT DETECTED DOSE CONTROL (ODDC)**  
Automatically analyze the area of interest and minimize dose while optimizing image quality