

SURGICAL IMAGING SOLUTIONS

SMART DYNAMIC FPD C-ARM

A mobile FPD C-arm built to support demanding surgical workflows with responsive movement, stable positioning, and clear access around the operating table. Its flexible design helps clinicians achieve the required imaging views efficiently across orthopedic, pain management, urology, and general surgical procedures.

**5_{kw}**

Power Output

15.6_{inch}

Touch Console

300_{kg}

Weight

9x9_{inch}

FPD

High-Performance Mobile Dynamic FPD C-ARM

Designed for advanced intraoperative imaging, the C-Arm combines high-performance flat-panel detector technology with fast image acquisition and intelligent processing to deliver sharp, high-contrast visualization with excellent anatomical definition. Its wide field of view supports clear and distortion-free imaging across a broad range of procedures.

With continuous fluoroscopy, pulsed fluoroscopy, and direct digital radiography, the system provides the flexibility required for varied clinical workflows. Reliable imaging performance and intuitive operation make it well suited for orthopedic surgery, pain management, general surgery, and urological procedures.

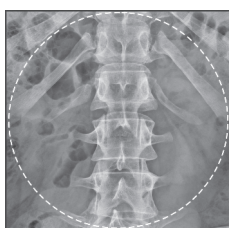


Dynamic FPD Technology

Equipped with advanced flat-panel detector technology, the system delivers sharper, distortion-free images with improved clarity and image quality compared with conventional image-intensifier systems.

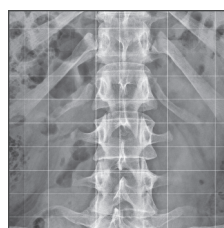
A. Large Field of View

Compared with traditional image intensifiers of a similar diameter, the flat-panel detector provides a larger effective imaging area, increasing the square field of view by more than 22%. This enables surgeons to visualize a wider anatomical region within a single exposure.



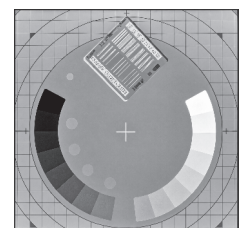
B. Distortion-Free Imaging

Flat-panel detector technology eliminates the geometric distortion commonly associated with curved image-intensifier systems. Image geometry remains consistent from the center to the edges, supporting accurate anatomical visualization, clinical assessment, and surgical guidance.



C. High-Resolution Image Quality

A broad grayscale range and enhanced dynamic range deliver excellent contrast, sharpness, and fine-detail visibility. This supports clearer differentiation of anatomical structures across a wide range of surgical and interventional procedures.



Ergonomic C-Arm Design

Fully counterbalanced movement allows the C-arm to remain stable at the required angle.

Flat Panel Detector

Carbon-fiber FPD with a large field of view delivers sharper, wider clinical imaging.

15.6" Intuitive Touch Screen

360° rotation and lateral adjustment support comfortable viewing. Multi-touch control enables fast, efficient operation.

Powerful Generator

Available with stationary or rotating anode configurations for flexible performance.

Standby Power

Maintains system readiness during transfers between operating rooms while helping protect data from unexpected loss.

Auto Collimation

Automatically limits the beam to the area of interest, helping reduce unnecessary radiation exposure.

X-Ray Monoblock

Delivers stable X-ray output for consistent image quality and efficient operation.

Additional Monitor Cart (Optional)

32" Full HD monitor with ergonomic design for simultaneous dynamic and static image display.

Surgical Digital Mobile C-Arm comes with latest digital technology in the entire imaging chain that delivers excellent images and help you see more details in surgery. It is the good choice for orthopedic surgery, pain management procedure, general surgery, urinary surgery, etc.





21cm x 21cm

23cm x 23cm (Optional)

MORE ACCURACY AND CONFIDENCE

Advanced flat-panel detector technology delivers real-time, high-quality imaging with a large field of view, allowing surgeons to visualize a wider anatomical area with greater detail in each image. By covering more anatomy within a single acquisition, the system can reduce the number of images required for procedures that would otherwise need multiple exposures, helping minimize radiation dose and procedure time.

High-contrast, high-resolution, and distortion-free imaging reveals fine anatomical details with greater clarity. With continuous live visualization throughout the procedure, surgeons can navigate more confidently, assess anatomy more precisely, and make informed clinical decisions while maintaining an optimized radiation dose.

CLINICAL FOCUS



Orthopedics



General
Surgery



Pain
Management



Vascular
Angiography



Urinary
Surgery



Spine
Surgery



Cardiology



Gastroenterology

IMAGING FEATURES

01 Powered by ABS technology

Automatic brightness stabilisation keeps image clarity consistent across a procedure, without the operator chasing settings

03 Digital subtraction angiography (DSA)

Real-time vascular imaging with high contrast and detail, for procedures where the vessel is the subject.

05 Real-time noise reduction

Image quality is maintained at low radiation dose while the procedure is under way.

07 DICOM compatibility

DICOM printing and integration with hospital PACS, so images leave the site in the format the hospital already uses.

09 Smart power management

Multiple operating modes can be selected as needed, with imaging parameters automatically adapted to the procedure and dose requirements.

11 Last image hold

The last fluoroscopic frame remains available for review, allowing anatomical details to be assessed without an additional radiation exposure.

09 Dual laser localizer

Integrated laser guidance supports faster and more accurate positioning of the C-arm before image acquisition.

02 Pre-programmed imaging modes

Settings adapt to the surgery type or clinical application in one selection, rather than being dialled in case by case.

04 Colour-coded axis and handle

Switch between the live frame and a stored one to compare accurately, without leaving the field.

06 Live-to-reference image shift

Positioning is read from the arm itself — intuitive, easy-to-use movement controls at each axis.

08 Removable anti-scatter grid

Improves clarity where scatter is the limiting factor, and comes out when the case does not need it.

10 Dose area product (DAP)

Integrated software DAP provides real-time patient dose monitoring and recording to support effective radiation management throughout the procedure.

12 Large C-arm geometry

A spacious C-arm opening provides greater working room around the patient, improving access and positioning during surgical procedures.

14 Footswitch exposure

Fluoroscopy and image acquisition can be controlled from the footswitch, allowing hands-free operation while maintaining focus on the procedure.

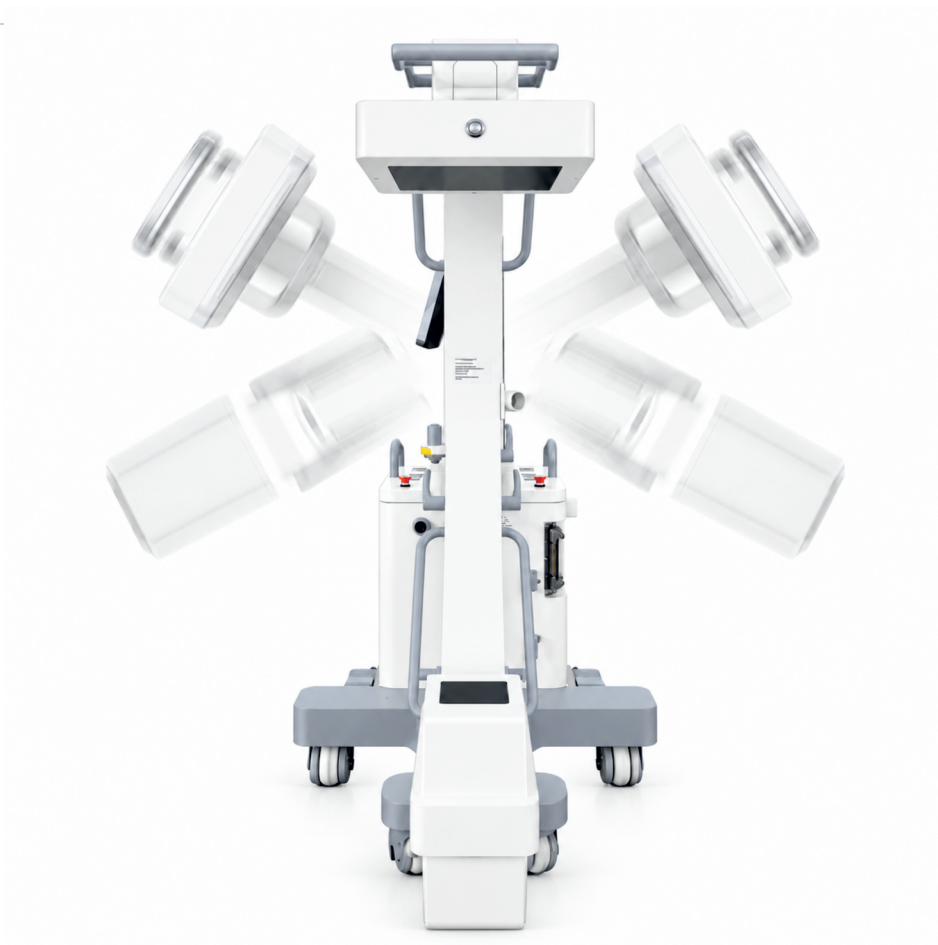


MULTI-DIMENSIONAL C-ARM MOVEMENT

Designed for effortless positioning, compact mobility, and steady control.

Engineered with a sophisticated multi-axis C-arm design, the system provides exceptional flexibility and precise multi-angle positioning. Its enhanced maneuverability enables optimal access to complex anatomical regions, improving workflow efficiency and delivering superior imaging performance across a broad range of demanding surgical procedures.

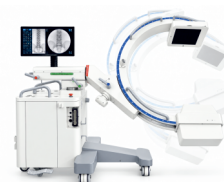
01 Rotated motion



02 Horizontal wig-wag



03 Horizontal travel



04 Slip along the orbit



05 Motorized up and down

2 Configuration options



Mobile C-arm + Mobile Cart
15.6-inch Touch Console



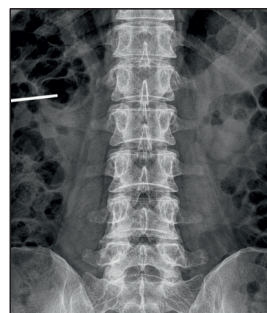
Mobile Cart
32-inch monitor

Technical Specifications

X-RAY GENERATOR	Model	ERAY SMART 5C	
	Generator type	High frequency technology	
	Power output	5kW	
	Power input	220V , single phase, 16A	
CONTINUOUS FLUOROSCOPY	kV range	40 ~ 125 kV	
	mA range	0.5 ~ 12 mA	
PULSE FLUOROSCOPY	kV range	40 ~ 125 kV	
	mA range	4 ~ 36 mA	
DIGITAL RADIOGRAPHY	kV range	40 ~ 125 kV	
	mA range	10 ~ 50 mA	
X-RAY TUBE	Type	Stationery anode · Rotating anode (optional)	
	Anode heat capacity	80kHU · 210kHU (optional)	
	Focal spot	0.6/1.2 mm · 0.3/0.6 mm (optional)	
COLLIMATOR	Type	Fixed type collimator	
	Positioning	Dual laser centering	
C-ARM STRUCTURE	L x W x H of C-arm	195.1 x 85.3 x 167.4 cm	
	Orbital rotation	30° - 110° (±5)	
	Lateral rotation	±180°	
	Vertical travel	400mm	
	Horizontal travel	200mm	
	SID	980mm	
	Wig/wag	±15°	
	Free space	780mm	
	Depth in ARC	680mm	
FALAT PANEL DETECTOR	Technology	Amorphous silicon (A-si) with CsI	
	Size	21 x 21 cm	23 x 23 cm
	Pixel pitch	205µm · 139µm (optional)	150µm
	Resolution	1024 x 1024 px · 1356 x 1356 px (optional)	2048 x 2048 px
	A/D Conversion	16 bit	

C-ARM MONITOR	Size	15.6" touch screen
	Swivel	360 (±180°)
	Tilt	120°
MONITOR CART	Size	32" monitor
	Resolution	2560 x 1440 px
	Control mode	Keyboard
ADDITIONAL FUNCTIONS	Exposure mode	Hand & foot switch
	DAP	Available
	Grid	Available
	CINE loop	Upto 15 fps
	DSA	Optional
	Road mapping	Optional

CLINICAL IMAGING



Clinical images — for reference purpose only

STANDARDS & COMPLIANCE



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