

FDR CROSS

Fluoroscopy and portable x-ray in one

FLUOROSCOPY



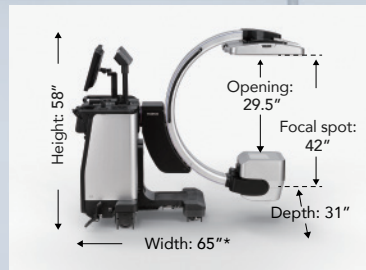
RADIOGRAPHY



A revolutionary battery powered cross-over solution

Lightweight, compact, space-saving design

The lightest in its class - at just 549 lbs. FDR Cross is more than 150 lbs. lighter than typical compact c-arms. Its highly maneuverable and ergonomic design allows ease of positioning for all essential procedures. The added ability to offset the tube from the detector housing allows wireless x-ray imaging comparable to that of a conventional portable x-ray system.



*when using the 10" x 12" panel

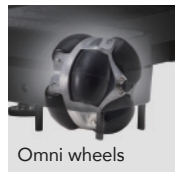


Easy maneuverability and user-friendly controls
simplify workflow

Light, easy travel and precise maneuverability

Omni-directional front wheels provide smooth travel, turns and sideways movements without skidding. Dual side-mounted brake pedals and wrap-around handles enable smooth and secure control for moving and stopping.

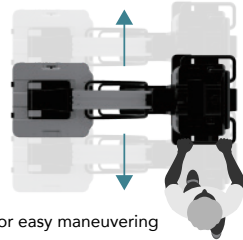
This superior mobility is extremely helpful in operating rooms where space is tight and equipment position constantly changes from procedure to procedure.



Omni wheels



Sturdy wrap-around handles are designed for easy maneuvering from both the front and sides.



Battery powered, cord-free workflow

Lithium-ion battery performs up to 8 hrs.* of continuous use and charges from empty to full in just 4 hours. For extended use or when power is low, the system can be used plugged into a standard AC outlet.



① Cord-free



② AC power cord

*Depends on usage conditions

Wireless operation for greater safety and convenience

The optional wireless foot switch and monitor cart eliminates the need for cable management and enhances safety in the operating room. The battery powered monitor cart supports wireless HDMI, enabling dual-screen display with no lag.



Foot switch (wireless type*)

*Wired also available.



Monitor cart (dual 19" displays)

Easy-to-use controls

Controls for the arm are conveniently located on both sides — easily within reach for fast, easy operation during procedures.



① Arm movement controls



② Collimator controls



Detector enclosure ③ unlock and status LED

Integrated cables

The x-ray tube's high-voltage cables are built into the arm, allowing uncluttered movement and simplified cleaning.



Primary surfaces coated with antibacterial protection



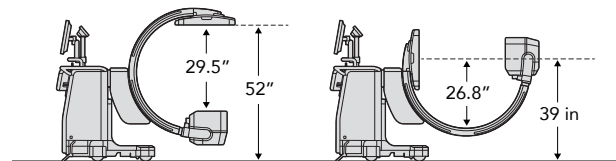
Hydro AG is engineered to kill bacteria on its surfaces and provides an added safety measure against hospital-acquired infections (HAIs).

- 99.99% effective against the most common bacteria
- 100 times more effective than traditional silver ion coatings*
- 10,000 times more effective than surfaces with no coating

* Based on residual bacteria counts

Open and easy positioning

The C-arm features a clean open design and its height is easily adjustable to accommodate a wide range of procedures and lateral imaging.



Fast, reliable and secure connectivity

DICOM output provides easy transfer of patient and exam data to RIS/PACS, and export of Dose SR via WiFi, Ethernet or USB media.





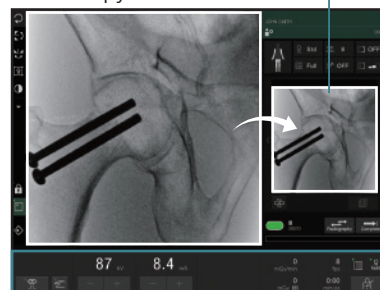
High quality imaging for surgical and other image-guided procedures

Integrated articulating touchscreen console provides easy workflow and viewing from any angle

FDR Cross uses a single console for both Fluoroscopy and X-ray imaging. In Fluoroscopy mode, snapshots and last image hold (LIH) captures can be used as reference images for the two-screen display. In Radiography mode, X-ray imaging can be performed for a complete imaging workflow.

Last Image Hold (LIH) can be saved as reference image

Fluoroscopy mode



Radiography mode



Exposure conditions can be operated on the console

Fujifilm's advanced image intelligence technologies enhance images frame by frame to generate exceptional detail at lower dose and with less lag.

Dynamic Visualization II

Intelligent feature recognition processing improves visibility and sharpness, dynamically adapting contrast and density to exposure data, anatomic definition, thickness and peripheral device or orthopedic hardware characteristics.

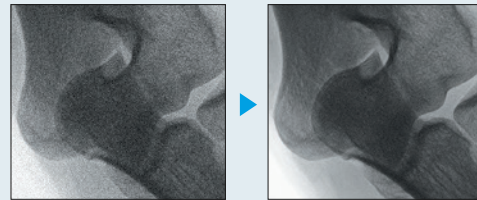


Conventional processing

Dynamic Visualization II

Noise Reduction technologies

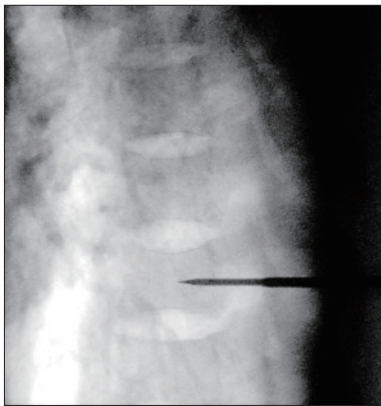
Innovative noise reduction circuitry and processing maximize signal strength and enhance visibility of dense, low dose and low penetration areas.



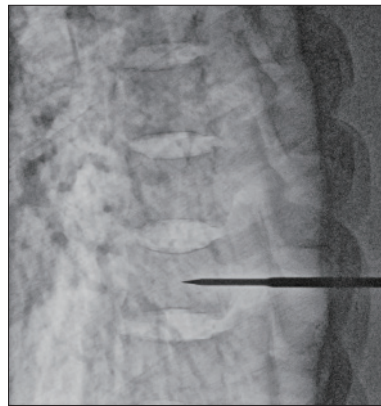
Before applying FNC

After applying FNC

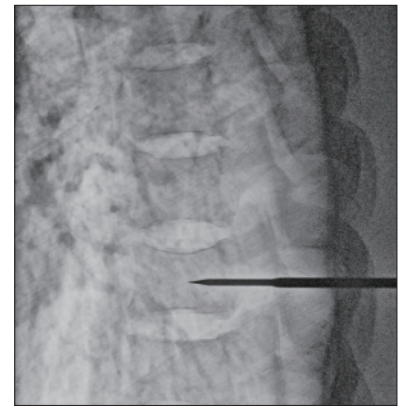
Advances in image processing enable high resolution at lower dose



General processing
Dose: 8.4mA



Applying Dynamic Visualization II
Dose: 8.4mA



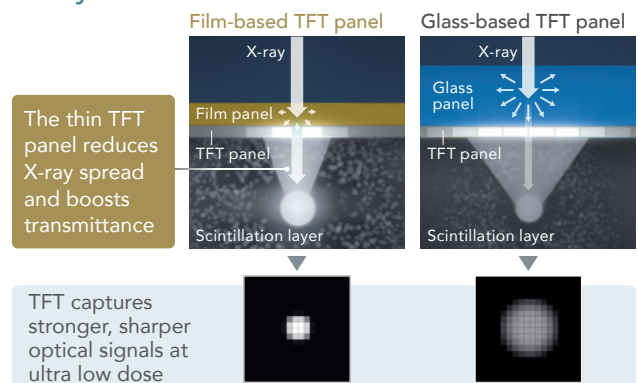
Applying Dynamic Visualization II +
Noise Reduction processing
Dose: 4.2mA

FDR D-EVO III detectors — Innovative glass-free, film-based TFT with Patented ISS technology promotes higher sensitivity

Fujifilm's patented ISS (irradiation side sampling) technology bonds its optical TFT sensors to the patient side of the capture layer (in contrast to conventional designs). This focuses capture where signals are strongest and sharpest, significantly suppressing scatter and attenuation. The result is improved sharpness and dose efficiency for better visualization even at ultra-low dose.

Combining ISS and glass-free film-based capture

By transition of the TFT detector from glass- to film-based, X-ray conversion is further improved achieving 58% DQE (1 Lp/mm - R QA51 mR). This unique technology combination is only possible with patented ISS technology to fully maximize the benefits of film-based detector technology.



FDR D-EVO III

FDR D-EVO III detectors are glass-free, making them lighter and more durable than standard detectors. Includes Fujifilm's exclusive Hydro AG antibacterial coating for added protection, tapered edges for enhanced patient comfort, and smooth sealed surfaces with IPX6 rating to simplify wipe down and deter liquid penetration.

Fluoroscopy mode and Radiography mode



D-EVO III C35i
(14" × 17" model)



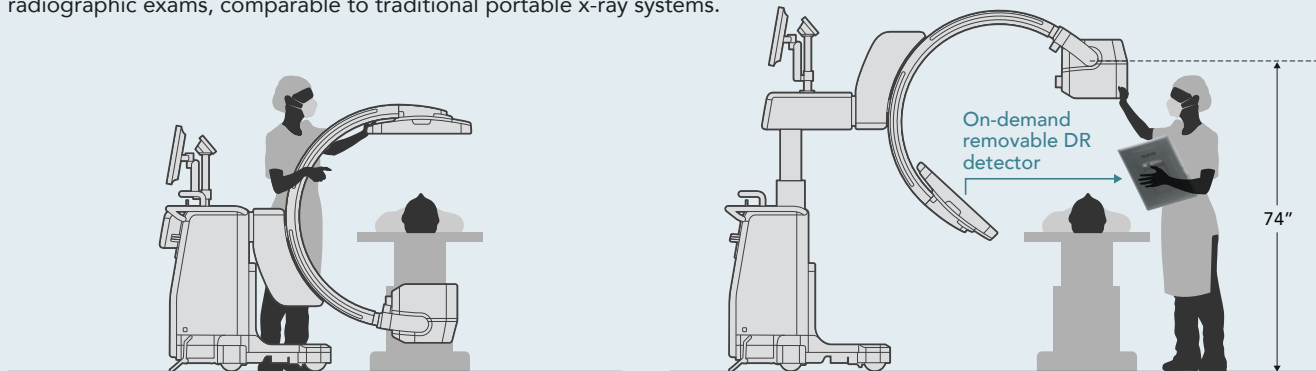
D-EVO III C43i
(17" × 17" model)



D-EVO III C25i
(10" × 12" model)

Two-in-one design — fluoroscopy and radiography imaging with one smart device

FDR Cross is an innovative hybrid c-arm and portable x-ray system. Its unique pivoting tube and removable detector allow clinicians to perform fluoroscopic and static radiographic imaging with a single platform. Its articulating design allows flexibility for positioning table-, standing- and even wheelchair radiographic exams, comparable to traditional portable x-ray systems.



Fluoroscopy mode

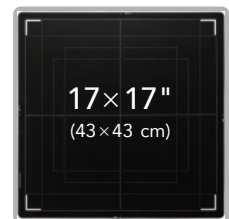
Use as a conventional C-arm to capture live digital fluoroscopy imaging with up to 17×17" FOV during surgical procedures.

Radiography mode

Capture high resolution static digital x-rays before- during- and after- surgery. The DR detector can be removed from its enclosure (and/or a separate DR detector can also be used).

Choice of panel sizes to meet your ideal workflow and budgetary needs

FDR Cross leverages Fujifilm's FDR D-EVO III glass-free flat panel detectors for advanced fluoroscopic and radiographic image quality. The interchangeable detector encasement is available in 3 sizes 17×17", 14×17" or 10×12", allowing versatility to match a wide range of exams, procedures and budget.



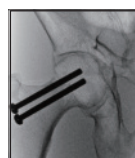
System features three sizes of interchangeable enclosures which utilize FDR D-EVO III CSI detectors.

Just Right Size Detectors

Interchangeable detector & enclosure sizes to optimally match anatomy or practice specialty. (14 & 10 are rotatable)



Limb
(10×12")



Fluoroscopy during
a surgery (10×12")



Spine and hip joints
(14×17")



Still image after
a surgery (17×17")

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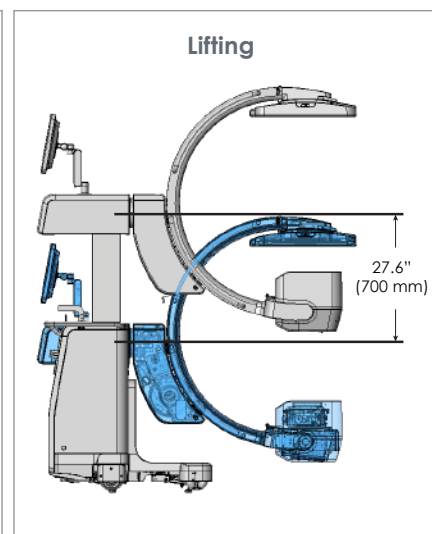
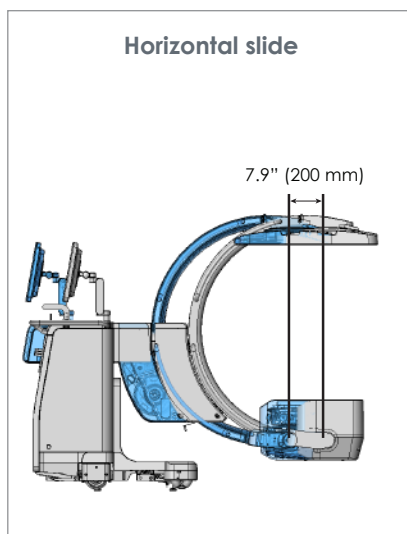
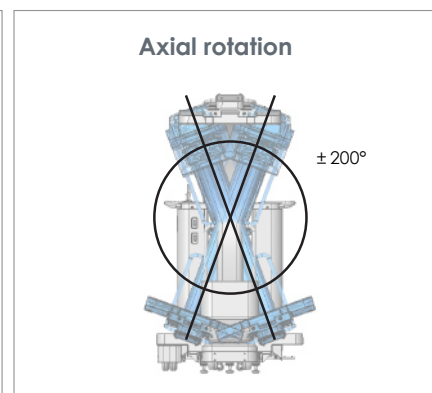
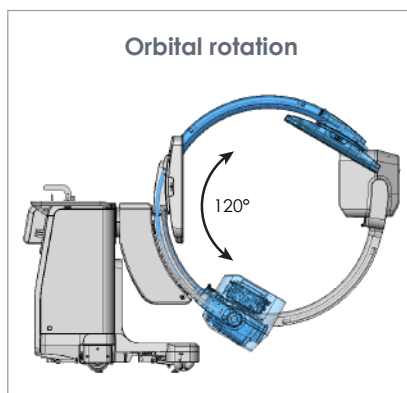
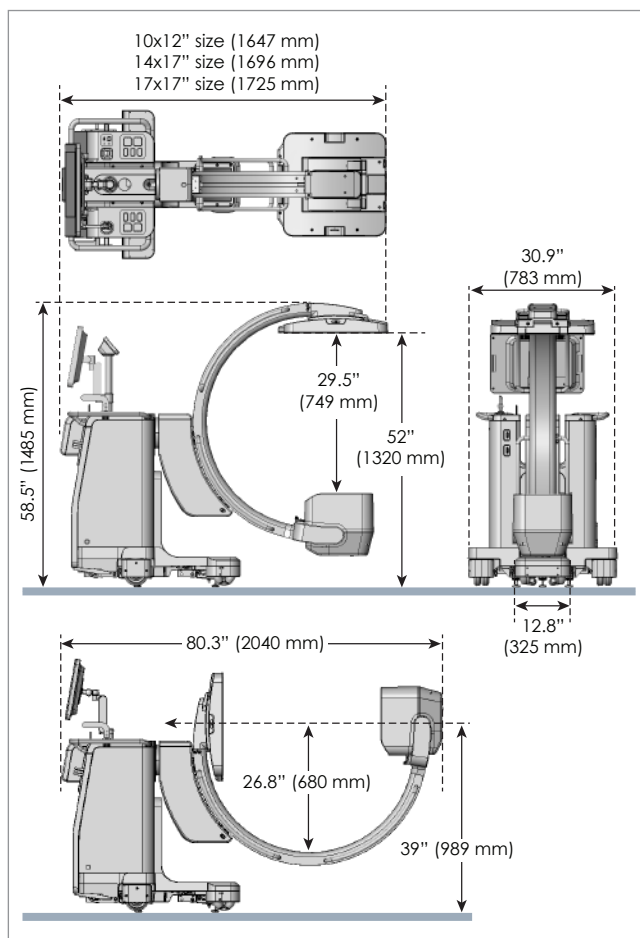
Hybrid c-arm and portable x-ray solution

PRODUCT SPECIFICATIONS

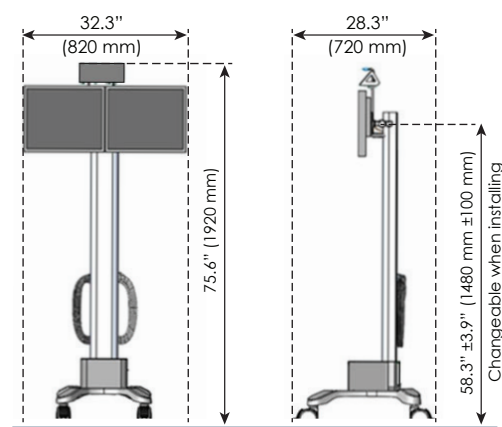


Ergonomics and weight	C-arm unit: 549 lb (249 kg) SID: 107 cm	Open space: 29.5" (75 cm)
Range of motion	Orbital rotation: -90° / +30° (120°) Angular rotation: ±200°	Vertical travel: 27.5" (70 cm)
X-ray tube	Model: stationary anode Focus: 0.6 mm Anode thermal capacity: 85 kHU (60 kJ) Anode continuous cooling rate: 840 HU/sec (600 W) Copper Filter: 0.1 mm radiography, 0.2 mm fluoroscopy	
X-ray generator	Power: 2 kW max kV: 110 kV max mA (pulsed fluoroscopy): 20 mA max mA (radiography mode): 25 mA	
Exposure modes	Auto-mode (low dose, standard, high image quality) Manual mode	
Flat panel detector	Technology: CsI coupled to TFT matrix aSi Pixel pitch: 150 µm Useful area: 350x425 mm ² / 425x425 mm ² / 247x297 mm ² Matrix: 2836x2336 pix / 2836x2832 pix / 1980x1648 pix Frame rate: 15/8/4/2 FPS	
Image quality	A/D conversion: 16 bits	
Anti-scatter x-ray grid	Application: User removable Material: Aluminum interspace	Line rate: 80 lines/cm; ratio 6:1 Focal distance: 107 cm
Laser localizer	Operation: cross light on flat panel and x-ray tube side Laser diode power: < 5 mW, 1 M Class Wavelength: 635 nm	
Operator control panel	Color 17" touchscreen LCD panel Resolution: 1284x1024 pix	
Power	Battery life time: 8 hrs fully charged, including 25 min fluoroscopy System can also be used plugged in standard AC outlet Power supply: 100-240 VAC (+/- 10%), 50/60 Hz, 5 - 12 A Battery: Li-ion Charging Time: 15 min charge for continuous 2 min fluoroscopy 4 hrs empty to full charge (80% / 3 hrs)	

Dimensions



Cordless Viewstation



View station	Color LCD panel LED backlight Size: Dual 19" monitors	Resolution: 1280x1024 pix Brightness: 350 Cd/m ²
Core clinical applications	Orthopedic Neurologic Urologic Endoscopic	Cholangiographic Peripheral vascular Pain management
DICOM compatibility	Dicom Modality Worklist Dicom Store Dicom Print Dicom RDSR Structured Dose Report	Dicom Query/Retrieve Dicom Media Export, USB Dicom Media Export, CDROM Dicom Storage Commitment
Power	Power supply: 100-240 VAC Supply frequency: 50-60 Hz Power input: 2.1 – 5 A	