



# FDR Visionary Suite

## Maximizing clinical outcomes



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## Improved image quality at a low dose

## Patented ISS capture technology promotes high sensitivity

Fujifilm's proprietary Irradiated Side Sampling (ISS) positions its capture electronics (TFTs) at the irradiation side, in contrast to traditional detectors. This design significantly suppresses scattering and attenuation of X-ray signals, improving efficiency to produce sharper images at lower doses compared to traditional designs.\*



## Versatile, simplified digital imaging

The FDR Visionary Suite is the next generation in fully integrated and automated digital x-ray systems. It is ergonomically designed and easy to operate, with minimal physical effort required, so technologists can focus on patient comfort and safety. This flexible high-performance system streamlines technologists' workflow and improves productivity while providing a faster, less-stressful experience for patients and staff alike.

> Compatible with FDR D-EVO detectors for maximum flexibility

Wide range of applications for improved diagnostics Automated Long Length | Digital Tomosynthesis | Dual Energy Subtraction

Simplified, optimized image workflow

#### Virtual Grid<sup>™</sup>

Virtual Grid intelligent image processing simulates grid use, reducing the effects of scatter radiation and noise in images acquired without an anti-scatter grid. Features include customizable grid properties (grid ratio, grid density, interspace material) and the ability to toggle Virtual Grid on and off for quality assurance.



VIRTUAL GRID

REAL GRID

## Multiple panel combinations and variations



Choose the FDR D-EVO detector to match your advanced clinical imaging and budgetary needs.

#### Full Advanced Applications System

Optional cutting-edge technologies such as digital tomosynthesis and dual energy subtraction provide additional imaging information for advanced diagnostic capabilities. These features require the FDR D-EVO Advanced detector(s).





#### Automated Long Length Imaging

Fully automated long length imaging is possible at both the upright and table with FDR D-EVO or FDR D-EVO Advanced detector(s).





Panel Name/Panel Type		FDR D-EVO Advanced C43A	FDR D-EVO II C43	FDR D-EVO II C35	FDR D-EVO II G43	FDR D-EVO II G35	FDR D-EVO II C24
Scintillator		Csl	Csl	Csl	GOS	GOS	Csl
Size		17×17″	17x17″	14x17″	17x17″	14x17″	24 × 30 cm
Applications	Digital Tomosynthesis	•	-	-	-	-	-
	Energy Subtraction	•	-	-	-	-	-
	Long Length Imaging	•	•	•	•	•	-
Cassette Tray		•	•	•	•	•	(Free exposure position)

## Wide range of advanced imaging applications contributes to improved patient outcomes



## Digital Tomosynthesis

#### Reconstruct and display image slices

With this technology, the x-ray tube acquires a series of images in a single sweep that are then reconstructed to create coronal cross-sectional image slices.

## Automatic x-ray dose control and background reconstruction

The exposure conditions for tomosynthesis can be automatically determined from a single reference image or set manually.



### Dual Energy Subtraction

#### Separate images of soft tissue and bone

Fujifilm's Dual Energy Subtraction (DES) is an advanced radiographic application designed to facilitate radiologist interpretation of an exam by eliminating anatomical structures that might otherwise obscure pathology. This technology, using the difference in x-ray energy absorption, creates separate images of soft tissue and bone. These images are then processed to create a single chest x-ray image.





#### Controlling motion artifacts

Motion artifacts that may occur between exposures are suppressed by multi-stage registration allowing for sharper images of soft tissue and bone.



n Suppression: OFF Motion Suppression: ON Soft Tissue Image



Motion Suppression: OFF Motion Suppression: ON Bone Image



Reconstruction algorithms with Dynamic Visualization reduce the effects of metal objects in the tomosynthesis image.



## Long Length Imaging

#### Full-length images of spine or lower limb





#### Upright



\*Depending on the degree of misalignment between images it may not be possible to implement automatic motion correction.

Simple handheld remote controls keep the technologist focused on the patient, not the equipment.



#### (1) Preparation



#### • Prepare the room without touching the system

The system features an auto-positioning function that moves the x-ray tube into position automatically.

#### X-ray stand

A movable range of 16 to 75" from the center of the exposure allows you to take images of the lower limbs from the cervical vertebrae down. The exposure platform can be adjusted from -20 to 90° so you can take images of the head and upper limbs.



#### X-ray table

Using the foot or grip switch\* it is possible to adjust the height quickly and easily between 21 and 34".

\*Option



#### ② Patient Guidance and Positioning



#### • Easily define the imaging position for each patient

The auto-tracking function automatically aligns the panel and x-ray tube so you can easily focus on patient positioning and care. You can switch between automatic and manual to simplify and maintain full control of positioning.

#### Automatically set radiation field size and alignment

The system automatically sets the preselected radiation field size for the area to be imaged and aligns the field to the upper or lower portion of the detector.

• Change settings easily with the LCD touch panel

The touchscreen on the tube displays imaging information and simple adjustment controls. The display screen even rotates 90 degrees to match the direction of the x-ray tube for easy viewing.





#### ③ Taking Images



## • Adjust exposure conditions without leaving the patient's side

Easy touchscreen controls on the graphic tube display are synchronized with the generator control panel in the control area.



## • Sound and light indicators signal when an x-ray is being taken

"Ready up" and "x-ray in progress" notifications are clearly signaled by sounds and lights on the frame and hand switch. You can choose from seven colors for the notification lights.





#### **FDR Visionary Suite Specifications**

- X-ray Generator
- Rated output: 80 kW
- Tube voltage: 40 to 150 kV
- Tube current: 10 to 1000 mA (80 kW model)
- AEC: Xe detector-type phototimer receiver combination up to three receivers
- X-ray Tube Support
- Ceiling fixture:
  - Fixed rail of 4 / 5.5 m Moving rail of 2 / 2.6 /3.3 m
- Movement range:

Longitudinal 2.95 m (4 m fixed rail) Longitudinal 4.45 m (5.5 m fixed rail) Transversal 1.4 m (2 m moving rail) Transversal 2.0 m (2.6 m moving rail) Transversal 2.7 m (3.3 m moving rail) Vertical 1.6 m

- Rotation: Vertical axis ±180° Horizontal axis -180° to +120°
- X-ray Tube Unit
- Maximum anode heat content: 400 kHU
- Maximum anode heat dissipation rate: 2200 HU/s
- Focal spot : 0.6 / 1.2 mm

#### Collimator

- Filtration: Inherent filtration 1.1 mmAl eq. Added filter of Cu 0.1 / 0.2 / 0.3 mm
- Standard accessories: Auto-filter Line marker

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- Detent (fitted at the home position)
- Area dosimeter adapter (Option):
  An adapter for dosimeter manufactured
  - An adapter for dosimete by VACUTEC

#### Table

- Tabletop size: 32 x 92.5"
- Table height: 21 to 36.6"
- Longitudinal range: ±15"
- Transversal range: ±5"
- Bucky moving range: 31.5"
- Max. load: 649 lbs
- Standard accessories:
  SID Tracking
  - Motorized Bucky Tracking
- Options: Compression belt Side cassette holder Grip switch
  - Hand grip
  - Drip hanger
  - Rear foot switch
- Stand
- Distance between Bucky top edge and floor surface: Motorized: 26 to 83"
- Tilting angle: -20° to 90°
- Standard accessories:
  - Auto Tube Tracking
  - Stop switch
  - Foot switch
- Options: Hand grip (mounted on top edge of the Bucky) Hand grip (mounted on back side of the Bucky) Cassette holder
  - Front handle
  - Both side operation
  - Compression belt
    - Patient stand (for Long Length Imaging) Wall mounting option (for BR-120)

FDR D-EVO detectors, please see respective brochures for details.



- Scintillator: Csl
- Detector external size: 18.25w x 20.3d x 0.7h"
   \*excluding convex part of the cable
- Weight: Approx. 9.9 lbs (including battery)
- Pixel size: 150 µm
- Maximum detecting area: 2816x2816 pixels
- Image preview: less than 2 sec
- Cycle time: less than 8 sec



Specifications are subject to change without notice. All brand names or trademarks are the property of their respective owners.

All products require the regulatory approval of the importing country.

For details on their availability, contact our local representative.

Actual x-ray images are varied by conditions of x-ray system or subjects or other factors.

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