

FDR Smart X Auto Positioning model Specifications

Generator



Line Powered Generator

We offer High Frequency X-ray Generator with varying capacities to suit different workloads of hospitals. Customer can choose either 52kW / 68kW / 82kW – Three Phase, based on their requirement.

FDR Smart FGXR series			
	FGXR-52S	FGXR-68S	FGXR-82S
Generator Model	GXR-52	GXR-68	GXR-82
Output Rating	52kW	68kW	82kW
Line Nominal, Phase	380 / 400 / 480VAC, 3Φ, ±10%		
Line Frequency	50*/60Hz (*Outside North America)		
kV Range	40~150kV, 1kV step		
mA Range	10 to 640mA	10 to 800mA	10 to 1000mA
Timer Range	0.001 to 10 sec, 38 steps		
mAs Range	0.1 to 500 mAs (Standard); 0.1 to 1000 mAs (Optional)		
Max. Power Output	640mA@81kV	800mA@85kV	1000mA@82kV
	500mA@104kV	640mA@106kV	800mA@102kV
	400mA@130kV	500mA@136kV	640mA@128kV
	320mA@150kV	400mA@150kV	500mA@150kV

FUJIFILM DR Series



Product name	D-EVO II G35	D-EVO II G43	D-EVO II C35	D-EVO II C43	D-EVO II C24
Scintillator	GOS (Gadolinium oxysulfide)	GOS (Gadolinium oxysulfide)	CsI (Cesium Iodide)	CsI (Cesium Iodide)	CsI (Cesium Iodide)
Detector size	Approx. 460 × 384 × 15mm	Approx. 460 × 460 × 15mm	Approx. 460 × 384 × 15mm	Approx. 460 × 460 × 15mm	Approx. 328 × 268 × 15mm
Weight	Approx. 2.5kg (including battery)	Approx. 3.1kg (including battery)	Approx. 2.6kg (including battery)	Approx. 3.2kg (including battery)	Approx. 1.5kg (including battery)

Dynamic Visualization II Optimizing Contrast and Density with latest Exposure Data Recognizer



Dynamic Visualization II

Contrast and density can automatically adjusted through recognizing each body part and object based on the estimated 3D information.



Conventional



Dynamic Visualization II



Conventional



Dynamic Visualization II

*Dynamic Visualization II is a function of D-EVO II.

- Specifications are subject to change without notice.
- All brand name 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.
- "FDR Smart X" is a combination system by DRGEM Corporation under EU MDR Article 22.
- This system consists of "FDR Smart FGXR series" (Manufacturer: DRGEM Corporation), "FDR D-EVO II" (Manufacturer: DR-ID 1200 by FUJIFILM Corporation) and "EX-Mobile" (Manufacturer: EX-M1 by FUJIFILM Corporation).
- "FDR Smart FGXR series" is a Class 2 laser product (IEC60825-1)
- "Stitching" function cannot be used with Smart Switch, Memory mode and FPD wireless connection.

FUJIFILM
Value from Innovation



DIGITAL RADIOGRAPHY SYSTEM

FDR Smart X

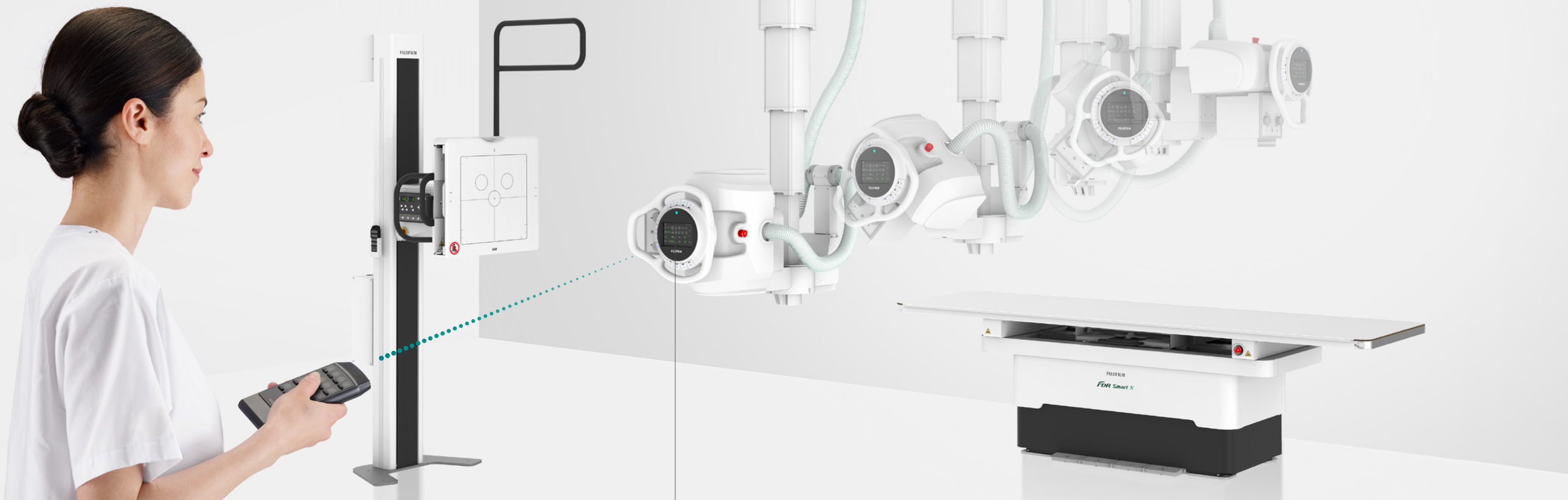
Auto Positioning model

FUJIFILM

FUJIFILM Corporation

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<http://www.fujifilm.com/products/medical/>

Auto Positioning supports for a smoother workflow and reduce the burdens of technologists



FUJIFILM is now offering FDR Smart X with auto positioning function. Presetting exposure conditions and positioning of the tube with combined technology of auto-connection and auto-tracking facilitate a smoother workflow.

Remote control operation

Enables to operate apart from the system by remote controller (Infrared type). It can also use the auto-positioning function that moves the X-ray tube into pre-defined position automatically.



Touch Screen Console

A Digital display on the tube head which is always horizontal provides easy access to exam parameters in the X-ray room. With one touch, enables to change the tube positioning.

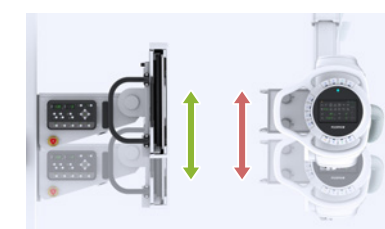


Automatic Tracking

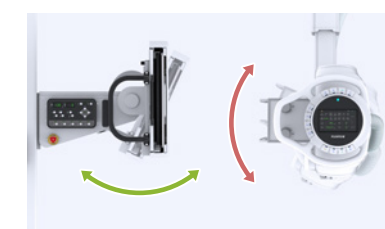
Tube head and bucky move synchronized with each other supporting positioning for exposure.

↔ Manual Operation

↔ Automatic Tracking



Motorized Vertical Synchronization with wall stand



Motorized Synchronization with tilting wall stand



Motorized Vertical Synchronization with table



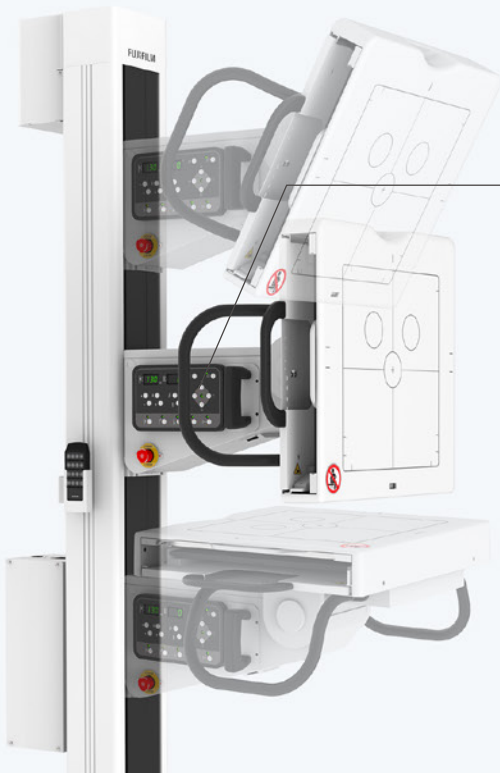
The table bucky tracks after the horizontal movement of the tube head (same as floor mounted tube head)



The table bucky tracks after the rotating motion of the tube head (same as floor mounted tube head)

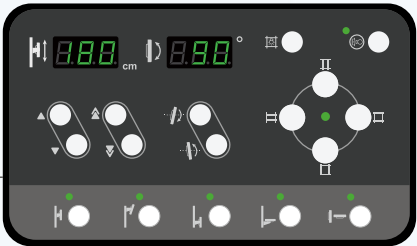
Wall Bucky Stand Automatic Tilting

Automatic and manual tilting of the upright bucky stand is available*. Providing an improved workflow for the radiographers and an improved experience to those patients in wheelchairs. *Different stand is lined-up for each



Control Panel of Automatic Tilting Wall Stand

The ability to store preset positions and move the wall stand automatically to those positions provides a quick and efficient workflow.



Remote Control

- Auto Positioning (User Programmable)
- Control of Synchronization with Tube Stand
- Motorized Collimation & Lamp Control
- Motorized Tilting Movement
- Motorized Vertical Movement

Removable Grid

Removable grids in both the table and upright stand, allow flexible working (such as Pediatrics).



Multi function stand and table supporting efficient workflow

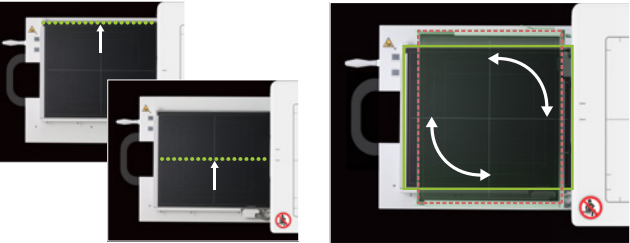
Elevating Patient Table

A motorized height adjustable floating top table with a maximum weight 300kg and the table bucky tracking for wide range. The table and the bucky sync with X-ray tube as it moves.



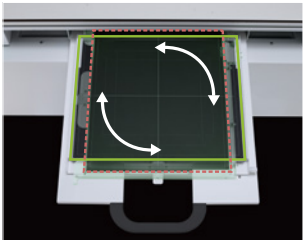
Dual Reference Rotation

Not only top reference, but also center rotation can be selected when using 14"×17" DR panels. This provides flexible solutions, enabling exposure of areas other than the chest without taking out the panel and insert again in rotated direction or using larger panel.



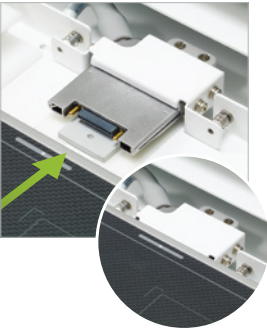
Rotating Tray

Rotating tray is also available for table. Direction of the panel can be changed according to the patient position.



Automatic Connection

The SE cable + connector are already built in the tray, thus, just setting the DR panels into the tray, DR panels are automatically connected. Also, there is no need to handle the cables around the bucky. Combined with rotation function, this will greatly improve efficiency and remove the stress of the workflow.



Automatic Collimation

The required collimation area, taking into account the SID (Source to Image Distance) is automatically adjusted to the body part selected from the exposure menu. Manual adjustments can be made easily if needed.

Automatic Filtering

Three sizes of copper filter automatically adjust to the designated body part selected on the exposure menu thus reducing unnecessary radiation, this filtration can also be used manually.

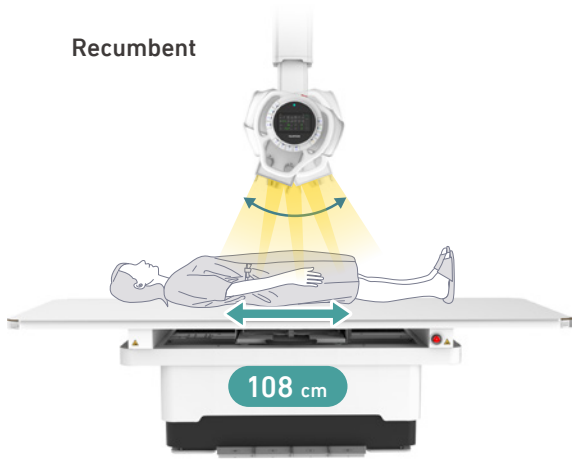
Automatic stitching

This system can automatically take multiple images and join each images to create exposure images of wide range. It can be used for both Stand and Table. Maximum length of stitching exposure for Stand is 160cm. Maximum length of stitching exposure for Table is 108cm.

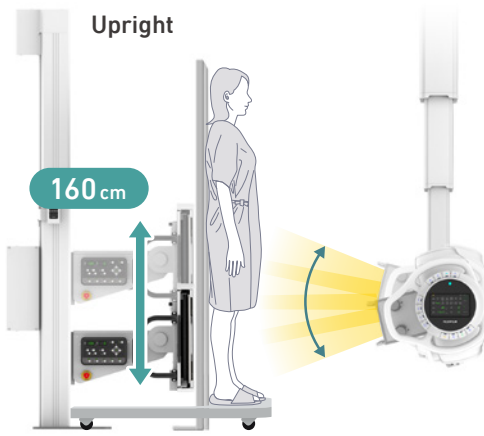
*Stitching stand is mandatory.
*This is the image size not the object size. Maximum object size depends on the magnification factor



Recumbent



Upright



Integrated and optimized workflow and high image quality



Integrated Console

Realizing optimized workflow

Detector Console and X-ray controller are integrated, displaying in the same monitor. Setting the exposure condition and selecting the exposure menu can be done in the same PC.

Technique select buttons



Connected modalities (panels / cassettes) are displayed both in Console and X-ray controller. By simply selecting the button, the modality can be changed and they are synchronized between Console and X-ray controller.

Status display for DR panel



When DR panel is used, it is available to confirm its status; wireless connection level, battery charge level, etc.



High definition, made smarter



14 x 17 inch model



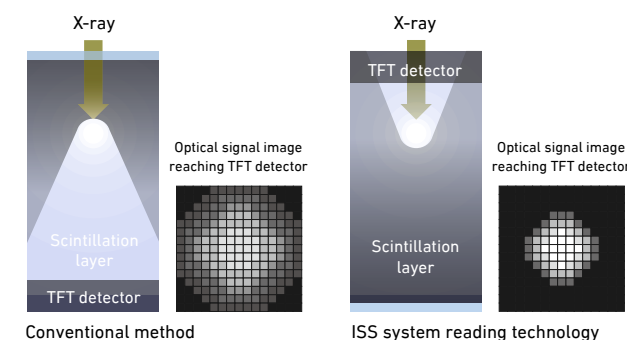
17 x 17 inch model

FDR D-EVO II

Improved image quality through Fujifilm's innovative designs like ISS and noise reduction circuit allows smarter imaging.

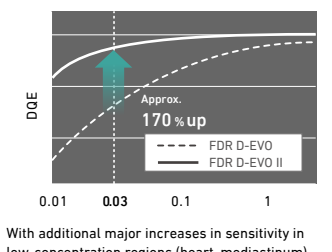
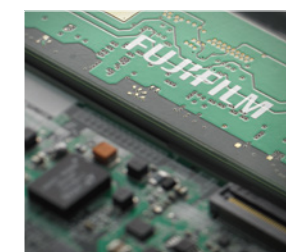
ISS system reading technology promotes high sensitivity

Using Fujifilm's ISS technology, the optical sensors (TFT) are bonded to the X-ray irradiation side of the FPD unlike traditional flat panel detectors. This greatly suppresses scattering and attenuation of x-ray signals, creating sharp images at lower x-ray doses.



Fujifilm noise reduction circuit improves detector sensitivity in high absorption regions

The uniquely developed noise reduction circuit reduces noise in the image. It achieves 1.7 times the DQE of existing systems with a 0.03 mR dose. In particular, granularity of low-concentration regions such as the heart and mediastinum is dramatically improved.



With additional major increases in sensitivity in low-concentration regions (heart, mediastinum)

Smooth connection for DR system and EX-Mobile

DR panel and EX-Mobile can be used for FDR Smart X. EX-Mobile is newly introduced as a system configuration for FDR Smart X. With the EX-Mobile that installed such as CAD software*, the analyzed and processed image can be displayed on the console.

*EX-Mobile doesn't include the CAD software, so it is necessary to purchase the product designated by the Company.

