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DK+, the Best Healthcare Company

Digital Radiography System

INNOVISION - EXII

CE 2460

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※ The appearances and specifications are subject to change without prior notice for further improvement.

MCE-INNOVISION-EXII-MA-v1.0

DK+ Medical Systems

DK+

The Best Healthcare Company, DK+ Medical Systems

Since 1992, we have been a leading manufacturer at the forefront of the industry, specializing in high-quality medical X-ray systems.

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2

1. **H.Q** Seoul, Korea
2. **FACTORY** Pyeongtaek, Korea

Generator

- High-frequency inverter
- Low ripple tube voltage for high X-ray quantum efficiency
- Variable frequency control according to load conditions
- Stable and consistent X-ray output

Specification

	HX-630C	HX-1000C(Option)
kW	50kW	80kW(Option)
kV Range	40 - 150kV	40 - 150kV
Power Output Ratings	320mA at 150kV	500mA at 150kV
	500mA at 100kV	1000mA at 80kV
sec Range	1ms - 6.3sec	1ms - 10sec
mA Range	10 - 630mA	10 - 1000mA
mAs Range	0.1 - 630mAs	0.1 - 1000mAs
Anatomical Programing	Advanced anatomical programming provides a variety of APR settings based on each patient's condition.	
Automatic Exposure Control (2 Chambers)	Optional	Optional
Bucky Signal Supply	Standard	Standard
Line Voltage	380 - 400Vac, 50/60Hz	380 - 400Vac, 50/60Hz
	Three Phase	Three Phase
Digital Interface	Available	Available
Tube	E7884X	E7869X
		RAD-14

※ The specification on the table can be changed.

Structure

Ceiling Type

| Elin-T5

| Elin-T4

| Elin-T3 Plus

Floor Type

| SF-90(B)/ VB-90/ TF-90

| SF-90(C)/ VB-90/ TE90

Universal Type

| SF-90(T)/ DS-90T

Elin-T5

Digital Radiography System

INNOVISION - EXII

Ceiling Type (Elin-T5)

Superiority and Efficiency of the Ultimate Versatile System

INNOVISION-EXII, powered by a Flat-Panel Detector, meets a full range of clinical requirements while minimizing redundant steps, optimizing the workflow and overall performance. It ensures safe, simple, and fast acquisition of high-resolution radiographic images with low radiation exposure.

Its unprecedented ease-of-use networking with DICOM 3.0 compatibility, enables a streamlined workflow through seamless real-time diagnosis and data transfer. Its refined design and intuitive operation provide an ideal condition for any radiographic environment.

The Power of Digital Imaging

Digital Imaging brings remarkable advantages to medical radiology, from instantaneous top-quality images, easy image processing, efficient transmission, and storage. The use of a flat-panel detector offers clinical advantages such as immediate image display, superior image quality, and more precise diagnosis.

Operators can use various image-processing functions, such as contrast adjustment, image magnification, and color enhancement. These features enhance diagnostic accuracy in situations requiring speed and efficiency. Digital imaging simplifies every step of radiography improving usability for the operator and comfort for patients, achieving the core benefits of digital radiography—easier, cleaner, and faster than conventional systems.

TE-100

DS-100

Automatic Positioning for Flexible and Versatile Applications

Auto-Positioning for Patient Comfort and Safety

With a single button press, the ceiling-mounted X-ray tube support automatically moves to the pre-registered position, in relation to the bucky stand and table. The SID and X-ray tube angle also changes automatically, allowing for quick preparation. This process ultimately contributes to a remarkably efficient workflow. For precise alignment, manual positioning is also available.

Auto-positioning

Remote control

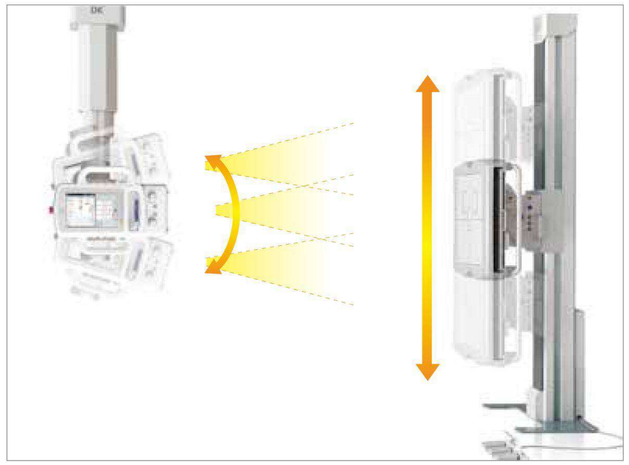
Auto positioning is a highly advanced type of automation. In addition to auto-tracking synchronization, the system moves both the tube head and the bucky to pre-programmed positions via the system console. This feature improves workflow efficiency by allowing users to pre-register exam protocols. With a single press of a button, the X-ray system can automatically transition between exams and be in position before the patient enters the exam room.

Advanced Imaging Applications

Auto-Stitching for Whole-Spine and Long Bones

Auto-stitching

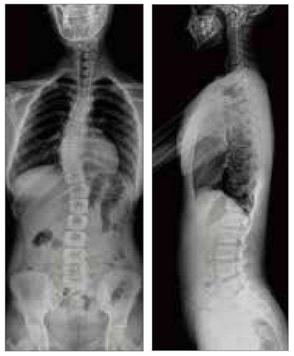
Elin-T5 offers easy-to-use auto-stitching functionality for both bucky stand and table examinations, enabling fast and convenient lone bone imaging. With just a few clicks, the system automatically performs accurate stitching based on patient height.



While swinging the X-ray tube and moving the FPD, images are captured through Elui image stitching with greater speed and precision.

Clinical Benefits of Whole-Spine Imaging

DS-LB



Easily visualize the entire spine by combining images with Elui image stitching software.

Orthopedic diagnosis is enhanced by this innovative application software in areas such as scoliosis evaluation. It enables accurate measurement of spine angles and distances between anatomical entities, supports monitoring of therapeutic progress over time, and assists in identifying indications for orthopedic surgery.

Ergonomic Design for High-Performance and Easy Operation

Bucky Tilt for horizontal upper extremity studies

Tiltable Bucky Stand (-20˚~ 90˚ tilting angle)

The motorized tilting bucky stand provides precise horizontal positioning, optimized for upper extremity imaging. It accommodates a broad range of patient anatomies and clinical applications. The X-ray tube movement can be coordinated with the bucky tilt to support proper alignment and promote efficient imaging workflow.

Elevating Horizontal Radiographic Table

The four-way floating top with electromagnetic locks allows for smooth and convenient positioning. It features a highly rigid structure and durable shock-absorption mechanism.

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Digital Radiography System

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Ceiling Type (Elin-T4)

Enhanced Convenience & Efficiency for Operators

- Synchronized with wall stand and table
- Long vertical travel of the tube support
- 7" LCD display
- Auto-stitching function

DS-90

Elin-T4

TE-90

Specification

Elin-T4	
Balance System	Spring Balance
Vertical Travel	1,500mm
Longitudinal Travel	Max. 2,820mm
Transverse	Max. 2,130mm
Tube Rotation	±135°
Tube Swivel	±180°
Driven Type	Manual or Manual Driven
THD*	Tube Angle & SID Display
	LCD Type

TE-90 (S)	
Type	6 way Table
Dimension (L)	2,000mm
Dimension (W)	800mm
Longitudinal Travel	600mm
Transverse Travel	300mm
Vertical Travel	290mm (566 - 856mm)
Bucky Movement Range	526mm
Vertical Movement Type	Actuator Type
Bucky Type	Fixed Detector Type (Basic)
	Cassette Tray Type (Option)
Tabletop Material	Acryl

DS-90 (S)	
Type	Detector Stand
Balance System	Weight Balance
Bucky Type	Fixed Detector Type (4343)
Vertical Travel	1,420mm
Height	2,027mm
Drive Type (Vertical)	Manual & Motor
Vertical Lock	Electro Magnetic

※ The specification on the table can be changed.

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Auto-Synchronization

The ceiling-mounted tube support moves both vertically and horizontally in synchronization with the wall stand and table. It automatically adjusts to a preset SID, enabling fast and precise positioning.

Synchronized with Table

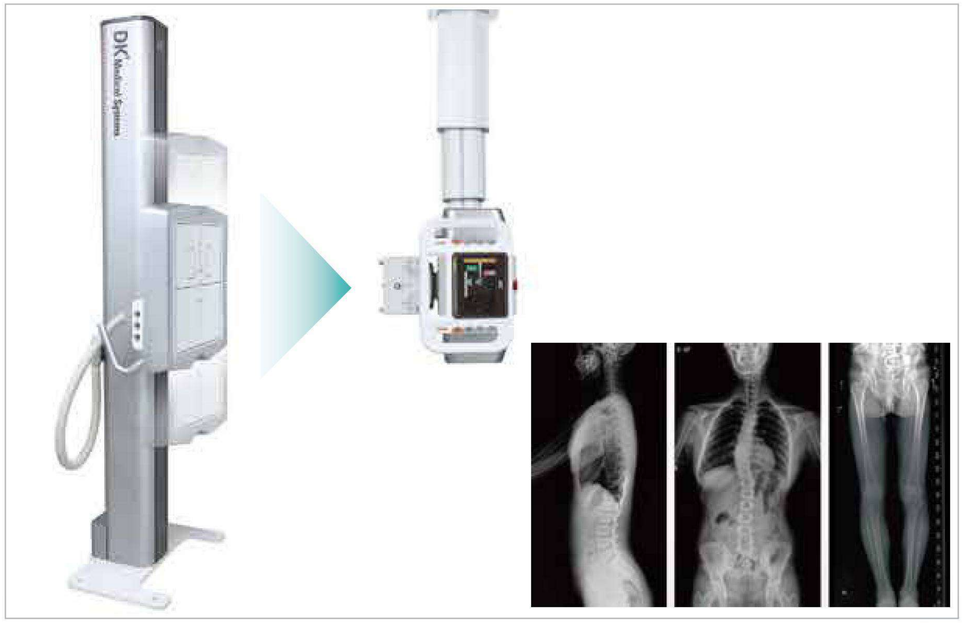
Synchronized with Wall Bucky Stand

7-inch LCD on the handlebar displays tube angle degrees, SID, and table/stand status

Motorized Up / Down Movement

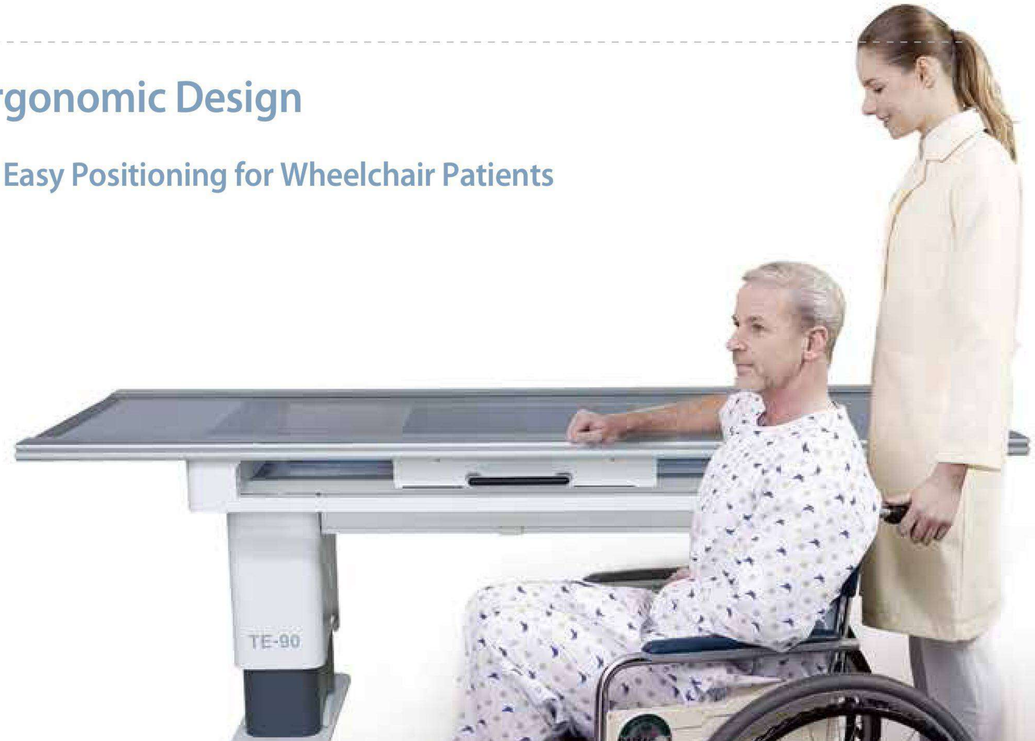
Auto-Stitching

Elin-T4 supports automated image stitching on both the bucky stand, enabling full-spine and lower extremity imaging in standing positions. Acquired images are seamlessly stitched into a single image to ensure consistent diagnostic quality and anatomical accuracy. With the Elui workstation, users can preselect patient height for efficient, height-based stitching and improved workflow.



Ergonomic Design

Easy Positioning for Wheelchair Patients



Digital Radiography System

INNOVISION - EXII

Ceiling Type (Elin-T3 Plus)

The Field-Proven System

- Best-selling and trusted by customers
- Can be configured for manual or semi-automatic operation

DS-90

Elin-T3 Plus

TF-90

Specification

Elin-T3 Plus	
Balance System	Spring Balance
Vertical Travel	1,300mm
Longitudinal Travel	Max. 2,867mm
Transverse	Max. 2,711mm
Tube Rotation	±180°
Tube Swivel	±180°
Driven Type	Manual Driven (Motor Option)
THD*	Analog Type Goniometer

TF-90	
Type	4 Way Table
Dimension (H)	700mm
Dimension (L)	2,000mm
Dimension (W)	800mm
Longitudinal Travel	600mm
Transverse Travel	300mm
Bucky Movement Range	480mm
Bucky Type	Cassette Tray Type (Basic)
	Fixed Detector Type (Option)
Tabletop Material (Basic)	Melamine

DS-90	
Type	Bucky Stand
Balance System	Weight Balance
Bucky Type	Fixed Detector Type (4343)
Vertical Travel	1,420mm
Height	2,027mm
Drive Type (Vertical)	Manual
Vertical Lock	Electro magnetic

※ The specification on the table can be changed.

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Digital Radiography System

INNOVISION - EXII

Universal Type System

I SF-90(T) / DS-90T / TM-22

Specification

DS-90T	
Type	Detector Stand
Balance System	Weight Balance
Bucky Type	Fixed Detector Type (4343)
Vertical Movement	1,240mm
Longitudinal Travel	1,800mm
Detector Rotation	±45° (Manual)
Detector Tilting	±90° (Motor Driven)
Driven Type (Vertical)	Motor Driven
Driven Type (Rail)	Motor Driven
Height	2,101mm
Floor Rail	2,422mm
Vertical Lock	Electro Magnetic Lock

TM-22	
Type	Mobile Table
Dimension (H)	700mm
Dimension (L)	1,950mm
Dimension (W)	728mm

SF-90	
Type	Floor to Ceiling Type
Balance System	Spring Balance
Vertical Movement	1,450mm (Manual Basic)
	1,420mm (Motor Options)
Longitudinal Travel	Rail 2,400mm(Basic) : 1550mm
	Rail 2,800mm(Option) : 1,950mm
	Rail 3,500mm(Option) : 2,650mm
Tube Rotation	±90°
Driven Type	Manual Driven (Basic)
	Motor Driven (Option)
Height	2,113mm
Fixed arm length	1,011mm
THD*	Analog Type Goniometer
	LED Light

※ The specification on the table can be changed.

Feature

Unique and Resourceful Design

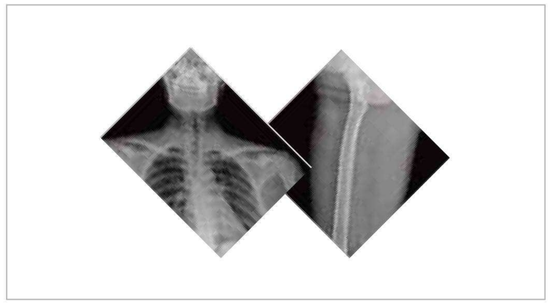
- Versatile digital radiography system equipped with a 17"x17" flat-panel detector
- Specifically designed for limited spaces, especially those with low ceilings

I Chest Mode

I Table Mode

I Stand Knee / Ankle Position

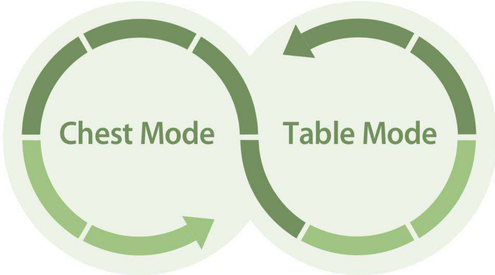
I 45 ° Rotation



I Clavicles / Femur

Motorized Remote Control

- Motorized Operation by Remote control



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Digital Radiography System

INNOVISION - EXII

Floor Type System

I SF-90(B) (Floor to Ceiling Type) / VB-90 / TF-90

I SF-90(C) (Stand Alone Type) / VB-90 / TE-90

Specification

I SF-90(B)

SF-90(B)	
Type	Floor to Ceiling Type
Balance	Weight Balance
Vertical Movement	1,453mm
Longitudinal Travel	Rail : 2,400mm (Basic) : 1,550mm
	Rail : 2,800mm (Option) : 1,950mm
	Rail : 3,500mm (Option) : 2,650mm
Transverse Travel	225mm
Tube Rotation	±90°
Tube Swivel	±90°
Driven Type	Manual
THD	Goniometer (LED Type)

I SF-90(C)

SF-90C	
Type	Stand-alone Type
Balance	Weight Balance
Vertical Movement	1,450mm
Longitudinal Travel	Rail : 2,400mm (Basic) : 1,800mm
	Rail : 3,000mm (Option) : 2,400mm
Transverse Travel	225mm
Tube Rotation	±90°
Tube Swivel	±90°
Driven Type	Manual
THD	Goniometer (LED Type)

I VB-90

VB-90	
Type	Floor to Ceiling Type
Balance System	Weight Balance
Bucky Type	Cassette Tray Type (Basic)
	Fixed Detector Type (Option)
Vertical Travel	1,450mm
Height	2,027mm
Drive Type (Vertical)	Manual
Vertical Lock	Electro Magnetic

I TF-90

TF-90	
Type	4 Way Table
Dimension (H)	700mm
Dimension (L)	2,000mm
Dimension (W)	800mm
Longitudinal Travel	600mm
Transverse Travel	300mm
Bucky Movement Range	480mm
Bucky Type	Cassette Tray Type (Basic)
	Fixed Detector Type (Option)
Tabletop Material(Basic)	Melamine

I TE-90

TE-90	
Type	6 Way Table
Dimension (L)	2,000mm
Dimension (W)	800mm
Longitudinal Travel	600mm
Transverse Travel	300mm
Vertical Travel	290mm (566~856mm)
Bucky Movement Range	526mm
Vertical Movement Type	Actuator Type
Bucky Type	Cassette Tray Type (Basic)
	Fixed Detector Type (Option)
Tabletop Material	Melamine(Basic)
	Acryl (Option)

※ The specification on the table can be changed.

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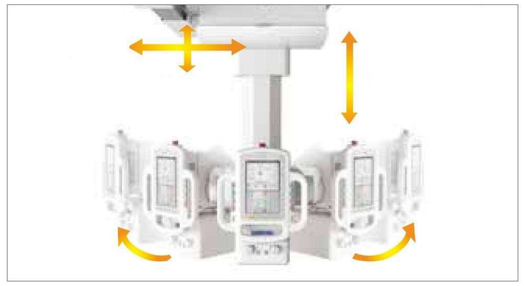
Quick and Easy Preparation for Examinations

Soft Handling for Ceiling-Mounted X-ray Tube Support



Smooth manual movement

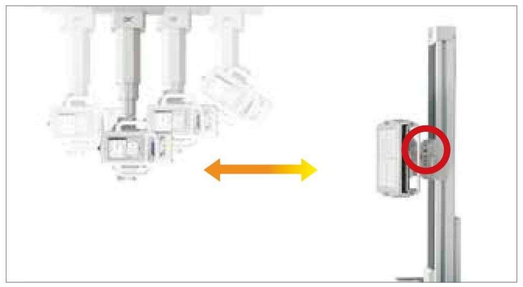
Long vertical stroke

End Study Button

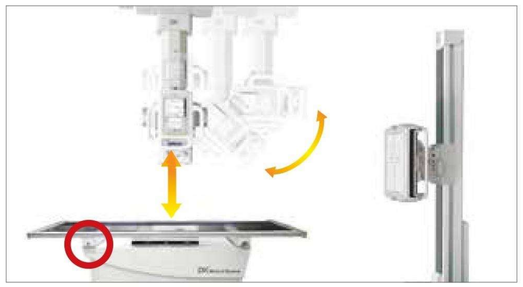
When the 'End Study' button is pressed after the examination, the tube support automatically moves up and the table lowers, allowing patients to get off the table easily and safely. This feature enhances workflow efficiency by allowing operators to focus more on patient care after the procedure.

Call Buttons for the Registered Position

With a press of a call button on the bucky stand or table, the ceiling-mounted tube support automatically moves to the preset position aligned with the center of the detector. Regardless of its initial location, the tube support enables quick and convenient system setup.



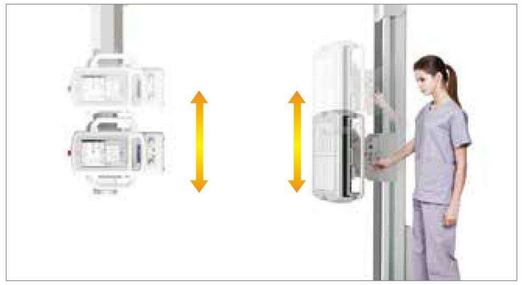
Call button for wall bucky stand



Call button for table

Ceiling-Suspended X-ray Tube Support Linked with a Wall Bucky Stand and Table

The focal spot of the X-ray tube moves vertically in synchronization with the bucky stand and table. The X-ray tube automatically adjusts to a preset SID, enabling precise and fast positioning.



Synchronized for chest exams

Auto-synchronization

Detector Unit Synchronized to the Ceiling-Mounted X-ray Tube Support

The longitudinal movement of the detector can be easily synchronized with the X-ray tube support. This alignment between the X-ray field and the detector enables fast and accurate positioning for complex exams, such as oblique radiography.

Elui Software

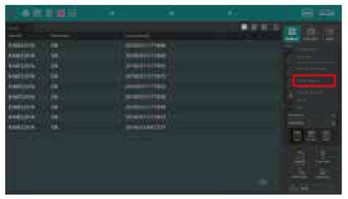
Optimized Image Processing Software

ELUI an advanced image-processing software optimized for digital radiography. Using ELUI, X-ray exposure and image parameters can be adjusted conveniently from the main screen. After the exposure, the image is transferred and displayed on the monitor (within 3 sec through wired detector).

This feature streamlines the workflow and saves time. With ELUI, users can quickly review and assess patient conditions, supporting faster and more accurate diagnosis.

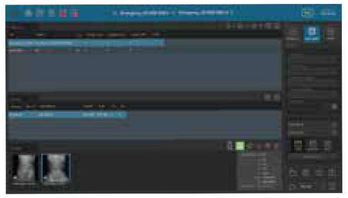
Powerful User Interface
- All-in-one Work Flow
- Display Device Information

Advanced Image Post-processing
- Superior Noise Processing
- Optimized Image Enhancement

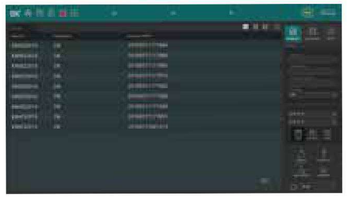


Remote Service
- Includes Remote Access Software
- Download Files and Maintenance Instructions

Easy Tools
- Intuitive Icon
- Convenience Motion Control (Pan/Zoom/Windowing)



Easy Statistics Report
- Statistical Analysis Function
- Exports Images



Patient Worklist Integration
- Support Modality Worklist
- Quick access for Emergency Studies

Auto-Stitching

This module automatically stitches multiple images, performs measurement and sends DICOM compliant images to a printer and/or PACS.

Specification

FPD Specification	FXRD-1717VA/VB	FXRD-1417NAW/NBW
Detector Type	Indirect	Indirect
X-ray Conversion	A : CsI (Cesium Iodide)	A : CsI (Cesium Iodide)
	B : Gadox (Gadolinium Oxysulfide)	B : Gadox (Gadolinium Oxysulfide)
Wired / Wireless	Wired	Wireless
Panel Size	17 X 17 inch	14 X 17 inch
Total Pixel Number	3,072 X 3,072	A: 2,536 X 3,048
		B: 2,548 X 3,060
Image Format	16 Bit	16 Bit
Spatial Resolution	Min 3.5 lp/mm	Min 3.5 lp/mm
Pixel Pitch	140 Micron	140 Micron
Acq. Time*	Elui(DXIE) : 2.5 sec	- Wireless type Elui(DXIE) : 3.5 sec Elui(XIPL) : 4.5 sec
	Elui(XIPL) : 3.5 sec	- Wired Type Elui(DXIE) : 2.0 sec Elui(XIPL) : 3.0 sec
AED	Yes	Yes
Dimension	460mm × 460mm × 15.5mm	384mm × 460mm × 15mm
Weight	4.5kg	2.9kg (Including battery packs)

FPD Specification	FXRD-3643FAW	FXRD-4343FAW
Detector Type	Indirect	Indirect
Image Sensor	Flexible a-Si(Amorphous Silicon) TFT	Flexible a-Si(Amorphous Silicon) TFT
X-ray Conversion	CsI (Cesium Iodide)	CsI (Cesium Iodide)
Wired / Wireless	Wireless	Wireless
Panel Size	14 × 17 inch	17 × 17 inch
Total Pixel Number	3548 (W) x 4316 (H) pixels	4316 (W) x 4316 (H) pixels
Image Format	16 Bit	16 Bit
Spatial Resolution	Min 5 lp/mm	Min 5 lp/mm
Pixel Pitch	99 Micron	99 Micron
Dimension	460mm × 640mm × 15.5mm	460mm × 460mm × 15.5mm
Weight	① 2.4 kg (Battery Pack 1ea)	① 2.95 kg (Battery Pack 1ea)
	② 2.6 kg (Battery Pack 2ea)	② 3.15 kg (Battery Pack 2ea)
Data Transmission Speed	① Wired: Max. 1 Gbps	
	② Wireless: Max. 300 Mbps (IEEE802.11 n, MIMO 2x2, 5 GHz, 40 MHz) Max. 1300 Mbps (IEEE802.11 ac, MIMO 3x3, 5 GHz, 80 MHz)	

※ The specification on the table can be changed.

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