Auto Positioning System

GXR-SD Digital Radiography System

Experience optimized workflow and maximize your performance

DRGEM
Your Best Healthcare

CE 2460   CSA C US

Maximize Your Performance

Fully automated streamline workflow offering auto tracking and positioning features, increase throughput and enhance the experience of patients and operator focusing more on patient care. Fully motorized auto-positioning provides precision positioning to both the wall stand and table with speed and effortless movements. The combination of automation with the pre-programmed RADMAX procedure and the automated RADMAX image processing gets you up to speed, for maximum efficiency.

WBS-TA Deluxe
Automatic Tilting
Wall Bucky Stand

TS-CSP Deluxe
Automatic Ceiling suspended
Tube Stand

PBT-6 Deluxe
Elevating
Patient Table

Auto Rotating Touch Screen Console

Worklist

Procedure

Positioning

Generator Control

Collimation Control

Image Preview

Multiple Control Options for Convenience and Efficiency

RADMAX Work Station

Tube Stand Touch Screen (15.6 inch)

Remote Control

Mini Remote Control

Control Panel of Wall Bucky Stand (on the both side)

WBS-TA Deluxe 10.1 inch LCD
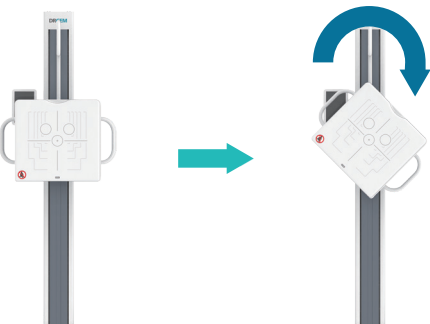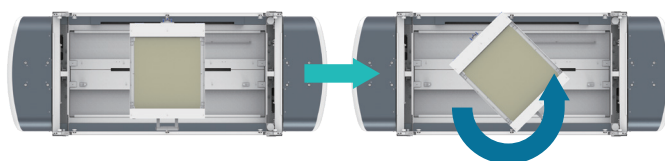
Handgrip Switch

Wireless foot switch

Wired foot switch

Motorized Vertical Movement (Up / Down)
Release all of lock (Lateral / Longitudinal)

45° Bucky Rotating

The length gets 1.4 times longer when it rotates, which helps take better X-ray images of tall patient's arm and leg bones.

WBS-TA (Deluxe)

PBT-6 (Deluxe)

Auto Positioning – Wall Bucky Stand

- Chest radiography positioning at SID 180cm(S2) by one touch operation.
- Abdomen at SID 100cm(S1) by one touch operation
- Vertical synchronization between wall bucky and tube is available.

In the system setting, enter the S1 and S2 position

Wall Bucky Centering (Tilted Wall Bucky Synchro)

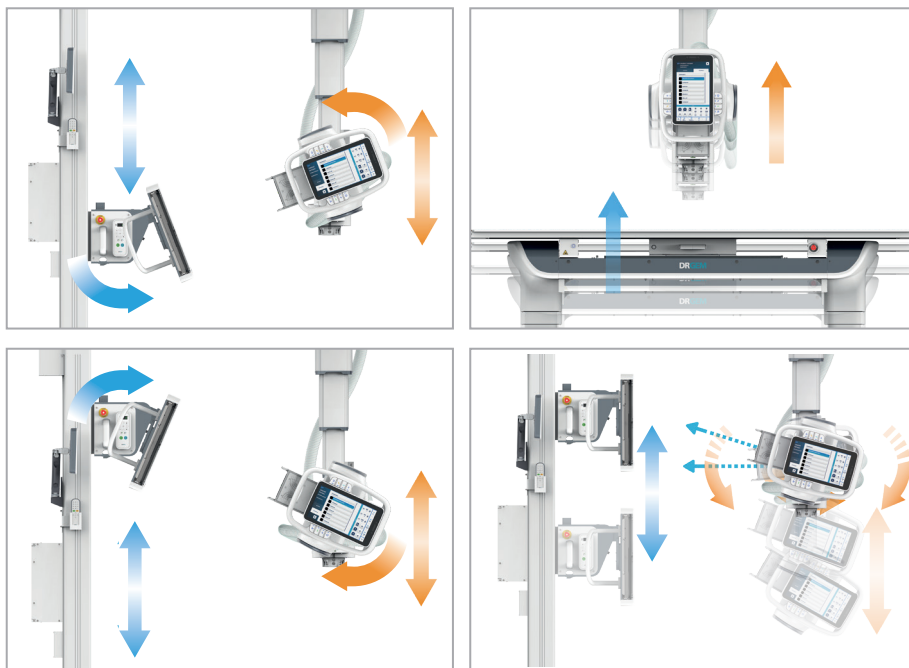Tube tracking the center of Wall Bucky in vertical movement and tube rotating to expose the tilted Bucky perpendicularly at the same time.

Table Bucky Tracking
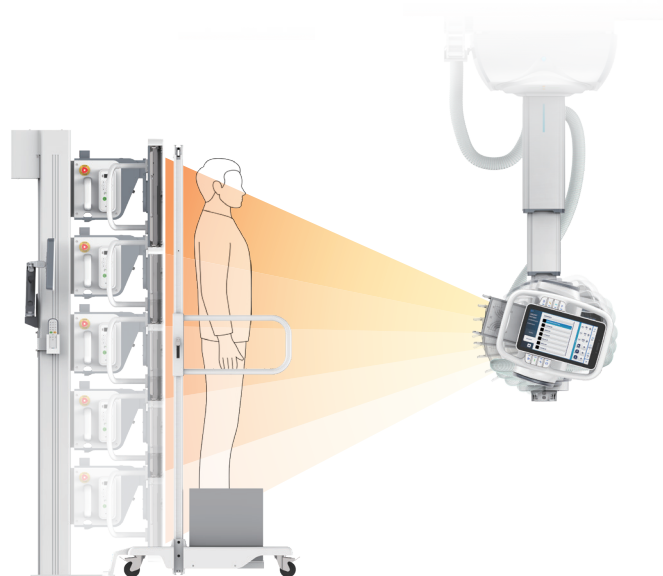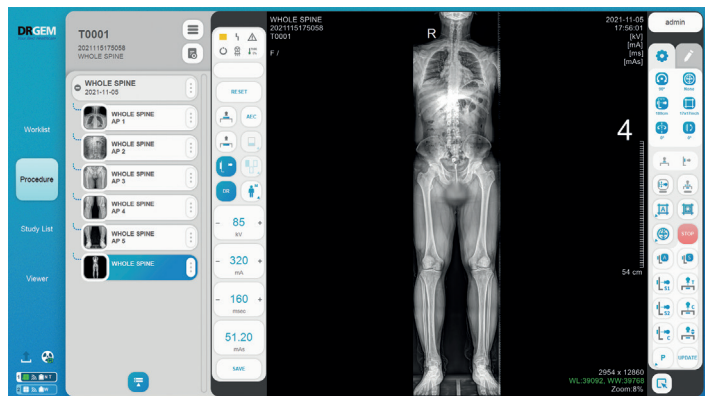
Bucky follows Tube

Vertical Synchronization

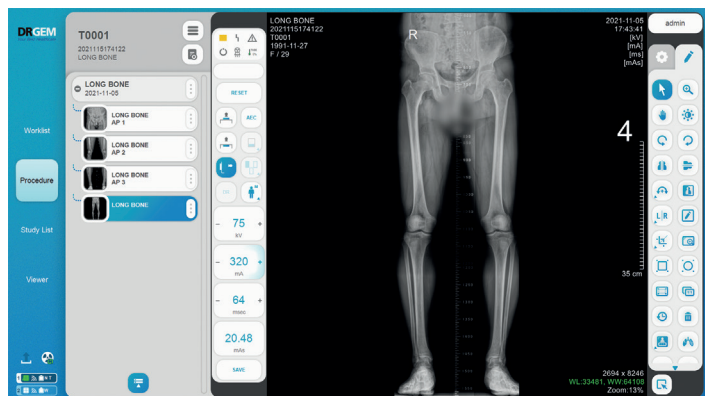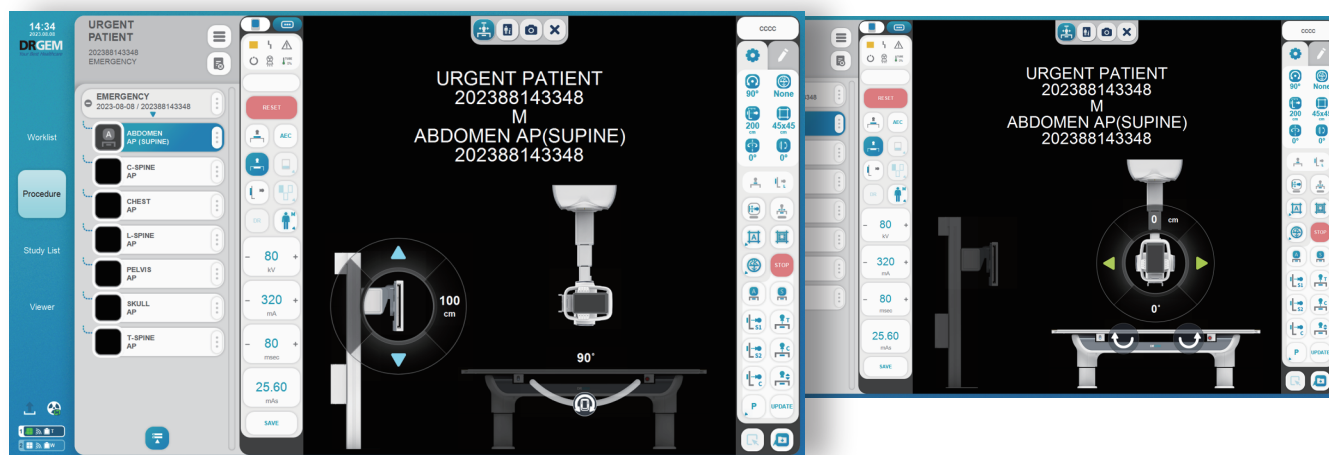### Tube follows Bucky

Auto Stitching

Wall Bucky Stand

Patient Table
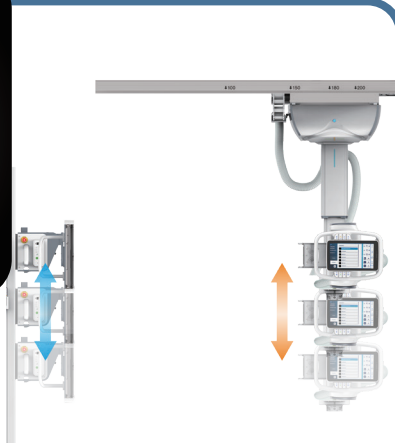
Precision Movement Control

The operator can precisely control the Tube Stand position (Longitudinal Direction), Tube angle, and WBS height via the RADMAX control panel without directly approaching the equipment. Precision Movement Control functions enable intuitive and convenient operation.

❶ When Tube Stand Moves
❷ Table Bucky Tracks & Follows

❶ When Tube Angle Rotates
❷ Table Bucky Tracks & Follows

❶ When Wall Bucky Moves
❷ Tube Stand Tracks & Follows
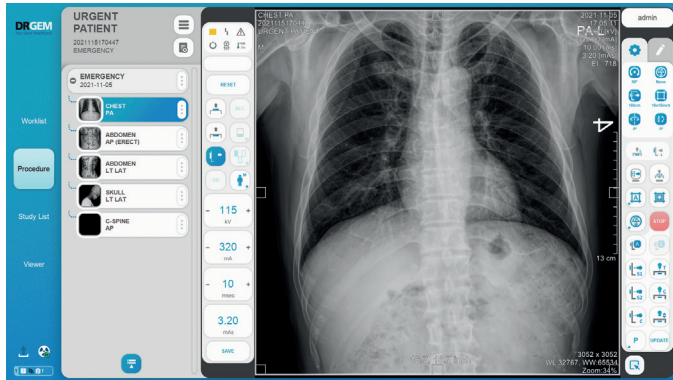

❶ When Tube Angle Rotates
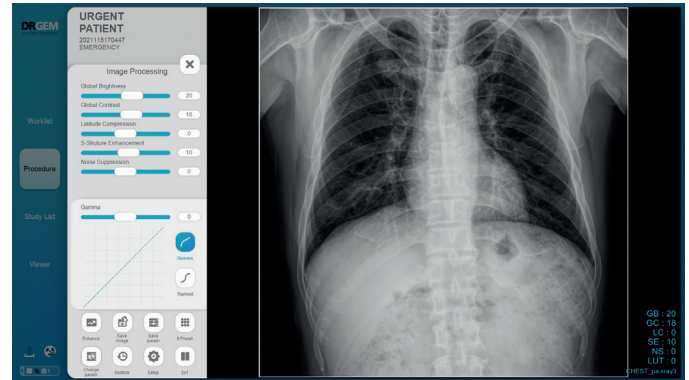❷ Tube Stand Moves Up/Down Synchronously with WBS

Diagnostic Confidence

Full Featured Imaging software & Excellent Digital Image Processing

- RADMAX offers high-performance imaging, intuitive user interface, high throughput and efficiency.
- Built-in anatomical view based digital image processing automatically enhances the image quality.
- In favor of Real-time image adjustment and 9 preset views, always consistant and optimized image gives radiologist Diagnostic Confidence.
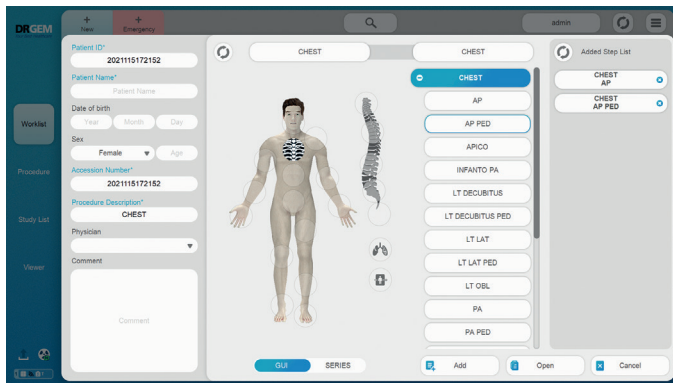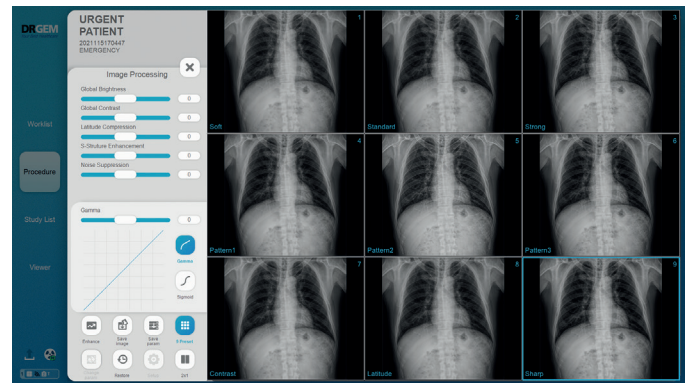
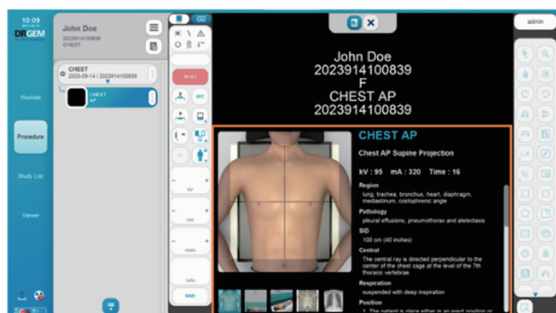### Main GUI

Real-time Image Adjustment

APR

9 Preset Views

Positioning Guide

- Positioning Guide provides operators with patient position and x-ray technique by intuitive graphical information to get the best image quality for the highest effectiveness of diagnosis.
- The feature is also beneficial for training or educational purposes.
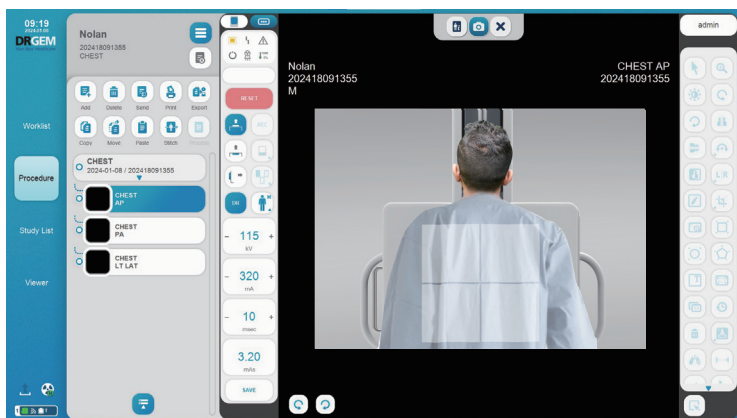

RADMAX GUI

THU GUI

Live Streaming Camera

Display the live streaming on RADMAX and THU to monitor patient's position.
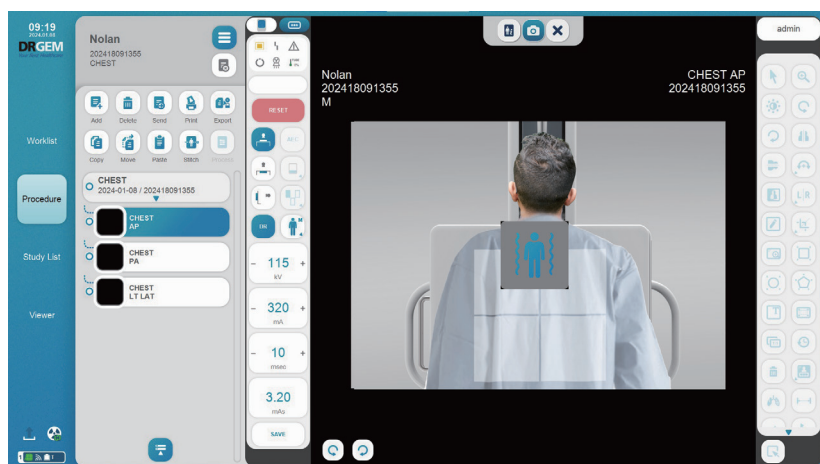

RADMAX GUI

THU GUI

Patient Movement Detection

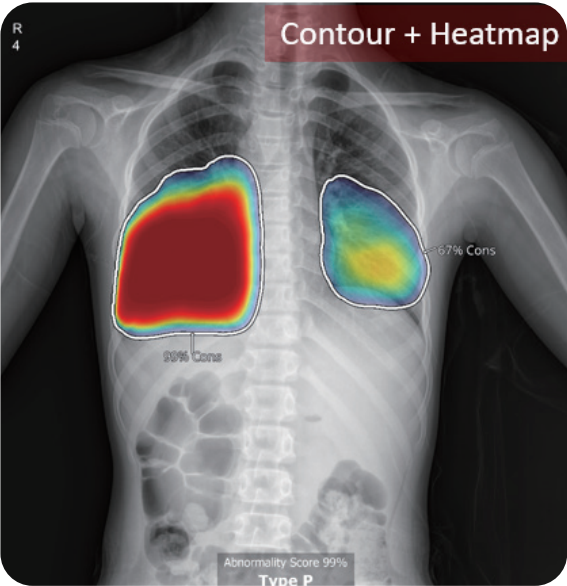RADMAX can detect patient movement, and alert the operator before the X-ray exposure.

Virtual AEC Field

• By displaying the AEC Field Area virtually, operator can accurately align and match the AEC Field area with the patient's body during patient positioning.
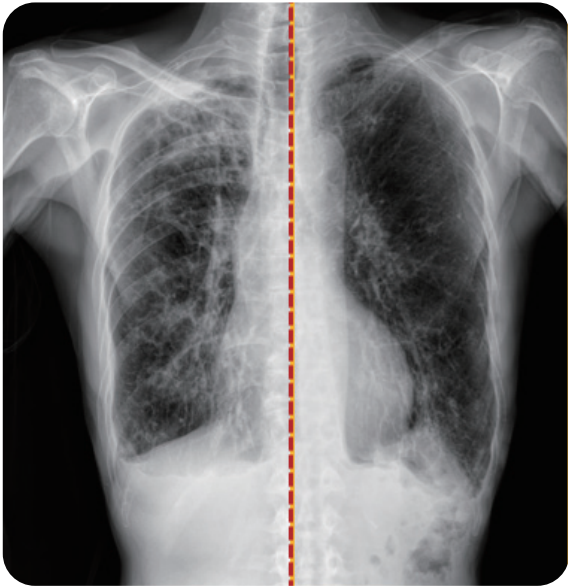• It prevents X-ray retakes and helps in acquiring best quality images.

AI-Based Diagnostic Assistance

Bone Suppression

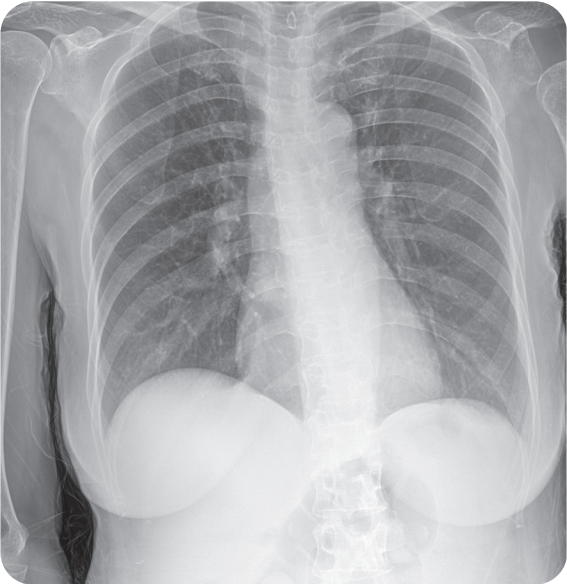AI-Based Bone Suppression for soft tissue imaging of Digital Chest Radiography.
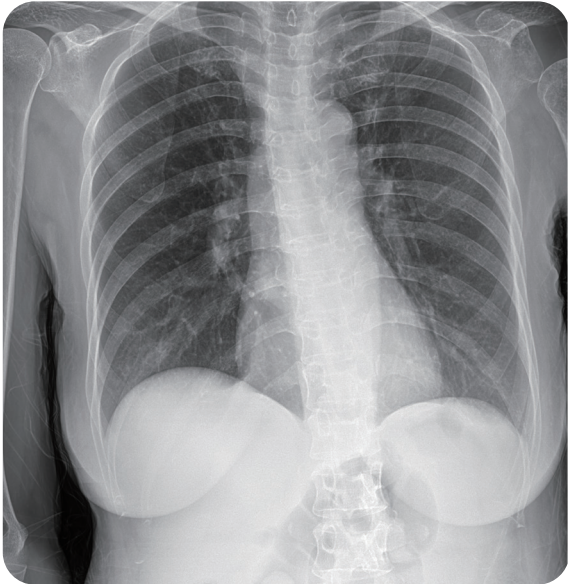

Scatter Reduction

This software-generated grid feature helps improve image quality by reducing radiation scatter without using physical grids.

Non-Grid

Scatter Reduction

Applicable Detectors

Size	Scintillator	Type
10x12 / 14x17 / 17x17	CsI	Fixed / Wireless / Wired portable

Patient Safety

Preventing collisions with safety sensors

Emergency Stop Switches

| Wall Bucky Stand | Tube Stand | Patient Table | Control Room |

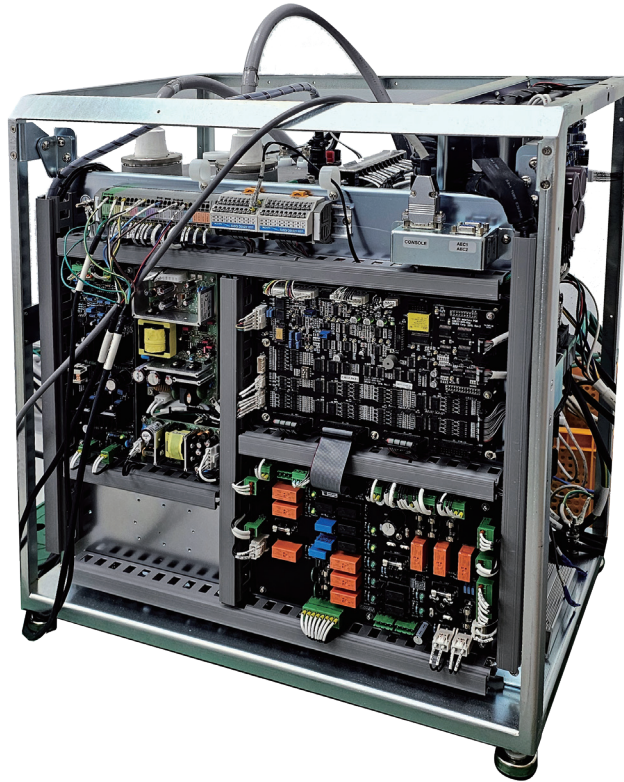## Patient Dose Management

AEC   Automatic Exposure Control, Limiting X-ray dose to patients

DAP   Dose Area Product, Measuring dose to patient

RDSR   Radiation Dose Structured Reports for DICOM standard

Carbon Fiber Tabletop   Superior X-ray transmittance, 270% less X-ray absorption

High Frequency X-ray Generator

Generator Model	GXR-52	GXR-68	GXR-82
Power Rating	52kW	68kW	82kW
Line Power	380/400/480VAC, 3Φ±10% (Frequency: 50*/60Hz), * : Outside North America		
kV Range	40~150kV, 1kV step		
mA Range	10 to 640mA	10 to 800mA	10 to 1,000mA
Timer Range	0.001 to 10 sec, 38 steps		
mAs Range	0.1 to 500mAs (Optional up to 1,000mAs)		
Max. Power Output	640mA@81kV 500mA@104kV 400mA@130kV 320mA@150kV	800mA@85kV 640mA@106kV 500mA@136kV 400mA@150kV	1,000mA@82kV 800mA@102kV 640mA@128kV 500mA@150kV
Power Requirement	Minimum 125% of output rating		
Minimum Breaker Rating	75A(380Vac,3Φ) 75A(400Vac,3Φ) 65A(480Vac,3Φ)	90A(380Vac,3Φ) 90A(400Vac,3Φ) 75A(480Vac,3Φ)	100A(380Vac,3Φ) 100A(400Vac,3Φ) 90A(480Vac,3Φ)
Rotor Supply	Dual Speed		
Reproducibility	Coefficient of Variation: kV < 0.005, Time < 0.005, mAs <0.01, mR<0.01		
Accuracy	kV < ±(1%+1kV), mA < ±(3%+1mA), Time < ±(1%+0.5ms), mAs < ±(3%+0.1mAs)		
Linearity	Coefficient of Linearity < 0.01 : CL = (X1-X2)/(X1+X2), where X is mR/mAs		

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DRGEM Service Community

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service cloud

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