

SAMSUNG

EXPERIENCE
a new DR system

GM85

with **PRESTIGE**





GM85

with **PRESTIGE**



GM85

with PRESTIGE

ACCELERATING
EXPERIENCE



01 _ ADVANCED DRIVING EXPERIENCE

02 _ INNOVATIVE ENHANCED USABILITY

03 _ SUPERIOR IMAGE QUALITY

01

ADVANCED DRIVING EXPERIENCE

going anywhere in hospital with advanced mobility

ADVANCED DRIVING EXPERIENCE

Small Footprint

Access anywhere with ultra-compact **GM85**

SAMSUNG



ADVANCED DRIVING EXPERIENCE

Small Footprint

Access anywhere with ultra-compact **GM85**

SAMSUNG



555 mm
(21.8 in)



Easily access tight spaces

ADVANCED DRIVING EXPERIENCE

Light Weight

Access anywhere with ultra-compact **GM85**

SAMSUNG



only

349 kg
(769 lb)

ADVANCED DRIVING EXPERIENCE

Light Weight

Access anywhere with ultra-compact **GM85 with PRESTIGE**

SAMSUNG



Fit more people per elevator than before



ADVANCED DRIVING EXPERIENCE

Collapsible Column

Make navigation safe through collapsible column

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ADVANCED DRIVING EXPERIENCE

Soft Driving

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Light pressure on the handle allows easy speed control and silent driving



※ Braking distance : 8cm @ 3km/h, 43cm @ 5.6km/h

02

INNOVATIVE ENHANCED USABILITY

to decrease user fatigue and serve more patients

INNOVATIVE ENHANCED USABILITY

iQuia™ Detector

Satisfy various clinical needs

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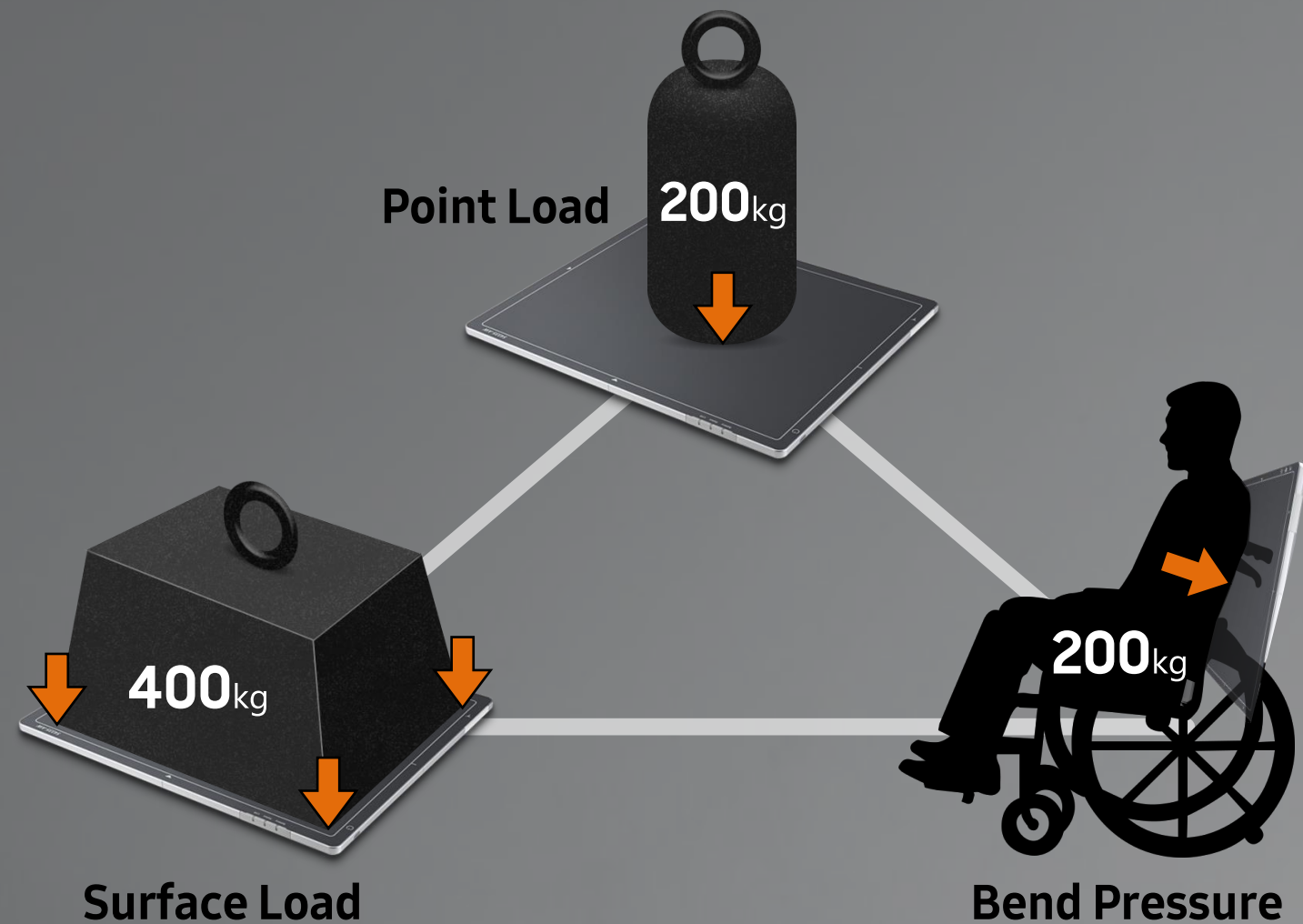
INNOVATIVE ENHANCED USABILITY

iQuia™ Detector

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Adapting to versatile environment with no compromise

1. Allowed load (Point load, 4cm radius on the center) : 200 kg
2. Dust & Water Resistance : IP54 (IEC 60529)



High load allowance to support increased patient coverage



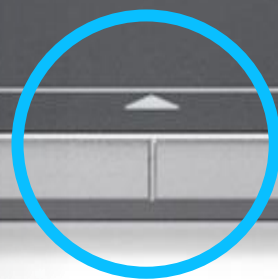
Enhanced dust and water resistance to support increased clinical environment coverage

INNOVATIVE ENHANCED USABILITY

iQuia™ Detector : Enhancing Daily Workflow

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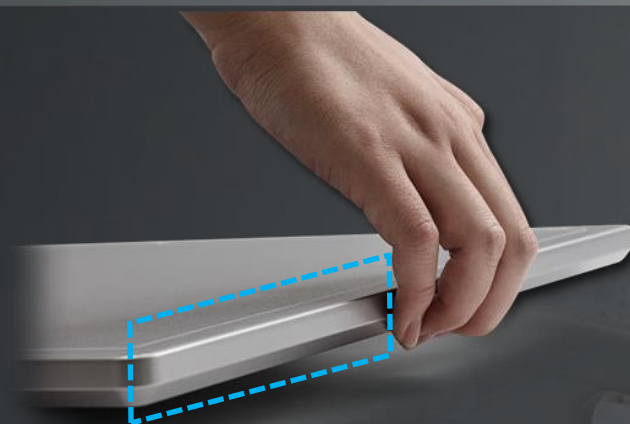
1. Center-engraving



2. Side Chamfer



Angled edge



3. Rear Grip



Non-slip surface



iQuia™ Detector : Managing Detector Wisely

Continuous status tracking will allow the detector to be in shape for use to upgrade your confidence and guarantee uptime

Real-time Shock Sensing

Automatic Defect Calibration

Detector Shock Log

Detector Selection: All

Date/Time	Detector Model	Detector Serial Number	Shock Level
2018-07-07 오후 2:34	S4335-AW	S4335AWXXXXX136	Critical
2018-07-07 오후 2:34	S4335-AW	S4335AWXXXXX136	Critical
2018-07-07 오후 2:34	S4335-AW	S4335AWXXXXX136	Critical
2018-07-07 오후 2:34	S4335-AW	S4335AWXXXXX136	Critical
2018-07-07 오후 2:33	S4335-AW	S4335AWXXXXX136	Critical
2018-07-07 오후 2:32	S4335-AW	S4335AWXXXXX136	Critical

Export Location: E:\

OK Close



* Images are taken with GC85A. GM85 also has the same imaging engine with GC85A.

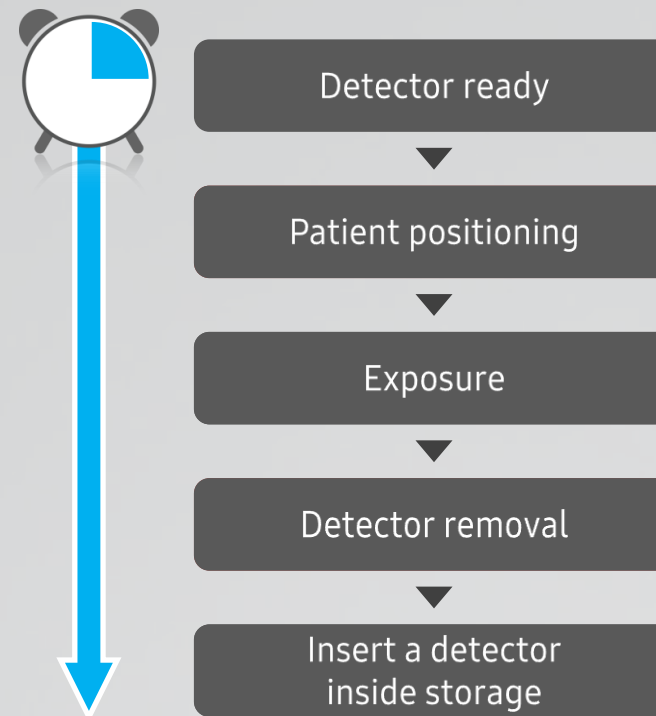
SimGrid™ : Throughput Enhancement

Streamline workflow with no need for grid installation and removal

Conventional workflow

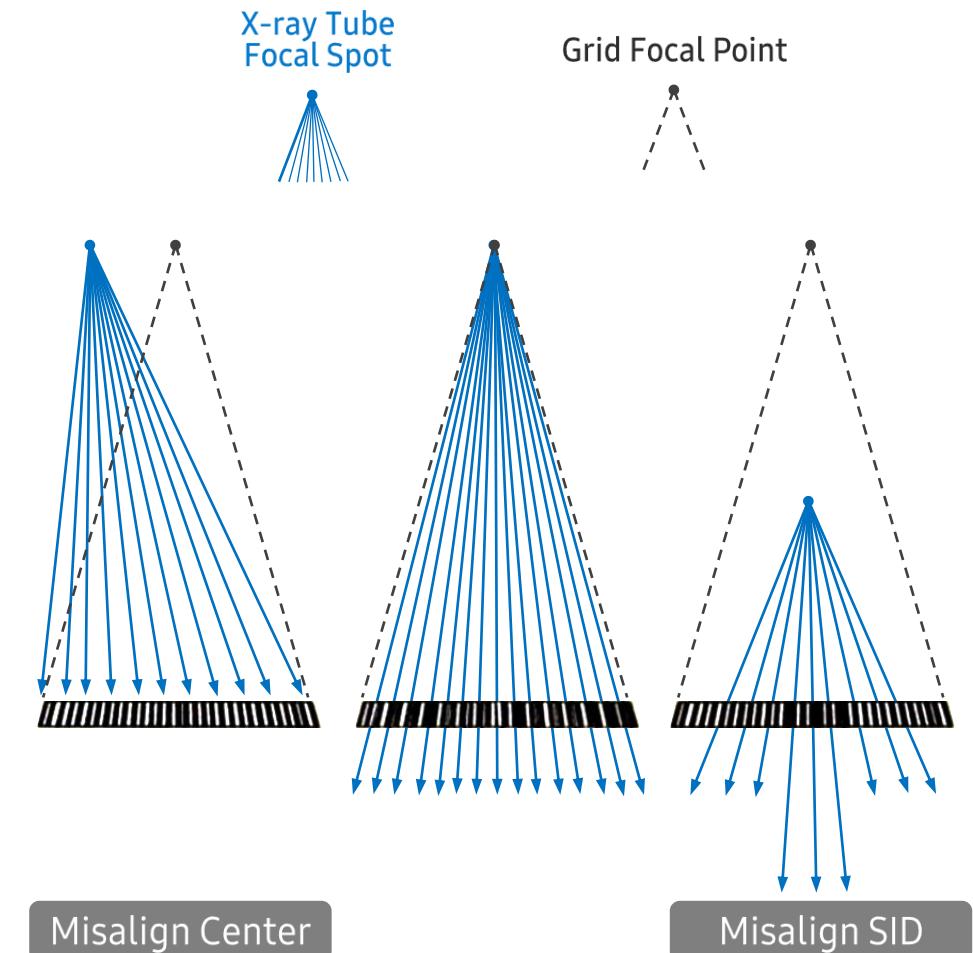


SimGrid™ workflow



Reduction of total exam time
28%

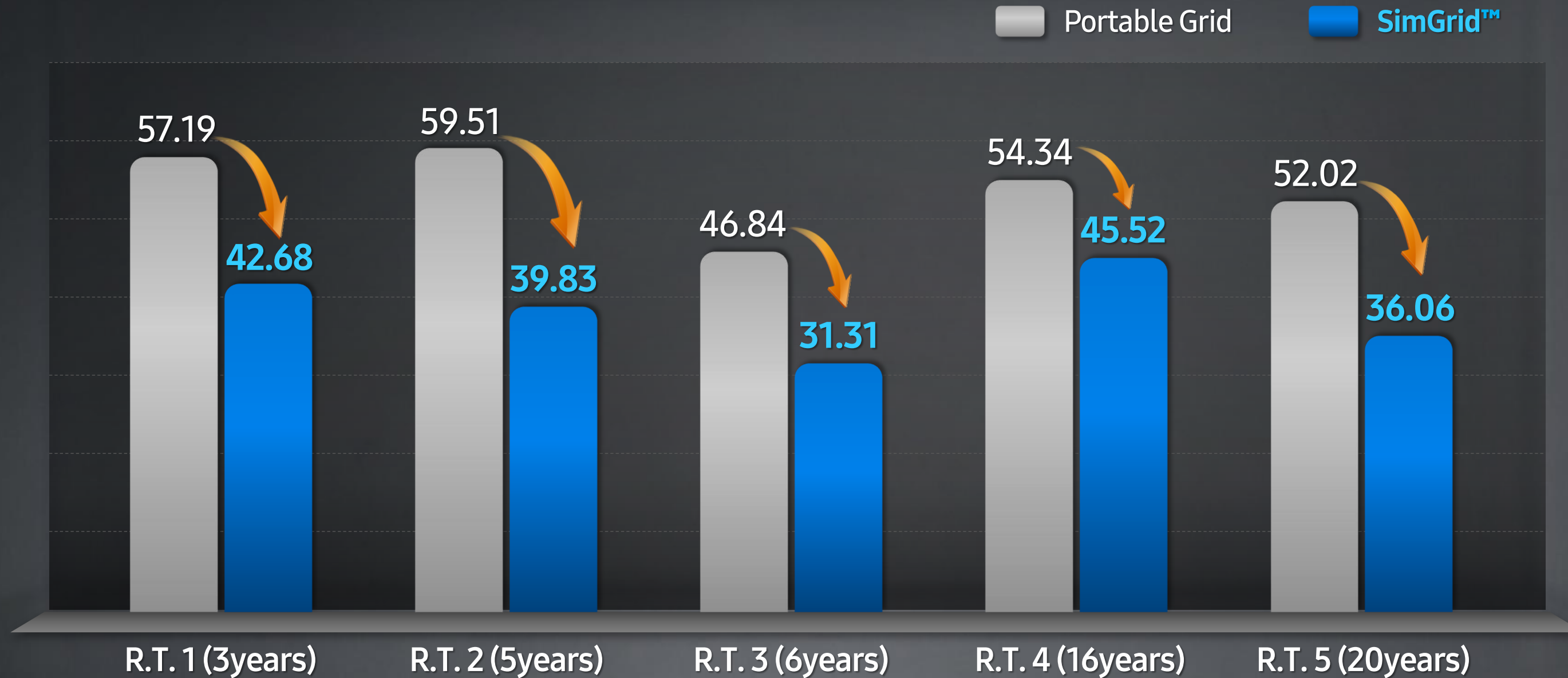
Tube-**Grid** alignment



* Source : White Paper - Workflow Improvement with Samsung SimGrid SW. Feb. 2016

SimGrid™ : Throughput Enhancement

Streamline workflow independent of radiographer's skill



* Source : White Paper - Workflow Improvement with Samsung SimGrid™ Feb. 2016

Time-saver Battery

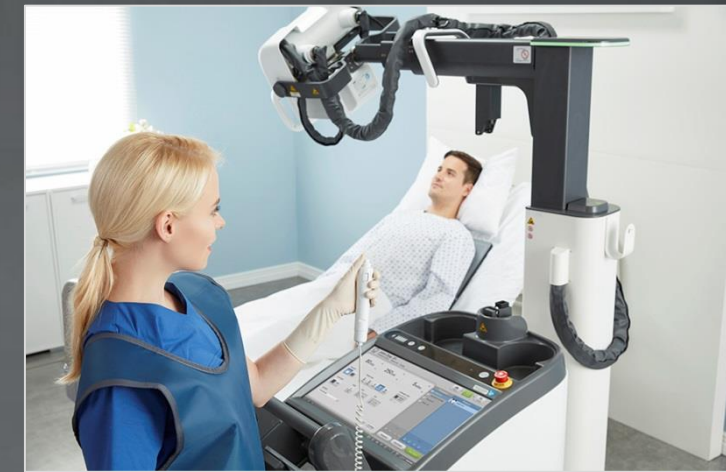
Guarantee fast charging and efficient battery management system



Fast charging time (~4 h)



Moving



Exposure




All day operation without additional charging



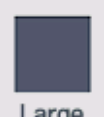
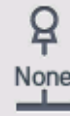


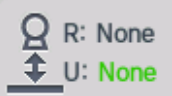

- ※ Charging time will vary according to the capacity of the wall outlet, which will be different for each country.
- ※ Fully charged battery supports 220 shots and 20 km (12.4 mile) of moving distance.
- ※ Test condition : 80 kVp/400 mA/5 msec/30 sec intervals, moving in maximum velocity (5.6 km/h)





S-Align™

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Display the detector's angle to the THU for precise alignment





 **Lee Samsung**
T-20160728162846 | 09/21/1983 | Male

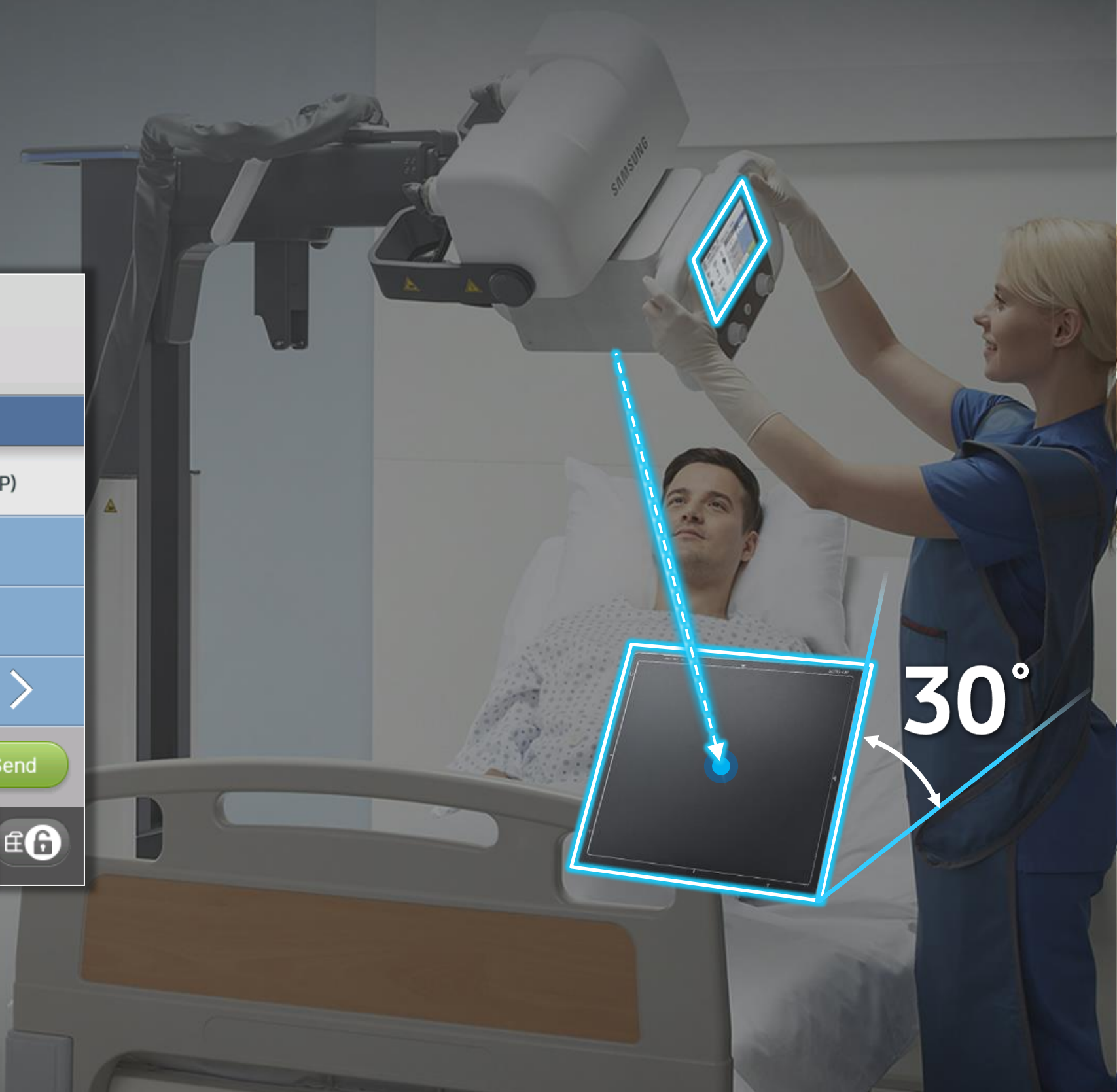
75 kVp	400 mA	3.2 mAs
 17-17	 Medium	 Large
 None	 17X17	 SimGrid
 R: None U: None		

Procedure	Protocol
 CHEST	 CHEST AP(UP)
	 CHEST AP
	 CHEST PA

< 1 / 1 > < 1 / 6 >

Suspend End Exam Auto Send

17 X 17 inch  -30°  30°  0° 



INNOVATIVE ENHANCED USABILITY

SID Guide

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Support detailed device positioning with multiple SID settings



According to protocols

3 types of SID (100/130/180 cm)

Applied automatically



Quick Positioning

Handle-free, precise body movement on THU side to reduce user workload

Quick positioning buttons



Multi-touch Screen

Allow easy and intuitive image control with multi-touch function

Zoom in & Zoom out



Two-Touch Shutter



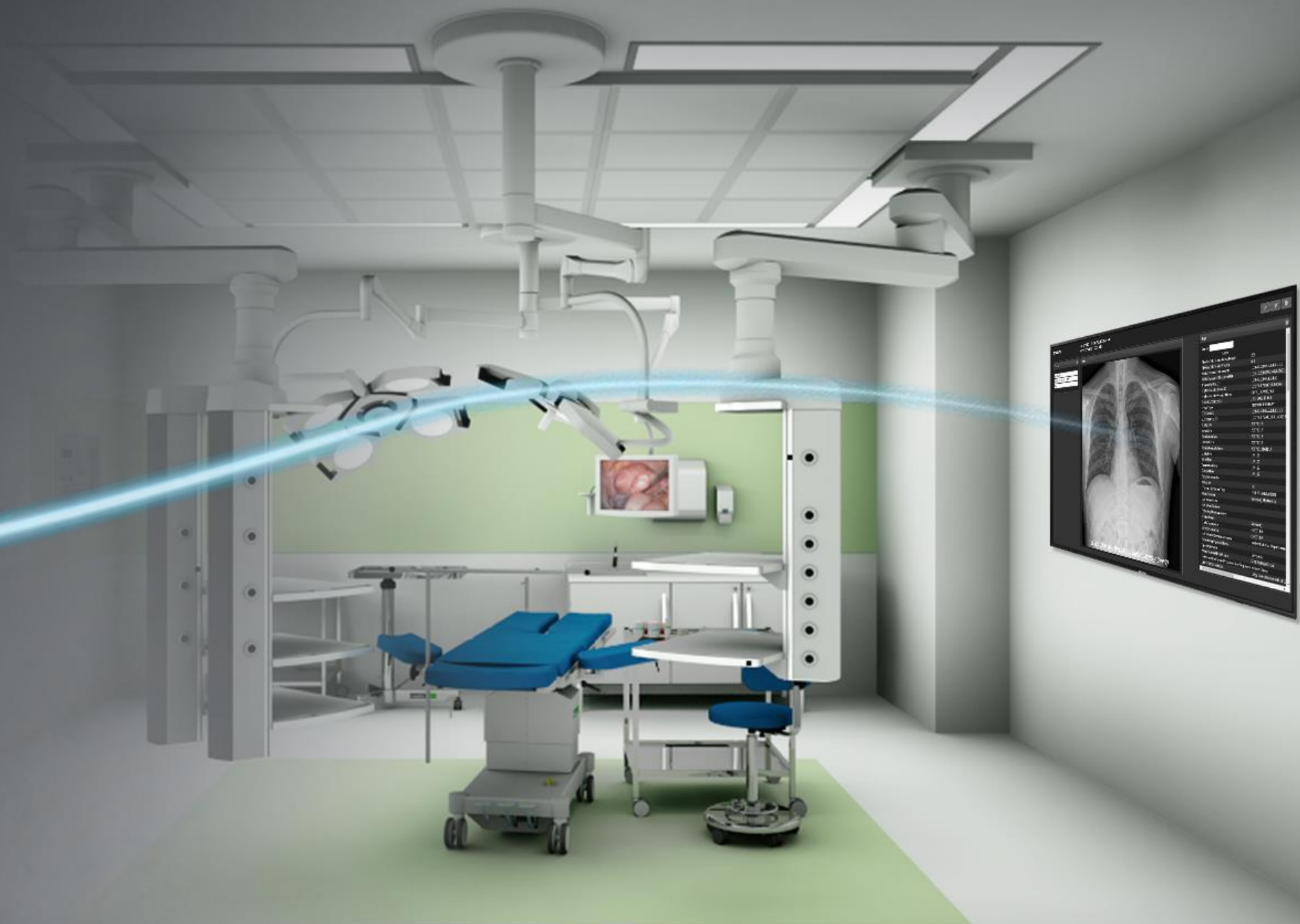
* Images are taken with GC85A. GM85 also has the same imaging engine with GC85A.

INNOVATIVE ENHANCED USABILITY

Remote View

Image can be shown remotely on a separate display

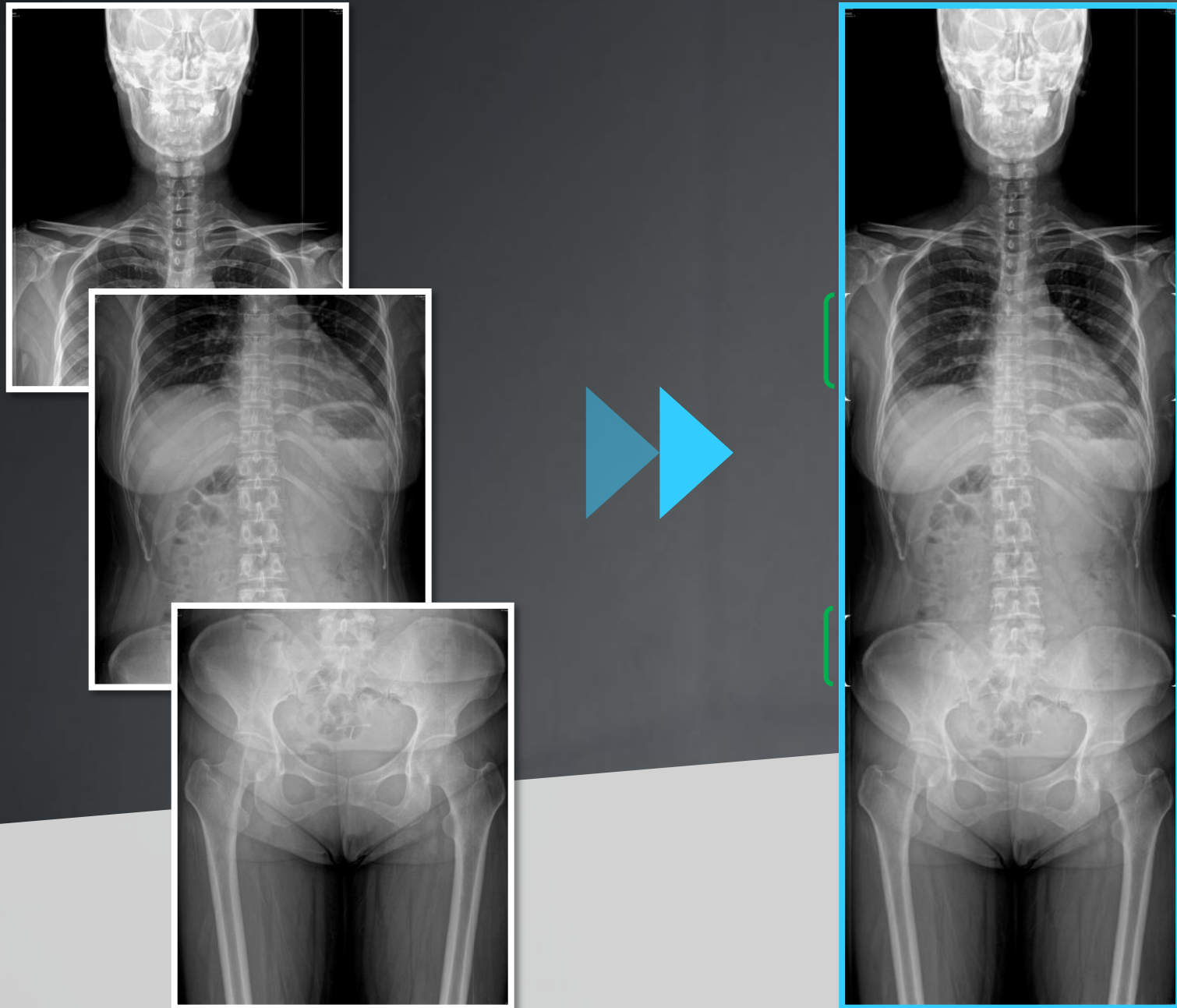
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* Images are taken with GC85A.
GM85 also has the same imaging engine with GC85A.
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Manual Stitching

Can easily view images larger than the detector's area as one image



* Images are taken with GR40CW. GM85 also has the same imaging engine with GR40CW.

Detector charging & lock

Charge detector and detector battery while traveling and secure them from getting lost

Detector battery
charging

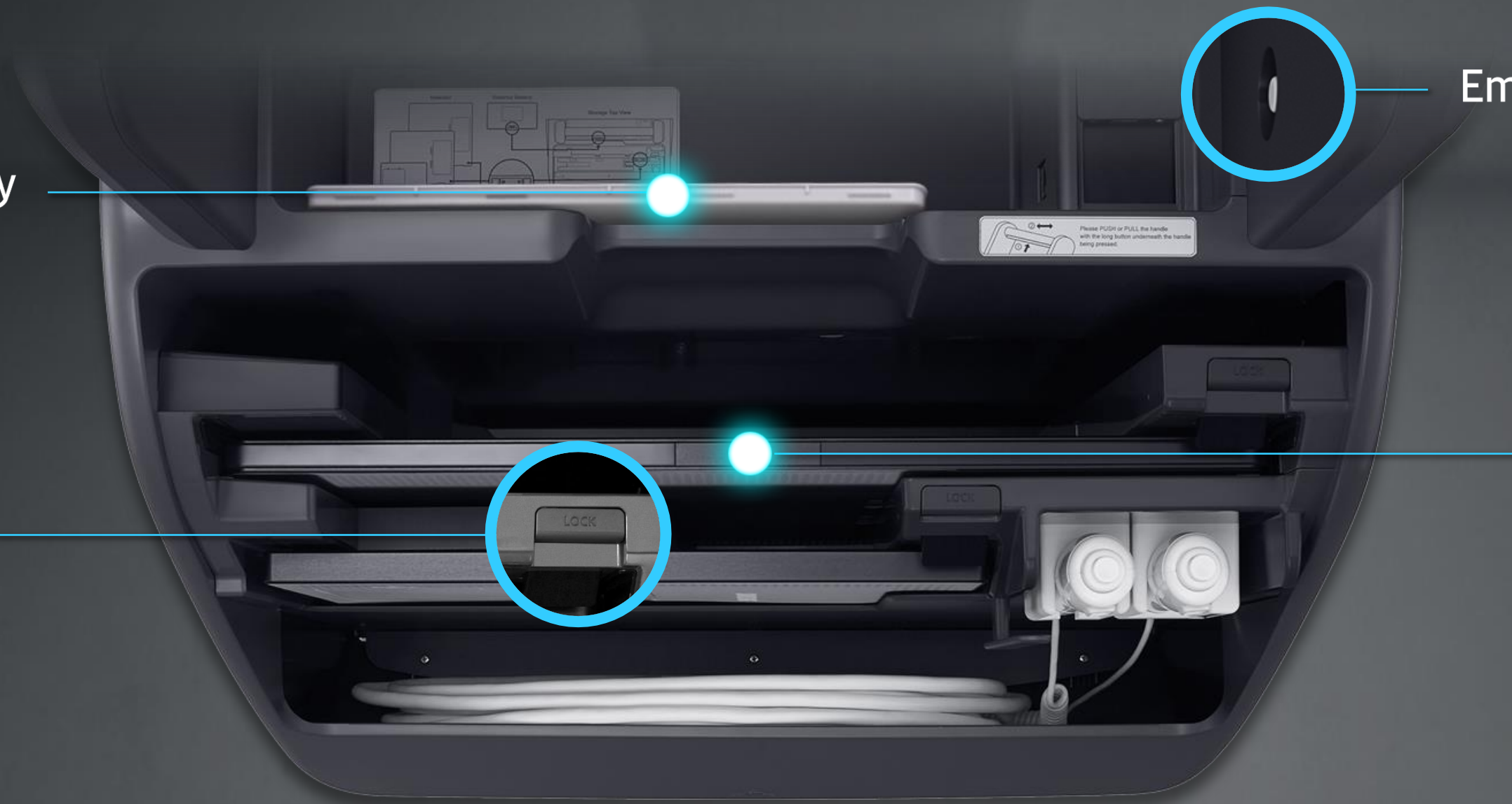


Detector lock



Emergency movement
with battery

Detector charging



INNOVATIVE ENHANCED USABILITY

Large Storage

Large storage carries detectors and personal items for convenience

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Store personal items



Store detectors and grid

INNOVATIVE ENHANCED USABILITY

S-Share™

Accelerating Connection

For Better Synergy with
Prestige Digital Radiography, GC85A & GM85 with PRESTIGE



GC85A with PRESTIGE



iQuia™ Detector



GM85 with PRESTIGE

Cybersecurity

Bring peace of mind to your hospital and patients



Tools for protecting against cyber threats from external attacks

- ▶ Security tools (Anti-virus & Firewall)
- ▶ Secured operating system



Encryption functions for safeguarding data whether at-rest or in-transit

- ▶ Data encryption
- ▶ Transmission security



Strengthened surveillance for tracking the access of patient information

- ▶ Account management
- ▶ Audit Trail

**UL CAP
Certificate**

for Software Cybersecurity
of Network Connectable Products

03

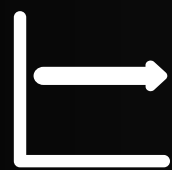
SUPERIOR IMAGE QUALITY

for advanced imaging and precise diagnoses

SUPERIOR IMAGE QUALITY

S-Vue™ : Imaging Processing Engine

SAMSUNG



Consistent Image Quality



Clear and Precise Images



Natural Presentation of
Bone & Soft Tissues



SUPERIOR IMAGE QUALITY

S-Vue™ : Imaging Processing Engine

SAMSUNG

Display areas with varying bone density clearly regardless of a patient's size or body position.

Consistent image quality for all cases



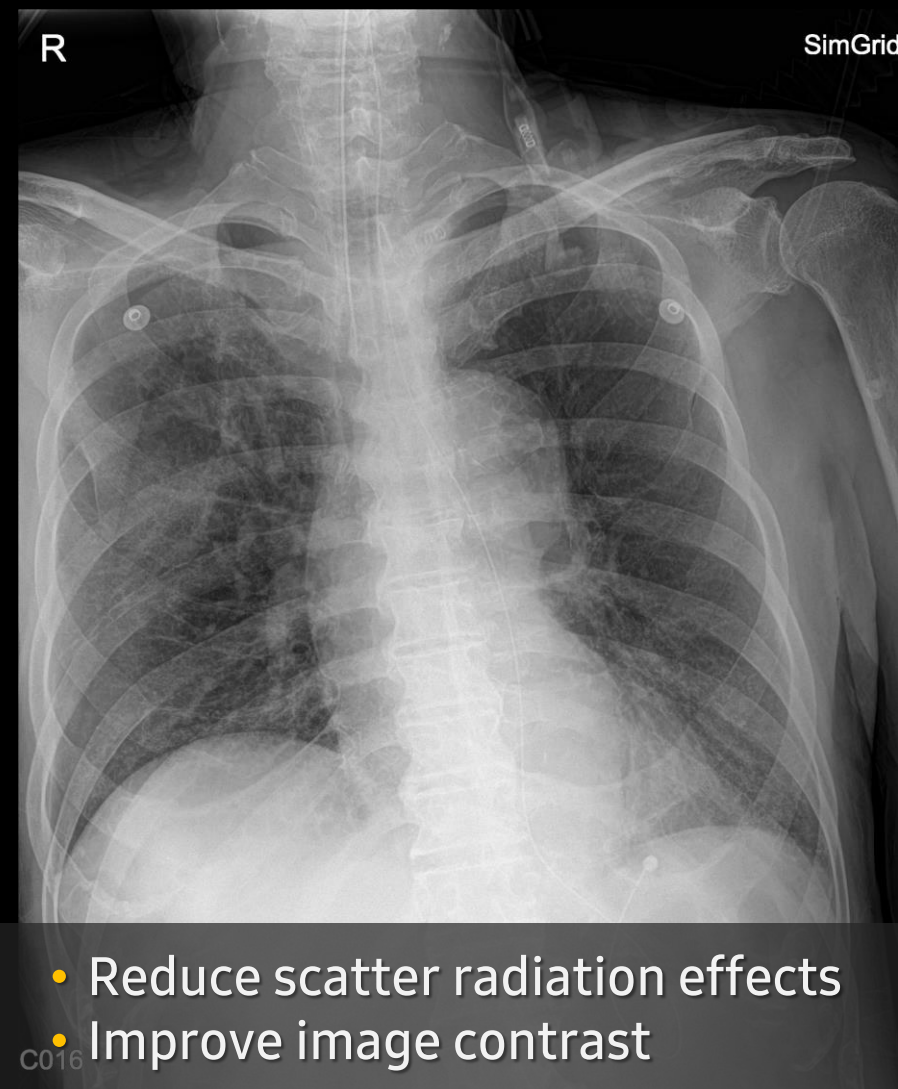
* Chest Image is taken with GC85A. GM85 also has the same imaging engine with GC85A.

SUPERIOR IMAGE QUALITY

SimGrid™

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Enhance the image quality without the use of a conventional grid

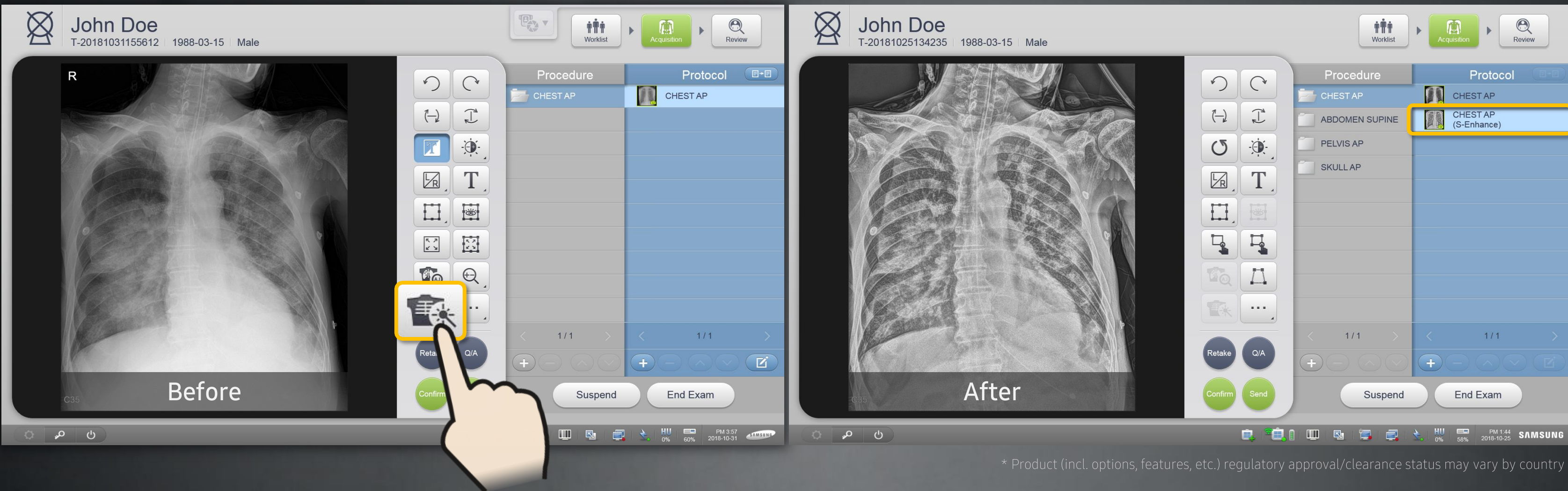


SUPERIOR IMAGE QUALITY

S-Enhance

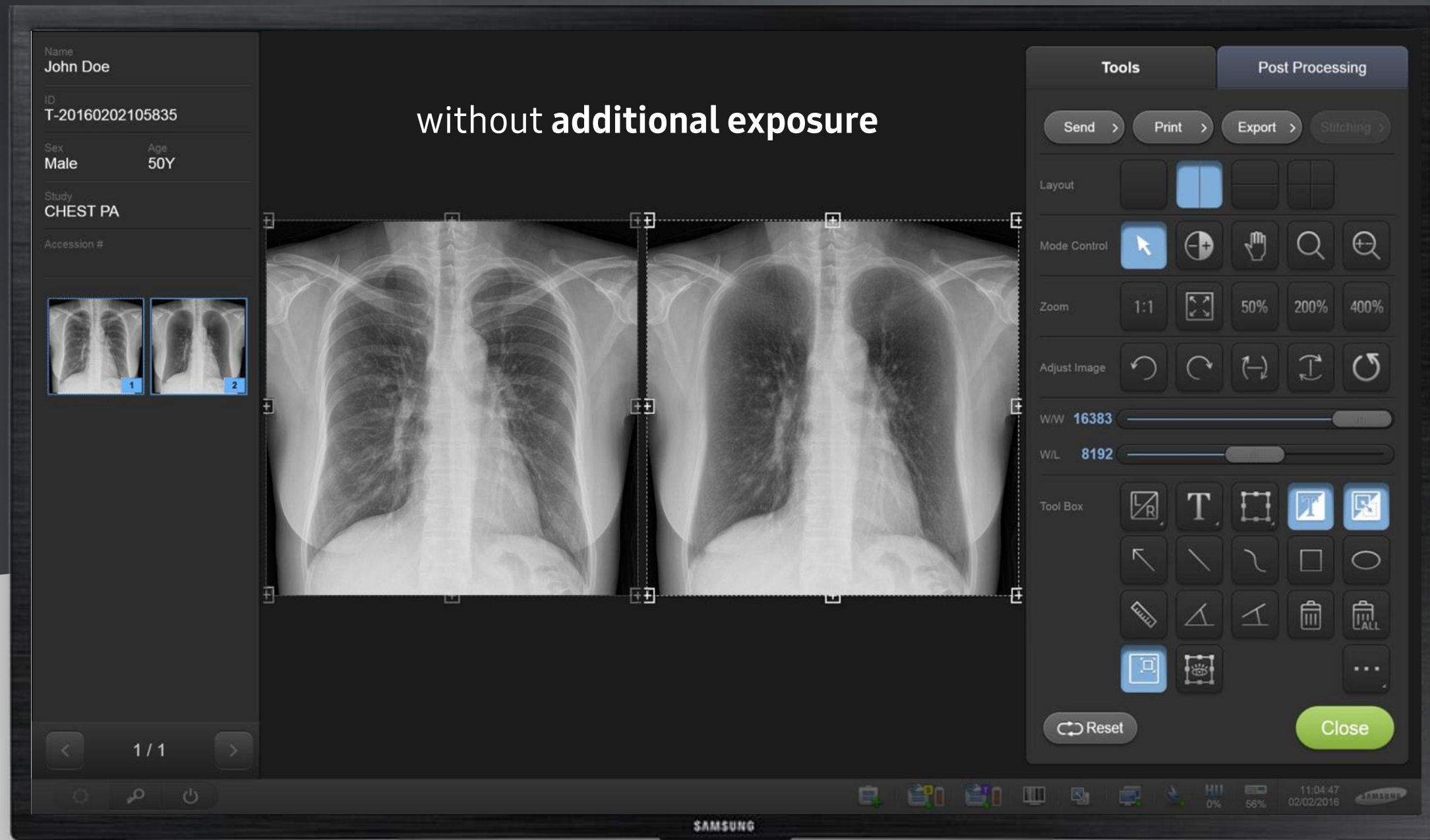
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Enhance the clarity of foreign bodies in companion image with a single on-screen click



Bone Suppression

Suppress ribs signal without additional exposure



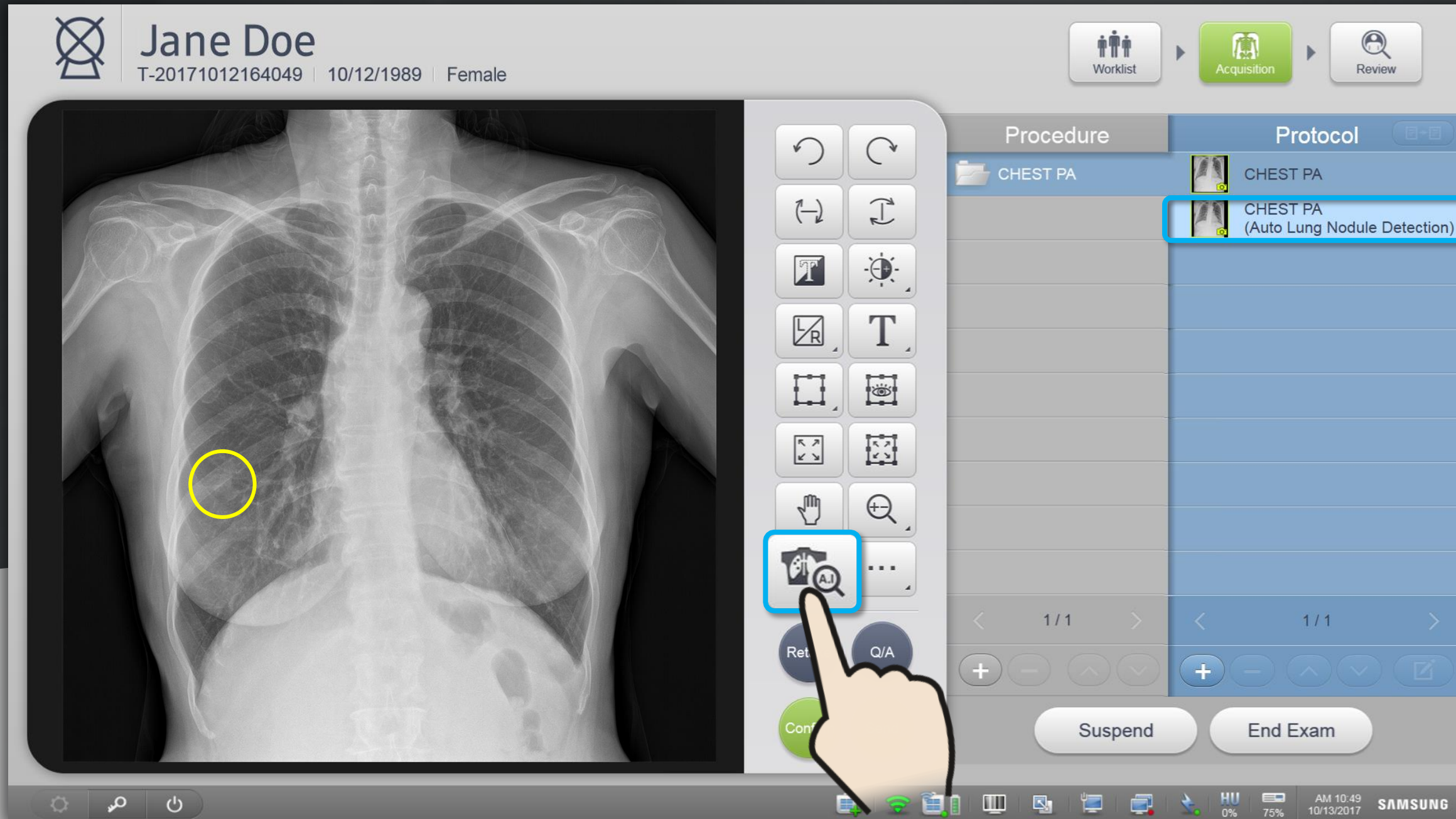
* Images are taken with GC85A. GM85 also has the same imaging engine with GC85A.

SUPERIOR IMAGE QUALITY

Auto Lung Nodule Detection

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Help predict lung nodules in hidden areas where small lung lesions are overlooked



* Images are taken with GC85A. GM85 also has the same imaging engine with GC85A.

* 510(K) pending and not commercially available in all countries. Deep learning algorithm was only used in developing this algorithm, and has not contributed to the development of the function.

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SUPERIOR IMAGE QUALITY

Pediatric Exposure Management

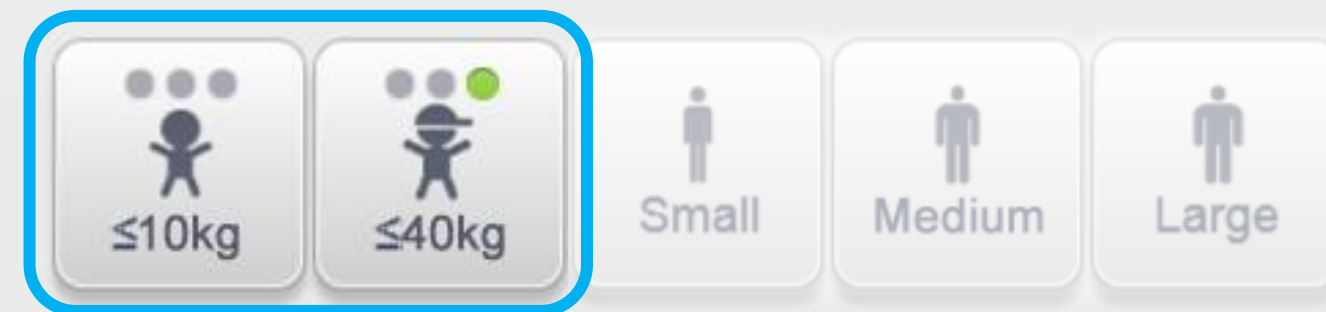
SAMSUNG

Provide precise dose control for pediatric patients

Pediatric cover design



Patient Size



6-stage weight dependent imaging

2 kg / 3.5 kg / 10 kg / 20 kg / 30 kg / 40 kg

SUPERIOR IMAGE QUALITY

Auto Filter with APR

Prevent excessive radiation exposure

According to protocols

3 types of filters (0.1/0.2/0.3 mm Cu)

Applied automatically





Meaning behind the sunflower logo

Sunflowers have the ability to absorb toxins in their tissues including radioactive elements. Samsung's sunflower logo represents our low dose campaign for improved patient care.



SAMSUNG

DOSE LESS, CARE MORE

Samsung's Low Dose Campaign is going to change your ordinary X-ray experience into our low dose imaging experience.

Our commitment to lower dose will help you give more care to the ones you love.

We will accompany with you as a lifetime partner in the right way.



SAMSUNG

Thoughtful Technology.

As your reliable partner, striving for meaningful progress.

Our Pledge for Low Dose

Samsung is constantly working to lower dose exposure in x-ray scans to push **ALARA** efforts to the next level for healthcare professionals by not only the S-Vue™ denoising technology but also clinical applications to help professionals lower the dose.

Core imaging technology

- S-Vue™
- iQuia™ Detector

Clinical applications without additional exposure

- Bone Suppression
- SimGrid™

Precise dose management features

- Automatic filter with APR
- Pediatric Exposure Management
- Individual blade control
- Dose Report

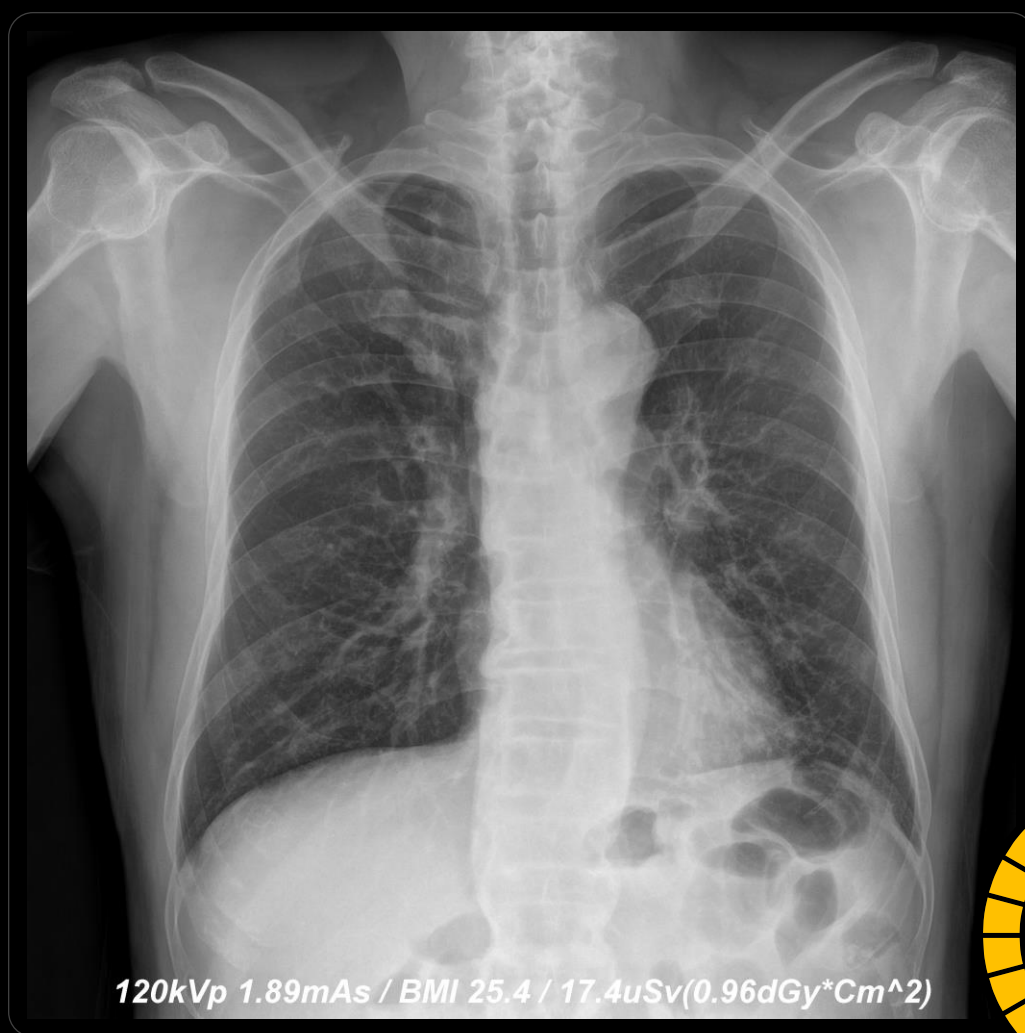
Mobile DR That Cares About Dose, GM85 with PRESTIGE



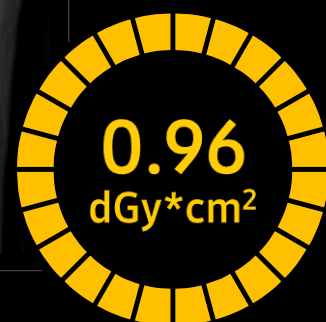
S-Vue™ : High Quality Image with Low Dose

Adaptive multi-scale processing and advanced denoising technology deliver high-quality images even at reduced levels of radiation.

Figure 1. Chest PA (thickness 22 cm)



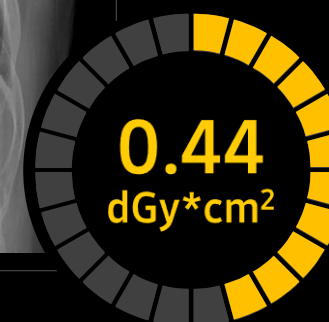
(120 kVp / 1.89 mAs / BMI 25.4 / 17.4 μ Sv)



-51%
Dose Reduction
But, Same Quality Image



(120 kVp / 0.85 mAs / BMI 25.4 / 8.0 μ Sv)



* Image Courtesy of Chung-Ang University Hospital and images are taken with GC85A.

* This claim is based on a limited study of an anthropomorphic phantom that simulates the x-ray properties of an average size adult, and on a small clinical study at one facility. Only routine PA chest radiography was studied, and results for larger-size adults (body mass index) greater than 30 was not studied to statistical significance. Samsung DR also was not studied with pediatric patients. The clinical site is responsible for determining whether the particular radiographic imaging needs are not impacted by such x-ray dose reduction.

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GM85

with PRESTIGE

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