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### GC85A Catalog v4.1-190618-EN



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ACCELERATING  
INTELLIGENCE

iQuia™  
**GC85A**



**EXPERIENCE**  
A New Healthcare  
Solution

**SAMSUNG**

ACCELERATING  
INTELLIGENCE

# iQuia™ GC85A

Premium ceiling digital radiography system  
iQuia™ GC85A provides advanced low dose imaging  
experience and streamlining workflow saves  
more time to focus on improved patient care.

01

DIAGNOSTIC  
CONFIDENCE

02

STREAMLINE  
WITHOUT COMPROMISE

03

EXPAND  
PRESTIGE EXPERIENCE



Low Dose



Auto Lung Nodule  
Detection



Bone Suppression





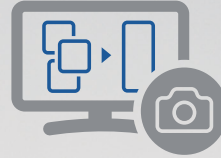
S-Vue™



Full Auto System



iQuia™ Detector



S-Guide



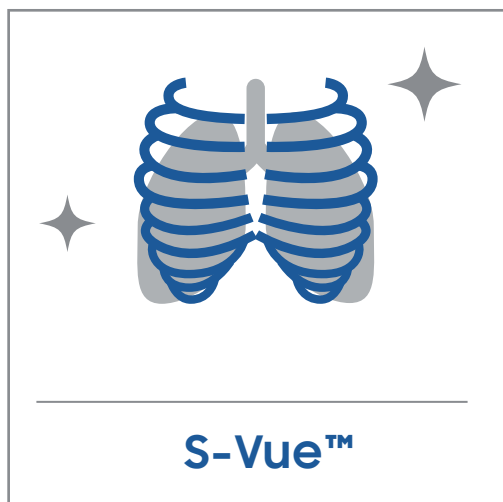
Soft Handling™



SimGrid™

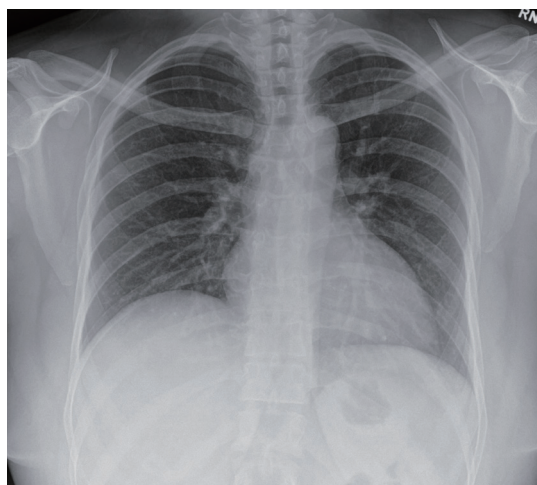


# DIAGNOSTIC CONFIDENCE

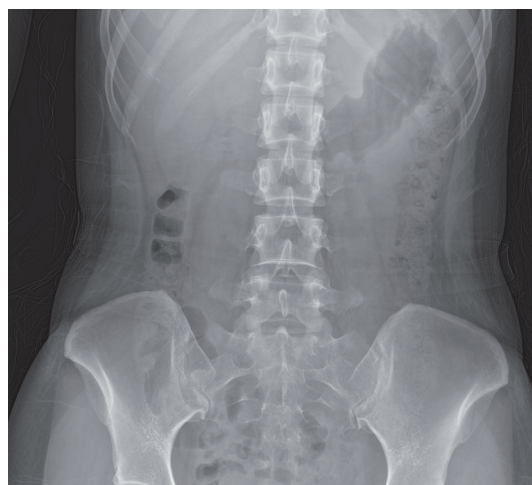


## S-Vue™

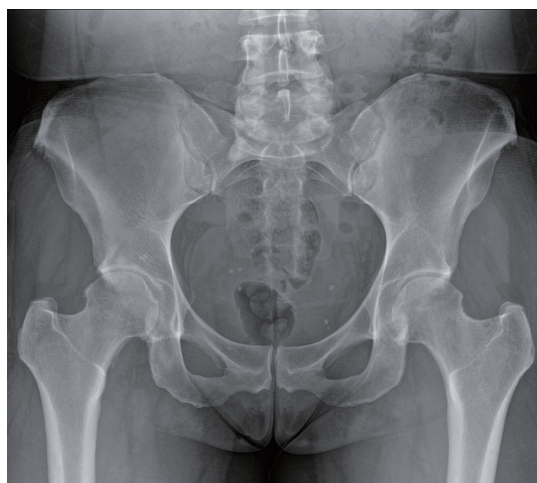
S-Vue™ provides excellent, high resolution images for diagnostic accuracy and confidence. The S-Vue™ imaging engine's adaptive filtering and processing technologies offer outstanding sharpness and readability. Also, dose level can be reduced up to 45% dose reduction for pediatric abdomen, 15.5% for pediatric chest, and 27% for pediatric skull exams with the new S-Vue™ engine.



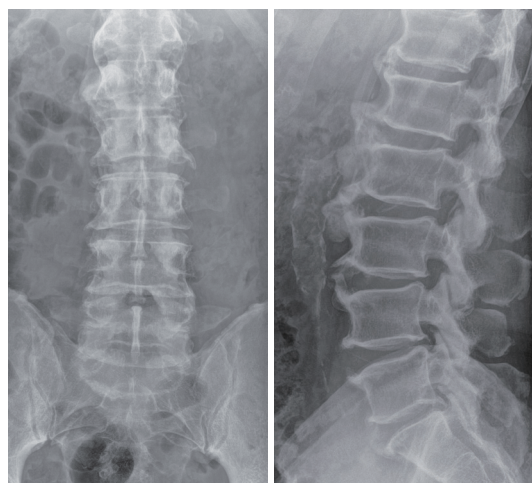
Case 1. Chest



Case 2. Abdomen



Case 3. Pelvis



Case 4. L - spine



# Low Dose in New S-Vue™

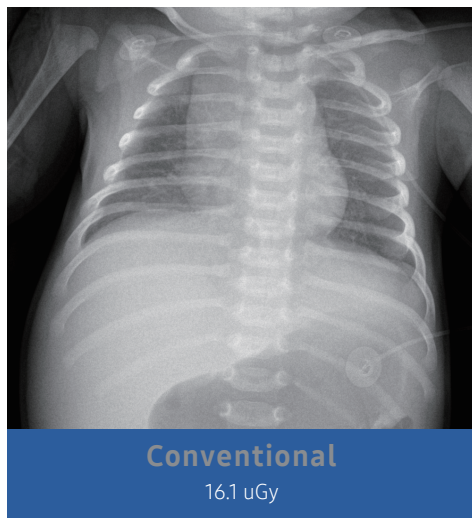
S-Vue™ not only provides excellence in image quality, but also secures better patient safety in radiography examinations. This can help change the patient's perspectives for X-ray radiation and improve patient satisfaction.



## Our Pledge for Low Dose

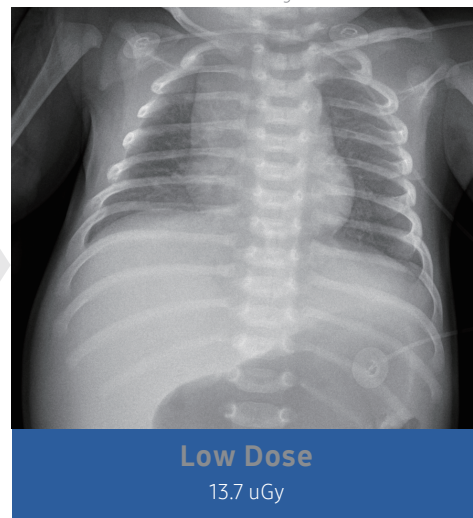
Samsung's Low Dose campaign is going to change your ordinary X-ray experience into our low dose imaging experience. Our commitment to lower dose will help you give more care to the ones you love. We will accompany with you as a lifetime partner in the right way.

### Case. Pediatric Chest PA\*



( 54 kVp / 1.42 mAs / 0.06 dGy\*cm<sup>2</sup> / 0.1 mmCu Filter )

**15%**  
Dose Reduction



( 54 kVp / 1.21 mAs / 0.05 dGy\*cm<sup>2</sup> / 0.1 mmCu Filter )

Images were taken with GM85

## Precise dose management features

Automatically optimized dose controls prevent excessive radiation exposure and provide precise dose control for patients.



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



\*Note: The claim concerning Samsung DR is based on limited phantom and clinical study results. Only routine PA chest radiography and abdominal radiography for average adults and pediatric abdominal, chest, skull radiography were studied, excluding pediatric patients under 1 month old. (FDA cleared - K172229, K182183) In practice, the values of dose reduction may vary accordingly. These clinical images calculate the dose reduction rate from its own standard dose at the clinical site, unlike our FDA claim which compares dose between new IPE and old IPE. The clinical site is responsible for determining whether the particular radiographic imaging needs are not impacted by such x-ray dose reduction.

# DIAGNOSTIC CONFIDENCE

## iQuia™ Detector

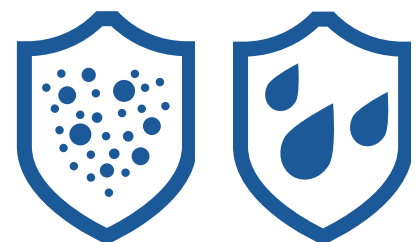
iQuia™ Detector is a new introduction to the Samsung DR prestige line-up to accelerate connection and promote synergy between the systems.

**NEW**



### Answer to Versatile Environment

Enhanced load allowance<sup>1</sup> along with dust and water resistance<sup>2</sup> allows the detector to be actively implemented in versatile environments. Its robust design will help reduce user concerns when applying the detector in complex situations such as ER and OR.



1) Allowed load (Point load, 4cm radius on the center) : 200 kg

2) Dust & Water Resistance : IP54 (IEC 60529)

# Enhance Your Daily Workflow

Exclusive features on the detector to support patient positioning and alleviate daily burdens.



**CENTER-ENGRAVING**  
to help position the patient



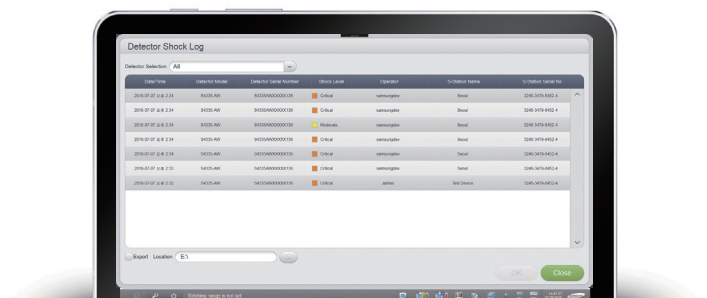
**SIDE CHAMFER**  
to ease your lifting



**REAR GRIP**  
to support transportation

## Manage Your Detector Wisely

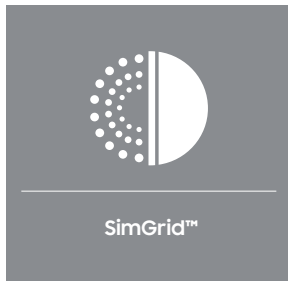
Continuous status tracking of the detector will help upgrade user confidence and guarantee uptime. Features such as real-time shock sensing and automatic defect calibration will allow the detector to be in shape for use at anytime, anywhere.



Real-time Shock Sensing



# DIAGNOSTIC CONFIDENCE

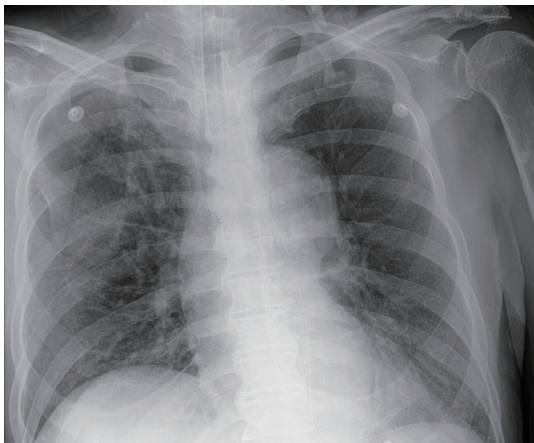


## SimGrid™\*

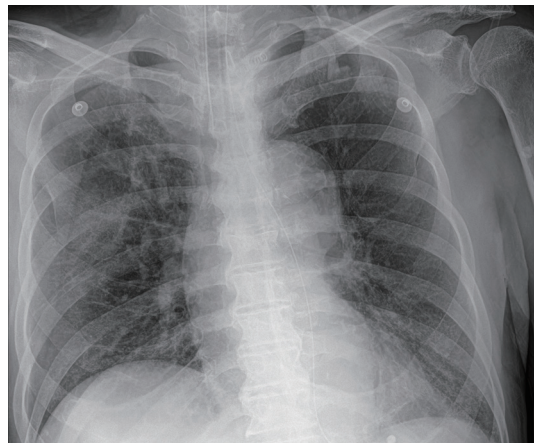
With just a click, SimGrid™ allows you to provide better patient care with higher satisfaction and reduced retake rates without the use of a portable grid. It improves image contrast by reducing scatter radiation effects and creates better image quality.

**Case.** Chest AP

Images were taken with GM85



Without Grid



With SimGrid™

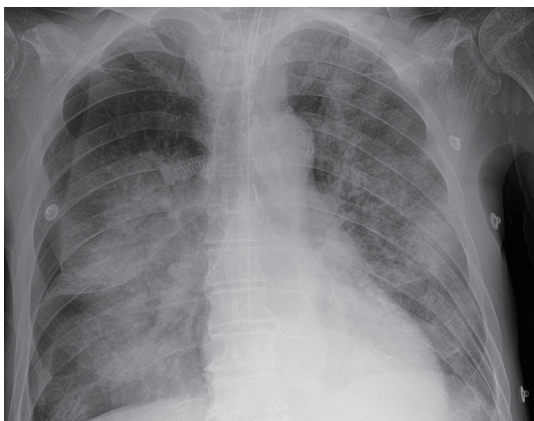


## S-Enhance\*

To support your diagnosis, S-Enhance improves the clarity of foreign bodies (e.g. tube, line and/or needle) in images of chest, abdomen, and L-spine. With a single on-screen click, the companion image is created without additional settings or x-ray exposure, streamlining the workflow.

**Case.** Chest PA

Images were taken with GM85



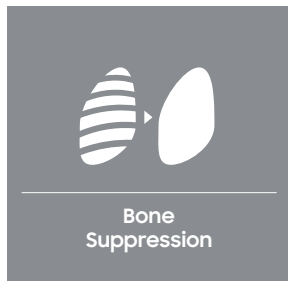
Without S-Enhance



With S-Enhance

\* option

1) This feature does not have FDA clearance and is not for sales in US.



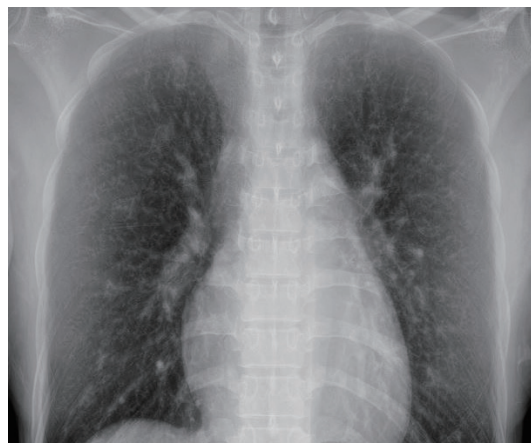
## Bone Suppression<sup>\*</sup>

Without additional setting or exposure, Bone Suppression Imaging improves the clarity of soft tissues by suppressing the appearance of bones in chest images, which improves your ability to detect nodules. You can easily create the companion image with just a click on the screen.

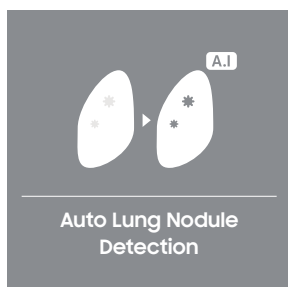
**Case.** Chest PA



Without Bone Suppression



With Bone Suppression



## Auto Lung Nodule Detection<sup>\*1</sup>

Auto Lung Nodule Detection is a computer-aided detection software to identify and mark regions in relation to lung nodules. It is designed to aid the physician to review the frontal chest radiographs of adults.

**Case.** Chest PA



Without Auto Lung Nodule Detection



With Auto Lung Nodule Detection

# STREAMLINE WITHOUT COMPROMISE

## Fully automated system

iQuia™ GC85A enables fully automated operation along with the THU, motorized wall stand and patient table.

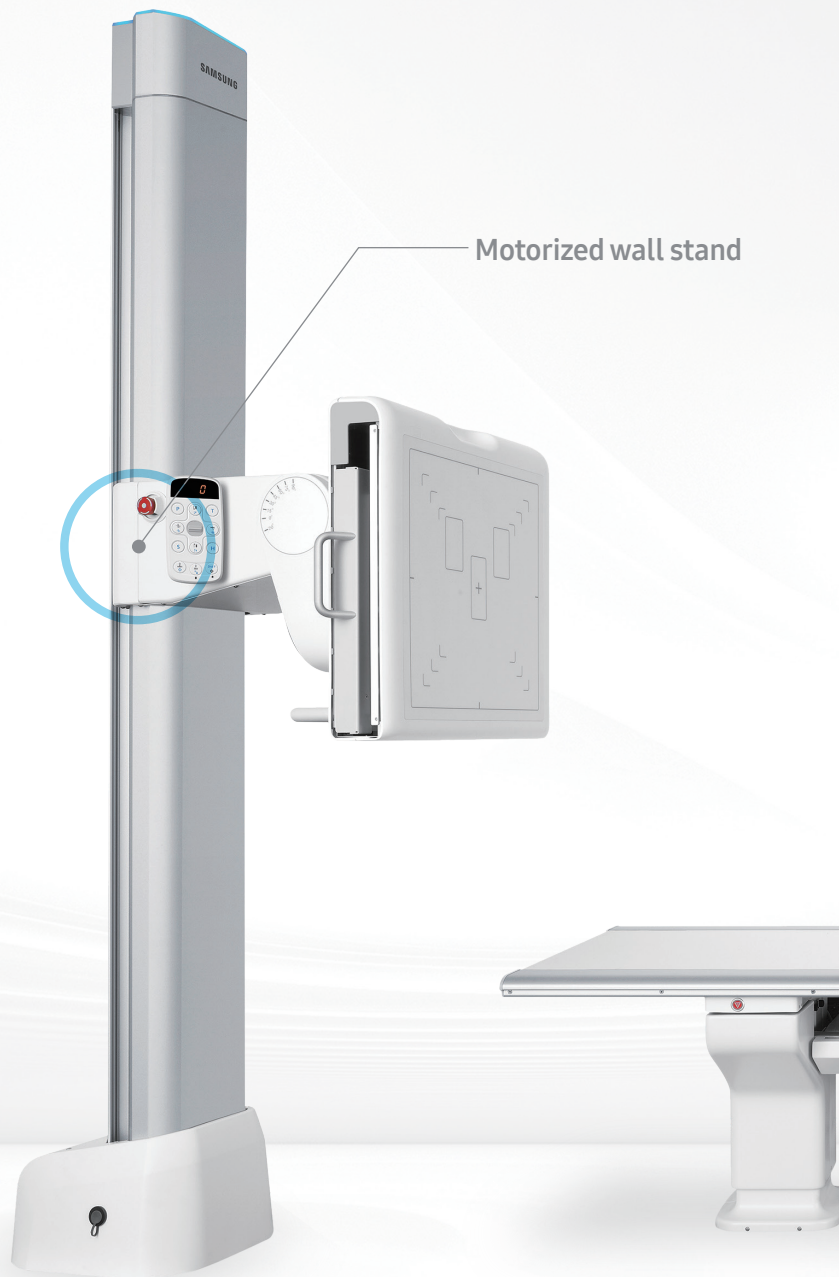
### One-touch control

With one touch of the control panel's buttons, an operator can precisely position the entire system. The ability to easily reach the buttons enables the operator to focus on patient care.

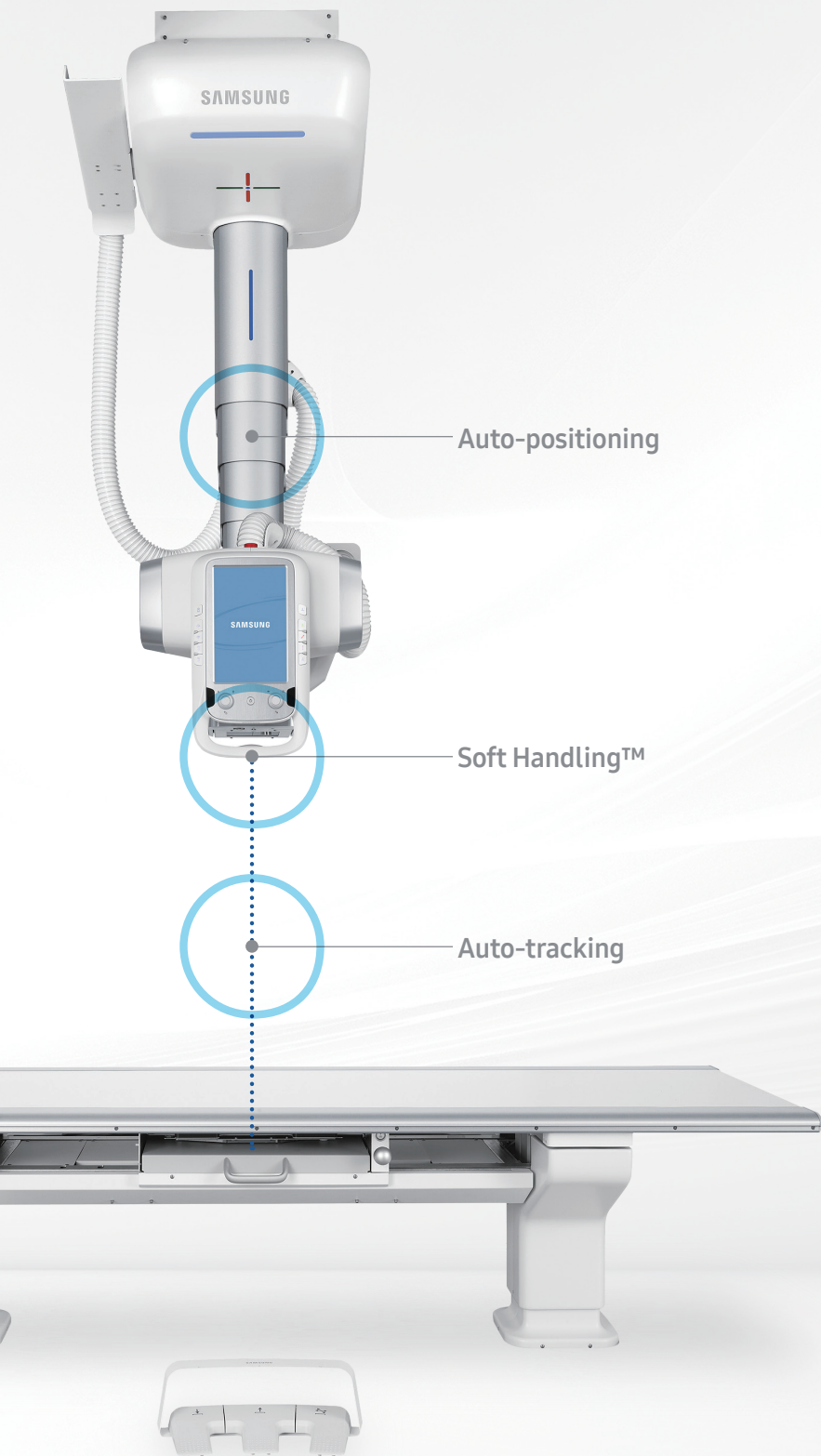


GC85A Control Panel

1. Preset Button - P, T, S, H
2. Fast Up/Down Control
3. Auto Tilting Control
4. Slow Up/Down Control
5. Auto Sync Control
6. Auto Centering Control
7. All Lock
8. Tilting Angle Display



Motorized wall stand



Auto-positioning

Soft Handling™

Auto-tracking

## Wireless system

Wireless system provides data transfer with an integrated wireless system that includes a wireless iQuia™ Detector, remote control and wireless foot switch.

## Auto-positioning

Auto-positioning makes it moves to more than 500 exam positions. The most frequently used position can be controlled with a handheld wireless remote control.

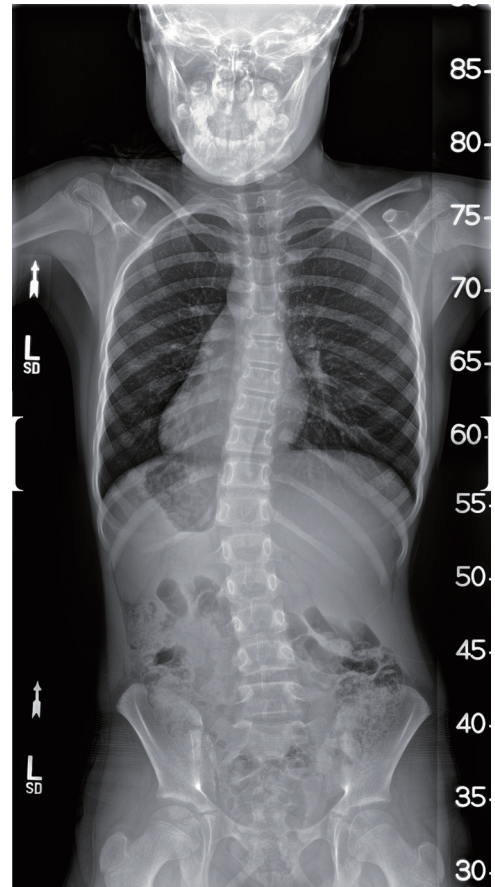
## Auto-tracking

Auto-tracking synchronizes the movement of tube and detector automatically reduces repetitive workflows.

# STREAMLINE WITHOUT COMPROMISE

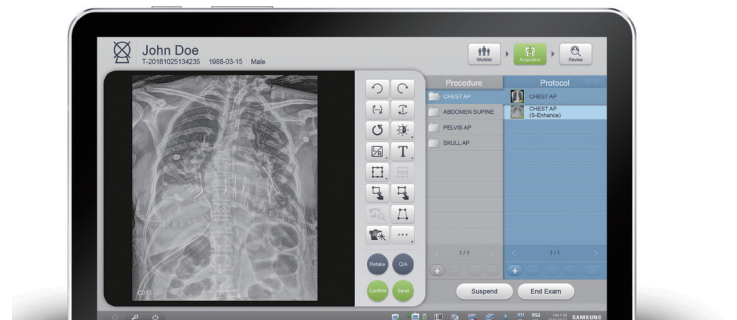
## Smart Stitching with S-Guide \*

Smart Stitching can increase comfort for patients who find it difficult to stand for long periods of consecutive shootings. Viewing a stitched image of a whole spine or long bone is more convenient for making accurate diagnoses. With S-Guide, patients are displayed on screen via camera view in order to simplify the stitching settings, reducing the necessity of retakes.



## SimGrid™\*

Software feature SimGrid™ streamlines the workflow by guaranteeing image quality without the use of a conventional grid. This allows the omission of grid installation and removal step from the conventional workflow leading to 28% reduction in total exam time.



This image was taken with GM85

\* option

## Soft Handling™

The Tube Head Unit (THU) can be moved into position gently with only a small amount of physical pressure from two fingers, so the operator avoids becoming fatigued from pulling the unit.



## S-Align™

S-Align™ provides precise alignment for improved imaging and efficiency. When using detectors for free exams, S-Align™ displays the detector's angle to the THU for precise alignment and enhances the quality of imaging. Also, when the THU and detector are within a certain radius, the angle can be automatically aligned. This capability reduces repetitive exposure and saves time.



# EXPAND PRESTIGE EXPERIENCE

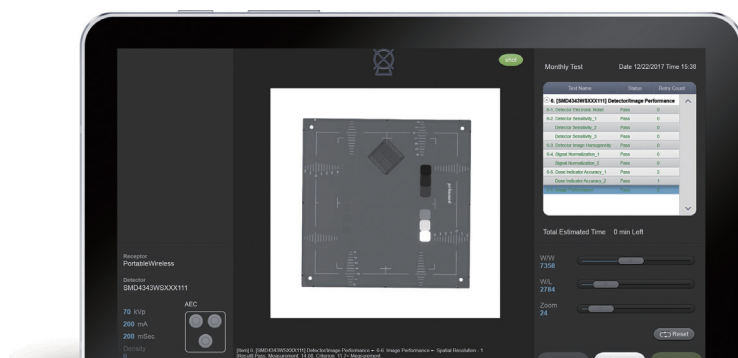
## S-Share™

S-Share™ can dramatically increase efficiency through the use of iQuia™ Detector with various existing compatible equipment. It enables accelerating connection for better synergy with prestige digital radiography systems, iQuia™ GC85A & iQuia™ GM85.



## QAP\* (Quality Assurance Program)

QAP assures improved imaging performance in a precise and cost-effective way. It enables comprehensive system management by automatic periodic test measuring multiple parameters such as source performance, AEC accuracy, geometry accuracy, and detector performance with image quality.



\* option

# Samsung Healthcare Cybersecurity

Bring peace of mind to your hospital and patients



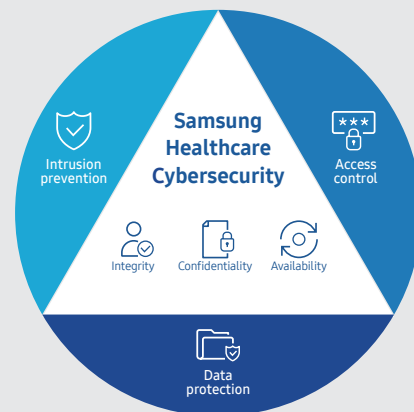
Tools for protecting against cyber threats from external attacks



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



Strengthened surveillance for tracking of patient information



## Shared Bucky™

Shared Bucky™ is designed for sharing multiple detector devices on one place and can be used on a table with S4335-AW and S4343-AW. Shared Bucky™ with S4335-AW can be placed in landscape and vertical directions to capture images such as tall patients' spines.

## Value care service



### Remote Maintenance System

This RMS continuously monitors any system errors and automatically identifies the system and software version.



### 24/7 call center

Our customer support center operates 24 hours per day, 365 days a year to quickly respond to any questions or problems you may have.



### Upgrade service

Staying up to date is quick and easy. Samsung offers you the latest products through optional detector upgrades, as well as hardware and software upgrades.



### Service offering

You have the flexibility to choose from our wide range of service and support programs to create a tailored program that best meets your unique requirements.

Maintenance service availability may vary by country.  
Service countries are Germany, France, Italy, China, India, USA, Brazil, etc.