# ACCELERATING INTELLIGENCE

## ACC™
ACCESS · ACCURACY · EFFICIENCY

# GC85A

## Vision

# ACCELERATING INTELLIGENCE

**AccE™ GC85A**

Vision

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

**01**

STREAMLINE WITHOUT COMPROMISE

**02**

DIAGNOSTIC CONFIDENCE

**03**

EXPAND PREMIUM EXPERIENCE

GC85A Vision is a sub-configuration of GC85A with Vision Assist.

S-Vue™

Low Dose

Full Auto System

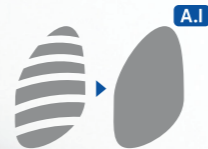**New** Vision Assist

**New** AccE Glass-Free Detector

Soft Handling™

Auto Lung Nodule Detection A.I

SimGrid™ A.I

Bone Suppression A.I
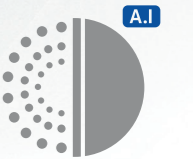
Remote Software Update

SAMSUNG

# STREAMLINE WITHOUT COMPROMISE

## Fully automated system

AccE GC85A Vision enables fully automated operation along with the tube head unit, motorized wall stand and patient table. Simply press the button and continue patient care.

### Auto-positioning

Auto-positioning allows for quick and easy movement for over 500 preprogrammed positions. Utilize P1-P6 customizable quick positioning buttons on the remote control for more commonly used protocols.

### Auto-tracking

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

### Soft Handling™

Lightly move the tube head unit with a little effort.

Motorized wall stand

Auto-positioning

Anti-collision Sensor

Soft Handling™

Auto-tracking

Shared Bucky™
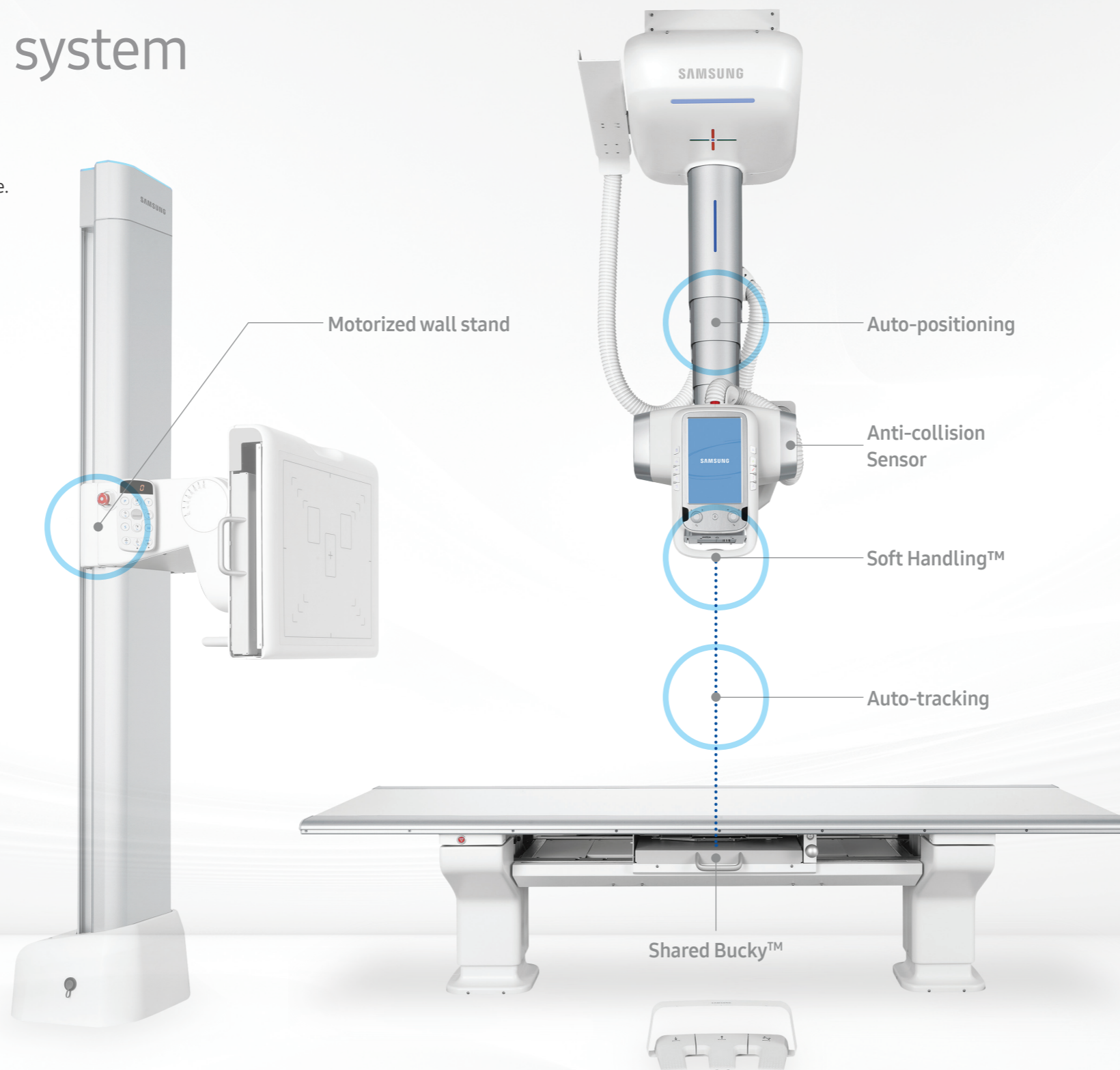
### S-Align™

When using detectors for free exams, S-Align™ displays the detector's angle on the tube head unit for precise alignment. Also, when the tube head unit and the detector are within a certain radius, the angle can be automatically aligned, reducing repetitive exposure and saving time.
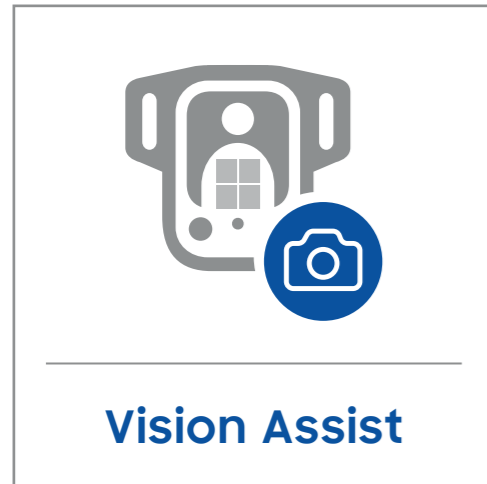
### SimGrid™*

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.
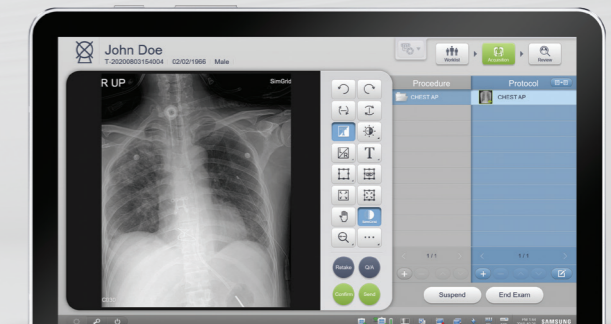
Images were taken with GM85.

# STREAMLINE WITHOUT COMPROMISE

**New**

## Vision Assist*

Samsung's latest camera solution, Vision Assist is focusing on new ways to further increase the efficiency of DR imaging. Vision Assist allows continuous patient monitoring through Vision Live, a live-streaming camera in the tube head unit (THU). It assists technologists to quickly and accurately control the positioning and settings from the control room or THU. Experience agile and intelligent workflow with Vision Assist in AccE GC85A Vision.
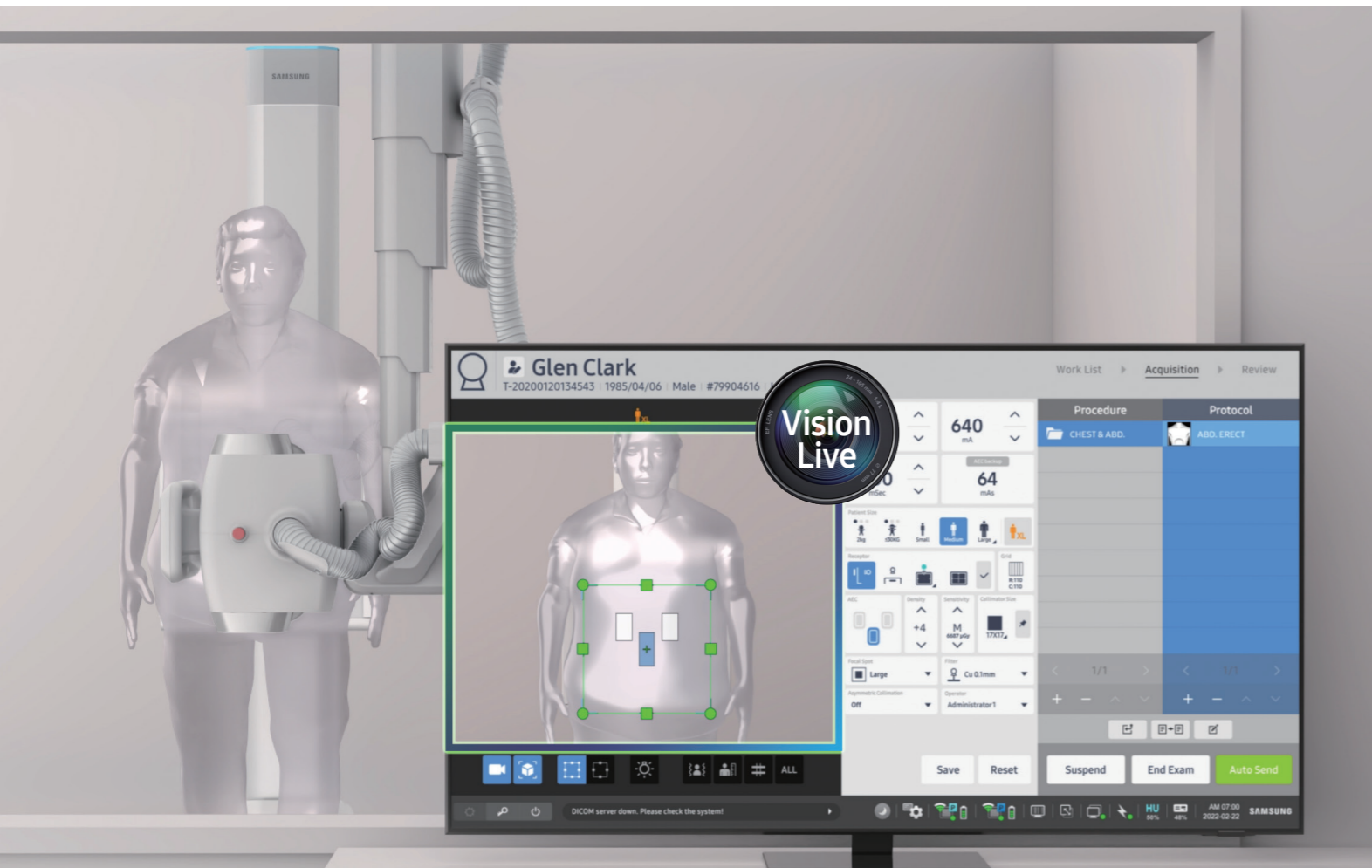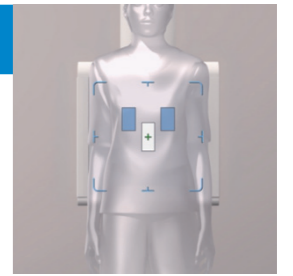
**Vision Assist**



Reduce retake errors in positioning

Save operation time in setting

### Virtual Overlay*

When positioning a patient, Vision Assist displays a virtual drawing of the receptor boundaries and AEC chambers and AEC chamber onto the patient. This assists the technologists with ensuring proper patient positioning.

### Virtual Collimation*

Virtual Collimation via real-time camera allows for easy adjustment of the collimated area on the workstation in the control room, enabling more accurate collimation.
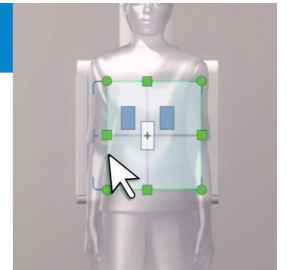
### Motion Alarm*   A.I.

Motion Alarm function notifies a technologist if a patient moves after positioning. This helps prevent unnecessary repeat exposures due to patient movement and also helps ensure patient safety.

### Patient Size Guide*

Vision Assist recommends patient size and optimal parameters based on the patient's body thickness to save time. It supports the guide for adult sizes from small to 2X-large and also allows users to set the size range.

### Intelligent Collimation*   A.I.

To speed up workflow, Intelligent Collimation provides optimal collimated area automatically. Users can get assistance with just one click, reducing control time.
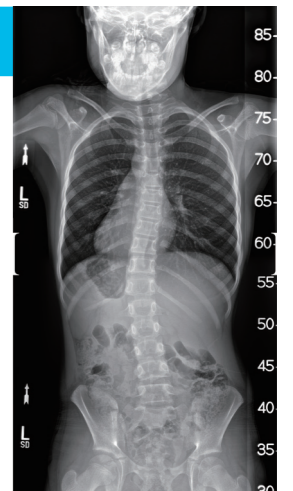
**25%** Setting Time[1]
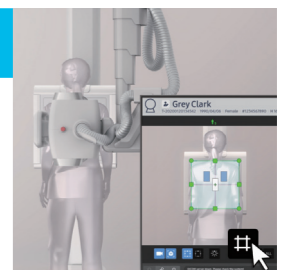
### Vision Stitching*   A.I.

**One-touch auto planning for stitching**

**84%** Setting Time[1]

1) Based on a study with technologists in a development environment. Comparison of average time between manual setting in the GC85A and automatic setting in the GC85A with Vision Assist.

# INNOVATIVE ENHANCED USABILITY

**27 % Lighter†**

**New**

**AccE Glass-Free Detector**

To improve imaging workflows, Samsung introduces its new flagship detector, AccE Glass-Free Detector. It is designed to relieve user fatigue with its ultra-lightweight design by replacing a glass-based substrate with a non-glass flexible panel. This glass-free technology not only makes it 27% lighter than the conventional model† , but also does not compromise the image quality with high DQE (76% @0lp/mm).

**Lightweight approx. 2 kg ‡ (4.5 lbs)**
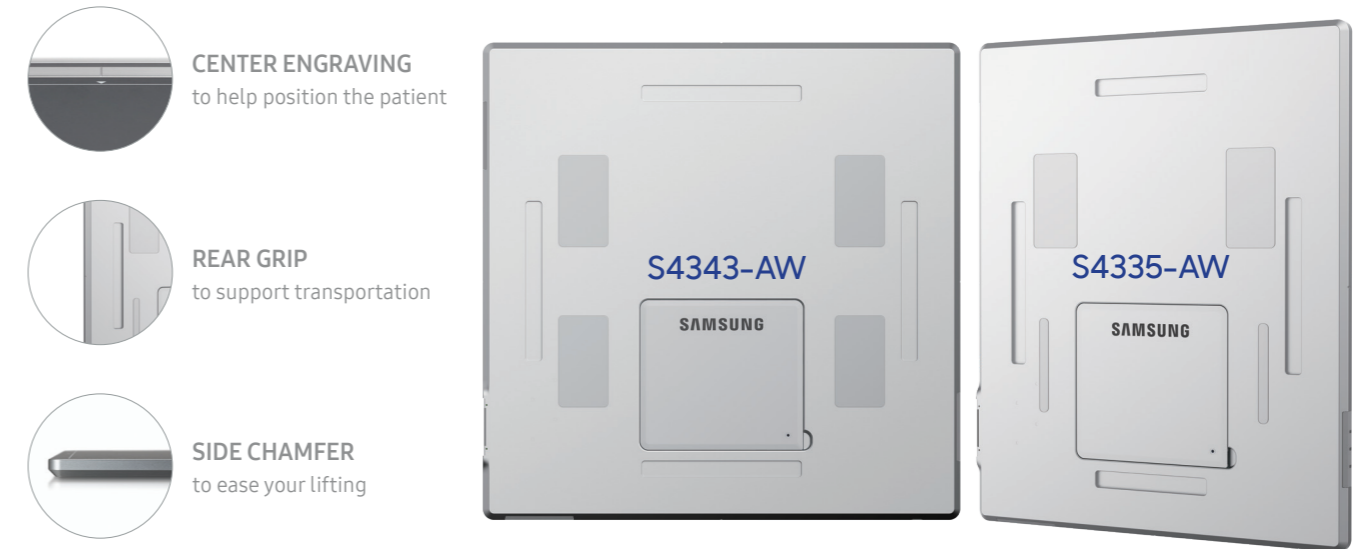
F4335-AW

IP54

## Reliable in Versatile Environment

Impressive weight distribution capacity along with dust and water resistance allows the detector to be actively implemented in versatile environments. Its robust design will user concerns when using the detector in complex situations such as ER and OR.

**400 kg (881 lbs)** Surface load

**200 kg (441 lbs)** Point load[1]

† Compared to S4335-AW without battery set
‡ Measured without battery set
1) Based on 40 mm diameter disc at the center

## Enhance Your Daily Workflow

User-centric design of the detector to support patient positioning and alleviate daily burdens.

**CENTER ENGRAVING**
to help position the patient

**REAR GRIP**
to support transportation

**SIDE CHAMFER**
to ease your lifting

S4343-AW

S4335-AW

## Manage Your Detector Wisely

Continuous status tracking of the detector will upgrade user confidence and improve the system's uptime. Features such as real-time shock sensing and detector auto correction will allow the detector to be in shape for use and help you respond quickly to critical detector shocks.
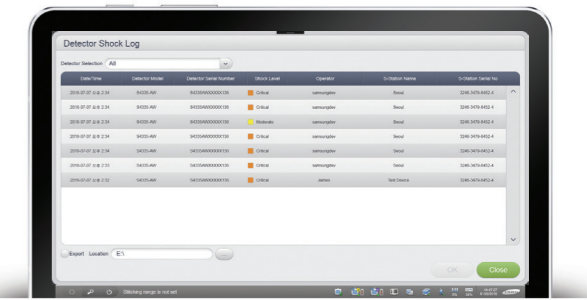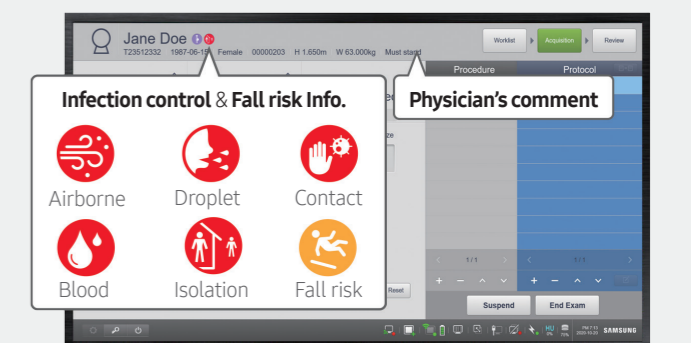
Real-time Shock Sensing

## Voice Guide*

For radiologic technologists, it can be a burden to repeat the same comments to each patient, such as breath in/hold, do not move, etc. Voice Guide helps to reduce user fatigue and improve work efficiency. With hotkey control (F1~F8), you can conveniently deliver pre-recorded comments and it also helps to alleviate language barriers with foreign-language speaking patients.
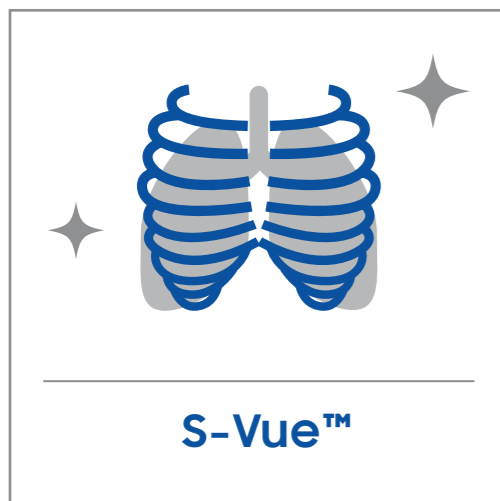
**Voice Play**

## Additional Patient Information*

Additional Patient Information feature shows intuitive infection and fall risk information & order comments to support correct action for each patient. This can keep patients and staff safe as we can respond to the possible risks and take preemptive measures.

Jane Doe

**Infection control & Fall risk Info.**

**Physician's comment**

Airborne  Droplet  Contact

Blood  Isolation  Fall risk

# DIAGNOSTIC CONFIDENCE

## S-Vue™

**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.[1]

### Case 1. Chest AP (X-Large adult)
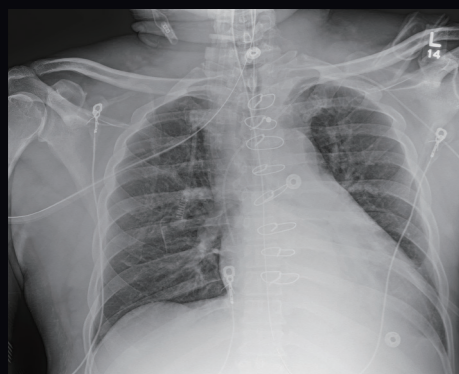
The image was taken with GM85.

### Case 2. Abdomen

These images were taken with GC85A.

### Case 3. L-spine

### Case 4. Pelvis (Halo artifact)

The image was taken with GC85A.

The upgraded S-Vue™ displays areas with varying bone density clearly regardless of the patient's size or body region through advanced region-specialized processing.

## 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.
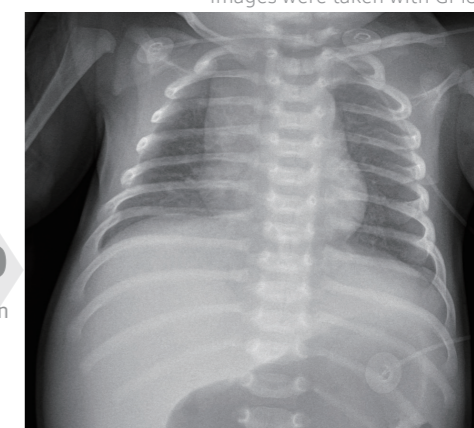
**Case.** Pediatric Chest PA[1]

Images were taken with GM85.

**15%** Dose Reduction
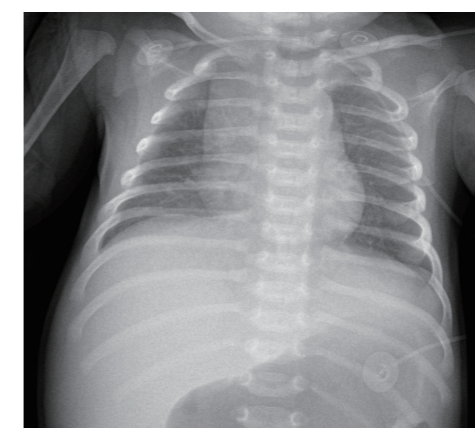
| Conventional | Low Dose |
|---|---|
| 16.1 uGy | 13.7 uGy |
| ( 54 kVp / 1.42 mAs / 0.06 dGy*cm² / 0.1 mmCu Filter ) | ( 54 kVp / 1.21 mAs / 0.05 dGy*cm² / 0.1 mmCu Filter ) |

*  Optional feature requiring additional purchase

## Precise dose management features

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

- 6-stage Pediatric Exposure Management according to weight
- 3-stage Bariatric Exposure Management* (Large/X-Large/2X-Large)
- Automatic filter with APR
- Individual blade control
- Dose Report
- AEC

1)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 calculates 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
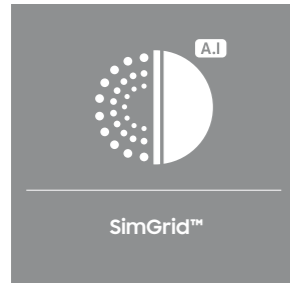
## SimGrid™*

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. The 3-step intensity control (Low/Medium/High) enables customized image processing.

**Case.** Chest AP

Images were taken with GM85.
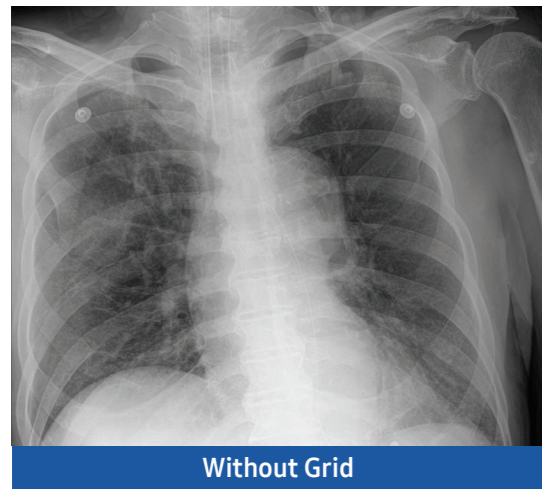
Without Grid
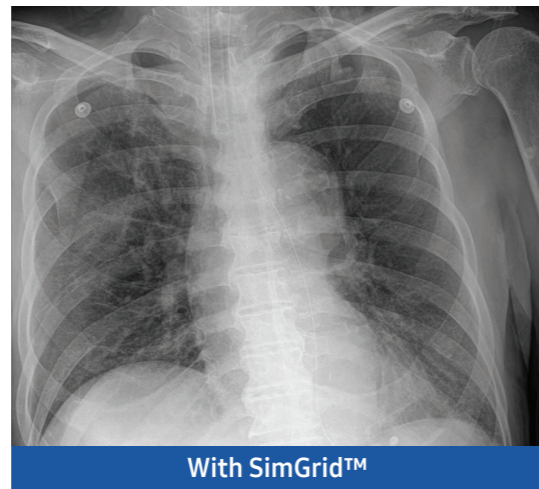
With SimGrid™

## 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 AP

Images were taken with GM85.

Without S-Enhance

With S-Enhance

## Bone Suppression*

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.
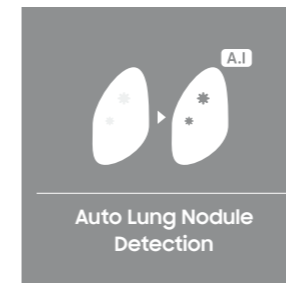
**Case.** Chest PA

Images were taken with GC85A.

Without Bone Suppression

With Bone Suppression

## Auto Lung Nodule Detection*[1]

Auto Lung Nodule Detection is computer aided detection software to identify and mark regions in relation to suspected pulmonary nodule s from 10 to 30 mm in size. It is designed to aid the physician to review the PA chest radiographs of adults as a second reader and be used as part of S-Station.
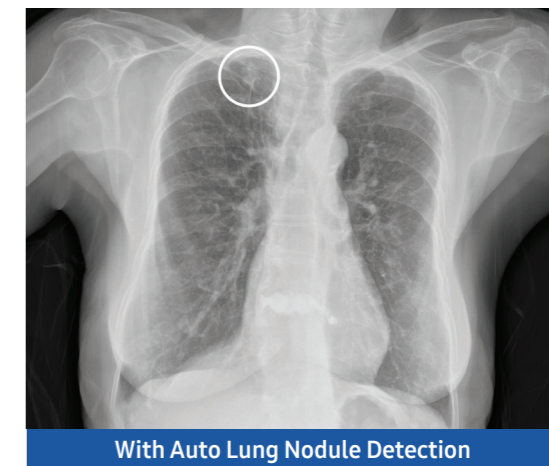
1) ALND cannot be used on the patients who have lung lesions other than abnormal nodules and was not tested on images having more than three nodules.

**Case.** Chest PA

Images were taken with GC85A.
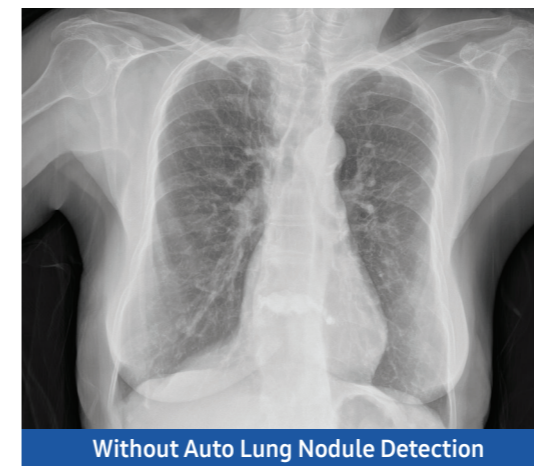
Without Auto Lung Nodule Detection

With Auto Lung Nodule Detection

# EXPAND
# PREMIUM EXPERIENCE

## S-Share™

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



AccE GC85A Vision

S3025-AW

AccE Detector
AccE Glass-Free Detector

AccE GM85

## QAP*(Quality Assurance Program)

QAP assures maximized 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.
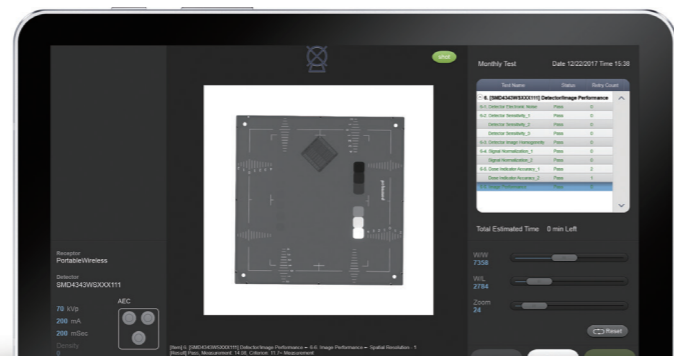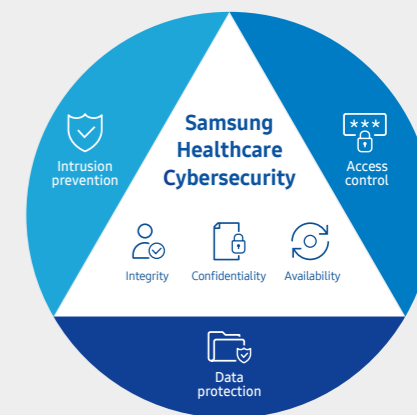
* Optional feature requiring additional purchase

## 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



Samsung Healthcare Cybersecurity

Intrusion prevention — Access control — Integrity — Confidentiality — Availability — Data protection

## Shared Bucky™

Shared Bucky™ is designed for sharing two sizes of detectors in one bucky tray in the table. (F4335-AW, S4335-AW, S4343-AW)



43x35cm (17x14inch)

43x43cm (17x17inch)
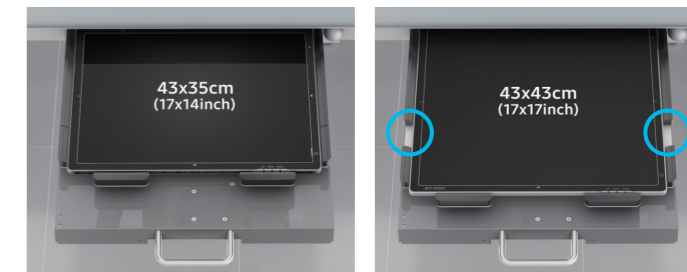
## Value care service

### Remote Software Update
Keep the software up to date without service requests. The latest version of the software is notified for users to download and update.

### 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.

### Service offering
Samsung provides tailored service and support programs to meet your unique requirements.

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

About Samsung Electronics Co., Ltd.
Samsung Electronics Co., Ltd. inspires the world and shapes
the future with transformative ideas and technologies.
The company is redefining the worlds of TVs, smartphones,
wearable devices, tablets, cameras, digital appliances,
medical equipment, network systems, and semiconductor
and LED solutions. For the latest news, please visit the
Samsung Newsroom at news.samsung.com.

**AccE GC85A Vision Catalog v5.0-221021-FDA**

GC85A Vision is a sub-configuration of GC85A with Vision Assist.

Scan code or visit
www.samsunghealthcare.com
to learn more

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