

Introducing a **NEW** Mobile X-ray

# GM85 Fit

Designed to Fit your Needs



Fit Your Workflow

Fit Your Care

Fit Your Diagnosis

# A NEW AGE OF MOBILE DIGITAL RADIOGRAPHY

As the utilization of mobile X-ray increases to deal with unprecedented patient volume, Samsung continues to focus on creating more efficient mobile imaging solutions. The GM85 Fit, a new configuration of the premium AccE GM85, was engineered to enhance workflow and improve diagnosis through advanced technology and novel design. This new mobile digital radiography system provides users with a more value-oriented option and features a user centric design that aids in efficient and effective patient care.

01

Fit Your Workflow



Higher efficiency



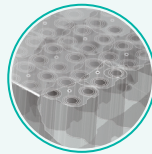
Shorter service time



Longer lifespan

02

Fit Your Diagnosis



03

Fit Your Care



**Rapid  
Charging<sup>1</sup>**

Within  
**3~4**  
hours

**All Day  
Operation<sup>2</sup>**

**550**  
exposures  
**60** km  
(37.3 miles)  
**11** hours

**Max.  
Exposure<sup>3</sup>**

**1,900**  
exposures

**Sleep  
Mode  
Stand-by<sup>4</sup>**

**35**  
hours

1) 200 ~ 240 VAC < 3 hours, 100 ~ 127 VAC < 4 hours

2) Test condition : Chest AP / 80 kVp / 160 mA / 5 msec / 60 sec intervals, moving in maximum velocity (5.6 km/h)

3) Test condition : Chest AP / 80 kVp / 160 mA / 5 msec / 20 sec intervals, without moving

4) Stand-by 19 hours for LCD on, 35 hours for sleep mode, and 75 hours for power off

# Fit Your Workflow

MANEUVER EASILY AND QUICKLY TO THE PATIENT



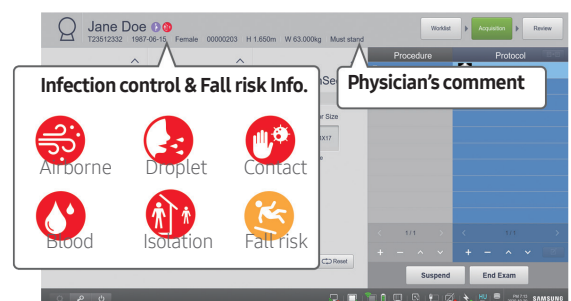
From the moment you begin working, GM85 Fit increases your work efficiency with the fast speed of booting up the system. **Quick Driving** allows radiographers to move GM85 fit right away without waiting for the system to be fully ready. Users can easily log in to the system through the **Embedded RFID Badge Reader\***.

**Additional Patient Information\*** is useful when checking the list of patients requiring x-ray imaging. It intuitively shows infection and fall risk information and orders comments that support correct action for each patient. This helps keep patients and staff safe by responding to possible risks and taking preemptive measures. **Ultra-light** GM85 Fit allows easy maneuvering both in and out of elevators without worrying about the weight limit.

## Embedded RFID Badge Reader\*



## Additional Patient Information\*



\* Optional feature purchased separately, not included in standard configuration.





## EFFICIENTLY ACQUIRE HIGH QUALITY IMAGES



In portable exams, radiologic technologists rotate images after the acquisition as the image orientation depends on the exam environment. **Image Auto rotation\*** detects the rotation angle of the chest/abdomen/pelvis/infantogram image and automatically rotates in the correct direction based on AI algorithm. The **auto-run option** of advanced applications creates the companion image without additional settings or x-ray exposure.

In the ER/OR or Trauma environments, multiple staff may often need to quickly acquire and check images in real-time. **Mirror View\*** provides secured screen sharing for healthcare team to review images. This allows staff to check images together on a separate screen, reducing the time to first aid and the risk of contamination. Through QuickLink, you can check whether the acquired images uploaded well to the server by accessing RIS/HIS directly without a separate PC.

When preparing for the next exam, **EasyClean**, which locks the screen for a while, helps you clean equipment quickly and control infection effectively.

**Water resistant detector**  
for easy cleaning

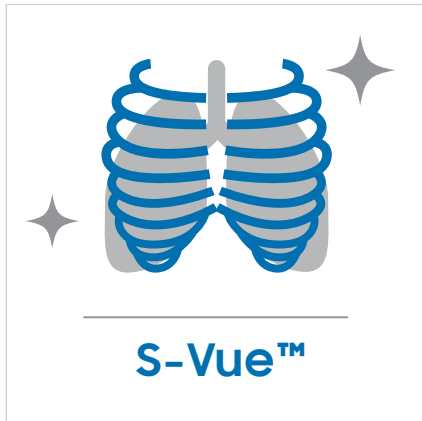


**Detector rest**  
for easy bagging



\* Optional feature purchased separately, not included in standard configuration.

# Fit Your Diagnosis



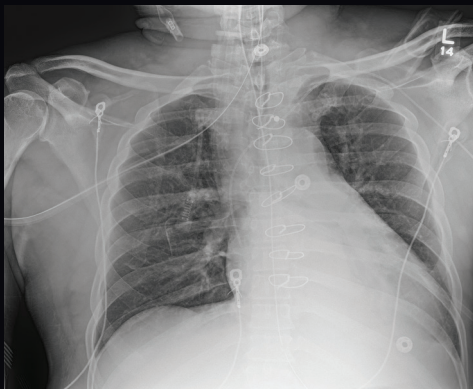
Up to  
**50%**

**Dose reduction**  
Same image quality

Samsung's S-Vue™ image processing engine provides excellent, high resolution images for diagnostic accuracy and confidence. The S-Vue's adaptive filtering and advanced denoising technology offer the natural presentation of bone and soft tissues. Also, dose level can be reduced up to 50% for adult chest and 47.5% for adult abdomen without compromise in image quality.

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.

**Case 1. Chest AP (X-Large adult)**



The image was taken with GM85.

**Case 2. Abdomen**



The image was taken with GC85A.

**Case 3. L-spine**



The image was taken with GC85A.



## Standard Detector

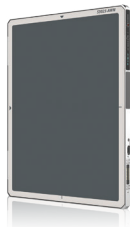
IP54 



S4343-AWM



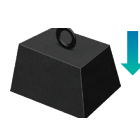
S4335-AWM



S3025-AW

## High quality Small pixel pitch

To offer optimized image quality, Samsung introduce AccE Standard Detector that broaden customers' choice of Csi detectors. This latest lineup will meet various clinical needs for sizes. Enhanced load allowance along with dust and water resistance allows the detector to be actively implemented in versatile environments such as ER and OR.



**400 kg**  
(881 lbs)

Surface load



**200 kg**  
(441 lbs)

Point load<sup>1</sup>



**200 kg**  
(441 lbs)

Bend pressure

<sup>1</sup>) Based on 4cm radius on the center

### Case 4. Pelvis



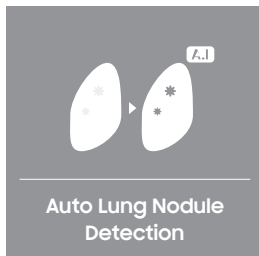
The image was taken with GC85A.

## Consistent Image Quality

The upgraded S-Vue™ displays areas with varying bone density clearly regardless of the patient's size or body position through advanced region-specialized processing. With this engine, halo artifacts surrounding metallic objects are mitigated and visualized properly.



# Fit Your Diagnosis



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

Auto Lung Nodule Detection is computer aided detection software to identify and mark regions in relation to suspected pulmonary nodules 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.

### Case. Chest PA

Images were taken with GC85A

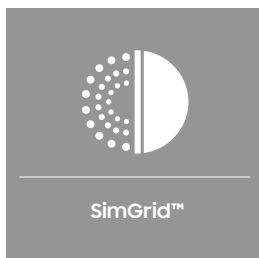


Without Auto Lung Nodule Detection



With Auto Lung Nodule Detection

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.

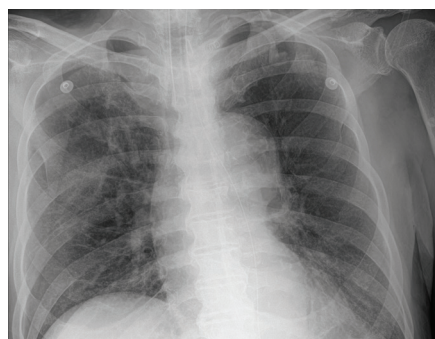


## SimGrid™

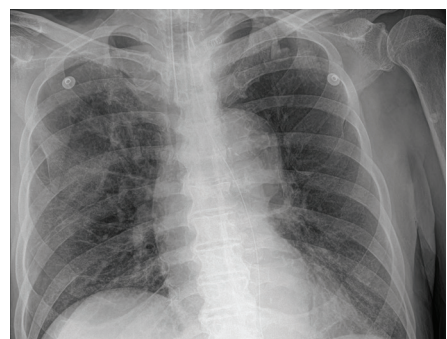
With just a click, SimGrid™ allows you to provide better patient care with higher satisfaction and reduced retake rates without the use of a portable grid. It improves image contrast by reducing scatter radiation effects and creates better image quality. The 3-step intensity control (Low/Medium/High) enables customized image processing.

### Case. Chest AP

Images were taken with GM85



Without Grid



With SimGrid™

\* Optional feature purchased separately, not included in standard configuration.



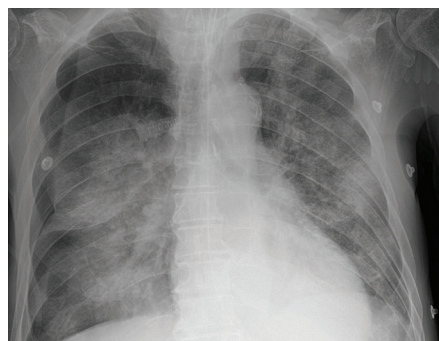


## S-Enhance\*

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

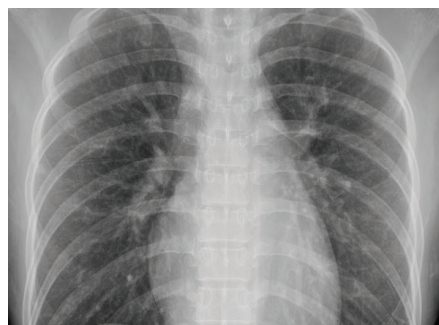


## Bone Suppression\*

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

\* Optional feature purchased separately, not included in standard configuration.

# Fit Your Care

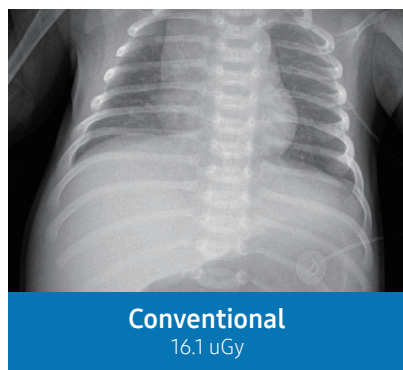


Up to  
**45%**

## Dose reduction For very young patients

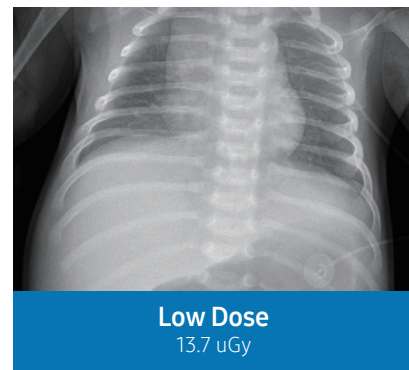
Underaged patients are more radiosensitive than adults. To alleviate these concerns, the new S-Vue™ engine helps achieve the optimal dose level for children during pediatric x-ray scans. The dose level can be reduced up to 45% for pediatric abdomen, 15.5% for pediatric chest, and 27% for pediatric skull exams. This is especially significant as abdomen protocols may include genital regions.<sup>1</sup>

### Case. Pediatric Chest PA\*



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

**15%**  
DOSE  
REDUCTION

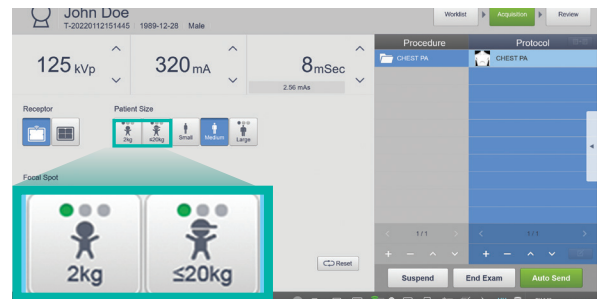


( 54 kVp / 1.21 mAs / 0.05 dGy\*cm<sup>2</sup> / 0.1 mmCu Filter )

**6stages**

## Pediatric Exposure Management

Optimized **6-stage weight dependent imaging** enables pediatric patients to avoid unnecessary x-ray exposure using precise dose management, resulting in superior image quality. Users who need detailed control can apply 3 types of **additional filters**. (0.1/0.2/0.3 mm Cu)



Less than  
**42 dB**

## when the system is on stand-by<sup>2</sup>

GM85 Fit allows low noise operations that do not disturb other patients. With **night mode** on, the screen color, temperature, and sound volume are accordingly adjusted. It will be a necessary function for taking x-ray exams in a quiet environment such as NICU. Its **quick exposure** feature is useful for pediatric patients who are not easy to maintain stationary posture.



1. 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.

American Academy of Pediatrics (AAP) recommendation in NICU ≤ 45 dB

2. The sound level is less than 42 dB during stand-by, less than 44 dB during charging.



## Efforts to reduce fatigue of radiographers

Ultra-light GM85 Fit provides an effortless driving experience for users. Not only the equipment but also the detector that must be held directly with the arm should be light. The user-centric design of AccE Standard Detector supports patient positioning and alleviates daily burdens.



**339 kg**  
(747 lb)

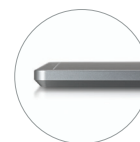
Light weight



**CENTER ENGRAVING**  
to help position the patient



**REAR GRIP**  
to support transportation

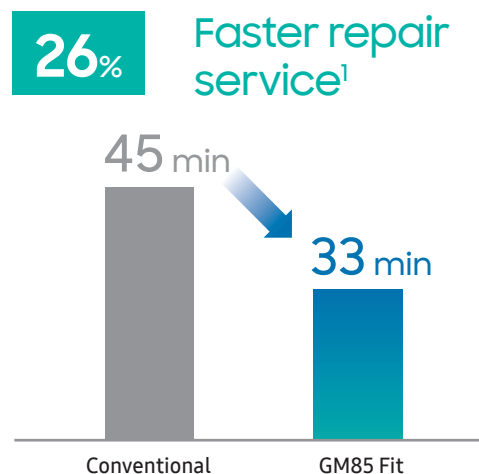
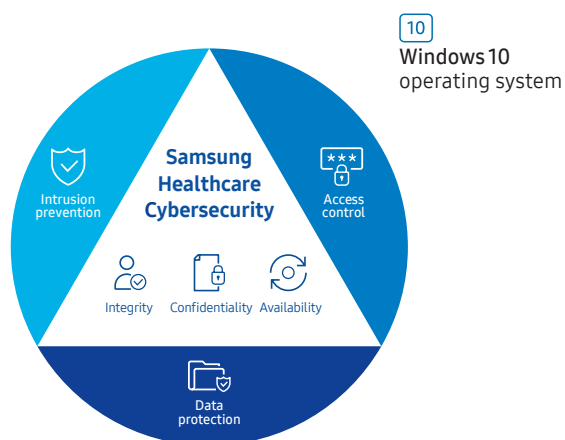


**SIDE CHAMFER**  
to ease your lifting



## Cybersecurity & Value Care Service

Samsung provides a solution to support our customers by offering the tools to protect against cyber threats that may compromise invaluable patient data and ultimately degrade the quality of care. In addition, **remote software update** function allows the system to keep up to date. Experience Samsung's **value care service** that improves the system's uptime and total cost of ownership with 26% faster repair service.<sup>1</sup>



1. Based on the service time evaluation for major parts repair (compared to the conventional GM85)

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