Relentless Innovation
for your diagnostic confidence

SAMSUNG

Fit Your Needs,

GM85 Fit-type

FOCUS ON THE CORE OF "MOBILE" RADIOGRAPHY

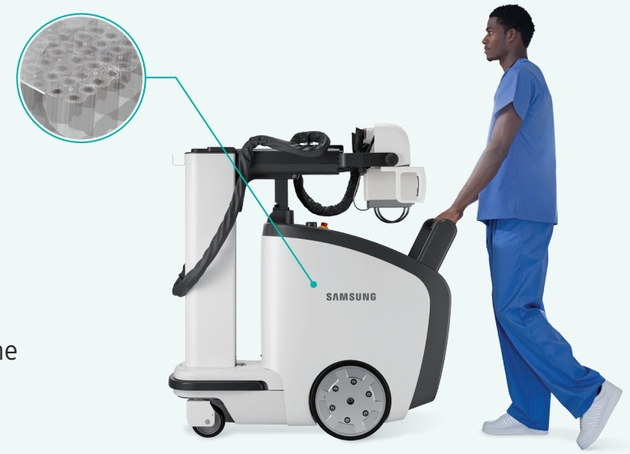
In recent extraordinary situations, radiography is facing a new paradigm in its ways of working. As the procedure volume of mobile x-ray increases to deal with unprecedented patient volume, Samsung is focusing more on efficient mobile imaging based on its accumulated technology. Experience higher productivity and performance with GM85 Fit designed to fit your workflow, diagnosis and care.

01 **Fit Your Workflow** → 02 **Fit Your Diagnosis** → 03 **Fit Your Care**

Powered by **Lithium-ion Battery**

Lead -free

- Higher efficiency
- Shorter service time
- Longer lifespan



Rapid Charging[1]	All Day Operation[2]	Max. Exposure[3]	Sleep Mode Stand-by[4]
Within **3~4** hours	**500** exposures **50** km (31 miles) **10** hours	**2,300** exposures	**31** 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, with driving at 5.6 km/h
3) Test condition : Chest AP / 80 kVp / 160 mA / 5 msec / 10 sec intervals, without driving
4) Stand-by 18 hours for LCD on, 31 hours for sleep mode, and 75 hours for power off

* Optional feature requiring additional purchase

Fit Your Workflow

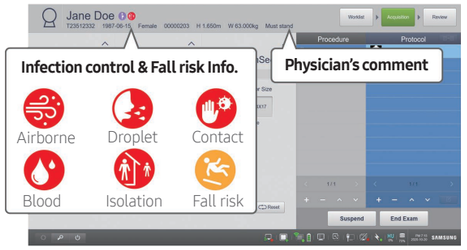
WHEN YOU GO TO START AN EXAM,

At the moment you start working, GM85 Fit increases your work efficiency with the fast speed of booting up the system. **Quick Driving** allows radiologists 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 tag***. It is a built-in type in the equipment, so it reduces external interference.

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. The **lightweight** GM85 Fit allows easy maneuvering both in and out of elevators without worrying about the weight limit.

Embedded RFID badge tag*

Additional Patient Information*



* Optional feature requiring additional purchase

Fit Your Workflow

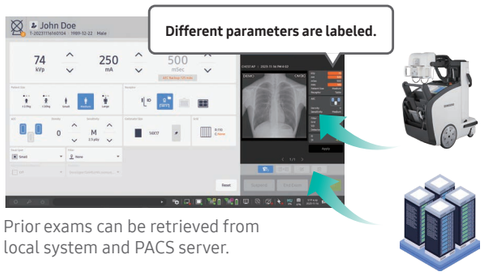
WHEN YOU REACH A PATIENT,

When checking the patient's identity after arriving at the room, a w**ireless barcode scanner*** allows you to freely approach the patient and scan information without being restricted by obstacles that may be near you and the patient. With a **wireless hand switch** that supports up to 10 m (33 ft) range, users can take images from far away to reduce radiation exposure.

Since the role of mobile DR is usually to use follow-up exams, it is important to perform x-ray exams under the same conditions. **Prior Exam Review*** displays previous images and exposure parameters of the patient being examined. With a quick comparison, users can improve image consistency and reduce retakes.

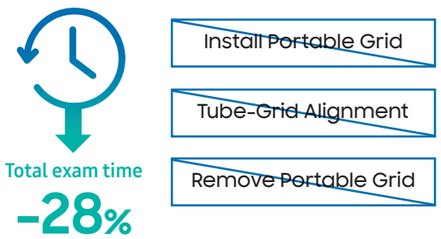
SimGrid™* application streamlines the workflow by improving image quality without the use of a conventional grid. This allows the omission of grid installation and removal steps from the conventional workflow leading to 28% reduction in total exam time.

Prior Exam Review*



Prior exams can be retrieved from local system and PACS server.

SimGrid™*



WHEN YOU GET X-RAY IMAGES,

In portable exams, radiologic technologists rotate images after the acquisition as the image orientation depends on the exam environment. **Image Auto rotation***[1] detects the rotated angle of the image and automatically rotates in the correct direction based on AI algorithm. (97% average accuracy) 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 using Wi-Fi CERTIFIED Miracast. 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.

1) [Chest/Abdomen/Pelvis/Infantogram] 0˚, 90˚, 180˚, 270˚ Rotation
[Hand/Foot] 1˚ Unit Rotation

Water resistant detector
for easy cleaning

Detector rest
for easy bagging

Fit Your Diagnosis

Up to **50%**

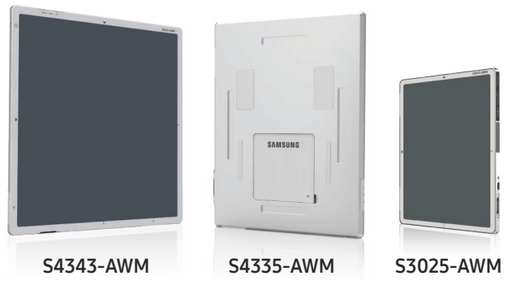
Dose reduction
Same image quality

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, K180543, 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.

Standard Detector

IP57



S4343-AWM | S4335-AWM | S3025-AWM

400 kg (881 lbs)	200 kg (441 lbs)	200 kg (441 lbs)
Surface load	Point load[1]	Bend pressure

1) Based on 4cm radius on the center

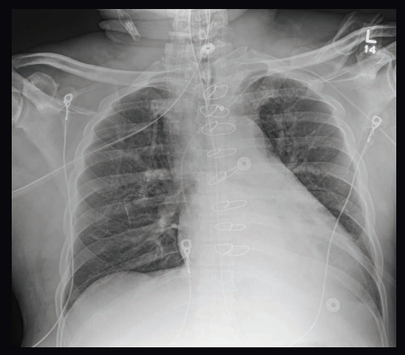
High quality
Small pixel pitch

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.

The new feature, detector built-in AEC, S-AEC enables consistent image quality in mobile imaging by precisely controlling radiation dose according to patient size. It is a truly wireless solution that requires no additional receptors or cables, and provides stable operation without concerns about detector direction, SID, or network latency.

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



The image was taken with GM85.

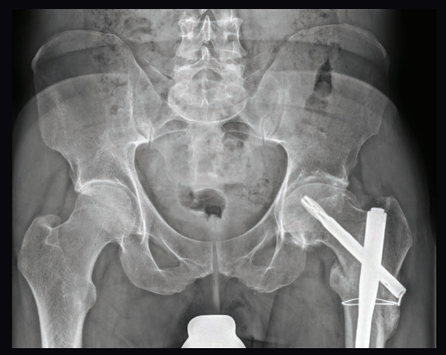
Case 2. **Abdomen**

The image was taken with GC85A.

Case 3. **L-spine**

The image was taken with GC85A.

Case 4. **Pelvis**



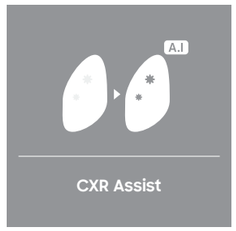
The image was taken with GC85A.

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.

* Optional feature requiring additional purchase

Fit Your Diagnosis



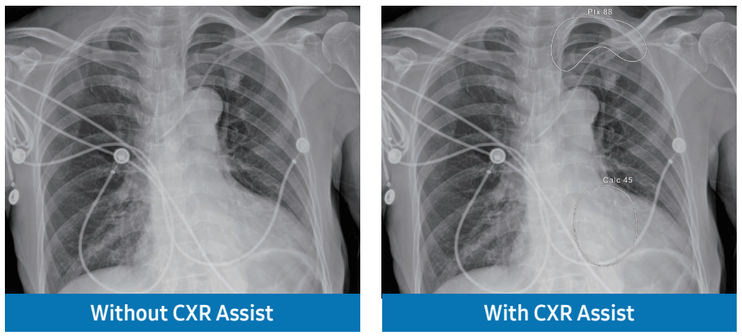
CXR Assist*

New CXR Assist with Lunit INSIGHT CXR helps you diagnose more efficiently and accurately by automatically detecting 10 of most common thoracic radiologic findings and supporting Tuberculosis Screening.

10+ Nodule · Consolidation · Pneumothorax · Pleural Effusion · Atelectasis · Pneumoperitoneum · Cardiomegaly · Mediastinal Widening · Calcification · Fibrosis · Tuberculosis Screening

Case. Chest AP

Images were taken with GM85.

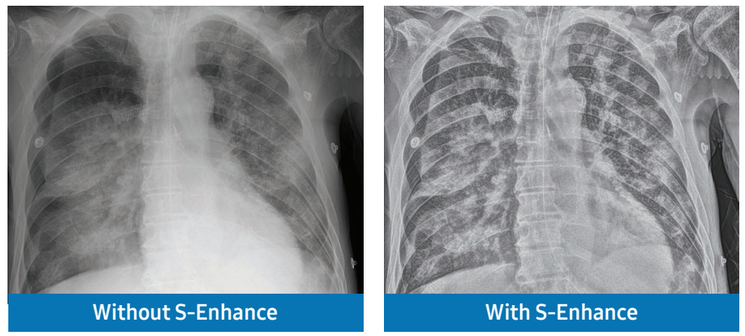


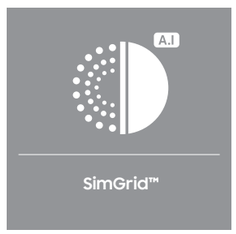
S-Enhance*

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.



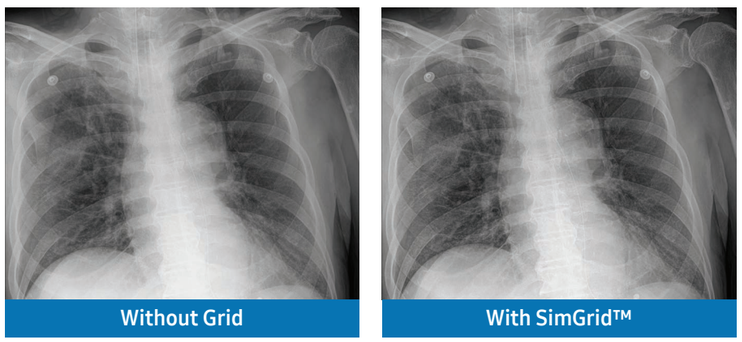


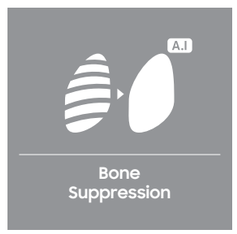
SimGrid™*

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.



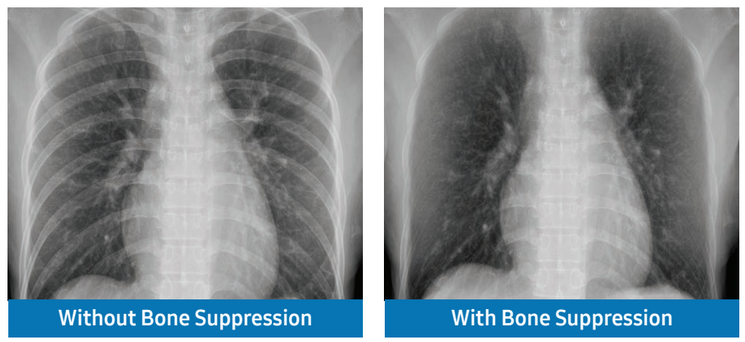


Bone Suppression*

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.



Fit Your Care

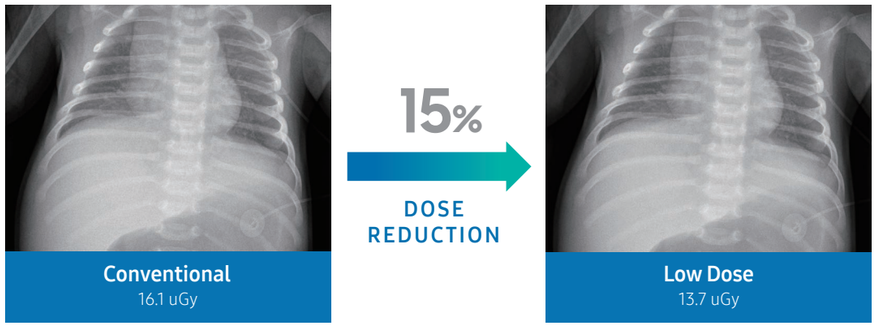
Up to **45%**

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.

Case. Pediatric Chest AP

Images were taken with GM85.



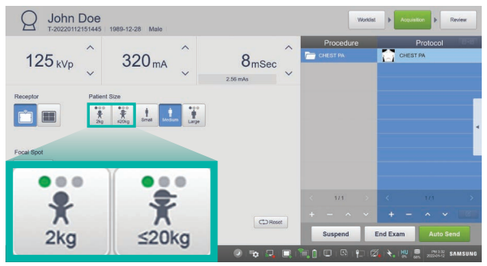
(54 kVp / 1.42 mAs / 0.06 dGy*cm² / 0.1 mmCu Filter)

(54 kVp / 1.21 mAs / 0.05 dGy*cm² / 0.1 mmCu Filter)

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 **43dB**

when the system is on stand-by

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.

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

Efforts to reduce fatigue of radiographers

The **lightweight** 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

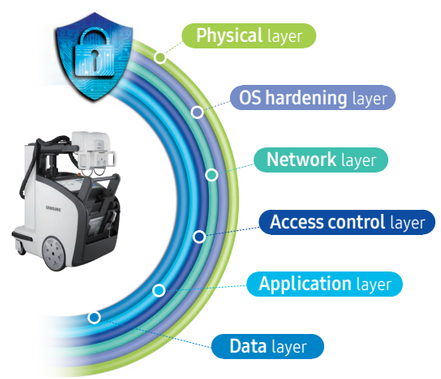
SIDE CHAMFER
to ease your lifting

Cybersecurity & Value Care Service

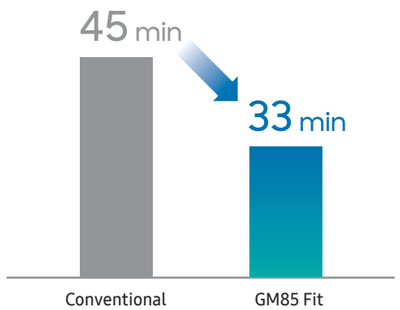
Samsung provides a solution to support our customers by offering the tools to protect against cyber threats that may compromise invaluable patient data and ultimately degrade the quality of care. In addition, **remote software update** function allows the system to keep up to date. Experience Samsung's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

Samsung's Defense-in-depth

Designed holistic protection for your critical assets with multi-layered security controls



26% Faster repair service[1]



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

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.

GM85 Fit Catalog v1.5-241127-CE

GM85 Fit is a sub-configuration of GM85. (Fit-type)

Scan code or visit
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