Relentless Innovation
for your diagnostic confidence

SAMSUNG

ACCELERATING EXPERIENCE

GM85 Elite



ACCELERATING EXPERIENCE

GM85 Elite

Premium mobile digital radiography system GM85 Elite provides outstanding driving experience and advanced applications to support enhanced usability and high image quality.

01

ADVANCED DRIVING EXPERIENCE

02

INNOVATIVE ENHANCED USABILITY

03

DIAGNOSTIC CONFIDENCE

GM85 Elite is a sub-configuration of GM85.

* Optional feature requiring additional purchase



GM85 Elite at a Glance

Consistent Image Quality & Enhanced Usability

- **S-AEC***: True Wireless, Detector Built-in AEC
- **SimGrid™ ***: Improved Quality of Non Grid Images
- Lightweight Glass-Free Detector (43x35/43x43 size)
- Powerful Performance with Long-lasting Battery

Patient-focused, Pediatric-optimized Solution

- Low Dose with S-Vue™ Image Processing Engine
- Pediatric / Bariatric* Exposure Management
- Quiet Operation & Night Mode Supported
- Detector In-bin Charging* (30x25 size added)
- Small detector sized to fit lengthwise within an incubator
- Long Length Detector for single-shot long bone imaging

ADVANCED DRIVING EXPERIENCE

Collapsible

A collapsible column with a minimum height of 1,396 mm (55 inches) secures a clear line of sight while driving.

2,030 mm(max.)
6.7 ft



New in Elite

Horn function
for safer driving

Light

The GM85 weighs only 349 kg, allowing for easy maneuvering in and out of elevators without concern for weight limits.

349 kg
769 lb

Compact

With the compact GM85, you can easily access even narrow hallways and tight spaces.

555 mm
21.9 in



INNOVATIVE ENHANCED USABILITY

27 % Lighter † ACCE Glass-Free Detector

The AccE Glass-Free Detector offers a more comfortable imaging experience. It is designed to relieve user fatigue by replacing a glass-based substrate with a lightweight, non-glass flexible panel. This glass-free technology not only makes it 27% lighter†, but also does not compromise the image quality with high DQE (F4343-AW/F4335-AW 76% @0lp/mm , F3025-AW 75% @0lp/mm, Pixel pitch 99µm).



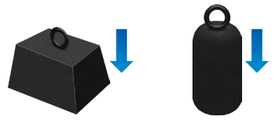
IPX7

Lightweight

F4343-AW approx. **2.7 kg** (6 lbs)‡

F4335-AW approx. **2.2 kg** (4.9 lbs)‡

F3025-AW approx. **1.7 kg** (3.7 lbs)‡



400 kg (881 lbs) Surface load

200 kg (441 lbs) Point load[1]

† Compared F4335-AW with S4335-AW without battery set
‡ The Battery Set includes the battery and the battery cover.
1) Based on 40 mm diameter disc at the center

Enhance Your Daily Workflow

The user-centric design aids in efficiency and portability, alleviating daily burdens.



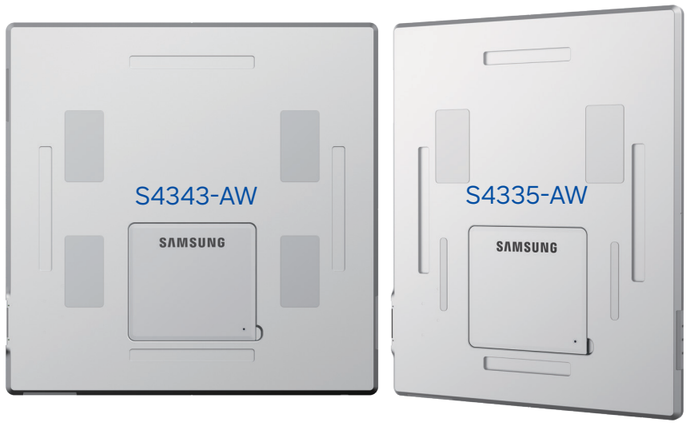
CENTER ENGRAVING
to help position the patient



REAR GRIP
to support transportation



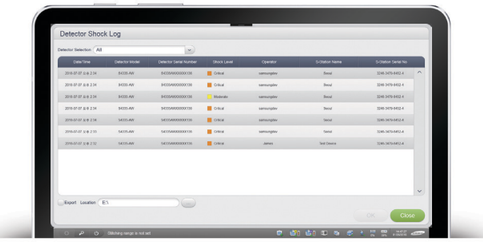
SIDE CHAMFER
to ease your lifting



* Optional feature requiring additional purchase
† Based on Samsung's internal testing

Manage Your Detector Wisely

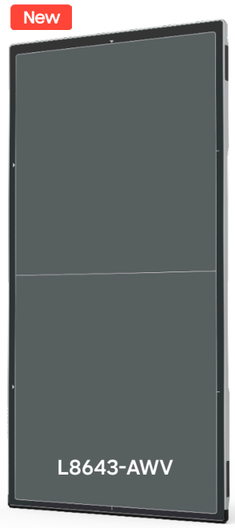
Continuous status tracking of the detector will enhance user confidence and improve the system's uptime. Features such as real-time shock sensing and detector auto correction will allow the detector to be in shape for use and help you respond quickly to critical detector shocks.



Real-time Shock Sensing

Long Length Detector

New



Rapidly capture long-length images with a single exposure, streamlining the radiographer's workflow and reducing patient examination time. Designed for seamless integration, the detector is fully compatible and shareable between Samsung ceiling and mobile systems, while flexible and secure holder options[2] ensure effortless positioning to adapt to your specific clinical needs.

43x86 cm (17 x 34 inch)

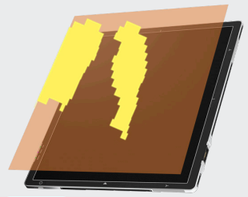
Battery Operation Time **10 hrs**[1]



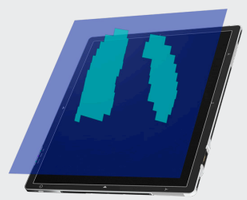
[1] Image acquired every 100 seconds
[2] To find information about compatible holders, please contact your local sales representative

Upgraded S-AEC* New in Elite

A built-in AEC in a detector enables consistent image quality in mobile imaging by precisely adjusting 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. The upgraded S-AEC supports **Anatomy Clipping Check**, which suspends the main exposure if the lung area is partially clipped.



New
Automatic Clipping Detection



Calculated Optimal Dose

Image Auto Rotation*

In portable exams, radiologic technologists rotate images after the acquisition as the image orientation depends on the exam environment. If the acquired image's orientation does not match the reference direction, Image Auto Rotation detects the rotated angle of the image and automatically rotates it in the correct direction.

[Chest/Abdomen/Pelvis/Infantogram] 0˚, 90˚, 180˚, 270˚ Rotation†
[Hand/Foot] 1˚ Unit Rotation†
(97% average accuracy)†



INNOVATIVE ENHANCED USABILITY

54 % Longer [2] Powerful Battery Performance

As the procedure volume of mobile X-rays increases to accommodate a large number of patients, Samsung is focusing on more efficient mobile DR imaging based on its accumulated battery technology. The upgraded lithium-ion battery offers 54% longer operating time[2] than conventional GM85 on a single charge. Experience higher productivity and performance with GM85 Elite.

Powered by **Lithium-ion Battery**
Lead -free

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	**1,800** exposures	**31** hours

1) 200 ~ 240 VAC < 3 hours, 100 ~ 127 VAC < 4 hours
2) Test condition : Chest AP / 80 kVp / 250 mA / 5 msec / 60 sec intervals, with driving at 5.6 km/h
3) Test condition : Chest AP / 80 kVp / 250 mA / 5 msec / 10 sec intervals, without driving
4) Stand-by 15 hours for LCD on, 31 hours for sleep mode, and 75 hours for power off

Less than 43 dB † Quiet Operation for Care

The GM85 allows for low-noise operation that does not disturb other patients. With **night mode** on, the screen color, temperature, and sound volume are accordingly adjusted. This is a necessary function for performing X-ray exams in quiet environments such as the NICU. Its **quick exposure** feature is useful for pediatric patients who have difficulty remaining still.



American Academy of Pediatrics (AAP) recommendation in NICU ≤ 45 dB
† The noise level is less than 43 dB when the system is on stand-by.
† Based on Samsung's internal testing

SID Guide

SID Guide (Source to Image Distance) supports detailed device positioning with multiple SID settings.
(3 SID Types : 100/130/180 cm)

S-Align™

S-Align™ displays the detector's angle to the THU for precise alignment and enhances the quality of imaging. With S-Align™ Info. to DICOM* feature, the tube/detector angle information is inserted into the DICOM personal tag and added as annotations.



* Optional feature requiring additional purchase

INNOVATIVELY ENHANCED USABILITY

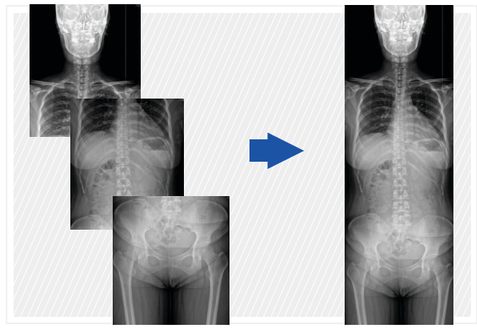
Prior Exam Review*

Prior Exam Review displays the most recent previous images and exposure parameters of the patient being examined. Prior exams can be retrieved from both local systems and PACS server. This function simplifies the conventional 3-step process into a single click. With a quick comparison, users can improve image consistency and reduce retakes.



Manual Stitching

The Manual Stitching feature helps clinical staff view X-ray images that are larger than the detector's area by combining multiple images into one.



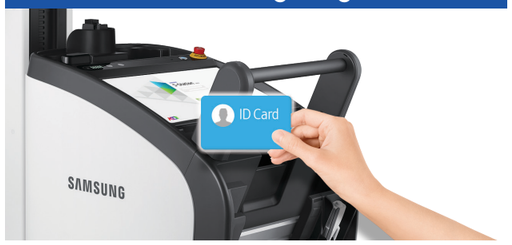
Images were taken with GR40CW.

Multi-touch Screen

The pinch gesture enables the user to zoom in and out while the two-touch shutter makes image cropping easy.



Embedded RFID Badge Tag*

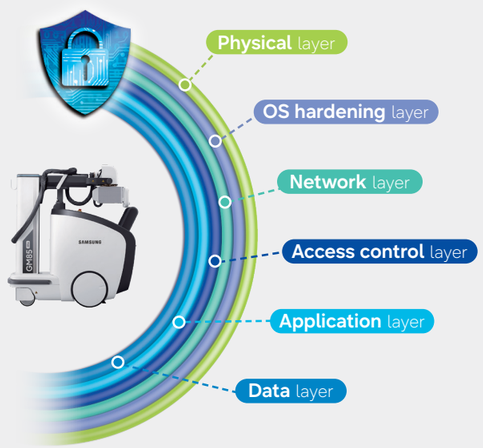


Mirror View*

In environments such as the ER/OR and Trauma centers, where multidisciplinary treatment planning occurs, multiple medical 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 function supports medical staff to check images together on a separate screen; it can reduce first aid response time and the risk of contamination.



Samsung DR Cybersecurity



Samsung's Defense-in-depth

- Designed holistic protection for your critical assets with multi-layered security controls: physical, operating system hardening, network, access control, application, and data layers

World-class Management System

- Received independent certification including ISO/IEC27001, ISO/IEC27701
- Complies with the Risk Management Framework (RMF) according to NIST SP 800-53

Government-grade Security

- Achieved government agency security including Authority to Operate (ATO) for the U.S. Department of Defense

DIAGNOSTIC CONFIDENCE

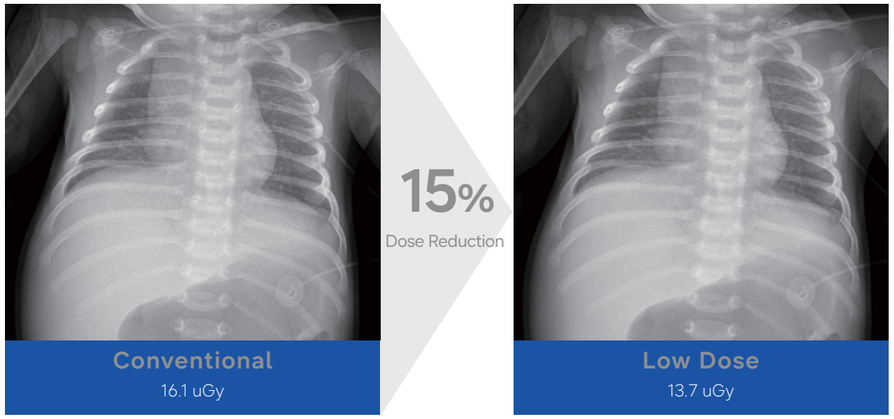
S-Vue™ in Pediatric X-rays

Underaged patients are more radiosensitive than adults. Therefore, diagnostic x-rays should be justified and optimized to reduce unnecessary exposures, especially for pediatric patients. 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, 14.5% for pediatric chest, and 27% for pediatric skull exams with the new S-Vue™ engine. This is especially significant as abdomen protocols may include genital regions.



Case. Pediatric Chest AP [1]

Images were taken with GM85.

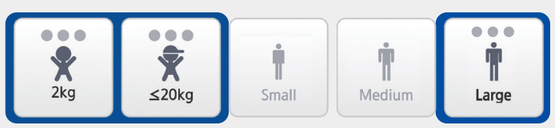


(54 kVp / 1.42 mAs / 0.06 dGy*cm² / 0.1 mm Cu Filter) (54 kVp / 1.21 mAs / 0.05 dGy*cm² / 0.1 mm Cu Filter)

Coverage for a wide range of body types

The GM85 supports **6-stage Pediatric Exposure Management** and **Bariatric Exposure Management*** (X-Large/XX-Large). These functions provide a framework for inputting and managing a variety of exposure conditions based on segmented body habitus. This provides the basis for applying imaging protocols tailored to specific body types, diverging from a one-size-fits-all approach.

Patient Size



* Optional feature requiring additional purchase



Low Dose in S-Vue™

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

Low Dose
Dose Less, Care More

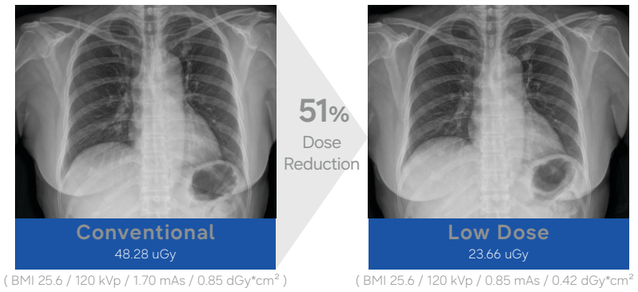
Our Pledge for Low Dose

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 you as a lifetime partner in the right way.

S-Vue™ in Adult Chest X-rays

Chest x-ray scans are the most frequent radiography examinations for patients in hospitals. Therefore, reducing the dose in chest X-rays is significant as it allows scans to be taken with reduced dose level for increasing number of patients. With new S-Vue™ processing engine, it cuts dose by 50% to low dose level while keeping the image at high quality.

Case. Adult Chest PA [1]



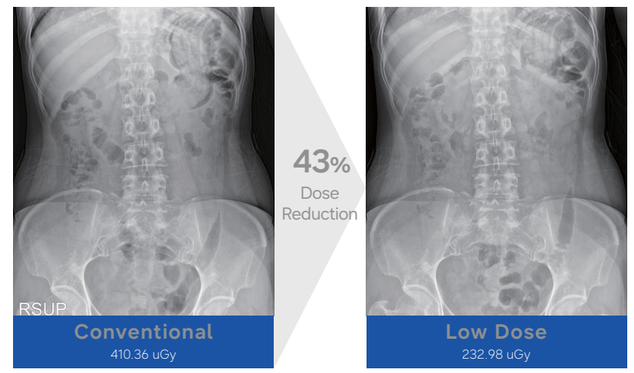
(BMI 25.6 / 120 kVp / 1.70 mAs / 0.85 dGy*cm²) (BMI 25.6 / 120 kVp / 0.85 mAs / 0.42 dGy*cm²)

Images were taken with GC85A.

S-Vue™ in Adult Abdomen X-rays

Dose exposure during abdomen x-ray scan is rather high in comparison to chest or other x-ray scans, making the dose reduction of this procedure critical. The new S-Vue™ engine allows up to 47.5% decrease in dose exposure with no compromise in image quality for better patient care.

Case. Adult Abdomen [1]



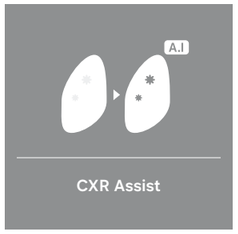
(80.3 kVp / 5.91 mAs / 3.79 dGy*cm² / None Filter) (72.3 kVp / 8.02 mAs / 3.12 dGy*cm² / 0.1 mm Cu Filter)

Images were taken with GC85A.

1) 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.

* Optional feature requiring additional purchase
† Based on Samsung's internal testing

DIAGNOSTIC CONFIDENCE



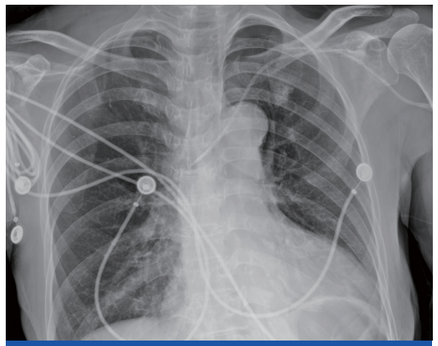
CXR Assist*

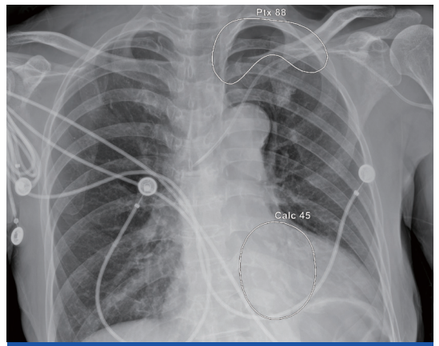
CXR Assist with Lunit INSIGHT CXR helps you diagnose more efficiently and accurately by automatically detecting 10 of the most common thoracic radiologic findings and supporting Tuberculosis Screening.

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

Case. Chest AP

Images were taken with GM85.


Without CXR Assist



With CXR Assist



S-Enhance*

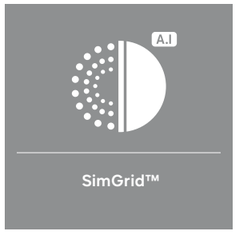
To support your diagnosis, S-Enhance improves the clarity of foreign bodies (e.g., tubes, lines, and/or needles) in images of the chest, abdomen, and L-spine. With a single on-screen click, the companion image is created without additional settings or x-ray exposure, streamlining the workflow.

Case. Chest AP

Images were taken with GM85.


Without S-Enhance


With S-Enhance



SimGrid™*

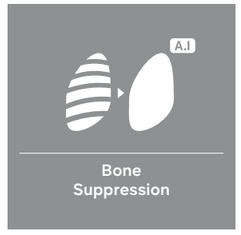
With just a click, SimGrid™ allows you to provide better patient care with higher satisfaction and reduced retake rates† without the use of a portable grid. It improves image contrast by reducing scatter radiation effects and creates better image quality. The 3-step strength control (Low/Medium/High)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

Case. Chest AP

Images were taken with GM85.


Without Grid


With SimGrid™



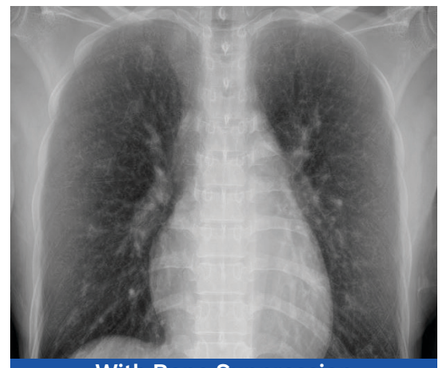
Bone Suppression*

Without additional settings 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

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 Elite Catalog v4.0-260423-CE

GM85 Elite is a sub-configuration of GM85.

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

Copyright © 2026 Samsung Electronics Co. Ltd. All rights reserved. Samsung is a registered trademark of Samsung Electronics Co. Ltd. Specifications and designs are subject to change without notice. Non-metric weights and measurements are approximate. All data were deemed correct at the time of creation. Samsung is not liable for errors or omissions. All brand, product, service names and logos are trademarks and/or registered trademarks of their respective owners and are hereby recognized and acknowledged. Samsung Electronics Co., Ltd.

129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea

SAMSUNG