Relentless Innovation
for your diagnostic confidence

SAMSUNG

ASSOCIATED X-RAY IMAGING CORPORATION

ACCELERATING EXPERIENCE

ACE™ GM85

ACCESS · ACCURACY · EFFICIENCY

The New

ACCELERATING EXPERIENCE

AccE™ GM85

ACCESS · ACCURACY · EFFICIENCY

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

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ADVANCED DRIVING EXPERIENCE

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Compact & Light

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Auto Filter

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Remote Software Update

ADVANCED DRIVING EXPERIENCE

Collapsible

Collapsible column with maximum height of 2,030 mm (6.7 ft) to secure a clear vision when driving the system.

2,030 mm(max.)
6.7 ft

Light

AccE GM85 only weighs 349 kg (769 lb) and allows easy maneuvering both in and out of elevators without worrying about the weight limit.

349 kg
769 lb

Compact

Easily access limited spaces with compact AccE GM85 even in narrow hallways or tight spaces.

555 mm
21.9 in

INNOVATIVE ENHANCED USABILITY

27 % Lighter†

New

AccE Glass-Free Detector

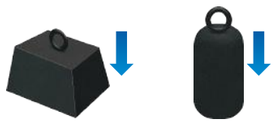
To offer more comfortable imaging experiences, Samsung introduces new flagship detector, AccE Glass-Free Detector. It is designed to relieve user's fatigue with lightweight by replacing a glass-based substrate with a non-glass flexible panel. This glass-free technology not only makes it 27% lighter†,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

Lightweight
approx. **2** kg ‡
(4.5 lbs)

IP54

Reliable in Versatile Environment

Impressive load allowance along with dust and water resistance 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.



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

* Optional feature requiring additional purchase

Enhance Your Daily Workflow

The user-centric designs of the detector deliver work efficiency and portability, alleviating daily burdens.

CENTER ENGRAVING
to help position the patient

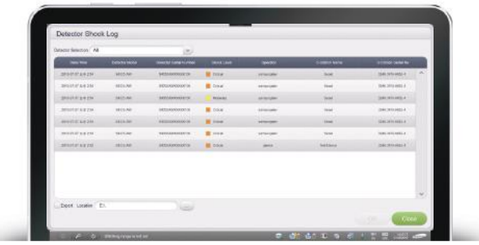
REAR GRIP
to support transportation

SIDE CHAMFER
to ease your lifting

AccE Detector

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

Image Auto Rotation*

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 0°, 90°, 180° or 270° based on A.I algorithm. (97% average accuracy)

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.

INNOVATIVE ENHANCED USABILITY

54 % Longer[2]

New

Powerful Battery Performance

As the procedure volume of mobile x-ray increases to deal with a large number of patient volume, Samsung is focusing more on 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 the new AccE GM85.

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†

New

Quiet Operation for Care

AccE GM85 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
† The noise level is less than 43 dB when the system is on stand-by.

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

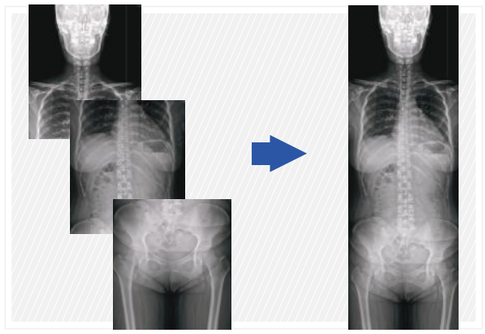
INNOVATIVE ENHANCED USABILITY

Prior Exam Review*

Prior Exam Review displays immediately previous images and exposure parameters of the patient being examined. It simplifies the conventional 3-step process with one click. With a quick comparison, users can improve image consistency and reduce retakes.

Manual Stitching

Manual Stitching feature helps clinical staffs view x-ray images that are larger than the detectors area by combining multiple images into one.

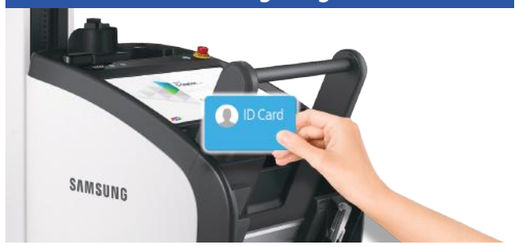


Images were taken with GR40CW.

Multi-touch Screen

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*[1]

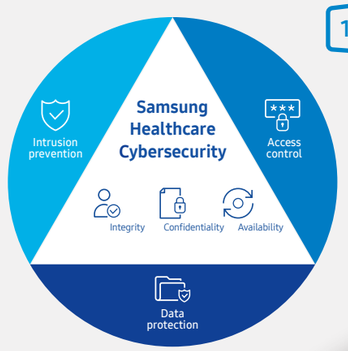
In the ER/OR or Trauma environments, multiple medical staff may often need to quickly acquire and check images in real-time. In such environments, Mirror View provides secured screen sharing using Wi-Fi CERTIFIED Miracast™. This function supports medical staff to check images together on a separate screen; it can reduce first aid response time and the risk of contamination.

1) When using Mirror View, the image transmitted via Miracast™ is not available for the purpose of diagnosis.

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



Windows 10 operating system

UL CAP Certified 2019
for software cybersecurity of network connectable products

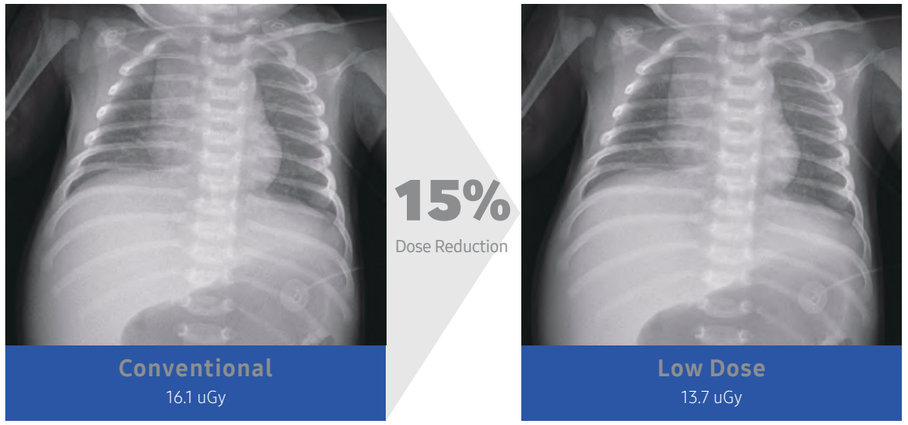
DIAGNOSTIC CONFIDENCE

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% dose reduction for pediatric abdomen, 15.5% 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.



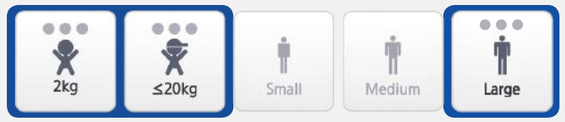
(54 kVp / 1.42 mAs / 0.06 dGy*cm² / 0.1 mmCu Filter)

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

Cover from Pediatric to Obese

AccE GM85 supports **6-stage Pediatric Exposure Management** according to weight and **3-stage Bariatric Exposure Management*** (Large/X-Large/2X-Large) to avoid unnecessary x-ray exposure using precise dose, resulting in excellent image quality.

Patient Size



* Optional feature requirin additional purchase

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.

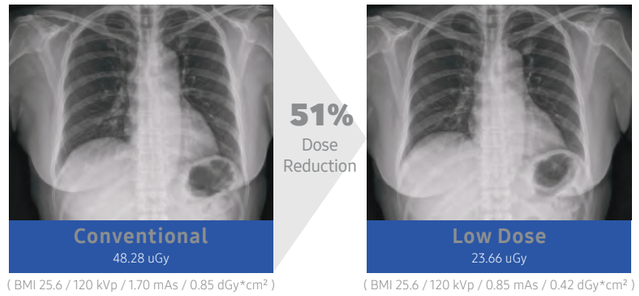
Our Pledge for Low Dose

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 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 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)

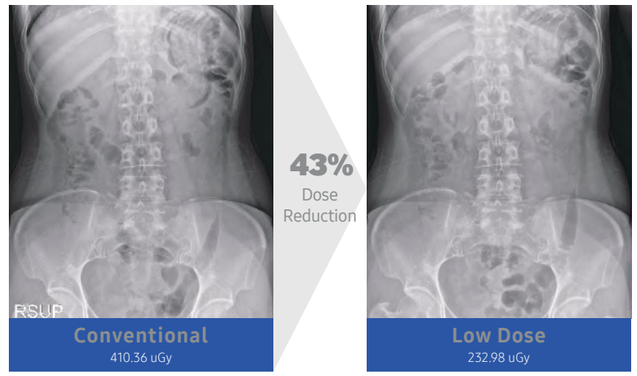
(BMI 25.6 / 120 kVp / 0.85 mAs / 0.42 dGy*cm²)

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*cmcm² / 0.1 mmCu 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 under1 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.

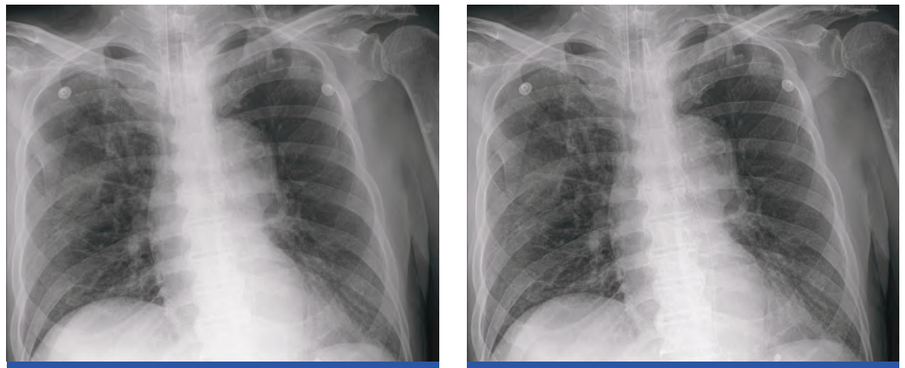
DIAGNOSTIC CONFIDENCE

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.



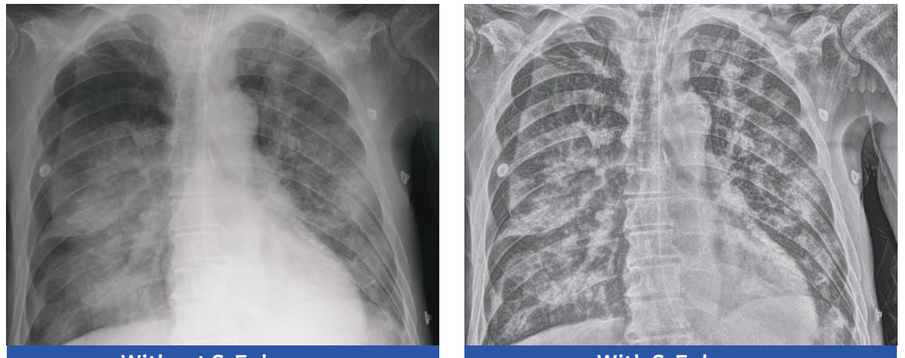
Without Grid | With SimGrid™

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.



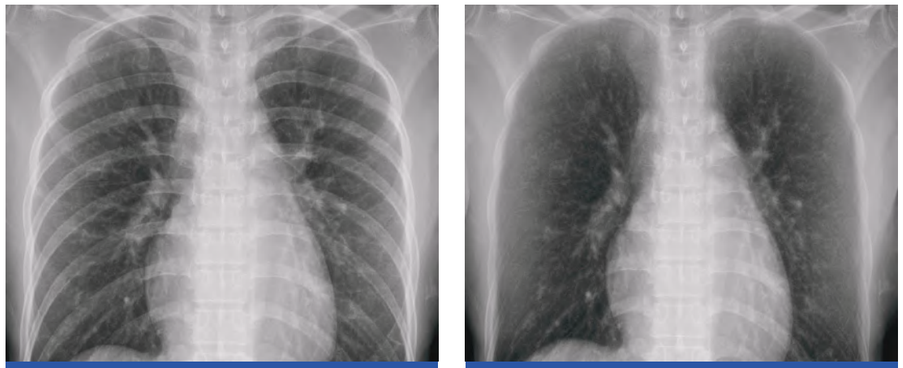
Without S-Enhance | With S-Enhance

Bone Suppression*

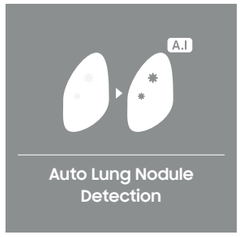
Without additional setting or exposure, Bone Suppression Imaging improves the clarity of soft tissues by suppressing the appearance of bones in chest images, which improves your ability to detect nodules. You can easily create the companion image with just a click on the screen.

Case. Chest PA

Images were taken with GC85A.



Without Bone Suppression | With Bone Suppression



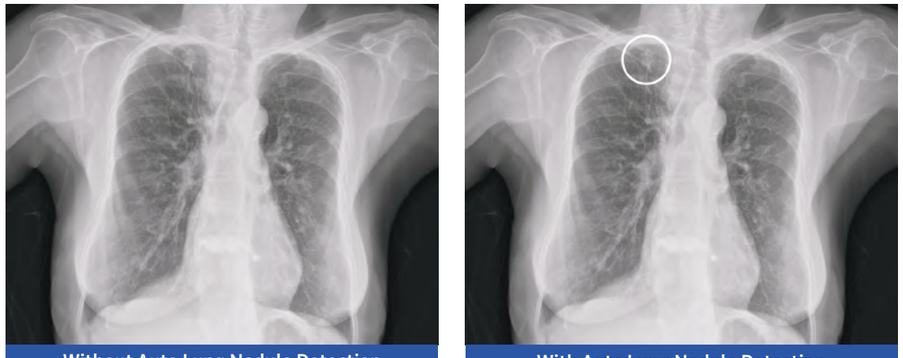
Auto Lung Nodule Detection*1

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

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AccE GM85 Catalog v3.0-221007-FDA

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