

SAMSUNG

GM85

The portable, compact and ultra-light **GM85** allows for easy use in narrow hallways and tight spaces. Its light weight design also provides ease of use in maneuvering both in and out of elevators and patient rooms. The collapsible column provides a clear view of hallways making for safe navigation. Superior image quality allows for advanced imaging and precise diagnoses while the innovative enhanced usability decreases user fatigue. This system provides low dose to the patient with specifically designed pediatric exposure management tools.



Accelerating Experience

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



Advanced Driving Experience

Compact & Light

The Ultra-compact, Ultra-light iQuia™ GM85 allows access to anywhere, even in narrow hallways or tight spaces. Its light weight also allows easy maneuvering both in and out of elevators without worrying about the weight limit.



Safe Navigation

Collapsible column enables safe navigation by securing a clear view. Light pressure on the handle is enough to control the speed of the device easily. The sensor on the front bumper automatically stops the device with a short braking distance.



Innovative Enhanced Usability

iQuia™ Detector

iQuia™ Detector is a new introduction to the Samsung DR prestige line-up to accelerate connection and promote synergy between the systems.

Enhanced load allowance* along with dust and water resistance allows the detector to be actively implemented in versatile environments. Its robust design will improve your workflow and alleviate daily burdens.

* Allowed load (Point load, 4cm radius on the center) : 200 kg



IP54 (IEC 60529)



Water resistance



Dust resistance

SIDE CHAMFER to ease your lifting



CENTER ENGRAVING to help position the patient



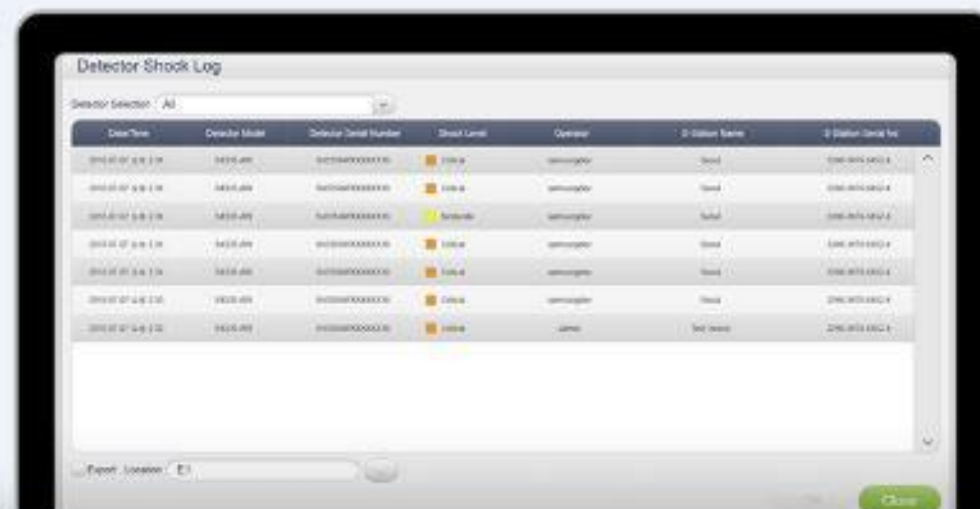
REAR GRIP to support transportation



Real-time Shock Sensing

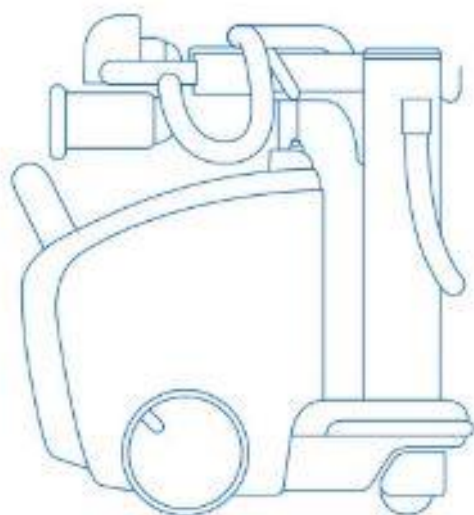
Continuous status tracking of the detector will help upgrade user confidence and guarantee uptime.

Real-time shock sensing will allow the detector to be in shape for use at anytime, anywhere.



Time-saver Battery

iQuia™ GM85 allows fast charging and efficient battery management. It powers up to 100 % within 4 hours and once fully charged, the long-lasting battery gives you the power to keep going for all day without additional charging.



~4 h

Fast charging time



All Day

All day operation without additional charging



* Fully charged battery supports 220 shots and 20 km (12.4 mile) of moving distance.

* Test Condition : 80 kVp/400 mA/5 msec/30 sec intervals, moving in maximum velocity (5.6 km/h)

* Charging time will vary according to the capacity of the wall outlet, which will be different for each country.

8 STEP

1. Detector ready
2. Portable Grid Install
3. Patient positioning
4. Tube - Grid alignment
5. Exposure
6. Detector removal
7. Portable Grid removal
8. Insert grid detector inside storage



5 STEP

1. Detector ready
2. Patient positioning
3. Exposure
4. Detector removal
5. Insert grid detector inside storage



SimGrid™ *

Software 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.

* Option

SID Guide*

SID (Source to Image Distance) Guide supports multiple SID settings to aid precise device positioning. Also, the quick positioning function offers handle-free, accurate maneuvering of the device by allowing Quick Positioning from the THU (Tube Head Unit).

* 3 SID Types : 100/130/180 cm





S-Align™

S-Align™ provides precise alignment for superior imaging. The angle of the detector is displayed on the THU (Tube Head Unit) to enhance image quality during free exams.

Remote View*

Remote View function allows remote access to view the current image on the workstation through a web browser. You can easily access the configured DICOM image using web-based program with the IP address designated for the system. This feature is especially useful in OR(Operation Room) or ER(Emergency Room).

* Option, this image was taken by GC85A.



Multi-touch

The multi-touch function allows users to control and adjust images easily and intuitively with fingers only. Pinch gesture enables the user to zoom in and out while the two-touch shutter makes image cropping easy.





Detector charging and storage

Large storage spaces carry detectors and personal items for convenience. Radiographers can charge detector and detector battery while traveling.

Detector locking function secures detectors to prevent loss.



Auto filter

GM85 offers automatic filter configuration by selecting designated protocols which feature 3 different filters (0.1 / 0.2 / 0.3mm). All filters are configured and applied automatically according to the selected protocol.

Patient Size



6-stage weight dependent imaging

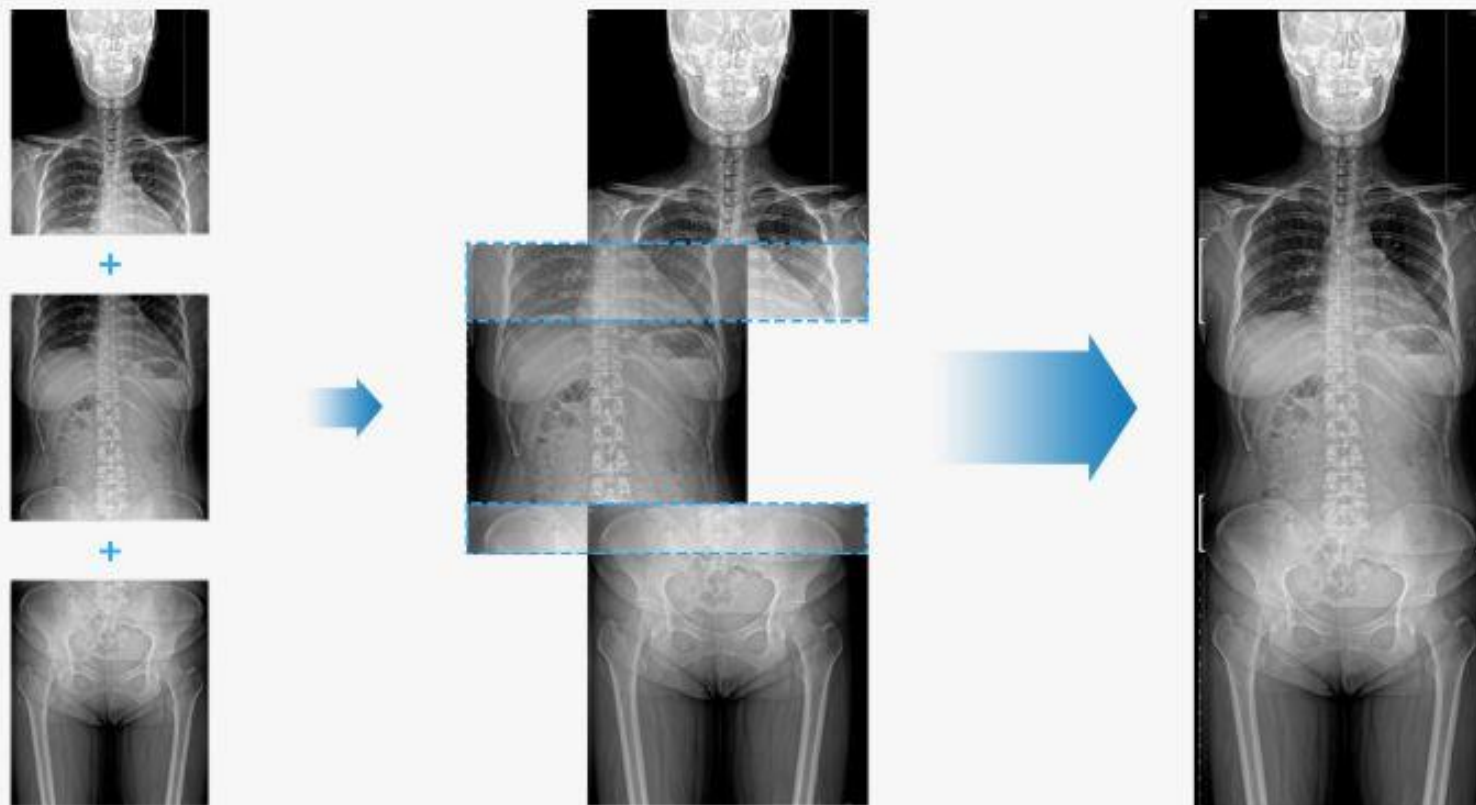


Pediatric exposure management

Optimized 6-stage weight dependent imaging enables pediatric patients to avoid unnecessary x-ray exposure with precise dose management. Devices can also be fitted with a child friendly cover design.

Manual Stitching*

Manual Stitching can capture a body part that is larger than detector's area. After taking multiple images**, Align-Assist function makes the alignment process easy, which helps merging them into one image.
The surgeon can check the whole spine image right after spine surgery with Manual Stitching.



* Option

** Two to five images are available

*** These images were taken with GR40CW.



Small Footprint

The small footprint of GM85 improves user convenience when moving through narrow hallways and being positioned in tight patient rooms. Its light weight enables easy navigation and allows users to get on elevators with the device safely and comfortably.

Diagnostic Confidence

Low Dose in New S-Vue™

S-Vue™ not only provides better 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.

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.*

Case1. Pediatric Chest PA

Conventional



16.1 μ Gy

Low Dose



13.7 μ Gy



* 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 - K17229, K18218). In practice, the values of dose reduction may vary accordingly. These clinical images calculate 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 image was taken with GMES. | Case 2,3 images were taken with GC85A.



Chest AP
without S-Enhance



Chest AP
with S-Enhance

* These 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.

+ Option



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.

+ Option



Chest AP
without Grid



Chest AP
with SimGrid™

* These images were taken with GM85.





Chest PA
without Bone Suppression



Chest PA
with Bone Suppression



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.

+ Option



Auto Lung Nodule Detection* **

Our first computer-aided detection solution helps boosting healthcare professionals to focus on their clinical needs. Multiple deep learning algorithms crafted for Auto Lung Nodule Detection help predict lung nodule in general chest radiography as a second reader.

+ Option

** This feature is not commercially available in any country (No FDA/MFDS clearance).



Chest PA without
Auto Lung Nodule Detection



Chest PA with
Auto Lung Nodule Detection

Secure Your Care

Samsung Healthcare Cybersecurity

Intrusion Prevention



Tools for protecting against cyber threats from external attacks

Access Control



Strengthened surveillance for tracking the access of patient information

Data Protection



Encryption functions for safeguarding data whether at-rest or in-transit