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, digital appliances, medical equipment, network systems, and semiconductor and LED solutions. For the latest news, please visit the Samsung Newsroom at news.samsung.com.

For more information

For more information about GR40CW Series, visit
www.samsunghealthcare.com

GR40CWC 1.0-181204-EN

	S4335-W	S4335-AW	S4335-AWV
Detector type	CsI (Direct deposition), Amorphous Silicon TFT	CsI (Direct deposition), Amorphous Silicon TFT	Gadox, Amorphous Silicon TFT
Effective area	43 cm x 35 cm	43 cm x 35 cm	43 cm x 35 cm
Weight	Typ. 3.10 kg	Typ. 3.00 kg	Typ. 2.80 kg
Battery recharging time	3 hours (Battery charger)		
	6 hours (Tethered)		
Battery life	160 images during 4 hours (at 90sec/cycle)	500 images during 4 hours	
Dust/Water-resistance	IPX1	IP54	

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Fundamentally Digital

Digital Radiography
GR40CWC

Scan code or visit
www.samsunghealthcare.com
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| EXPERIENCE
A New Healthcare
Solution

SAMSUNG

Easier approach to DR with simple installation

GR40CWC converts your analog/CR system into an advanced DR system. Because GR40CWC is the same size as film/CR cassettes, you can upgrade your old equipment to DR system. It also recognizes exposure timing automatically without a cable connection between the X-ray generator and detector, thus permitting easy and simple installation.
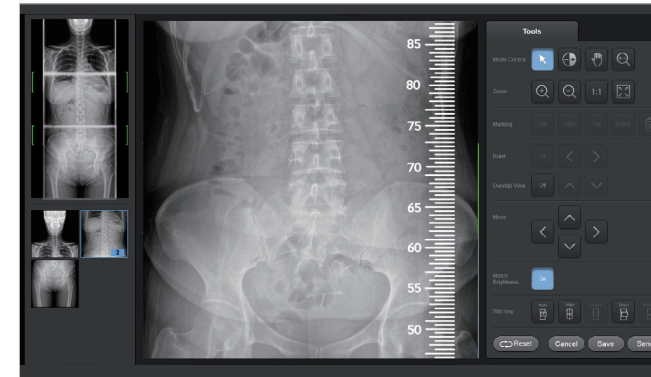
Experience enhanced workflow and throughput

3-step workflow

GR40CWC allows users to simplify their daily routines. With GR40CWC, workflow is three times faster than with CR system. By reducing workflow steps, it reduces cost and time while increases productivity.

| CR system | Load CR | Position Patient | Take Exposure | Transport | Process CR | Check Quality |

| DR system | Position Patient | Take Exposure | Check Quality |

Cost & time saving

Convenient diagnostic use

Manual Stitching* can capture a body part that is larger than the detector's area. This makes viewing a larger area of the body more convenient by capturing multiple images.

Intuitive User Interface

A workstation with intuitive icons and buttons facilitates virtually effortless operation.

Fast Preview

Preview and acquisition take less than 2 seconds, and full acquisition less than 7 seconds.[1)2)] It is easy to shoot multiple images after checking the preview image.

1) Image acquisition time may vary according to the image processing parameters and detectors.
2) Fast preview time using S-Detector™ 2.0

Remote View*

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

* Optional

Advanced imaging for high image quality

Depend on S-Vue™ for diagnostic assurance with crystal-clear imaging

S-Vue™ provides excellent, high resolution images for the ultimate in diagnostic accuracy and confidence.
The S-Vue™ imaging engine's adaptive filtering and processing technologies offer outstanding sharpness and readability.

Improved image definition and visibility
Innovative image processing technology clearly displays areas with varying bone density, including thick and thin parts with overlapping areas and contours.

Reliable clarity for high accuracy
S-Vue™ delivers image integrity for increased diagnostic precision. Regions of interest (ROIs) with implants and bone overlaps display sharply.

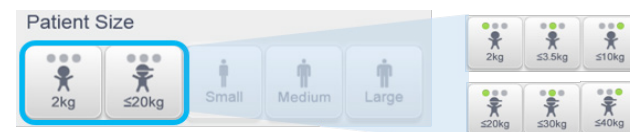### Great depth and wide dynamic image range
Clarified ROI contrast delivers a clear view of bones and tissues with enhanced detail. Areas with varying characteristics, such as spinal, lung and inguinal regions are distinctly displayed on a single image.

Dose reports for more efficient management

GR40CWC can send a variety of patient dose information, such as Source to Image Distance (SID), Auto Exposure Control (AEC) and X-ray dose information measured by the Dose Area Product (DAP), to the Picture Archiving and Communication System (PACS) to support effective dose management. The dose report can be used for cumulative patient dose tracking.
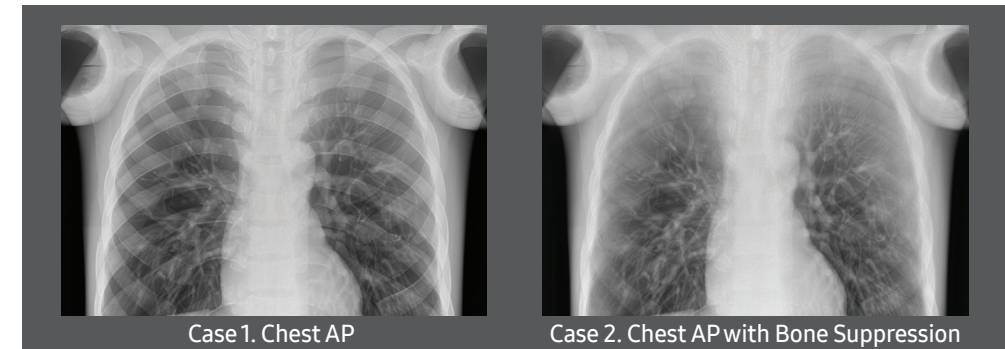
Pediatric Exposure Management

Optimized 6-stage weight dependent imaging enables pediatric patients to avoid unnecessary X-ray exposure using precise dose management, resulting in superior image quality.

Bone Suppression*

Without additional setting or exposure, Bone Suppression improves the clarity of soft tissues by suppressing the appearance of bones in chest images, helping you detect nodules with more confidence. You can easily create the companion image with just a click on the screen.
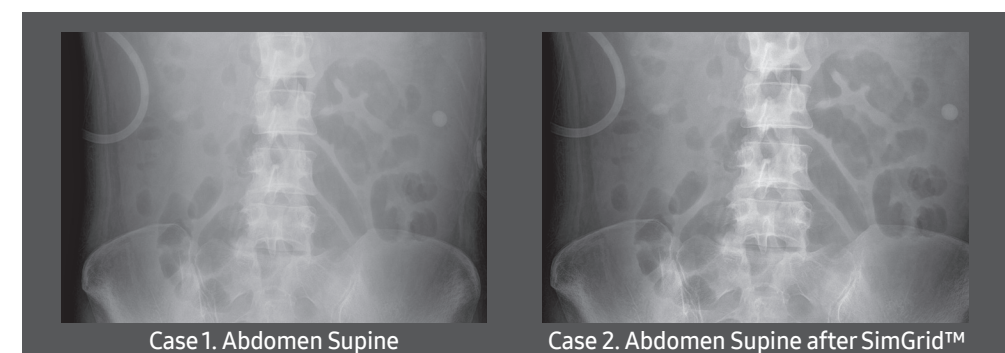
Case 1. Chest AP   Case 2. Chest AP with Bone Suppression

· Image taken with GM85

SimGrid™*

SimGrid™ makes the grid install and removal process from the detector unnecessary, resulting in reduced wrist overload for users. This application produces high image quality compared to images captured on systems without the use of a conventional grid through a reduction of scatter radiation effects, generating improved image contrast.
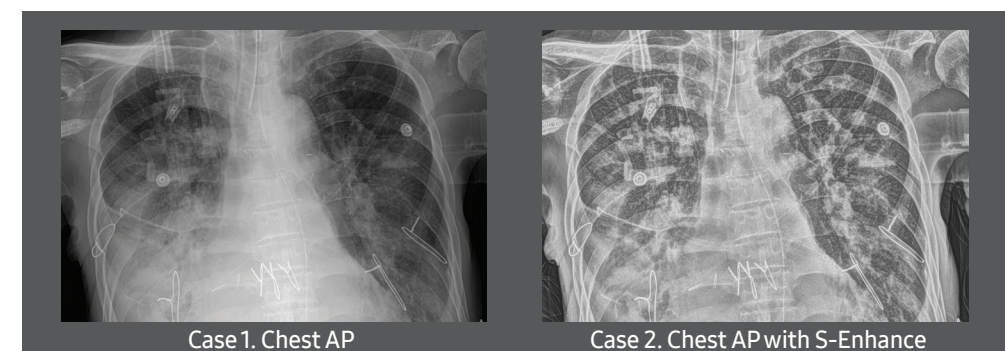
In addition, radiographers can provide better patient care with SimGrid™ as it eliminates alignment errors that often occur with portable grids. This reduces retake rate and patients leave satisfied with their care.

Case 1. Abdomen Supine   Case 2. Abdomen Supine after SimGrid™

· Image taken with GM85

S-Enhance*

S-Enhance improves clarity of foreign body (e.g. tube, line and needle) in chest, abdomen and l-spine images to support your diagnoses. With a single on-screen click, the companion image is created without additional settings or x-ray exposure, streamlining the workflow.

Case 1. Chest AP   Case 2. Chest AP with S-Enhance

· Image taken with GM85

* Optional

Upgrade your confidence

S-Detector™ : S4335-W, S4335-AW, S4335-AWV

S-Detector™ 1.0

S-Detector™ 2.0

S4335-W

S4335-AW / S4335-AWV

Improved diagnostic capability with S-Detector™

S-Detector™ displays the patient's anatomical structure clearly and the efficiency of radiation and spatial resolution are improved compared to previous indirect type detectors, reducing radiation needed to ensure high image quality.

Improved usability for streamlined workflow

The S-Detector™ 2.0 is optimized to support you in regular use. The detectors can withstand unexpected contact with liquids including blood and body fluids and also other substances such as dust and powdered medication[1]. In addition, user-centered designs such as the improved grip design and chamfered edges also helps users to easily handle the equipment during exams.

Enhanced durability for worry-free operation

The robust design of the S-Detector™ 2.0 ensure reliability even in the toughest environments. The improved bend and load capacity[2] allows it to be positioned comfortably under patient beds and wheelchairs without hindering the performance of the detector. In addition, the detectors are also made to endure accidental drops which may occur during everyday use.

1) S-Detector™ 2.0 features International Protection Marking code (IP54)-level protection.
2) Local load capacity (200kg) and Area load capacity (400kg) are only for S4335-AW(V)

Constant support for improved efficiency

Maintenance solution: 24/7, 365 days a year

▶ **RMS (Remote Maintenance System)**
This system enables continuous monitoring of system errors, auto-diagnosis of the system and software version.

▶ **24/7 call center**
The customer support center operates 24/7, 365 days a year to quickly respond to clients' problems.

▶ **Upgrade service**
Samsung helps clients use the latest products through optional detector upgrades, along with hardware and software upgrades that are either free or provided through a cost-of-service charge, depending on the agreement terms and conditions.

▶ **Service offering**
Samsung offers clients the flexibility to choose service support by allowing them to select the coverage to meet their unique requirements.

RMS

Call center

Samsung Value Care Service

Equipment service

Upgrade service

· Maintenance service availability may vary by country.
· Service countries are Germany, France, Italy, China, Thailand, Turkey, USA and Brazil.