

FUNDAMENTALLY DIGITAL

GR40CW



GR40CW

AccE Detector

Wireless Portable Detector	
Detector model	S4335-AW
Detector type	Amorphous Silicon TFT / Cesium Iodide scintillator (CsI)
Dimensions	460 x 384 x 15 mm
Active detector matrix (Effective Pixel matrix)	3,040 × 2,466 pixels
Effective area	425.6 mm × 345.24 mm
Pixel pitch	140 μm
A/D conversion (Pixel depth)	16 bits
Spatial resolution	3.57 lp/mm
Detective Quantum Efficiency (DQE)	76% (0.0 lp/mm, Typical)
Modulation Transfer Function (MTF)	86% (0.5 lp/mm, Typical)
Installation	Wireless / Tethered
Image Acquisition	Tethered / Wireless (802.11 a/b/g/n & ac) @2.4/5 GHz
AED	Available, v3.0
Weight	Approx. 3 kg
Max.load capacity	400 kg for uniform load, 200 kg for local load (40 mm in diameter disk at the center)
Max.bend capacity	> 200 kg @ 3-point bending condition
Dust/Water-resistance	IP54
Self diagnosis	Automatic detection & alarming of line artifact
Detector shock logging*	Real-time detection, logging and alarming of shock level
Battery charging time	Typ. 6 hrs. (tethered), Typ. 3 hrs. (battery charger)
Battery Operation Time	500 images for 4 hrs. Waiting for more than 10 hrs under deep sleep mode

* This feature is only for S4335-AW, S4343-AW detector

Wireless Portable Detector	
Detector model	S4343-AW
Detector type	Amorphous Silicon TFT / Cesium Iodide scintillator (CsI)
Dimensions	460 x 460 x 15 mm
Active detector matrix (Effective Pixel matrix)	3,040 × 3,036 pixels
Effective area	425.60 mm × 425.04 mm
Pixel pitch	140 μm
A/D conversion (Pixel depth)	16 bits
Spatial resolution	3.57 lp/mm
Detective Quantum Efficiency (DQE)	76% (0.0 lp/mm, Typical)
Modulation Transfer Function (MTF)	86% (0.5 lp/mm, Typical)
Installation	Wireless / Tethered
Image Acquisition	Tethered / Wireless (802.11 a/b/g/n & ac) @2.4/5 GHz
AED	Available, v3.0
Weight	Approx. 3.6 kg
Max.load capacity	400 kg for uniform load, 200 kg for local load (40 mm in diameter disk at the center)
Max.bend capacity	> 200 kg @ 3-point bending condition
Dust/Water-resistance	IP54
Self diagnosis	Automatic detection & alarming of line artifact
Detector shock logging*	Real-time detection, logging and alarming of shock level
Battery charging time	Typ. 6 hrs. (tethered), Typ. 3 hrs. (battery charger)
Battery Operation Time	500 images for 4 hrs. Waiting for more than 10 hrs under deep sleep mode

* This feature is only for S4335-AW, S4343-AW detector

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AccE Standard Detector

Wireless Portable Detector	
Detector model	S4335-AWM
Detector type	Amorphous Silicon TFT / Cesium Iodide scintillator (CsI)
Dimensions	460 x 384 x 15 mm
Active detector matrix (Effective Pixel matrix)	3,040 × 2,466 pixels
Effective area	425.6 mm × 345.24 mm
Pixel pitch	140 μm
A/D conversion (Pixel depth)	16 bits
Spatial resolution	3.57 lp/mm
Detective Quantum Efficiency (DQE)	65% (0.0 lp/mm, Typical)
Modulation Transfer Function (MTF)	88% (0.5 lp/mm, Typical)
Installation	Wireless / Tethered
Image Acquisition	Tethered / Wireless (802.11 a/b/g/n & ac) @2.4/5 GHz
AED	Available, v3.0
Weight	Approx. 3.2 kg
Max.load capacity	400 kg for uniform load, 200 kg for local load (40 mm in diameter disk at the center)
Max.bend capacity	> 200 kg @ 3-point bending condition
Dust/Water-resistance	IP54
Self diagnosis	Automatic detection & alarming of line artifact
Battery charging time	Typ. 6 hrs. (tethered), Typ. 3 hrs. (battery charger)
Battery Operation Time	500 images for 4 hrs. Waiting for more than 10 hrs under deep sleep mode

Wireless Portable Detector	
Detector model	S4343-AWM
Detector type	Amorphous Silicon TFT / Cesium Iodide scintillator (CsI)
Dimensions	460 x 460 x 15 mm
Active detector matrix (Effective Pixel matrix)	3,040 × 3,036 pixels
Effective area	425.60 mm × 425.04 mm
Pixel pitch	140 μm
A/D conversion (Pixel depth)	16 bits
Spatial resolution	3.57 lp/mm
Detective Quantum Efficiency (DQE)	65% (0.0 lp/mm, Typical)
Modulation Transfer Function (MTF)	88% (0.5 lp/mm, Typical)
Installation	Wireless / Tethered
Image Acquisition	Tethered / Wireless (802.11 a/b/g/n & ac) @2.4/5 GHz
AED	Available, v3.0
Weight	Approx. 3.6 kg
Max.load capacity	400 kg for uniform load, 200 kg for local load (40 mm in diameter disk at the center)
Max.bend capacity	> 200 kg @ 3-point bending condition
Dust/Water-resistance	IP54
Self diagnosis	Automatic detection & alarming of line artifact
Battery charging time	Typ. 6 hrs. (tethered), Typ. 3 hrs. (battery charger)
Battery Operation Time	500 images for 4 hrs. Waiting for more than 10 hrs under deep sleep mode

GR40CW

Gadox Detector

Wireless Portable Detector	
Detector model	S4335-AWV
Detector type	Amorphous Silicon TFT / Gadolinium oxysulfide scintillator (Gadox)
Dimensions	460 x 384 x 15 mm
Active detector matrix (Effective Pixel matrix)	3,040 × 2,466 pixels
Effective area	425.6 mm × 345.24 mm
Pixel pitch	140 μm
A/D conversion (Pixel depth)	16 bits
Spatial resolution	3.57 lp/mm
Detective Quantum Efficiency (DQE)	40% (0.0 lp/mm, Typical)
Modulation Transfer Function (MTF)	78% (0.5 lp/mm, Typical)
Installation	Wireless / Tethered
Image Acquisition	Tethered / Wireless (802.11 a/b/g/n & ac) @2.4/5 GHz
AED	Available, v3.0
Weight	Approx. 2.9 kg
Max.load capacity	400 kg for uniform load, 200 kg for local load (40 mm in diameter disk at the center)
Max.bend capacity	> 200 kg @ 3-point bending condition
Dust/Water-resistance	IP54
Self diagnosis	Automatic detection & alarming of line artifact
Shock logging	Real-time detection, logging and alarming of shock level
Battery charging time	Typ. 6 hrs. (tethered), Typ. 3 hrs. (battery charger)
Battery Operation Time	500 images for 4 hrs. Waiting for more than 10 hrs under deep sleep mode

S/W Optional Items

	Description
SimGrid™	Enhancing the visibility of image without physical grid by compensating the decrease in contrast caused by scatter radiation
Bone Suppression	Improving the clarity of soft tissues by suppressing the appearance of bones in chest images
S-Enhance	Enhancing visibility of foreign body in chest, abdomen and l-spine images
Remote View	Transferring configured image through a web browser using the IP address
Manual Stitching	Allow manual stitching of multiple images
S-Share™*	Sharing detectors between GR40CW and Samsung DR system
Value-up Package	Image Auto Rotation / Additional Patient Information / Bariatric Exposure Management / Easy Protocol Management / Smart Crop Management
Mirror View	Provide secured screen sharing of S-Station to the display device using Wi-Fi CERTIFIED Miracast™

* There are restrictions on sharing between detectors, please refer to separate guide.

GR40CW

Power Supply Box

Dimension	208 mm x 155 mm x 65 mm (W x D x H)
Weight	Typ. 1.2 kg

Battery Recharger

Detector model	S4335-AW/AWM/AWV, S4343-AW/AWM
Dimension	286 mm x 148 mm x 16 mm (W x D x H)
Weight	Typ. 0.3 kg

Imaging Workstation - S-Station

Hardware	
- CPU	Intel Core i3
- RAM	8 GB
- Storage	SSD 1 TB - Image storage capacity S4343-AW/AWM : ~ 12,000 images S4335-AW/AWM/AWV : ~ 14,000 images - Hard drive encryption
- Operating system	Microsoft Windows 7 or later
- Monitor*	FHD 23.6" LCD Monitor (1920 × 1080)
* Optional	
Software	
- Image acquisition times* (X-ray exposure to image)	S4343-AW/AWM(Tethered) : Preview < 2 sec, Final < 5 sec S4343-AW/AWM(Wireless) : Preview < 2 sec, Final < 6 sec S4335-AW/AWM/AWV(Tethered) : Preview < 2 sec, Final < 4 sec S4335-AW/AWM/AWV(Wireless) : Preview < 2 sec, Final < 5 sec
* It depends on the image processing parameters and wireless condition	
- Post processing	S-Vue™ - Protocol(Body part) adaptive multi scale image processing - Advanced noise reduction processing - Excess contrast reduction processing for minimizing metal artifact
- Display functions	Window level control, Zoom / Magnifier. Flip / Rotate, Invert, Shutter (Fixed / Auto / Manual) Annotations (Marker / Free text / Arrow / Line / Length /Angle / Cobbs angle / Rectangle / Ellipse) Layout (1×1, 1×2, 2×1, 2×2)
- Auto cropping	Auto shutter
- Multi-language (Workstation Only)	English, French, German, Italian, Spanish, Russian, Simplified Chinese, Portuguese, Turkish, Finnish, Polish
*Optional (Select 1 of 3 kinds of monitors)	

GR40CW

CIB

Dimension	98 mm x 57 mm x 28 mm (W x D x H)
Weight	Approx. 0.14 kg

Network Specifications

DICOM functions	
- DICOM Verification	
- DICOM Modality worklist	Interface with HIS / RIS with auto refresh option
- DICOM MPPS	Send the status of exams to HIS / RIS
- DICOM Storage	Send Image (DX or CR IOD) and GSPS to PACS
- DICOM Storage commitment	
- DICOM Grayscale print	Support DICOM printers
- DICOM Query / Retrieve	Query and retrieve DX and CR images from PACS
- DICOM GSPS	Send overlay information along with the image
- DICOM Media exchange (DICOM DIR)	Patient images export to DVD/CD

Remote Maintenance System (RMS)

The remote management system analyses performance and emerging technical issues.

Real-time use information	Automatic error transfer to Samsung
Remote access	Software remote diagnosis Hardware remote diagnosis

※ GR40CW is not compatible with "Fluoroscopy" or products using "Moving grid"

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For more information

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

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