

GM85 Fit



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Mechanic

Column Type	Collapsible
Column Height	Min. 55.0 inch / Max 84.7 inch
SIZE (W x L x H)	21.9 x 49.5 x 55.0 inch
Weight	7474 lb
Tube Reach	31.2 ~ 53.3 inch (Center of column to Focal spot)
Focal Spot Range	21.7 ~ 79.9 inch
Column Rotation	±315°
Tube Rotation (arm axis)	±180°
Tube Rotation (tube axis)	+90° ~ -30°

HVG

	Type A	Type B
Power (kW)	32	40
kVp	40 ~ 125 (1 kV step)	40 ~ 150 (1 kV step)
mA	10 ~ 320	10 ~ 500
mAs	0.1 ~ 320	0.1 ~ 500
Exposure Time Range	From 1 ms to 10 seconds	From 1 ms to 10 seconds
Exposure Parameter Setting @Max. Power Rating	49 kV 320 mA 80 kV 320 mA 100 kV 320 mA 125 kV 250 mA	49 kV 400 mA 80 kV 500 mA 100 kV 400 mA 125 kV 320 mA 150 kV 250 mA
Switching Frequency	50 kHz	50 kHz

Type A is a default and Type B is an option.
Type B of HVG and Type A of Tube combinations are not supported configurations.

Tube

	Type A	Type B
Heat Capacity (kHU)	200	300
Anode Angle	14°	14°
Focal Spot (mm)	0.6 / 1.5	0.6 / 1.2
Anode Speed	Min. 3,200/min (60 Hz)	Min. 3,200/min (60 Hz)
X-ray Heat Storage Capacity of Tube	1,056 kHU (750 kJ)	1,056 kHU (750 kJ)

Type A is a default and Type B is an option.
Type B of HVG and Type A of Tube combinations are not supported configurations.

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Collimator

Type	2-Axis manual blade
Light	LED
Additional Filter	0.1, 0.2, 0.3 mmCu (Manual)
Illuminance	> 160 lux
Inherent Filtration	1.0 mmAl @75 kVp
Rotation Angle	-90 ~ 180° (Total 270°)
ETC	Measuring Tape DAP Integration*

* Optional

Driving

Speed	Max. 5.6 km/h
Soft Driving*	Provided
Slope	Max. 7 deg
Bumper sensor	Provided
Emergency Brake Release	Provided

* The adaptive driving control with sensing the force of user

Battery

Type	Li-ion Battery
Input Outlet	Free Voltage (100-240 VAC, 50/60 Hz)
Charge Time*	Approx. 4 hours - 200-240 VAC < 3 hours - 100-127 VAC < 4 hours

* Depends on capacity of outlet

Display

Size	21.5"
Resolution	1,920 x 1,080 (FHD)
Touch	Provided

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Workstation

Hardware	
CPU	Intel Core i3
RAM	8 G or more
Storage	SSD 500 GB - Image storage capacity S4343-AWM : ~ 5,000 images S4335-AWM : ~ 7,000 images S3025-AWM : ~ 13,000 images - Hard drive encryption
OS	Microsoft Windows 7 or later
Software	
Image acquisition times* (X-ray exposure to image)	S4343-AWM(Wireless) : Preview < 2 sec, Final < 6 sec S4335-AWM(Wireless) : Preview < 2 sec, Final < 5 sec S3025-AWM(Wireless) : Preview < 3.5 sec, Final < 6 sec
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
Auto APR (Anatomical Programmed Radiography) matching	X-ray conditions, Image processing parameters, Marker etc
Multi-language	English, French, German, Italian, Spanish, Russian, Simplified Chinese, Portuguese, Turkish, Finnish, Swedish, Czech, Polish
Dose Report	List patient dose information Send dose information to a PACS Export to DVD/USB through JPG/DICOM format

* It depends on the image processing parameters and wireless condition.

Features

	Description
Quick Driving	Possible to moving the system before booting up
Night mode	Quick control for sound and display according to the environment
Pediatric Exposure Management	Providing subdivided exposure conditions of child and baby
Quick Link	Easy access to existing RIS/HIS/PACS system in the S-Station
Plug-in exposure	Battery system that allows irradiation while being charged

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H/W Optional Items

	Description
Wireless Hand Switch	Infrared type
Bar Code Scanner	Minimum resolution : typical 3 mil
H-DAP	Quality Equivalent Filtration : 0.2 mmAL @70 kVp
DVD-RW	External USB type
Portable Grid for 4335*	SID : 130 cm, 6:1, 85 lp/cm
Portable Grid for 4343*	SID : 130 cm, 6:1, 85 lp/cm
LAN Cable (3M)	For Transferring image to PACS
Pediatric Cover Design	Refer to the design in the brochure
RFID Reader	RFID badge scan for login (Support 125 kHz, 13.56 MHz) (Recommend card type : HID Prox / iCLASS ID)
In-bin charging for 4335/4343	Charging the detector in the bin
In-bin charging for 3025	Integrated cable for charging in the bin
AC/DC Adaptor	Charging Adaptor for S3025-AW/AWM

* Portable Grid for S4335-AWM, S4343-AWM requires additional service parts for combining together.

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
Auto Lung Nodule Detection	ALND helps users find lung nodules on x-ray Chest PA images.
S-Enhance	Enhancing visibility of foreign body in chest, abdomen and l-spine images
Manual Stitching	Allow manual stitching of multiple images
QAP Package	Quality Assurance Program and AI Filter/Phantom
S-Share™1	Sharing detectors between GM85 Fit and Samsung DR system
WBS Activation	Support verified wireless barcode scanner - Refer to the verified scanner list - Interface(Host/Wireless Scanner) : USB Serial/Bluetooth(2.4GHz-2.5GHz, ISM)
Value-up Package	Image Auto Rotation² / Additional Patient Information / Prior Exam Review / Detector Connection Alarm / Bariatric Exposure Management / Easy Protocol Management / Smart Crop Management / Trauma Exam
Mirror View	Provide secured screen sharing of S-Station to the display device using Wi-Fi CERTIFIED Miracast™

1) There are restrictions on sharing between detectors, please refer to separate guide.
2) Image Auto Rotation supports Chest/Abdomen/Pelvis/Infantogram/Extremity protocols.

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AccE Standard Detector

Wireless Portable Detector	
Detector model	S4335-AWM
Detector type	Amorphous Silicon TFT / Cesium Iodide scintillator (CsI)
Dimensions	18.1 x 15.1 x 0.6 inch
Active detector matrix (Effective Pixel matrix)	3,040 × 2,466 pixels
Effective area	16.8 × 13.6 inch
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. 6.5 lb (w/o Battery Set*), Approx. 7.1 lb (w/ Battery Set*)
Max.load capacity	881.8 lb for uniform load, 440.9 lb for local load (40 mm in diameter disk at the center)
Max.bend capacity	> 440.9 lb @ 3-point bending condition
Dust/Water-resistance	IP54
Self diagnosis	Automatic detection & correction of line artifact
Detector shock logging	Real-time detection, logging and pop-up alarming
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

* The Battery Set includes the battery and the battery cover.

Wireless Portable Detector	
Detector model	S4343-AWM
Detector type	Amorphous Silicon TFT / Cesium Iodide scintillator (CsI)
Dimensions	18.1 x 18.1 x 0.6 inch
Active detector matrix (Effective Pixel matrix)	3,040 × 3,036 pixels
Effective area	16.8 × 16.7 inch
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. 7.4 lb (w/o Battery Set*), Approx. 7.9 lb (w/ Battery Set*)
Max.load capacity	881.8 lb for uniform load, 440.9 lb for local load (40 mm in diameter disk at the center)
Max.bend capacity	> 440.9 lb @ 3-point bending condition
Dust/Water-resistance	IP54
Self diagnosis	Automatic detection & correction of line artifact
Detector shock logging	Real-time detection, logging and pop-up alarming
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

* The Battery Set includes the battery and the battery cover.

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AccE Standard Detector

Wireless Portable Detector	
Detector model	S3025-AWM
Detector type	Amorphous Silicon TFT / Cesium Iodide scintillator (CsI)
Dimensions	13.8 x 11.3 x 0.6 inch
Active detector matrix	2536 x 2024 pixels
Effective area	12.4 × 9.9 inch
Pixel pitch	124 μm
A/D conversion (Pixel depth)	16 bits
Spatial resolution	4.0 lp/mm
Detective Quantum Efficiency (DQE)	60% (0.0 lp/mm, Typical)
Modulation Transfer Function (MTF)	90% (0.5 lp/mm, Typical)
Installation	Wireless only
Image Acquisition	Wireless (802.11 n/ac) @2.4/5 GHz
AED	N/A
Weight	4.3 lb (Typical)
Max.load capacity	881.8 lb for uniform load, 4409. lb for local load (40 mm in diameter disk at the center)
Dust/Water-resistance	IP67
Self diagnosis	Automatic detection & correction of line artifact
Detector shock logging	Real-time detection, logging and pop-up alarming
Battery charging time	2 hrs. (AC-DC adaptor)
Battery Operation Time	270 images for 7.5 hrs

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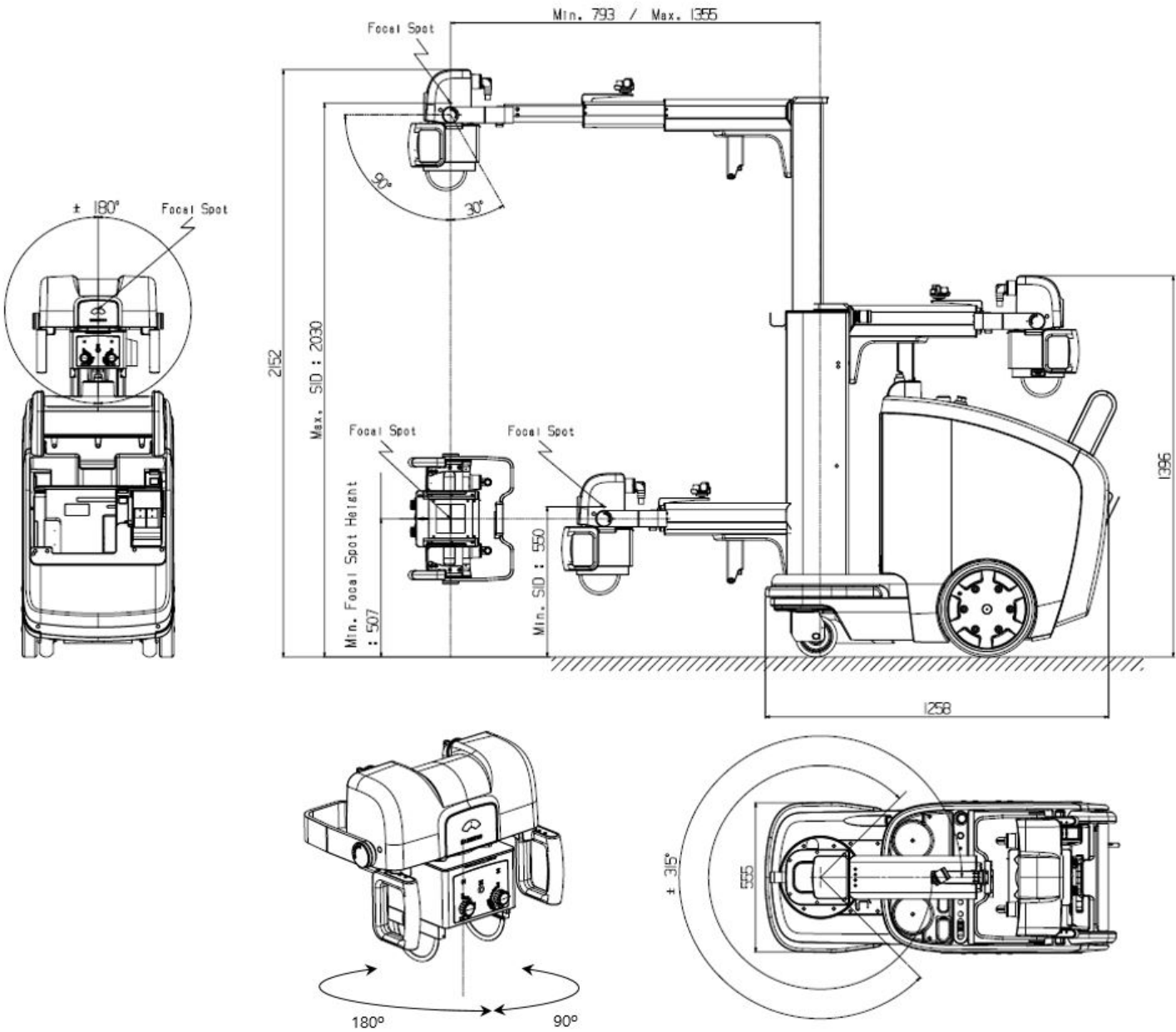
Mechanical Specifications Collapsible column type

Length	Width	Height	Weight
49.5 inch	21.9 inch	Minimum 55.0 inch Maximum 84.7 inch	747.4 lb

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We employ 307,000 people across 84 countries with annual sales of US \$196 billion. To discover more, please visit our official website at www.samsung.com and our official blog at global.samsungtomorrow.com

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